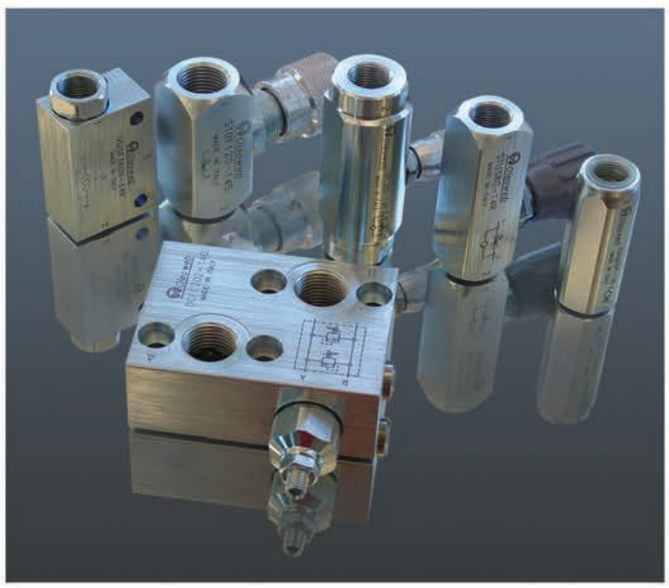
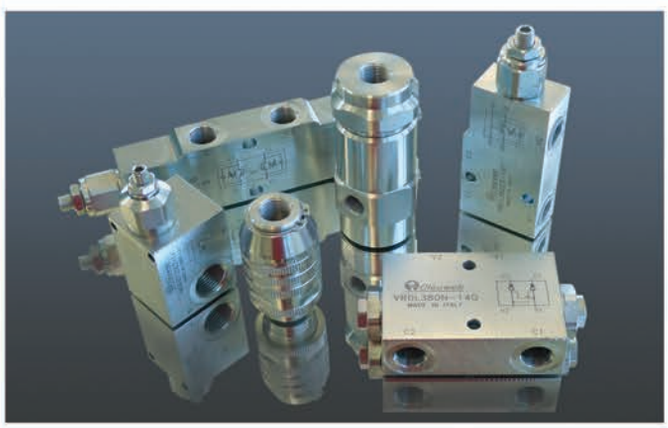
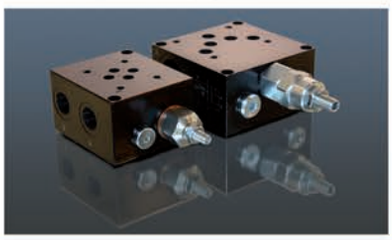
Oleoweb

HYDRAULIC VALVES AND COMPONENTS







The Italian Quality in Hydraulic

MANUALE USO E MANUTENZIONE VALVOLE OLEODINAMICHE

Questo manuale è indirizzato a personale specializzato e competente che non può in ogni caso sostituire la professionalità e la competenza dell'installatore. La Casa Produttrice declina ogni responsabilità per danni alle persone ed agli oggetti dovuti ad una cattiva od impropria installazione delle valvole. La *OLEOWEB SRL* è orientata ad una continua ricerca e sviluppo dei propri prodotti e pertanto si riserva il diritto si modificare in qualunque momento e senza alcun preavviso tutte le caratteristiche tecniche ritenute necessarie. Il presente manuale potrà subire variazioni ed integrazioni, ma non potrà in alcun caso ritenersi superato. Il presente manuale e la documentazione tecnica della *OLEOWEB SRL* hanno lo scopo di fornire ulteriori informazioni tecniche ad utilizzatori competenti del settore (collaboratori competenti).

PERSONA COMPETENTE

E' una persona che, per merito dell'addestramento tecnico e dell'esperienza, possiede una sufficiente conoscenza del settore. L'utilizzatore è responsabile della scelta del suo prodotto e dei suoi accessori. Risulta quindi importante che l'utilizzatore analizzi le problematiche della propria applicazione, esegundo analisi e prove adeguate. È inoltre il responsabile dell'applicazione, delle sicurezze e delle avvertenze richieste dalle direttive in vigore.

STAMPIGLIATURA

Le valvole *OLEOWEB* sono identificabili per mezzo della stampigliatura posta sulla valvola:
- Logo aziendale
- Schema idraulico
- Codice
- Mese e anno di fabbricazione (in estensione al codice)

MESE DI FABBRICAZIONE	ANNO DI FABBRICAZIONE									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
GENNAIO	0M	1M	12M	13M	14M	15M	16M	17M	18M	19M
FEBBRAIO	0N	1N	12N	13N	14N	15N	16N	17N	18N	19N
MARZO	0P	1P	12P	13P	14P	15P	16P	17P	18P	19P
APRILE	0Q	1Q	12Q	13Q	14Q	15Q	16Q	17Q	18Q	19Q
MAGGIO	0R	1R	12R	13R	14R	15R	16R	17R	18R	19R
GIUGNO	0S	1S	12S	13S	14S	15S	16S	17S	18S	19S
LUGLIO	0T	1T	12T	13T	14T	15T	16T	17T	18T	19T
AGOSTO	0U	1U	12U	13U	14U	15U	16U	17U	18U	19U
SETTEMBRE	0V	1V	12V	13V	14V	15V	16V	17V	18V	19V
OTTOBRE	0Z	1Z	12Z	13Z	14Z	15Z	16Z	17Z	18Z	19Z
NOVEMBRE	0X	1X	12X	13X	14X	15X	16X	17X	18X	19X
DICEMBRE	0Y	1Y	12Y	13Y	14Y	15Y	16Y	17Y	18Y	19Y

USO PREVISTO DELLE VALVOLE

Le valvole *OLEOWEB* sono destinate a costruttori di macchine ed attrezzature a comando oleodinamico.
Data la vastità applicativa delle valvole oleodinamiche e non essendo sempre nota la destinazione finale del prodotto, questo manuale è stato realizzato limitatamente in funzione delle generiche applicazioni conosciute.

LIMITI DI IMPIEGO

La *OLEOWEB SRL* diffida ogni utilizzatore/clienti o costruttori nell'impiegare le valvole nelle seguenti applicazioni:
- ambienti dove esista il pericolo di esplosione o incendio;
- veicoli ed impianti aeronautici e spaziali;
- sistemi ed impianti sterzanti su veicoli e su mezzi adibiti al trasporto di persone, cose ed animali;
- sistemi frenanti, di blocco e di stallo in genere;
- attrezzature ed impianti di applicazione in campo militare, nucleare, medicale ed ospedaliero

TUTTAVIA LA DIREZIONE TECNICA DELLA OLEOWEB SRL SI RISERVA, DIETRO RICHIESTA DELL'UTILIZZATORE, DI VALUTARE CASO PER CASO LE APPLICAZIONI SOPRA CITATE E DI DARNE QUALORA LO RITENGA OPPORTUNO L'AUTORIZZAZIONE.

SPECIFICHE MECCANICHE

- Non manomettere alcun tipo di valvola, un semplice allentamento di una valvola potrebbe provocare la caduta libera di carichi o il cedimento di strutture.
- Tutte le operazioni d'installazione, montaggio, manutenzione e smontaggio delle valvole e dei componenti ad essa applicati devono essere eseguiti nel massimo rispetto delle norme di sicurezza. Durante queste operazioni, all'interno del circuito oleodinamico non deve mai essere presente pressione (pressione zero) e non deve esistere nessun tipo di carico sulla strutture dell'attrezzatura o della macchina a cui la valvola è applicata (carico zero).

SPECIFICHE ELETTRICHE

- Tutti i collegamenti e scollegamenti elettrici devono essere eseguiti da personale specializzato e competente.
- Prima di procedere a qualsiasi tipo di operazione o di intervento sulla valvola, devono essere scollegate dalla linea elettrica di alimentazione.

SPECIFICHE DI SICUREZZA

- Usare protezioni antinfortunistiche;
- Lavorare in condizioni di massima pulizia;
- Lavorare in condizioni di massima sicurezza;
- Usare strumenti, attrezzi e banchi di servizio adatti e puliti;
- Durante le operazioni di avviamento, normale lavoro, manutenzione, regolazione, sfiato dell'impianto, intervento e azionamento di valvole e vari elementi di controllo POSSONO VERIFICARSI DEGLI SCHIZZI

IMPROVVISI E DELLE FUORIUSCITE DI FLUIDO IDRAULICO, IL QUALE PUÒ RAGGIUNGERE TEMPERATURE TALI DA CAUSARE USTIONI ALLA PELLE. Il fluido idraulico può essere pericoloso per la salute in quanto il contatto con la pelle e gli occhi può causare gravi danni. Attenersi scrupolosamente alle disposizioni di protezione e sicurezza imposte dal produttore del fluido idraulico riportate sulla scheda tecnica e tossicologica del prodotto. Il fluido idraulico può essere un prodotto inquinante. È perciò buona norma evitare perdite di fluido idraulico con prodotti oleoassorbenti. Rapide variazioni di temperatura possono pregiudicare sia le caratteristiche che la durata del prodotto, pertanto è indispensabile proteggerlo da queste situazioni.

MONTAGGIO

Un montaggio ed una corretta installazione sono fattori essenziali per il buon funzionamento nel tempo di un impianto oleodinamico. La polvere e la sporcizia sono i peggiori nemici dell'oleodinamica. Durante l'installazione preoccuparsi quindi della massima pulizia effettuando le principali operazioni di collegamento in un locale pulito e non polveroso. Le valvole devono essere montate in modo tale da permettere una facile accessibilità ai comandi, alle ispezioni, alla manutenzione ed alla riparazione, inoltre è altrettanto indispensabile che esse vengano montate in una zona protetta da urti accidentali e riparata da casuali contatti fisici, poichè la temperatura raggiunta durante il funzionamento può essere causa di ustioni.

MOVIMENTAZIONE

Le valvole oleodinamiche sono dei prodotti da maneggiare con cura ed attenzione. Per loro caratteristica presentano protuberanze soggette a rottura.

STOCCAGGIO

Le valvole oleodinamiche devono essere stoccate in un luogo protetto, possibilmente chiuso, al riparo da polvere, sporcizia, umidità ed intemperie, ad una temperatura non inferiore a -15° C e non superiore a +50° C. Inoltre, la protezione deve evitare la perdita di fluido idraulico rimasto nella valvola dopo il collaudo e non consentire l'accesso di corpi estranei, i quali si potrebbero dimostrare molto pericolosi per il buon funzionamento e per la durata della valvola.

SMALTIMENTO VALVOLE

Le valvole oleodinamiche sono costruite principalmente in lega di alluminio, in lega di acciaio e in materiale plastico; possono essere smaltite come normali materiali inviati al riciclaggio con l'unica avvertenza di effettuare lo svuotamento dal fluido idraulico in tutte le sue parti.

SMALTIMENTO FLUIDO IDRAULICO

I fluidi idraulici sono soggetti a speciali prescrizioni di smaltimento: rispettare le indicazioni e le istruzioni dei produttori e attenersi alle disposizioni legislative vigenti nel Paese di utilizzazione.

NON DISPERDERE NELL'AMBIENTE IL FLUIDO SOSTITUITO

MANUTENZIONE

Un impianto oleoidraulico ben installato e curato nella fase di montaggio e messa in esercizio assicura una lunga durata senza inconvenienti e non necessita di particolari cure manutentive. Il principio di base è la necessità di controllare spesso la qualità e lo stato del fluido che trasmette potenza e assicurarsi dell'assenza di impurità nel circuito cui è rapportata l'affidabilità di qualsiasi macchina oleoidraulica. Infatti, fra le cause principali di fuori servizio o di guasto, si può segnalare il bloccaggio di apparecchiature a seguito di grippaggi o di rotture dovuti ad usura e ad invecchiamento del fluido che trasmette potenza, con conseguente perdita delle sue proprietà chimico-fisiche. È ormai accertato che la causa principale di tutti questi inconvenienti è dovuta alla presenza di particolari e microparticelle che circolano continuamente nel fluido e che costituiscono motivo di usura. Queste microparticelle, se lasciate circolare nel sistema, agiscono come una miscela abrasiva scalfendo le superfici con cui vengono a contatto e trascinando in ciclo ulteriore contaminante; i danni sono, ovviamente, tanto più gravi quanto più sono sofisticate le apparecchiature installate. Dalla messa in marcia dell'impianto, la manutenzione è fatta fondamentalmente di piccole operazioni che per essere veramente efficaci devono essere compiute con regolarità. È pertanto estremamente importante che tali operazioni di controllo e di verifica siano programmate e riportate su schede di macchine o di impianto.

PULIZIA ESTERNA

Permette una facile localizzazione di eventuali perdite e dunque l'immediato intervento.

CONTROLLO CONTINUO DELLA TEMPERATURA DELL'OLIO

L'alterazione del fluido a causa della temperatura è un motivo di inquinamento e di degradazione dell'impianto. La formazione dei prodotti di degradazione degli idrocarburi è particolarmente favorita dal calore: la velocità di ossidazione si può ritenere circa costante fino a 60°C, raddoppiando a partire da questo punto ad ogni incremento di 10°C. La presenza di morchie e di sedimenti nel fluido, causa di un aspetto torbido, segnala lo stato di degradazione dello stesso.

CAMBIO FLUIDO

Assicurare nel tempo le migliori condizioni di lavoro, con frequente controllo del fluido e sua periodica sostituzione. Mediamente dopo le prime 100 ore di lavoro, poi ogni 2000 ore o comunque una volta all'anno. Ad ogni cambio sostituire i filtri ed eseguire la pulizia del serbatoio. Prima di eseguire il cambio del fluido idraulico svuotare completamente l'impianto dallo stesso.

GARANZIA

CONDIZIONI GENERALI DI GARANZIA

I prodotti di nostra fabbricazione sono garantiti da eventuali avarie imputabili a difetti di fabbricazione o a materiali impiegati. La durata della garanzia sarà di 12 mesi dalla spedizione dal nostro stabilimento. Eventuali interventi di revisione in garanzia, dovranno essere effettuati dai servizi di Assistenza Tecnica da noi autorizzati, oppure presso il nostro stabilimento dove i prodotti dovranno essere inviati in porto franco con un imballo adeguato. Sarà considerata decaduta la garanzia in caso di incauto utilizzo, di manomissione, di modifica e/o di riparazione eseguita da personale non da noi autorizzato.

ASSISTENZA TECNICA FUORI GARANZIA

La *OLEOWEB SRL* è a disposizione per le riparazioni dei prodotti anche decorso il termine di garanzia.
La *OLEOWEB SRL* effettuerà la riparazione anche trascorsi diversi anni d'impiego (sempre che sia economicamente conveniente).
Il costo della riparazione dei nostri prodotti non più in garanzia viene normalmente calcolato a consuntivo. L'eventuale richiesta di un preventivo dovrà essere fatta espressamente al momento della consegna del prodotto da riparare. Nel caso che il preventivo non venga accettato, saranno comunque addebitate le spese da noi sostenute per la formulazione dello stesso.

Ogni prodotto reso per la revisione deve essere accompagnato da:
1. Regolare bolla completa di dati, come da disposizione di legge.
2. Lettera di indicazione del difetto riscontrato e dati di riferimento di un Tecnico Responsabile per eventuali chiarimenti.

Oleoweb
HYDRAULIC VALVES AND COMPONENTS

Indice · *Index*

OLIO · *OIL*

Utilizzare esclusivamente olio idraulico a base minerale ISO 6743/4 (DIN 51524)

Use only ISO 6743/4 (DIN 51524) hydraulic mineral oil

VISCOSITÀ · *VISCOSITY*

Viscosità secondo i parametri ISO 3448 (DIN51519). Il grado di viscosità viene indicato con le lettere ISO VG seguito da un numero che indica la viscosità cinematica media a 40° C in mm^2/s o centistokes (cSt)

Viscosità min. 15 mm^2/s	Viscosità max. 100 mm^2/s	Viscosità consigliata 46 mm^2/s

The viscosity must be according to ISO 3448 (DIN51519) standards. The viscosity degree is stated by ISO VG letters followed by a number showing the average kinematic viscosity at 40° C in mm^2/s or centistokes (cSt)

Minimum viscosity 15 mm^2/s	*Maximum viscosity 100 mm^2/s*	*Advised viscosity 46 mm^2/s*

Gradi di viscosità ISO *ISO viscosity degrees*	**Viscosità cinematica media** *Average kinematic viscosity mm^2/s at 40° C*	**Limiti viscosità cinematica** *Kinematic viscosity limits mm^2/s at 40° C*	
		Min.	Max.
ISO VG 15	15	13,5	16,5
ISO VG 22	22	19,8	24,2
ISO VG 32	32	28,8	35,2
ISO VG 46	46	41,4	50,6
ISO VG 68	68	61,2	74,8
ISO VG 100	100	90,0	110

FILTRAZIONE CONTAMINAZIONE · *FILTRATION CONTAMINATION*

Tutti i costrutturi di prodotti oleodinamici riconoscono che la eccessiva contaminazione del fluido è la principale causa del malfunzionamento negli impianti oleodinamici.
È indispensabile l'utilizzo di un filtro per proteggere la valvola.
Filtrazione consigliata 15 micron - Classe di contaminazione ISO 4406: 1999 classe 19/17/14

All manifacturers of hydraulic products recognize that excessive fluid contamination is the main cause of hydraulic installations bad working. It is necessary a filter use to protect the valve.
Advise filtration 15 micron - Contamination class ISO 4406: 1999 19/17/14

TEMPERATURA · *TEMPERATURE*

Temperatura ambiente - 20°C + 50°C	*Ambient temperature - 20°C + 50°C*
Temperatura olio - 20°C + 80°C	*Oil temperature - 20°C + 80°C*

CONDIZIONI DI PROVA · *TESTING CONDITIONS*

Tutte le curve di funzionamento riportate a catalogo sono state eseguite utilizzando olio minerale con grado di viscosità ISO VG46 alla temperatura di 40°C ed un grado di filtrazione assoluta di 15 micron.

All technical curves show in the present catalogue have been made using mineral oil with ISO VG46 viscosity degree at the temperature of 40°C and degree of absolute filtering of 15 micron.

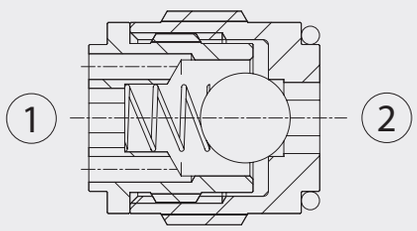
Piccole valvole

Small valves

Oleoweb

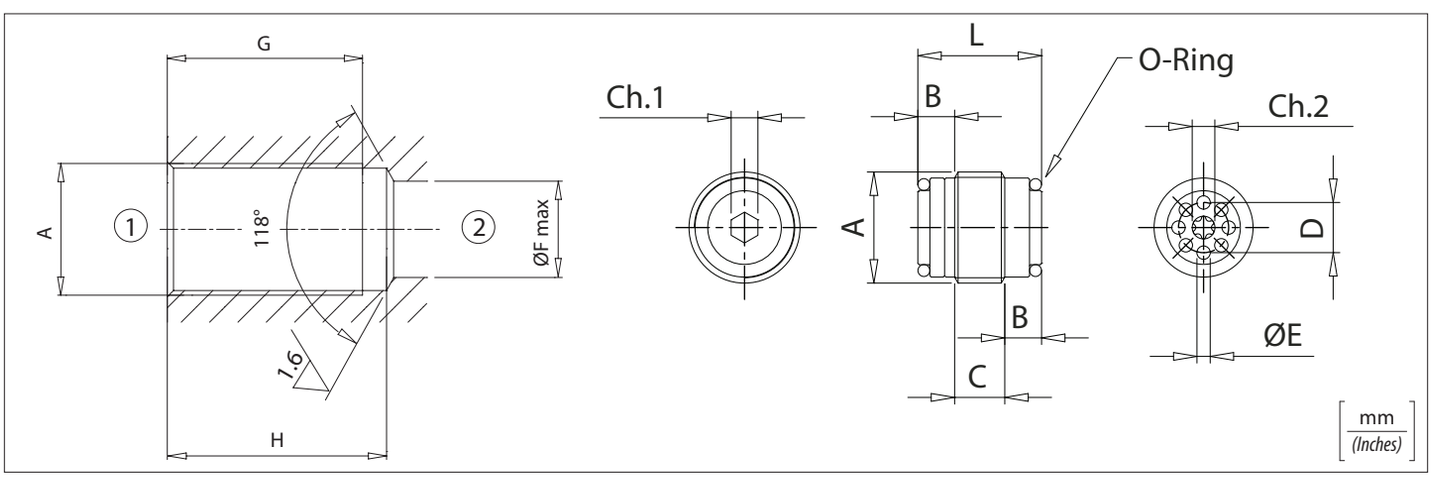
HYDRAULIC VALVES AND COMPONENTS

VUI Valvole unidirezionali a sfera
Ball check valves

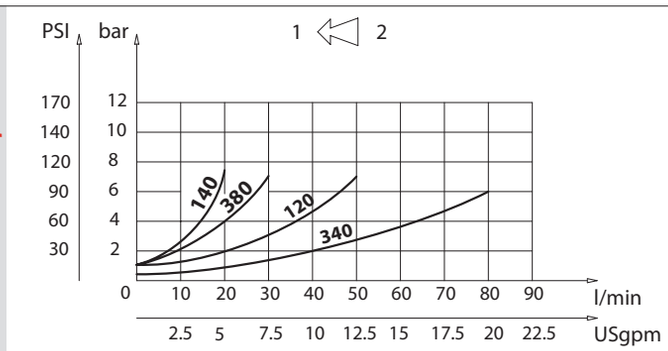


Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola *It is necessary a filter use to protect the valve (advised filtration 15 micron)*		
Trafilamento *Leakage*	0 - 0,25 cm^3/min *(0-0,015 in^3)*	
Pressione d'apertura *Cracking pressure*	0,5 bar *(7 PSI)*	



Perdite di carico / ***Pressure drops***



Codice ordinazione / ***Ordering code***

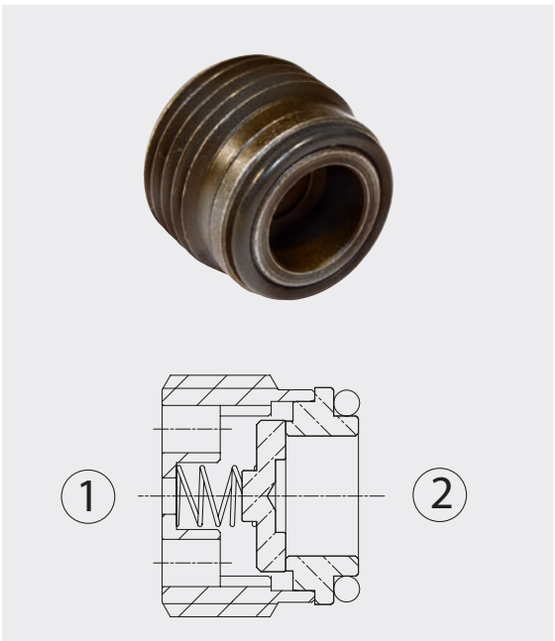
VUI - X

X	Dimensione / *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4

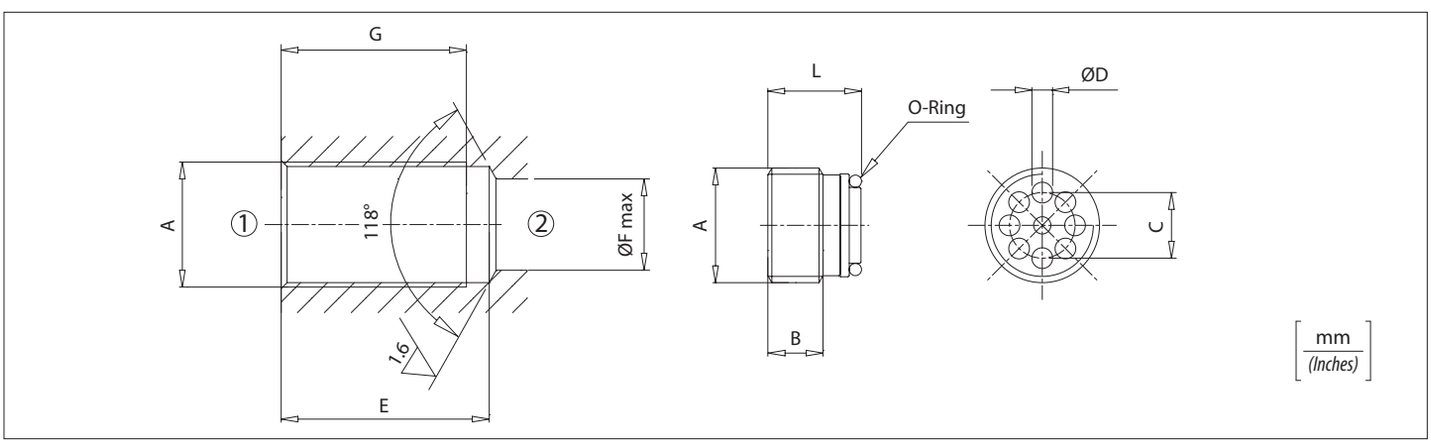
Caratteristiche tecniche / ***Technical performances***

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	H	L	Ch. 1	Ch. 2	Coppia di serraggio *Tightening torque* Nm / lbt ft	O-Ring	Peso appross. *Approx weight* Kg / lb
VUI 140	**BSPP 1/4**	**20** *(5)*	**350** *(5000)*	**5,5** *(0.28)*	**6** *(0.24)*	**6** *(0.24)*	**1,3** *(0.05)*	**7** *(0.28)*	**28** *(1.10)*	**31** *(1.22)*	**17** *(0.67)*	**3** *(0.11)*	**Torx T15**	**6** *(53)*	**9 x 1**	**0,01** *(0.022)*
VUI 380	**BSPP 3/8**	**30** *(8)*			**7,5** *(0.30)*	**7,5** *(0.30)*	**2** *(0.08)*	**9** *(0.35)*	**31** *(1.22)*	**34** *(1.34)*	**18,5** *(0.73)*	**4** *(0.15)*	**Torx T15**		**10,8 x 1,78**	**0,018** *(0.040)*
VUI 120	**BSPP 1/2**	**50** *(13)*		**7** *(0.22)*	**8,5** *(0.34)*	**10** *(0.39)*	**2,5** *(0.10)*	**12** *(0.47)*	**35** *(1.38)*	**38** *(1.50)*	**22,5** *(0.88)*	**6** *(0.23)*	**5** *(0.19)*	**10** *(88)*	**14 x 1,78**	**0,033** *(0.073)*
VUI 340	**BSPP 3/4**	**80** *(21)*		**7,5** *(0.30)*	**13,5** *(0.53)*	**14** *(0.55)*	**3,25** *(0.13)*	**16** *(0.63)*	**41** *(1.61)*	**45** *(1.77)*	**28,5** *(1.12)*	**8** *(0.31)*	**8** *(0.31)*	**20** *(177)*	**18,7 x 2,62**	**0,07** *(0.16)*

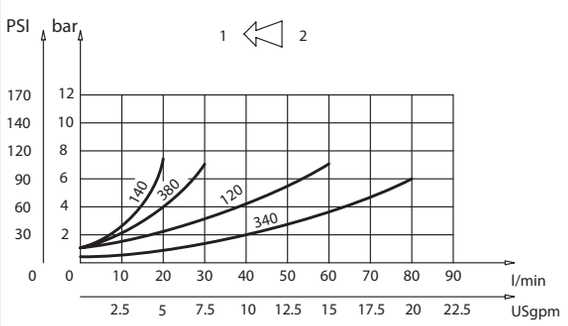
VUP Valvole unidirezionali a disco
Disk check valves

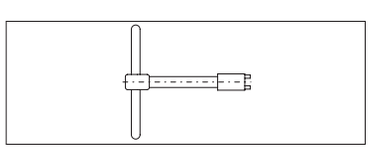


Dati tecnici *Technical data*		
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola *It is necessary a filter use to protect the valve (advised filtration 15 micron)*		
Trafilamento *Leakage*	0 - 0,25 cm^3/min *(0-0,015 in^3)*	
Pressione d'apertura *Cracking pressure*	0,5 bar *(7 PSI)*	



Perdite di carico *Pressure drops*





Chiave / Tool

Dimensione / Dimensions

Codice *Code*	Valvola *Valve*	Peso / **Kg** *Weight / lb*
61700005	**VUP 140**	**0,12** *(0.27)*
61700006	**VUP 380**	**0,13** *(0.29)*
61700003	**VUP 120**	**0,15** *(0.33)*
61700030	**VUP 340**	**0,18** *(0.40)*

Codice ordinazione / *Ordering code*

VUP - X

X	Dimensione / *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4

Caratteristiche tecniche / *Technical performances*

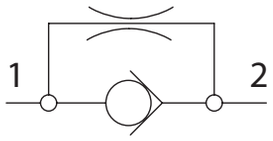
Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	L	Coppia di serraggio *Tightening torque* Nm / lbt ft	O-Ring	Peso approssimativo *Approx weight* Kg / lb
VUP 140	**BSPP 1/4**	**20** *(5)*	**500** *(7250)*	**6** *(0.24)*	**7** *(0.27)*	**2** *(0.08)*	**24** *(0.95)*	**7** *(0.28)*	**22** *(0.87)*	**10,2** *(0.40)*	**6** *(53)*	**9 x 1**	**0,01** *(0.022)*
VUP 380	**BSPP 3/8**	**35** *(9)*		**8** *(0.31)*	**9,5** *(0.37)*	**3** *(0.12)*	**29** *(1.14)*	**9** *(0.35)*	**27** *(1.06)*	**13,5** *(0.53)*	**6** *(53)*	**10,8 x 1,78**	**0,011** *(0.025)*
VUP 120	**BSPP 1/2**	**60** *(16)*	**350** *(5000)*	**10** *(0.39)*	**12** *(0.47)*	**4** *(0.16)*	**32** *(1.26)*	**12** *(0.47)*	**29** *(1.14)*	**16,1** *(0.63)*	**10** *(88)*	**14 x 1,78**	**0,02** *(0.044)*
VUP 340	**BSPP 3/4**	**80** *(21)*		**10,5** *(0.41)*	**16** *(0.63)*	**4,75** *(0.19)*	**37** *(1.46)*	**16** *(0.63)*	**33** *(1.30)*	**20,4** *(0.80)*	**20** *(177)*	**18,7 x 2,62**	**0,043** *(1.12)*

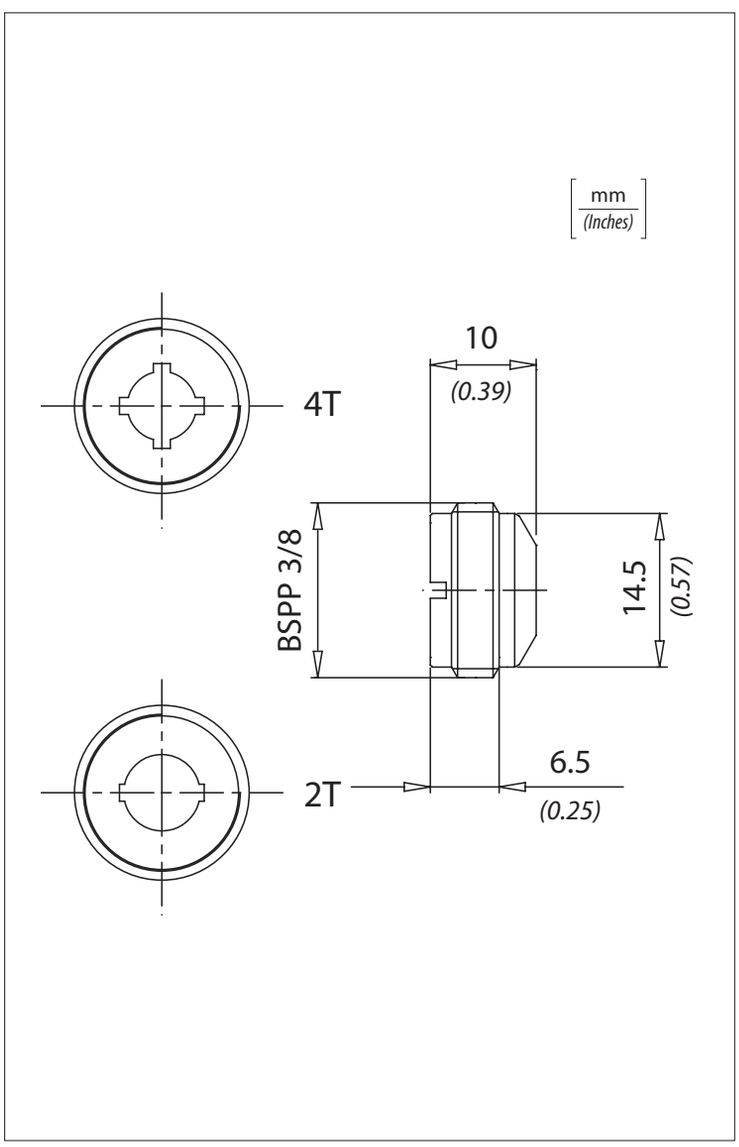
VS Valvole unidirezionali con trafilamento
Check valves with gap

Dati tecnici *Technical data*		
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





Codice ordinazione / *Ordering code*

VS - X - Y

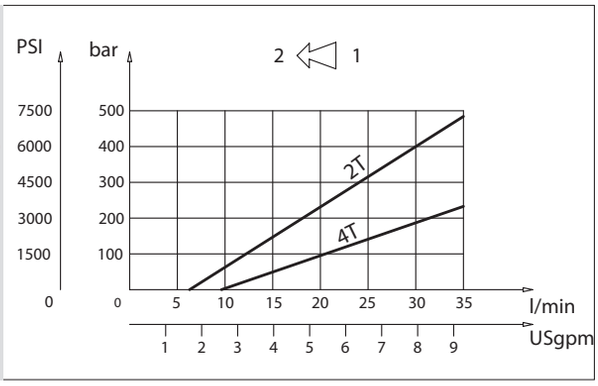
X	Dimensione / *Size*
380	BSPP 3/8

Y	Tagli / *Gaps*
2T	2 tagli / *2 gaps*
4T	4 tagli / *4 gaps*

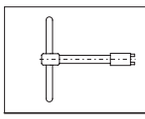
Caratteristiche tecniche / *Technical performances*

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Coppia di serraggio *Tightening torque* Nm / *lbt ft*	Peso approssimativo *Approx weight* Nm Kg / *lb*
VS	**35** *(9)*	**500** *(7000)*	**6** *(4.5)*	**0,01** *(0.022)*

Perdite di carico *Pressure drops*



VUBA
Valvole di sicurezza per tubazioni
Hose burst valves



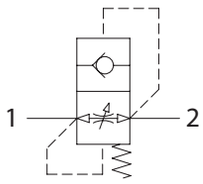
Chiave
Tool

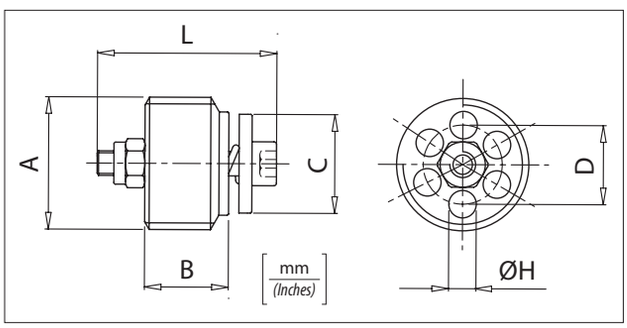
Dimensione / Dimensions

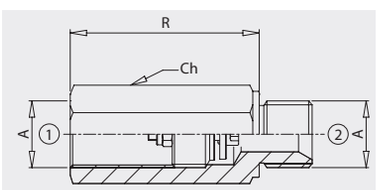
Codice *Code*	A	Peso / **Kg** *Weight / lb*
61700001	**VUBA 140**	**0,12** *(0.27)*
61700002	**VUBA 380**	**0,13** *(0.29)*
61700003	**VUBA 120**	**0,15** *(0.33)*
61700004	**VUBA 340**	**0,18** *(0.40)*

Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola *It is necessary a filter use to protect the valve (advised filtration 15 micron)*		
Trafilamento *Leakage*	0 - 0,25 cm^3/min *(0-0,015 in^3)*	

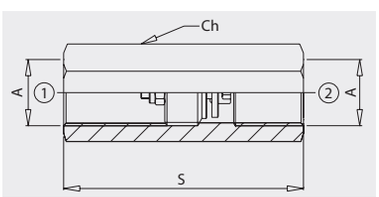






Colonnette / *Housing M/F*

Codice *Code*	A	R	CH	Peso / Kg *Weight / lb*
61100087	**BSPP** 1/4	**39** *(1.53)*	**19** *(0.75)*	**0,07** *(0.16)*
61100088	**BSPP** 3/8	**45** *(1.77)*	**22** *(0.87)*	**0,09** *(0.20)*
61100089	**BSPP** 1/2	**52** *(2.05)*	**27** *(1.06)*	**0,15** *(0.33)*
61100090	**BSPP** 3/4	**61** *(2.40)*	**32** *(1.26)*	**0,23** *(0.50)*



Colonnette / *Housing F/F*

Codice *Code*	A	S	CH	Peso / Kg *Weight / lb*
61100092	**BSPP** 1/4	**48** *(1.89)*	**41** *(1.61)*	**0,07** *(0.16)*
61100093	**BSPP** 3/8	**54** *(2.13)*	**19** *(0.75)*	**0,09** *(0.20)*
61100094	**BSPP** 1/2	**73** *(2.87)*	**22** *(0.87)*	**0,14** *(0.30)*
61100095	**BSPP** 3/4	**74** *(2.91)*	**27** *(1.06)*	**0,22** *(0.48)*
61100091	**BSPP** 1	**67** *(2.63)*	**32** *(1.26)*	**0,3** *(0.65)*

Codice ordinazione / *Ordering code*

VUBA - X - Y - K

X Dimensione *Size*

140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**
1215	**M12x1.5**
1415	**M14x1.5**
1615	**M16x1.5**
2215	**M22x1.5**

Y Regolazione *Setting*

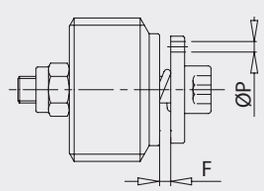
F_,_ Esempio: regolazione 0,7 mm
Example: setting 0.7mm
F 0,7

Omettere se non richiesto
Omit if not required

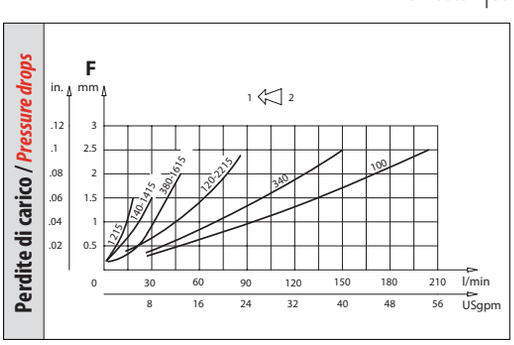
K Foro sul piattello *Hole on flat poppet*

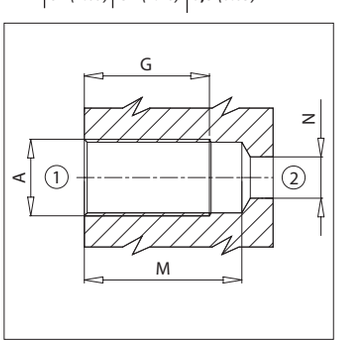
P_,_ Esempio: foro 1,5 mm
Example: hole 1,5 mm
P 1,5

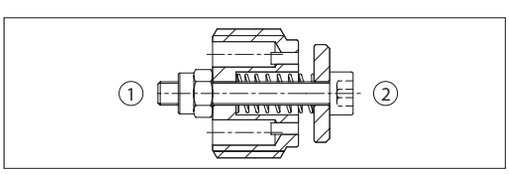
Omettere se non richiesto
Omit if not required



Regolazione F a richiesta
F setting on request
Foro su piattello a richiesta
Hole on flat poppet on request





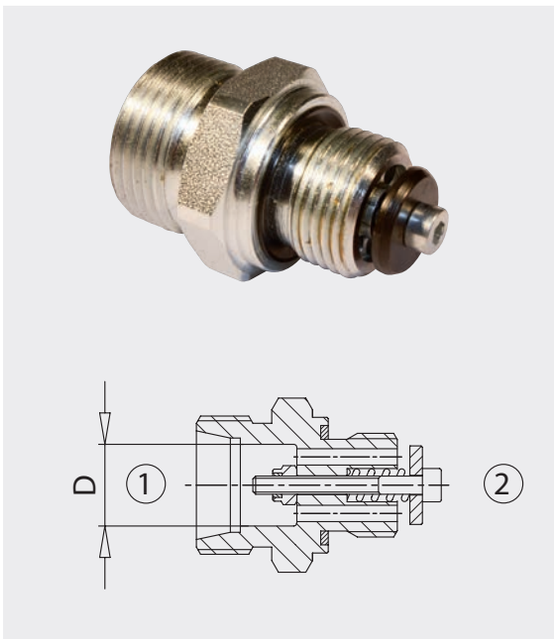


Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	G	H	L	M	N	Coppia di serraggio *Tightening torque* Nm / lbt ft	Peso approssimativo *Approx weight* Kg / lb
VUBA 140	**BSPP** 1/4	**25** *(6.5)*	**350** *(5000)*	**8,2** *(0.32)*	**10,4** *(0.41)*	**8** *(0.31)*	**25** *(0.98)*	**2,5** *(0.10)*	**19** *(0.75)*	**35** *(1.38)*	**7** *(0.28)*	**2** *(1.5)*	**0,007** *(0.016)*
VUBA 380	**BSPP** 3/8	**50** *(13)*		**11** *(0.43)*	**12,7** *(0.50)*	**10** *(0.39)*	**30** *(1.18)*	**3,25** *(0.13)*	**23** *(0.90)*	**41** *(1.61)*	**9,5** *(0.37)*	**3** *(2.5)*	**0,013** *(0.029)*
VUBA 120	**BSPP** 1/2	**80** *(21)*		**13** *(0.51)*	**15** *(0.59)*	**11,5** *(0.45)*	**33** *(1.30)*	**4** *(0.16)*	**29** *(1.14)*	**46** *(1.81)*	**12** *(0.47)*	**4** *(3)*	**0,024** *(0.053)*
VUBA 340	**BSPP** 3/4	**150** *(40)*		**18** *(0.71)*	**18** *(0.71)*	**14,5** *(0.57)*	**42** *(1.65)*	**5,2** *(0.20)*	**34** *(1.34)*	**55** *(2.17)*	**16** *(0.63)*	**10** *(7.5)*	**0,054** *(0.12)*
VUBA 100	**BSPP 1**	**180** *(47)*		**20** *(0.79)*	**26** *(1.02)*	**19** *(0.75)*	**48** *(1.89)*	**7** *(0.28)*	**40** *(1.57)*	**63** *(2.48)*	**22** *(0.87)*	**12** *(9)*	**0,1** *(0.22)*
VUBA 1215	**M12x1.5**	**15** *(4)*		**8,4** *(0.33)*	**10** *(0.39)*	**7,5** *(0.29)*	**25** *(0.98)*	**1,6** *(0.06)*	**19** *(0.75)*	**35** *(1.38)*	**7** *(0.28)*	**2** *(1.5)*	**0,007** *(0.016)*
VUBA 1415	**M14x1.5**	**25** *(6.5)*		**11** *(0.43)*	**11,5** *(0.45)*	**9** *(0.35)*		**2,5** *(0.10)*	**23** *(0.90)*				**3** *(2.5)*	**0,012** *(0.027)*
VUBA 1615	**M16x1.5**	**50** *(13)*			**12,7** *(0.50)*	**10** *(0.39)*	**30** *(1.18)*	**3,25** *(0.13)*		**41** *(1.62)*	**9,5** *(0.37)*	**3** *(2.5)*	**0,012** *(0.027)*
VUBA 2215	**M22x1.5**	**80** *(21)*		**13** *(0.51)*	**15** *(0.59)*	**11,5** *(0.45)*	**33** *(1.30)*	**4** *(0.16)*	**29** *(1.14)*	**46** *(1.18)*	**12** *(0.47)*	**4** *(3)*	**0,029** *(0.064)*

VUBADIN

Valvole di sicurezza per tubazioni DIN
DIN Hose burst valves

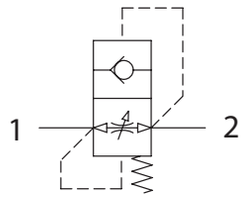


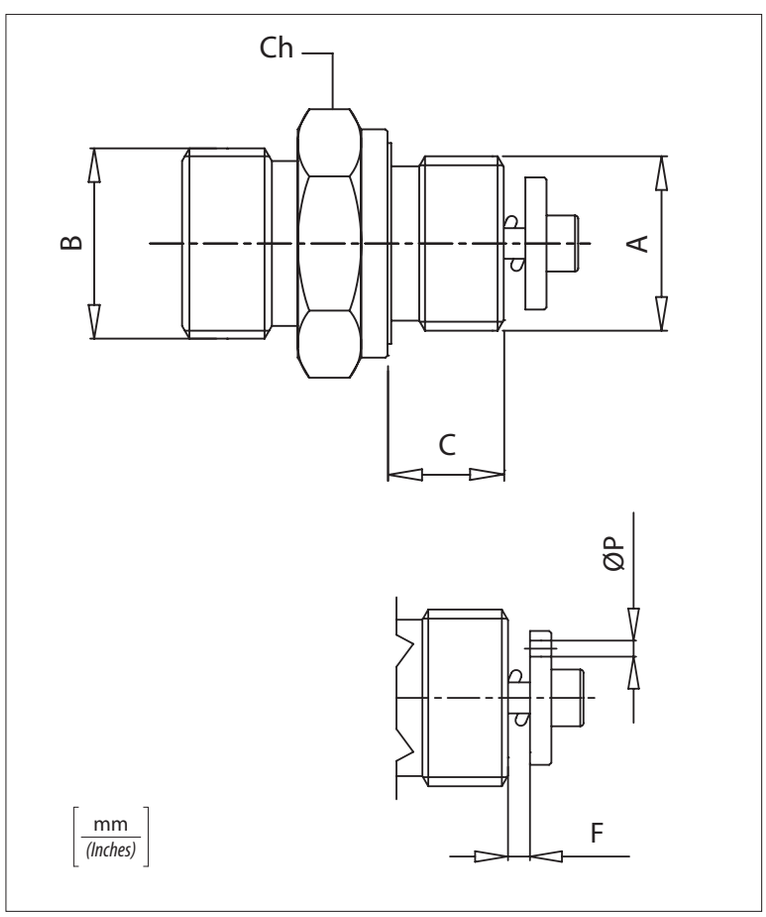
Dati tecnici
Technical data

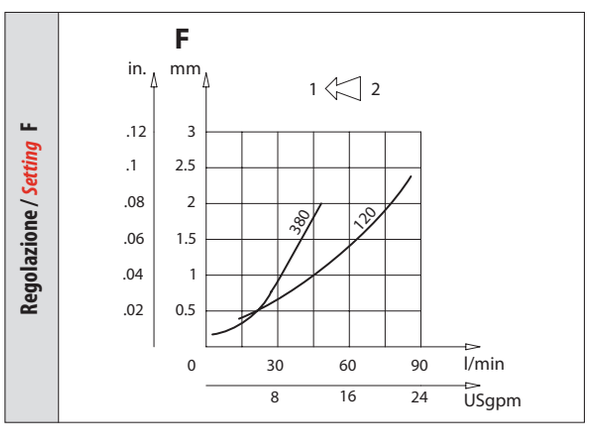
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14
Temperatura del fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F + 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)







Codice ordinazione / *Ordering code*

VUBA - X - Y - K - Z

X	Dimensione *Size*
380	**BSPP 3/8**
120	**BSPP 1/2**

Y	Dimensione *Size*	
T10	Per tubo Ø 10 *For Ø 10 pipe*	Solo VUBA380
T12	Per tubo Ø 12 *For Ø 12 pipe*	*VUBA380 only*
T15	Per tubo Ø 15 *For Ø 15 pipe*	

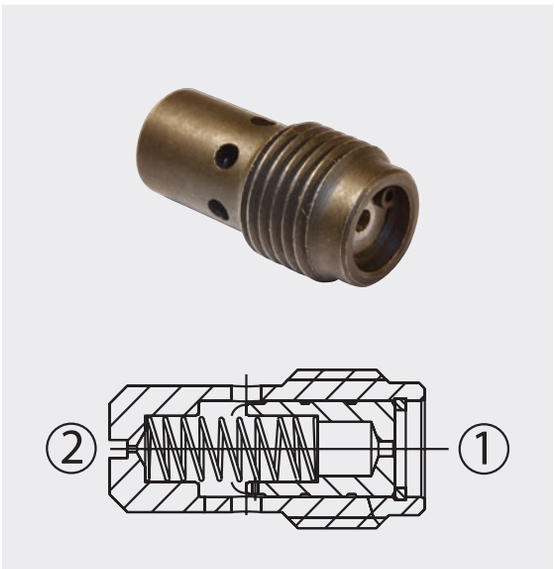
K	Regolazione *Setting*
	Esempio: regolazione 0,7 mm *Example: setting 0,7 mm*
F_,_	F 0,7
	Omettere se non richiesto *Omit if not required*

Z	Foro sul piattello *Hole on flat poppet*
	Esempio: foro 1,5 mm *Example: hole 1,5 mm*
P_,_	P1,5
	Omettere se non richiesto *Omit if not required*

Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	Ch	Coppia max di serraggio raccordo (Nm) *Max fitting tightening torque (lbt ft)*	Coppia max di serraggio tubo (Nm) *Max tightening torque for hose (lbt ft)*	Peso approssimativo *Approx weight* Kg / lb
VUBA380T10				**M16 x 1,5**		**10** *(0.39)*	**22** *(0.87)*		**20** *(15)*	**0,04** *(0.088)*
VUBA380T12	**BSPP 3/8**	**50** *(13)*	**315** *(4500)*	**M18 x 1,5**	**11** *(0.43)*	**12** *(0.47)*	**22** *(0.87)*	**70** *(50)*	**40** *(30)*	**0,045** *(0.1)*
VUBA380T15				**M22 x 1,5**		**15** *(0.59)*	**24** *(0.94)*		**70** *(50)*	**0,055** *(0.12)*
VUBA120T15	**BSPP 1/2**	**80** *(21)*			**13** *(0.51)*		**27** *(1.06)*	**85** *(65)*		**0,077** *(0.17)*

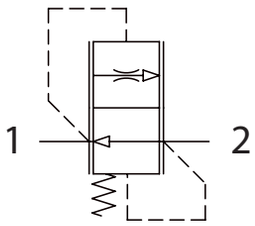
VCC140 Valvole controllo discesa compensate fisse
Fixed compensated load control valves

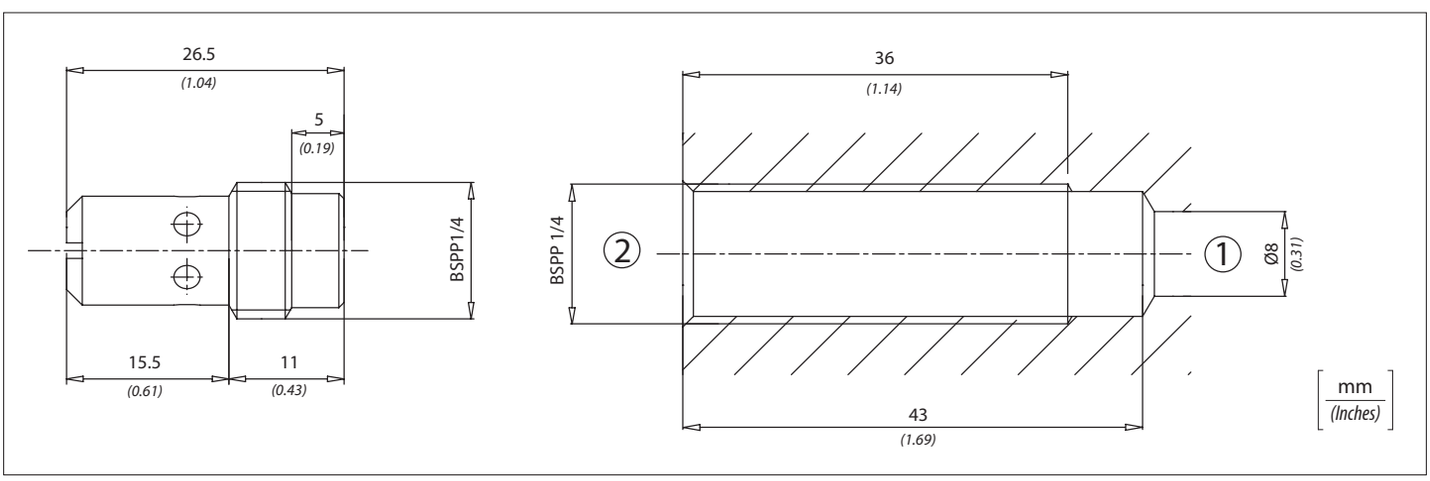


Dati tecnici *Technical data*		
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

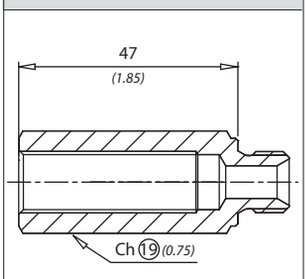
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

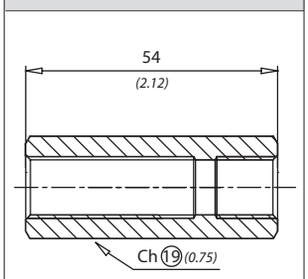


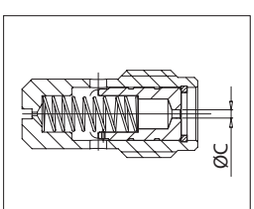


Codice / *Code*
61100160



Codice / *Code*
61100159





Codice *Code*	A
VCC1401	**Ø 1** *(Ø 0.039)*
VCC1402	**Ø 1,2** *(Ø 0.047)*
VCC1403	**Ø 1,5** *(Ø 0.059)*
VCC1404	**Ø 1,7** *(Ø 0.067)*
VCC1405	**Ø 1,9** *(Ø 0.075)*
VCC1406	**Ø 2,1** *(Ø 0.083)*
VCC1407	**Ø 2,3** *(Ø 0.090)*
VCC1408	**Ø 2,5** *(Ø 0.098)*
VCC1409	**Ø 2,7** *(Ø 0.106)*
VCC14010	**Ø 2,8** *(Ø 0.110)*
VCC14011	**Ø 2,9** *(Ø 0.114)*
VCC14012	**Ø 3** *(Ø 0.118)*

Caratteristiche tecniche / ***Technical performances***

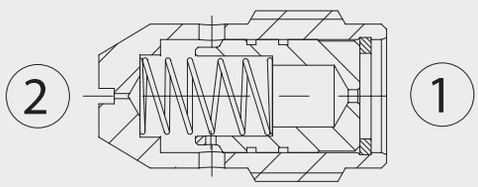
Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Coppia di serraggio *Tightening torque* Nm / *lbt ft*	Peso approssimativo / Kg *Approx weight / lb*
VCC140	**12** *(3)*	**250** *(3600)*	**6** *(4.5)*	**0,014** *(0.031)*

Codice ordinazione / ***Ordering code***

VCC140 - Y

Y	Portata controllata a 100 bar ± 10% *Controlled flow at 100 bar ± 10 %*	
1	**1 l/min**	*(0.25 USgpm)*
2	**2 l/min**	*(0.5 USgpm)*
3	**3 l/min**	*(0.75 USgpm)*
4	**4 l/min**	*(1 USgpm)*
5	**5 l/min**	*(1.25 USgpm)*
6	**6 l/min**	*(1.5 USgpm)*
7	**7 l/min**	*(1.75 USgpm)*
8	**8 l/min**	*(2 USgpm)*
9	**9 l/min**	*(2.25 USgpm)*
10	**10 l/min**	*(2.5 USgpm)*
11	**11 l/min**	*(2.75 USgpm)*
12	**12 l/min**	*(3 USgpm)*

VCC380 Valvole controllo discesa compensate fisse
Fixed compensated load control valves

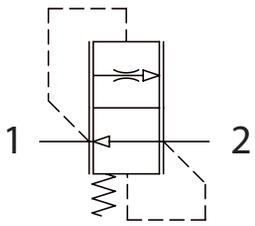


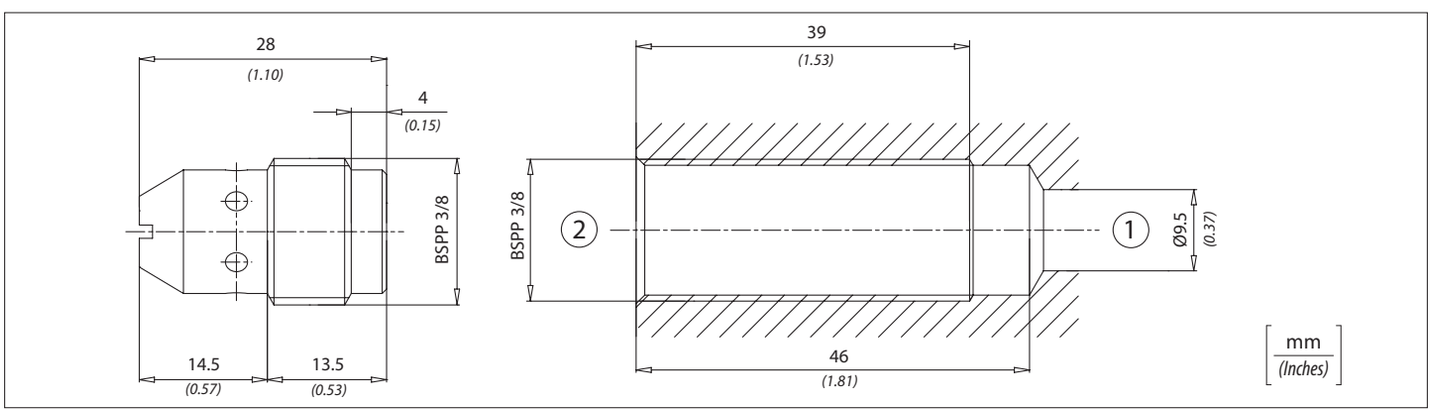
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

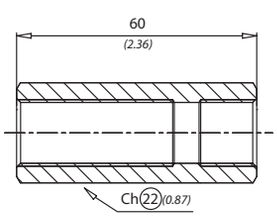
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

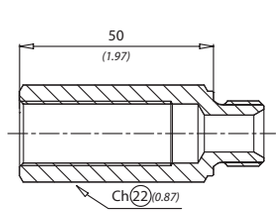


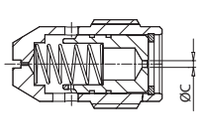


Codice / *Code*
61100161



Codice / *Code*
61100162





Codice *Code*	Ø C
VCC3801	**Ø 6** *(Ø 0.023)*
VCC3802	**Ø 1,4** *(Ø 0.055)*
VCC3803	**Ø 1,7** *(Ø 0.067)*
VCC3804	**Ø 2** *(Ø 0.078)*
VCC3805	**Ø 2,3** *(Ø 0.090)*
VCC3806	**Ø 2,6** *(Ø 0.102)*
VCC3807	**Ø 2,8** *(Ø 0.110)*
VCC3808	**Ø 3,1** *(Ø 0.122)*
VCC3809	**Ø 3,3** *(Ø 0.130)*
VCC38010	**Ø 3,5** *(Ø 0.137)*
VCC38011	**Ø 3,7** *(Ø 0.145)*
VCC38012	**Ø 4** *(Ø 0.157)*
VCC38016	**Ø 5** *(Ø 0.196)*
VCC38018	**Ø 5,5** *(Ø 0.216)*

Codice ordinazione / ***Ordering code***

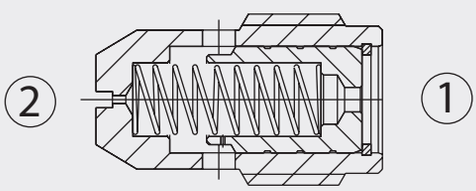
VCC380 - Y

Y	Portata controllata a 100 bar ± 10% *Controlled flow at 100 bar ± 10 %*	
1	**1 l/min**	*(0.25 USgpm)*
2	**2 l/min**	*(0.5 USgpm)*
3	**3 l/min**	*(0.75 USgpm)*
4	**4 l/min**	*(1 USgpm)*
5	**5 l/min**	*(1.25 USgpm)*
6	**6 l/min**	*(1.5 USgpm)*
7	**7 l/min**	*(1.75 USgpm)*
8	**8 l/min**	*(2 USgpm)*
9	**9 l/min**	*(2.25 USgpm)*
10	**10 l/min**	*(2.5 USgpm)*
11	**11 l/min**	*(2.75 USgpm)*
12	**12 l/min**	*(3 USgpm)*
16	**16 l/min**	*(4.25 USgpm)*
18	**18 l/min**	*(4.75 USgpm)*

Caratteristiche tecniche / ***Technical performances***

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Coppia di serraggio *Tightening torque* Nm / *lbt ft*	Peso approssimativo / Kg *Approx weight / lb*
VCC380	**18** *(5)*	**250** *(3600)*	**0,024** *(0.053)*	**0,024** *(0.053)*

VSC120 Valvole controllo discesa compensate fisse
Fixed compensated load control valves

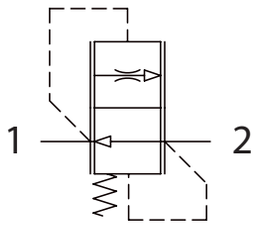


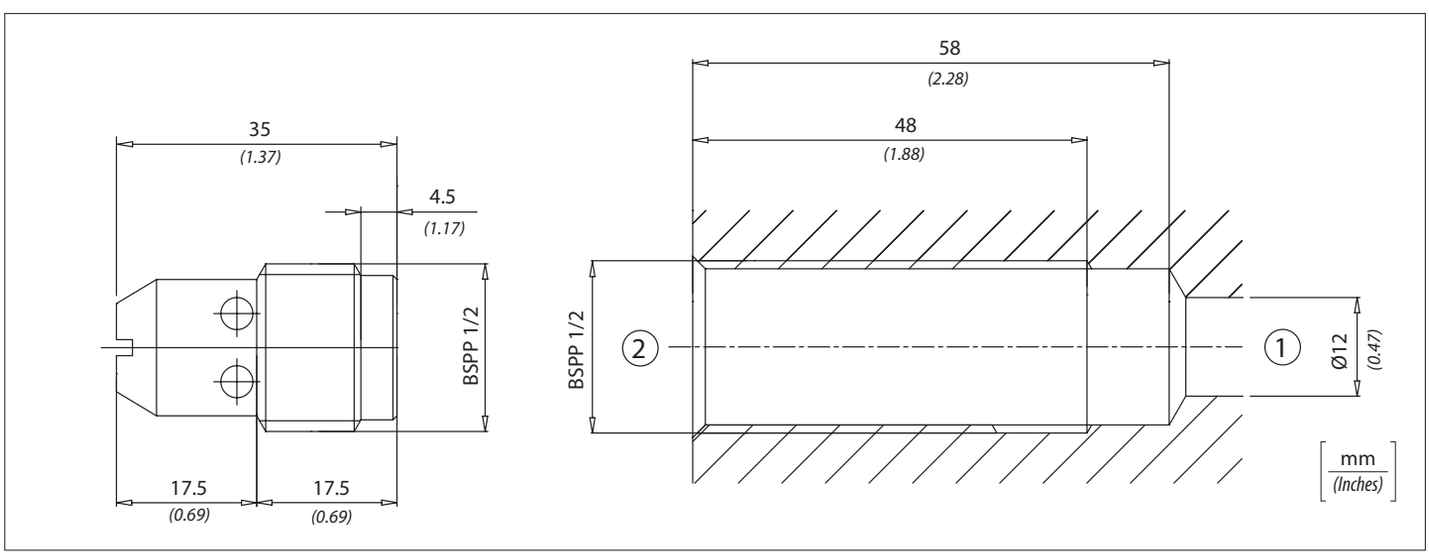
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14
Temperatura del fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F + 122°F*

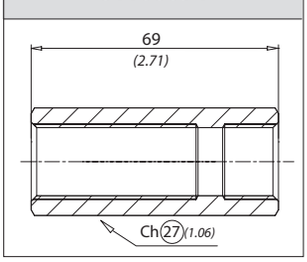
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

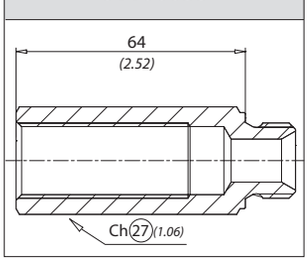




Codice / *Code*
61100094

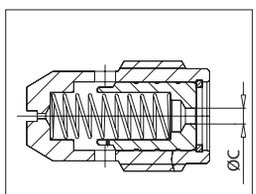


Codice / *Code*
61100033



Caratteristiche tecniche / ***Technical performances***

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Coppia di serraggio *Tightening torque* Nm / *lbt ft*	Peso approssimativo / Kg *Approx weight / lb*
VSC120	**47** *(12)*	**210** *(3000)*	**0,048** *(0.1)*	**0,050** *(0.11)*



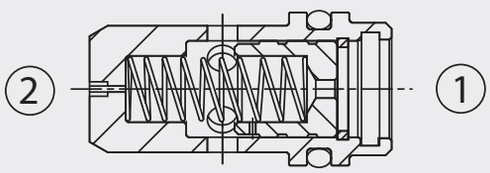
Codice *Code*	Ø C
VSC1209	**Ø 2,5** *(Ø 0.098)*
VSC12012	**Ø 3** *(Ø 0.118)*
VSC12017	**Ø 3,5** *(Ø 0.137)*
VSC12021	**Ø 4** *(Ø 0.157)*
VSC12027	**Ø 4,5** *(Ø 0.117)*
VSC12032	**Ø 5** *(Ø 0.196)*
VSC12040	**Ø 5,5** *(Ø 0.216)*
VSC12047	**Ø 6** *(Ø 0.236)*

Codice ordinazione / ***Ordering code***

VSC120 - Y

Y	Portata controllata a 100 bar ± 10% *Controlled flow at 100 bar ± 10%*	
9	**9 l/min**	*(2.25 USgpm)*
12	**12 l/min**	*(3 USgpm)*
17	**17 l/min**	*(4.5 USgpm)*
21	**21 l/min**	*(5.5 USgpm)*
27	**27 l/min**	*(7 USgpm)*
32	**32 l/min**	*(8.5 USgpm)*
40	**40 l/min**	*(10.5 USgpm)*
47	**47 l/min**	*(12.5 USgpm)*

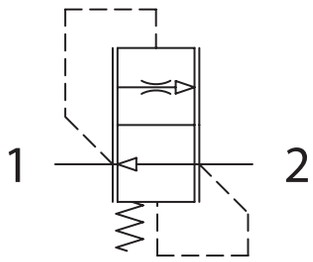
VSCR6 Valvole controllo discesa compensate fisse
Fixed compensated load control valves

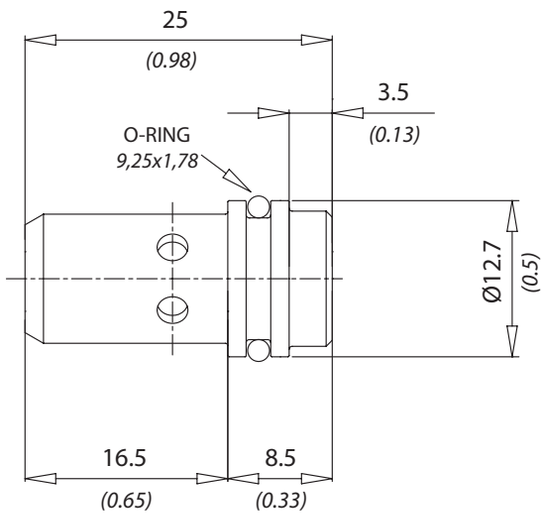


Dati tecnici *Technical data*		
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

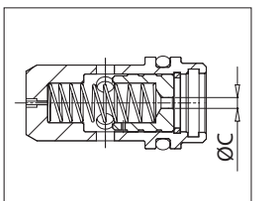
It is necessary a filter use to protect the valve (advised filtration 15 micron)





Caratteristiche tecniche / *Technical performances*

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo/ Kg *Approx weight / lb*
VSCR6	**12** *(3)*	**250** *(3600)*	**0,012** *(0.026)*



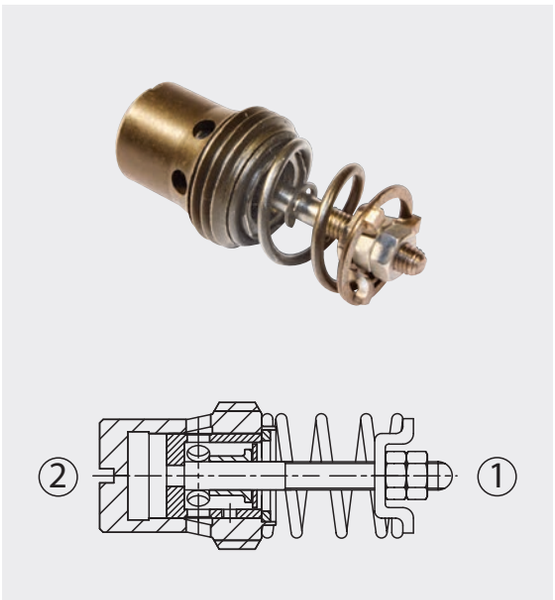
Codice *Code*	Ø C
VSCR61	**Ø 0,5** *(Ø 0.020)*
VSCR62	**Ø 1** *(Ø 0.039)*
VSCR63	**Ø 1,25** *(Ø 0.049)*
VSCR64	**Ø 1,4** *(Ø 0.055)*
VSCR65	**Ø 1,75** *(Ø 0.069)*
VSCR66	**Ø 1,8** *(Ø 0.070)*
VSCR67	**Ø 2** *(Ø 0.078)*
VSCR68	**Ø 2,1** *(Ø 0.082)*
VSCR69	**Ø 2,3** *(Ø 0.090)*
VSCR610	**Ø 2,4** *(Ø 0.094)*
VSCR611	**Ø 2,6** *(Ø 0.102)*
VSCR612	**Ø 2,75** *(Ø 0.108)*

Codice ordinazione / *Ordering code*

VSCR6 - Y

Y	Portata controllata a 100 bar ± 10% *Controlled flow at 100 bar ± 10 %*	
1	**1 l/min**	*(0.25 USgpm)*
2	**2 l/min**	*(0.5 USgpm)*
3	**3 l/min**	*(0.75 USgpm)*
4	**4 l/min**	*(1 USgpm)*
5	**5 l/min**	*(1.25 USgpm)*
6	**6 l/min**	*(1.5 USgpm)*
7	**7 l/min**	*(1.75 USgpm)*
8	**8 l/min**	*(2 USgpm)*
9	**9 l/min**	*(2.25 USgpm)*
10	**10 l/min**	*(2.5 USgpm)*
11	**11 l/min**	*2.75 USgpm)*
12	**12 l/min**	**(***3 USgpm)*

VRD Valvole controllo discesa compensate regolabili
Adjustable compensated flow control valves

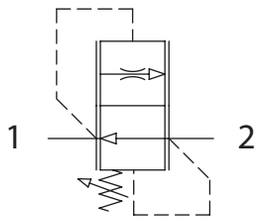


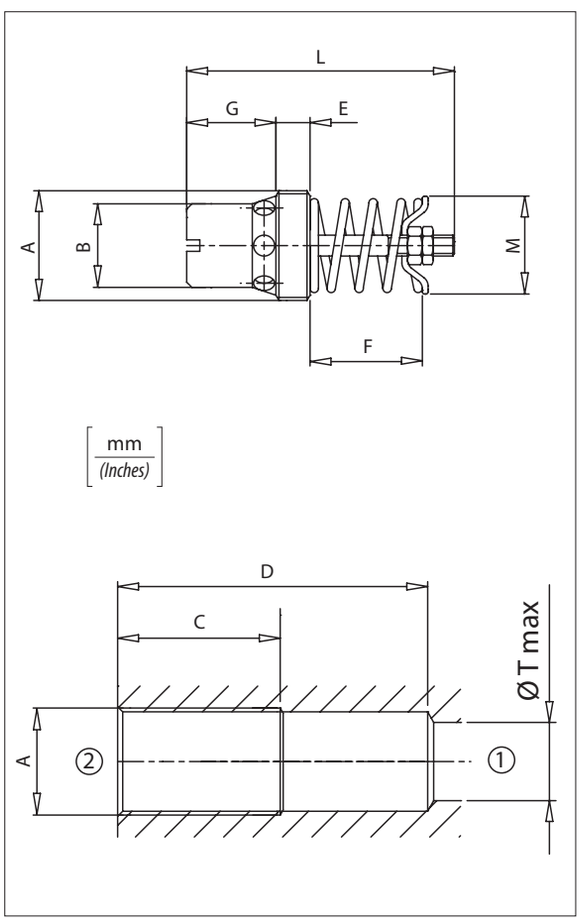
Dati tecnici
Technical data

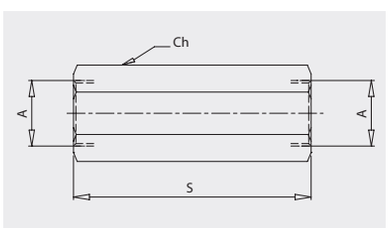
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



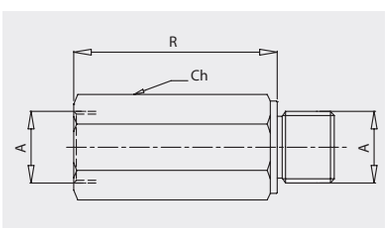




Colonnette ***Housings F/F***

Dimensioni / ***Dimensions***

Codice *Code*	A	Ch	Peso / Kg *Weight / lb*
61100051	**BSPP 1/4**	**19** *(0.75)*	**0,11** *(0.16)*
61100052	**BSPP 3/8**	**22** *(0.87)*	**0,12** *(0.20)*
61100053	**BSPP 1/2**	**27** *(1.06)*	**0,20** *(0.33)*
61100054	**BSPP 3/4**	**32** *(1.26)*	**0,29** *(0.50)*



Colonnette ***Housings M/F***

Dimensioni / ***Dimensions***

Codice *Code*	A	Ch	Peso / Kg *Weight / lb*
61100057	**BSPP 1/4**	**19** *(0.75)*	**0,11** *(0.16)*
61100058	**BSPP 3/8**	**22** *(0.87)*	**0,14** *(0.20)*
61100059	**BSPP 1/2**	**27** *(1.06)*	**0,24** *(0.30)*
61100060	**BSPP 3/4**	**32** *(1.26)*	**0,34** *(0.48)*

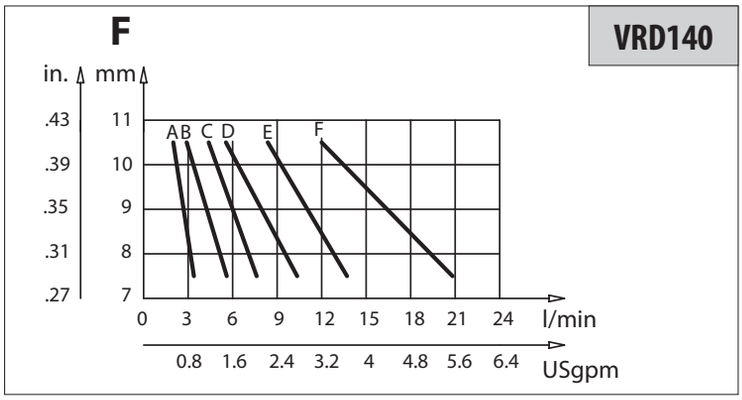
Caratteristiche tecniche / ***Technical performances***

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	T	G	L	M	R	S	Peso approssimativo *Approx weight* Kg / lb
VRD140	**BSPP 1/4**	**20** *(5.3)*	**300** *(4350)*	**10** *(0.39)*	**33** *(1.30)*	**53** *(2.09)*	**6** *(0.24)*	**7** *(0.28)*	**13,5** *(0.53)*	**39** *(1.54)*	**10** *(0.39)*	**57** *(2.24)*	**66** *(2.60)*	**0,013** *(0.029)*
VRD380	**BSPP 3/8**	**35** *(9.2)*		**12,5** *(0.49)*	**36** *(1.42)*	**60** *(2.63)*	**5** *(0.20)*	**9.5** *(0.37)*	**15,5** *(0.61)*	**45** *(1.77)*	**14** *(0.55)*	**64** *(2.52)*	**73** *(2.87)*	**0,024** *(0.053)*
VRD120	**BSPP 1/2**	**65** *(17.1)*		**16** *(0.63)*	**39** *(1.54)*	**63** *(2.48)*	**7** *(0.28)*	**12** *(0.47)*	**16** *(0.63)*	**51** *(2.01)*	**18** *(0.71)*	**69** *(2.72)*	**81** *(3.19)*	**0,037** *(0.082)*
VRD340	**BSPP 3/4**	**150** *(40)*		**20** *(0.79)*	**50** *(1.97)*	**81** *(3.19)*	**10** *(0.39)*	**16** *(0.63)*	**21** *(0.83)*	**62** *(2.44)*	**23** *(0.91)*	**87** *(3.43)*	**99** *(3.90)*	**0,077** *(0.17)*

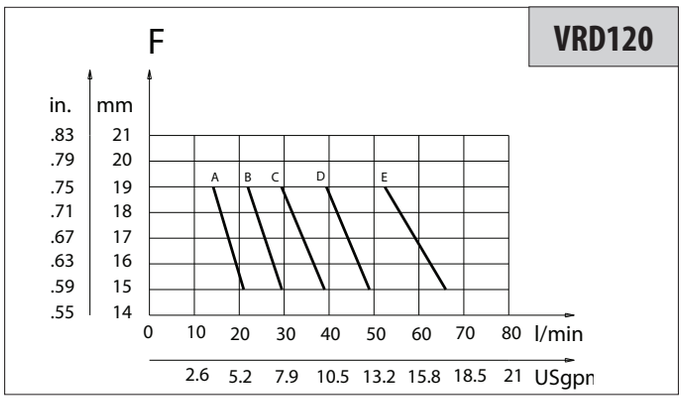
VRD Valvole controllo discesa compensate regolabili
Adjustable compensated flow control valves

Perdite di carico *Pressure drops*

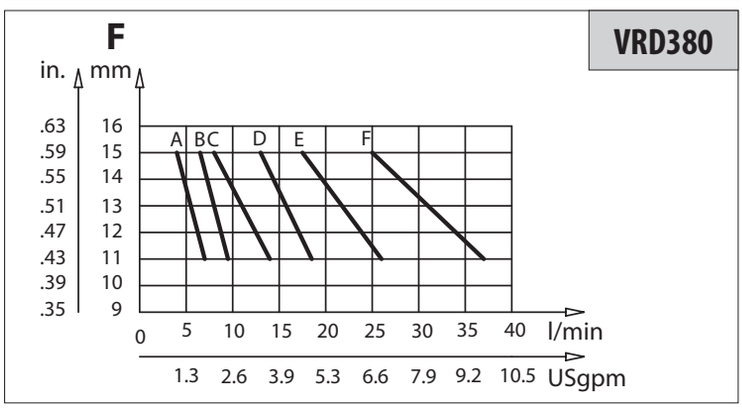
VRD140



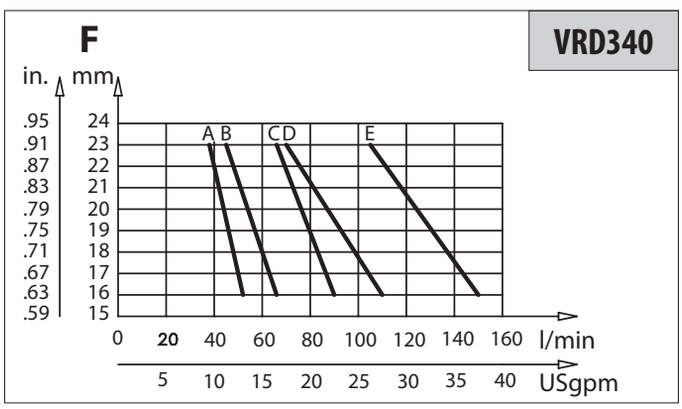
VRD120

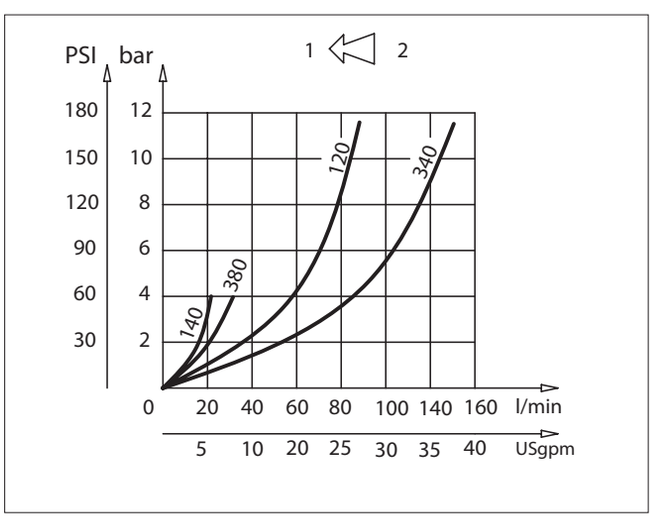


VRD380



VRD340





Codice ordinazione / *Ordering code*

VRD - X - Y - K

X	Dimensione *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4

Regolazione / *Setting*

Y Flusso controllato a 50 bar *Controlled flow at 50 bar*

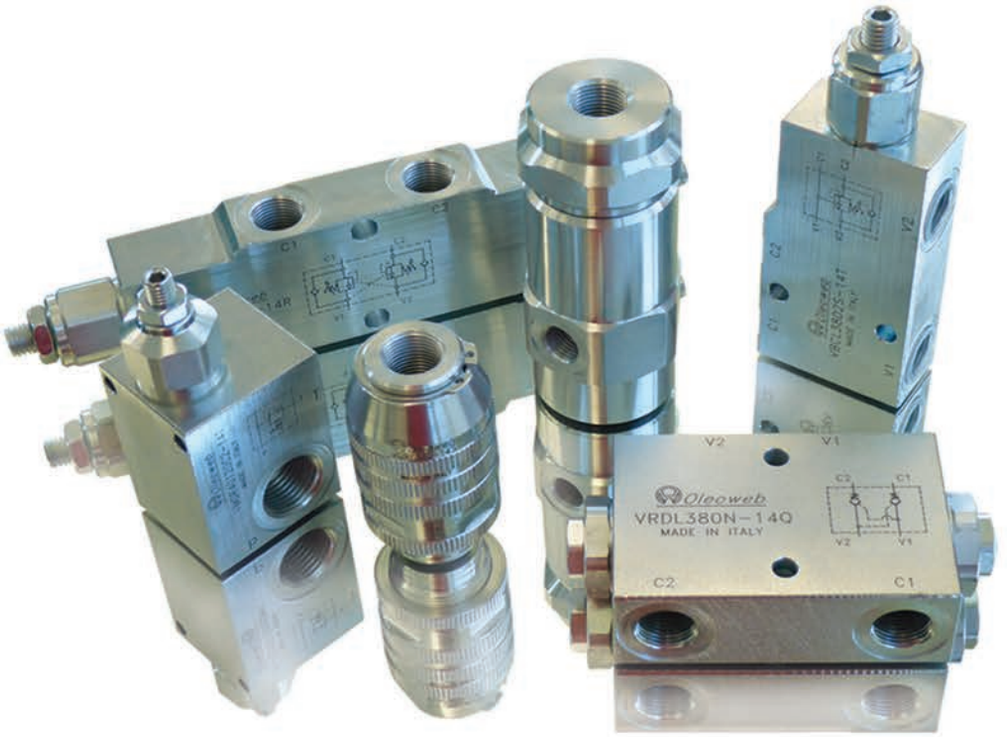
	A	B	C	D	E	F
VRD140	**0,8 / 7** *(0.2 / 1.9)*	**1,5 / 9,5** *(0.4 / 2.5)*	**2,3 / 14** *(0.6 / 3.7)*	**4 / 18,5** *(1 / 4.9)*	**6 / 26** *(1.6 / 6.8)*	**8 / 37** *(2.1 / 9.7)*
VRD380	**4 / 7** *(1 / 1.9)*	**6,5 / 9,5** *(1.7 / 2.5)*	**8 / 14** *(2.1 / 3.7)*	**13 / 18.5** *(3.4 / 4.9)*	**17,5 / 26** *(4.6 / 6.8)*	**25 / 37** *(6.6 / 9.7)*
VRD120	**12,5 / 21** *(3.3 / 5.5)*	**20 / 29,5** *(5.3 / 7.8)*	**27 / 39** *(7.1 / 10.3)*	**37 / 49** *(9.7 / 12.9)*	**49 / 66** *(12.9 / 17.4)*	-
VRD340	**38 / 52** *(10 / 13.7)*	**45 / 66** *(12 / 17.4)*	**66 / 90** *(17.4 / 23.8)*	**70 / 110** *(18.5 / 29)*	**115 / 150** *(30 / 40)*	-

K Regolazione *Setting*

F_,_

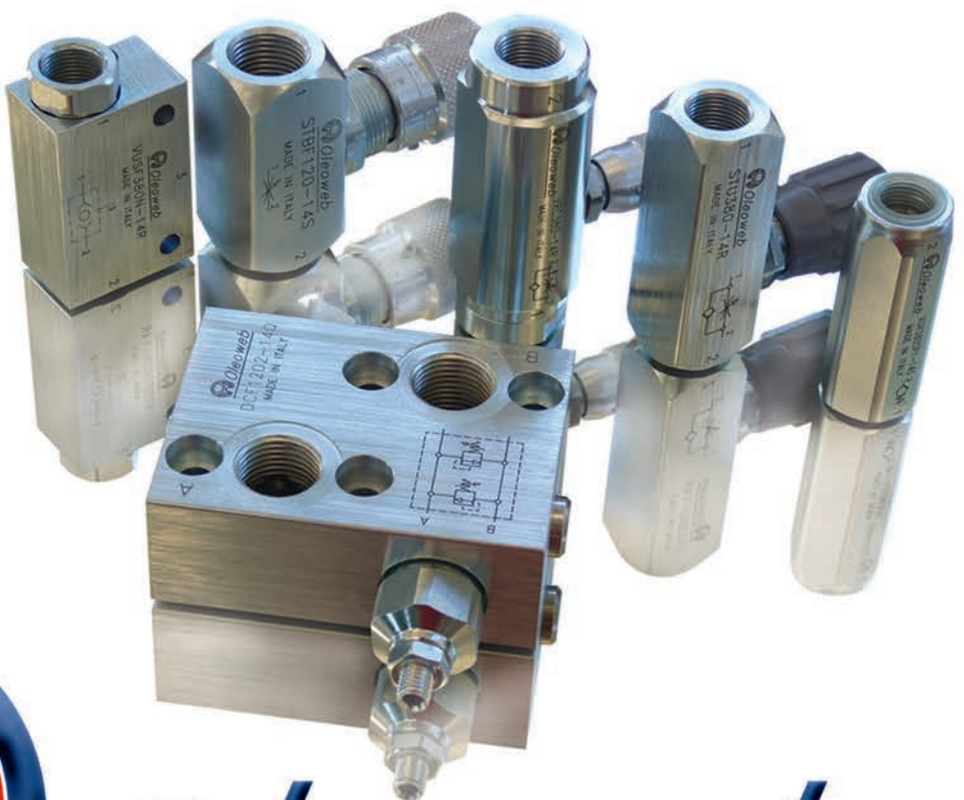
Esempio: impostazione15 mm
Example: Setting 15 mm
F 15

Omesso se non richiesto
Omitted if not required



Valvole in linea

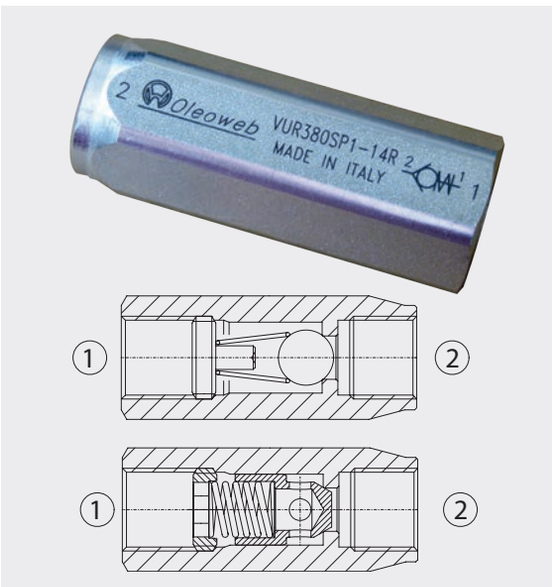
In-line valves



Oleoweb

HYDRAULIC VALVES AND COMPONENTS

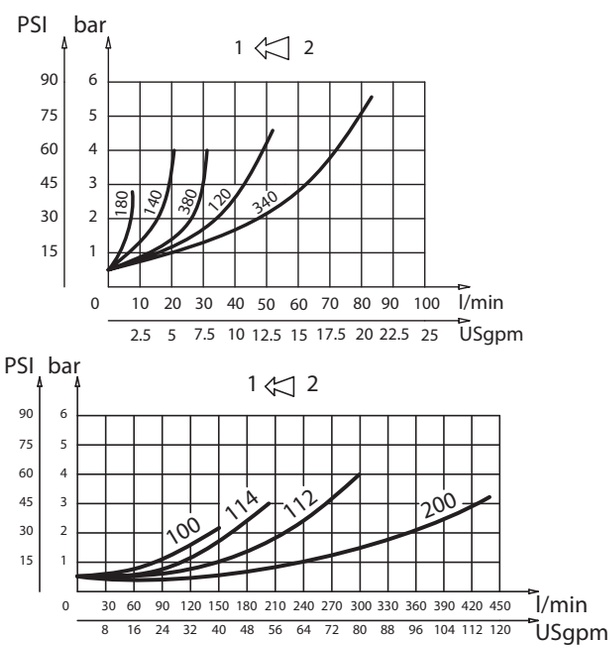
VUR-BSP Valvole unidirezionali *Check valves*

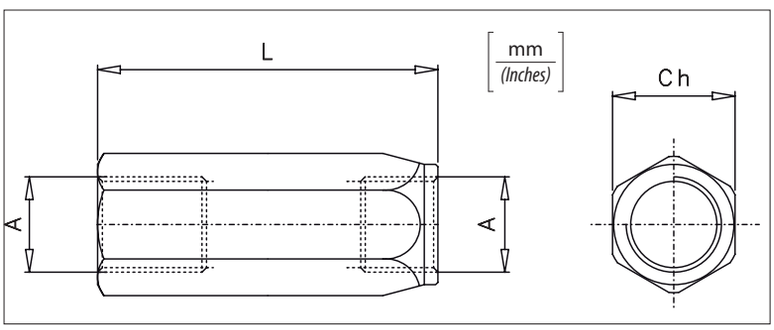


Dati tecnici *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola *It is necessary a filter use to protect the valve (advised filtration 15 micron)*		
Trafilamento *Leakage*	0 - 0,25 cm^3/min *(0-0,015 in^3)*	

Perdite di carico *Pressure drops*





Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	L	Ch	Peso approssimativo / Kg *Approx weight / lb*
VUR 180	**BSPP 1/8**	**5** *(1.3)*		**47** *(1.85)*	**14** *(0.55)*	**0,05** *(0.11)*
VUR 140	**BSPP 1/4**	**15** *(4)*		**55** *(2.16)*	**19** *(0.75)*	**0,10** *(0.22)*
VUR 380	**BSPP 3/8**	**30** *(8)*	**400** *(5800)*	**65** *(2.56)*	**24** *(0.94)*	**0,18** *(0.40)*
VUR 120	**BSPP 1/2**	**50** *(13)*		**75** *(2.95)*	**27** *(1.06)*	**0,23** *(0.50)*
VUR 340	**BSPP 3/4**	**90** *(23)*		**86,5** *(3.41)*	**35** *(1.38)*	**0,45** *(1)*
VUR 100	**BSPP 1**	**150** *(40)*		**110** *(4.33)*	**41** *(1.61)*	**0,73** *(1.6)*
VUR 114	**BSPP 1-1/4**	**200** *(50)*	**350** *(5000)*	**123** *(4.84)*	**55** *(2.16)*	**1,5** *(3.3)*
VUR 112	**BSPP 1-1/2**	**300** *(80)*		**138** *(5.43)*	**60** *(2.36)*	**2** *(4.4)*
VUR 200	**BSPP 2**	**430** *(110)*	**250** *(3600)*	**160** *(6.30)*	**70** *(2.76)*	**2,7** *(6)*

Codice ordinazione / *Ordering code*

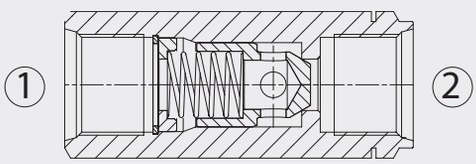
VUR - X - Y - K

X	Dimensione / *Size*
180	**BSPP 1/8**
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**
114	**BSPP 1-1/4**
112	**BSPP 1-1/2**
200	**BSPP 2**

Y	Tenuta / *Sealing*
SF	**Tenuta a sfera solo per VUR 180/140/380/120** *Ball sealing only for VUR 180/140/380/120*
SP	**Tenuta a cono** *Poppet sealing*

K	Molla / *Spring*
1	**1 bar Standard** *(14,5 PSI)*
3	**3 bar** *(43,5 PSI)*
4,5	**4,5 bar** *(65 PSI)*
6	**6 bar** *(87 PSI)*

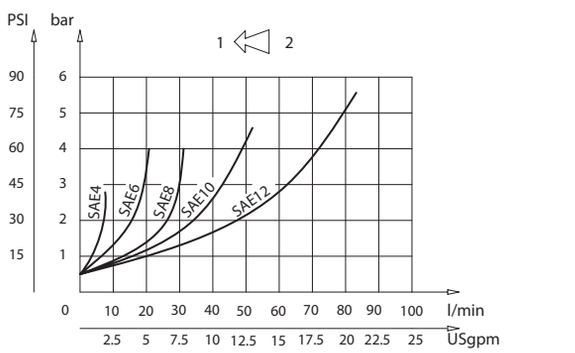
VUR-SAE Valvole unidirezionali *Check valves*

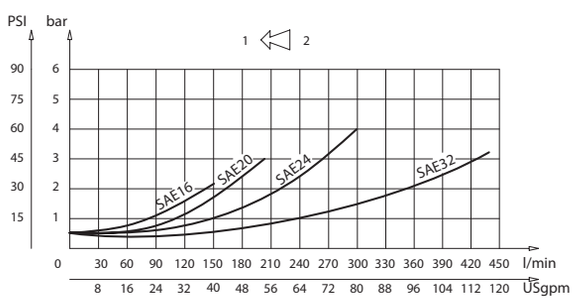


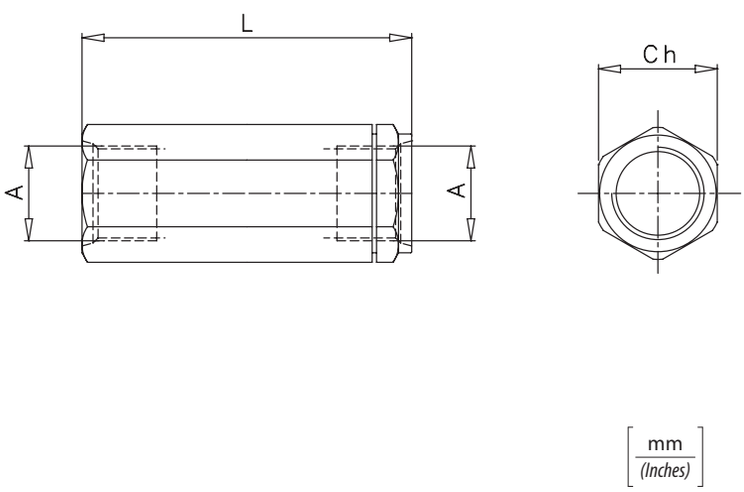
Dati tecnici *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola *It is necessary a filter use to protect the valve (advised filtration 15 micron)*		
Trafilamento *Leakage*	0 - 0,25 cm^3/min *(0-0,015 in^3)*	

Perdite di carico *Pressure drops*







Codice ordinazione / *Ordering code*

VUR - X - SAE - Y - K

X	Dimensione / *Size*
4	**7/16 - 20 UNF**
6	**9/16 - 18 UNF**
8	**3/4 - 16 UNF**
12	**1-1 / 16-12 UN**
16	**1-5 / 16-12 UN**
20	**1-5 / 8-12 UN**
24	**1-7 / 8-12 UN**
32	**2-1 / 2-12 UN**

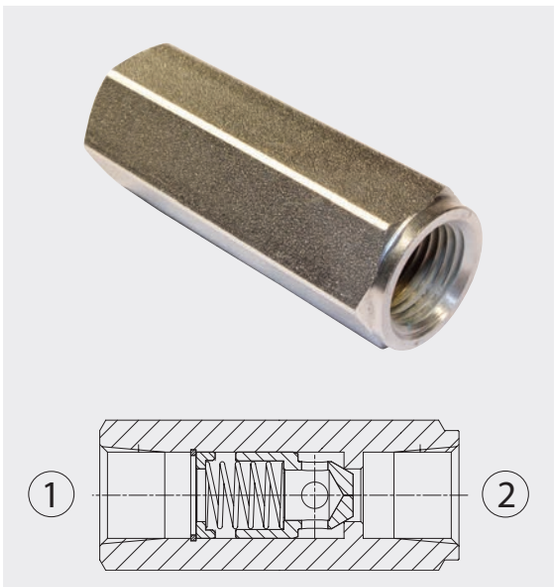
Y	Tenuta / *Sealing*
SP	**Tenuta a cono** *Poppet sealing*

K	Molla / *Spring*
1	**1 bar Standard** *(14,5 PSI)*
3	**3 bar** *(43,5 PSI)*
4,5	**4,5 bar** *(65 PSI)*
6	**6 bar** *(87 PSI)*

Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	L	Ch	Peso approssimativo / Kg *Approx weight / lb*
VUR 4 SAE	**7/16-20 UNF**	**5** *(1.3)*	**400** *(5800)*	**55** *(2.16)*	**19** *(0.75)*	**0,11** *(0.24)*
VUR 6 SAE	**9/16-18 UNF**	**15** *(4)*		**58** *(2.28)*	**19** *(0.75)*	**0,09** *(0.20)*
VUR 8 SAE	**3/4-16 UNF**	**30** *(8)*		**69** *(2.71)*	**24** *(0.94)*	**0,18** *(0.40)*
VUR 12 SAE	**1-1/16-12 UN**	**90** *(23)*	**350** *(5000)*	**88,5** *(3.48)*	**35** *(1.38)*	**0,45** *(1)*
VUR 16 SAE	**1-5/16-12 UN**	**150** *(40)*		**110** *(4.33)*	**41** *(1.61)*	**0,73** *(1.6)*
VUR 20 SAE	**1-5/8-12 UN**	**200** *(50)*		**120** *(4.72)*	**55** *(2.16)*	**1,5** *(3.43)*
VUR 24 SAE	**1-7/8-12 UN**	**300** *(80)*		**138** *(5.43)*	**60** *(2.36)*	**2,5** *(5.5)*
VUR 32 SAE	**2-1/2-12 UN**	**430** *(110)*			**75** *(2.97)*	**2,9** *(6.4)*

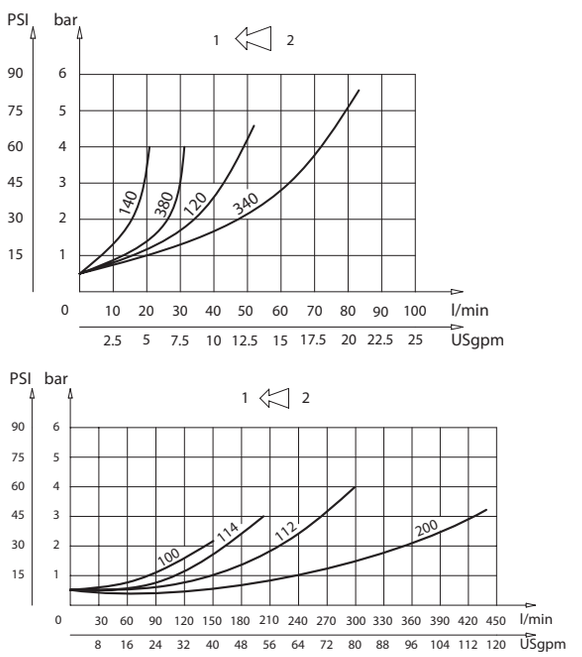
VUR-NPTF Valvole unidirezionali *Check valves*

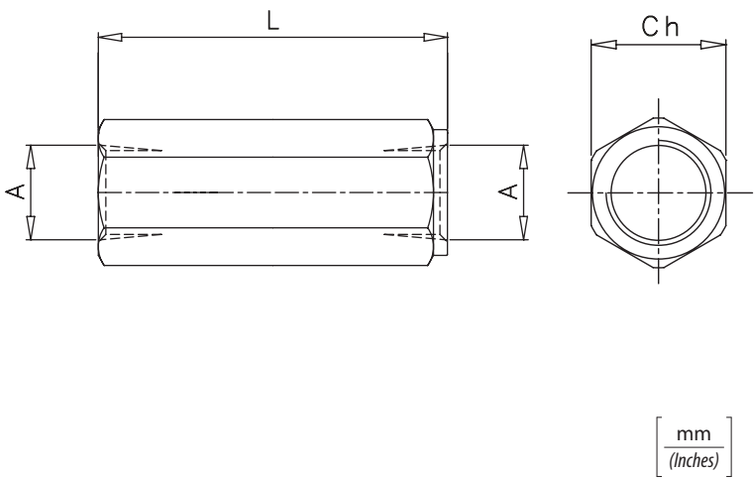


Dati tecnici *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola *It is necessary a filter use to protect the valve (advised filtration 15 micron)*		
Trafilamento *Leakage*	0 - 0,25 cm^3/min *(0-0,015 in^3)*	

Perdite di carico *Pressure drops*





Codice ordinazione / *Ordering code*

VUR - X - NPT - Y - K

X	Dimensione / *Size*
140	1/4 NPTF
380	3/8 NPTF
120	1/2 NPTF
340	3/4 NPTF
100	1 NPTF
114	1 - 1/4 NPTF
112	1 - 1/2 NPTF
200	2 NPTF

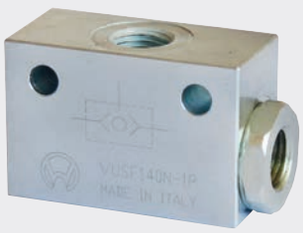
Y	Tenuta / *Sealing*
SP	**Tenuta a cono** *Poppet sealing*

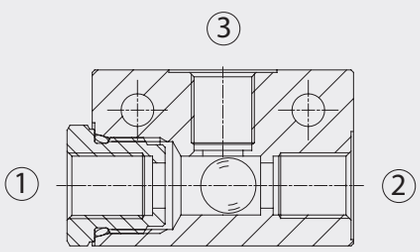
K	Molla / *Spring*
0,5	**0,5 bar Standard** *(7 PSI)*
1	**1 bar Standard** *(14,5 PSI)*
3	**3 bar** *(43,5 PSI)*
4,5	**4,5 bar** *(65 PSI)*
6	**6 bar** *(87 PSI)*

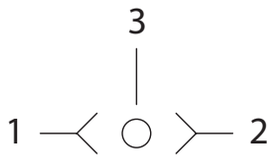
Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	L	Ch	Peso approssimativo / Kg *Approx weight / lb*
VUR 140 NPT	**1/4 NPTF**	**15** *(4)*	**400** *(5800)*	**58** *(2.28)*	**19** *(0.75)*	**0,10** *(0.22)*
VUR 380 NPT	**3/8 NPTF**	**30** *(8)*		**69** *(2.72)*	**24** *(0.94)*	**0,18** *(0.40)*
VUR 120 NPT	**1/2 NPTF**	**50** *(13)*		**75** *(2.95)*	**27** *(1.06)*	**0,23** *(0.50)*
VUR 340 NPT	**3/4 NPTF**	**90** *(23)*		**88,5** *(3.48)*	**35** *(1.38)*	**0,45** *(1)*
VUR 100 NPT	**1 NPTF**	**150** *(40)*	**350** *(5000)*	**110** *(4.33)*	**41** *(1.61)*	**0,75** *(1.7)*
VUR 114 NPT	**1-1/4 NPTF**	**200** *(50)*		**120** *(4.72)*	**55** *(2.16)*	**1,5** *(3.3)*
VUR 112 NPT	**1-1/2 NPTF**	**300** *(80)*		**138** *(5.43)*	**60** *(2.36)*	**2,6** *(5,7)*
VUR 200 NPT	**2 NPTF**	**430** *(110)*			**75** *(2.97)*	**3** *(6.60)*

VUSF Valvole selettrici
Load shuttle-ball valves





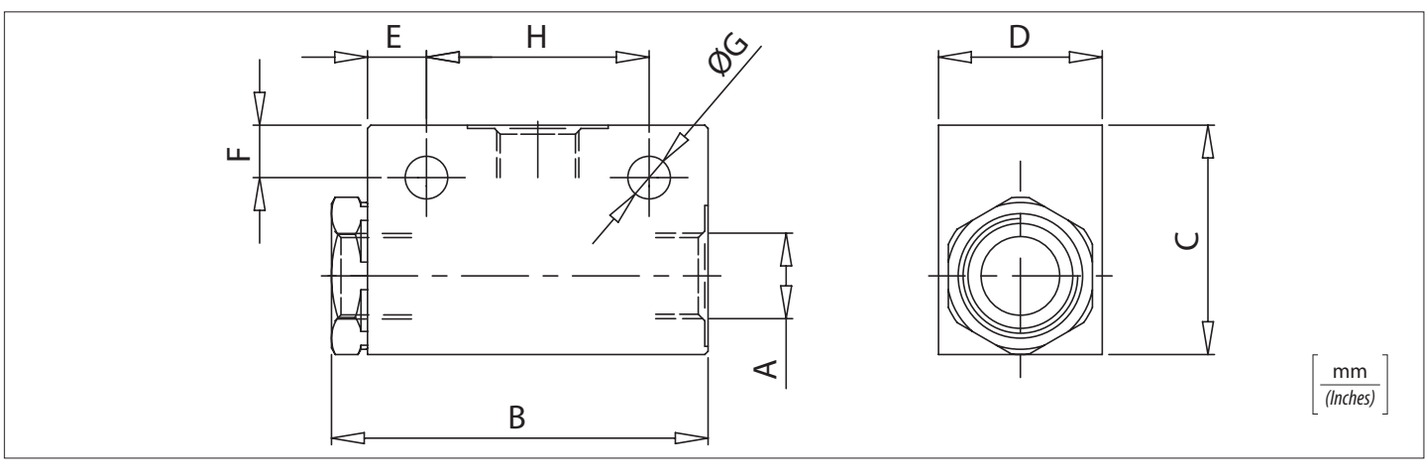


Dati tecnici *Technical data*

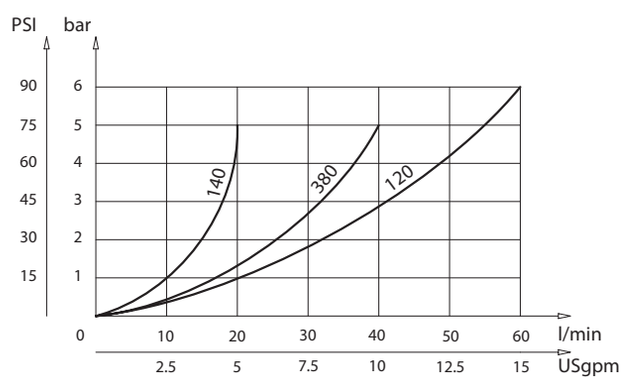
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



Perdite di carico *Pressure drops*



Codice ordinazione / *Ordering code*

VUSF - X

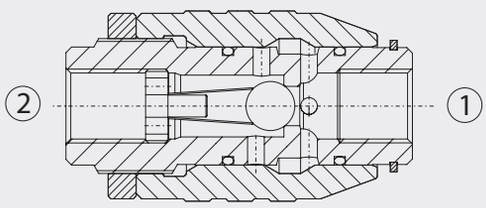
X	Dimensione / *Size*
140N	BSPP 1/4
380N	BSPP 3/8
120N	BSPP 1/2

Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure bar/PSI*	B	C	D	E	F	G	H	Peso approssimativo *Approx weight* Kg / lb
VUSF140N	**BSPP 1/4**	**20** *(5)*	**350** *(5000)*	**57** *(2.24)*	**35** *(1.38)*	**25** *(0.98)*	**9** *(0.35)*	**8** *(0.31)*	**6,5** *(0.26)*	**34** *(1.34)*	**0,29** *(0.65)*
VUSF380N	**BSPP 3/8**	**40** *(10)*		**69** *(2.71)*	**40** *(1.57)*		**8** *(0.31)*			**44** *(1.73)*	**0,35** *(0.80)*
VUSF120N	**BSPP 1/2**	**60** *(15)*		**73,5** *(2.89)*	**50** *(1.97)*	**30** *(1.18)*	**10** *(0.39)*	**10** *(1.38)*	**8,5** *(0.33)*	**50** *(1.97)*	**0,65** *(0.15)*

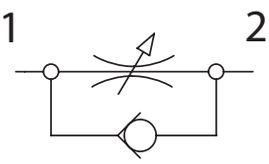
VURF Valvole di controllo flusso unidirezionale
Unidirectional flow control valves

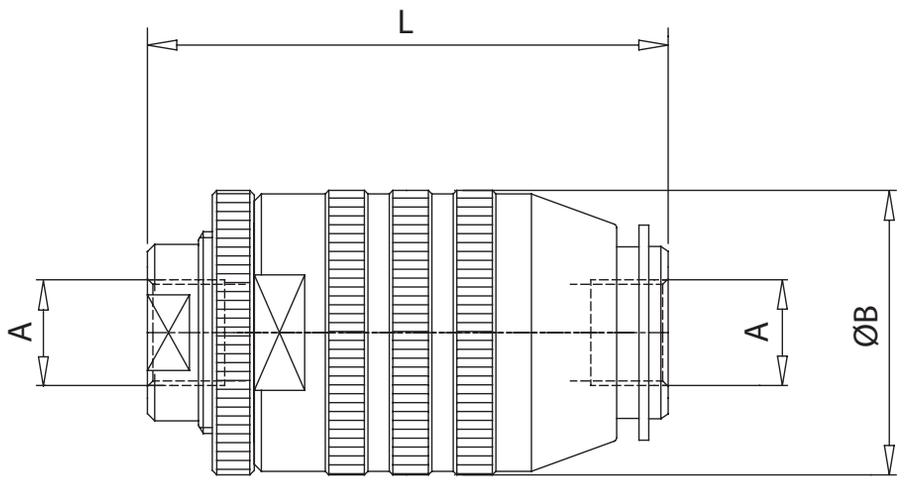
Tenuta a sfera solo per VURF 140/380/120
Ball sealing only for VURF 140/380/120



Dati tecnici *Technical data*		
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

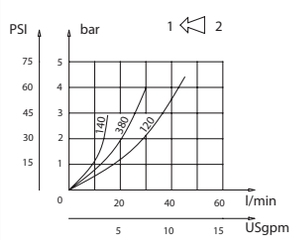
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola
It is necessary a filter use to protect the valve (advised filtration 15 micron)

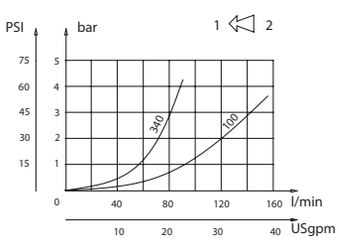


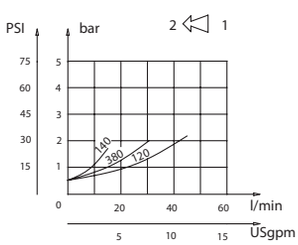


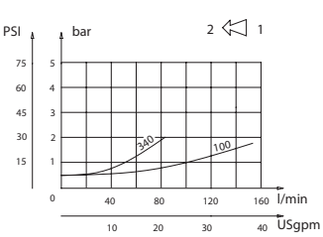
mm
(Inches)

Perdite di carico *Pressure drops*









Caratteristiche tecniche / *Technical performances*

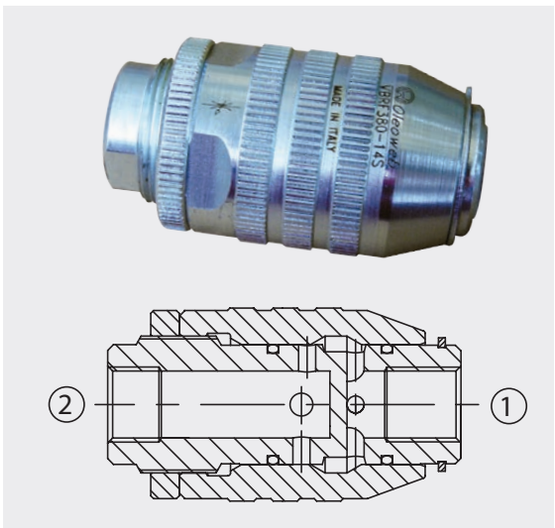
Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	B	L	Peso approssimativo / Kg *Approx weight / lb*
VURF 140	**BSPP 1/4**	**15** *(4)*	**350** *(5000)*	**34** *(1.34)*	**62** *(2.44)*	**0,28** *(0.6)*
VURF 380	**BSPP 3/8**	**30** *(8)*		**39** *(1.54)*	**73** *(2.87)*	**0,42** *(0.93)*
VURF 120	**BSPP 1/2**	**45** *(12)*		**44** *(1.73)*	**83** *(3.27)*	**0,66** *(1.45)*
VURF 340	**BSPP 3/4**	**85** *(22)*	**300** *(4350)*	**54** *(2.13)*	**102** *(4.02)*	**1,12** *(2.5)*
VURF 100	**BSPP 1**	**150** *(40)*	**250** *(3600)*	**65** *(2.56)*	**124,5** *(4.90)*	**1,9** *(4.20)*

Codice ordinazione / *Ordering code*

VURF - X

X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**

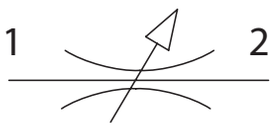
VBRF Valvole di controllo flusso bidirezionali
Bidirectional flow control valves



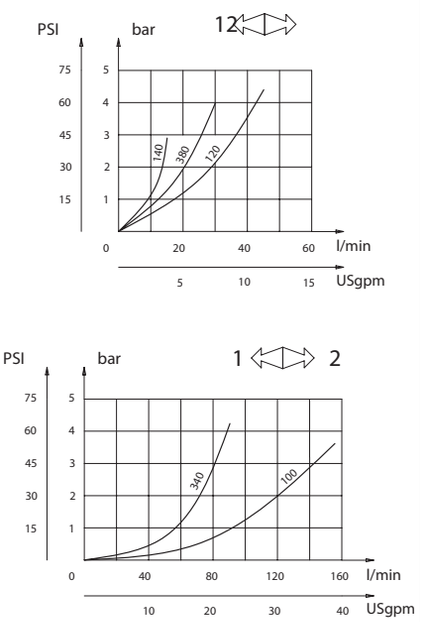
Dati tecnici *Technical data*		
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

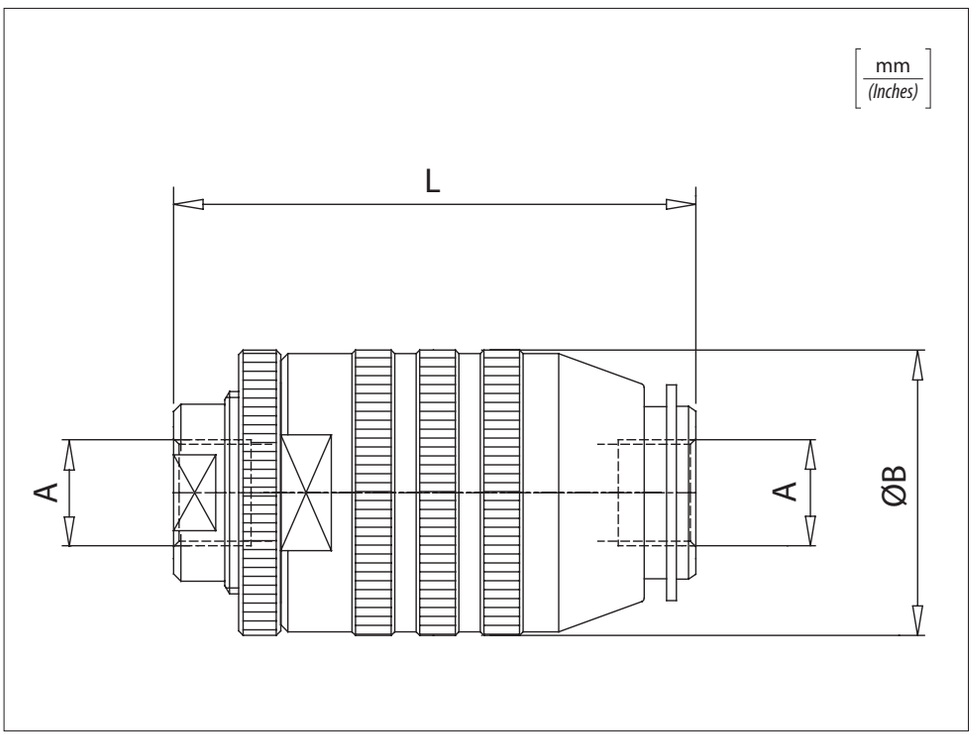
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



Perdite di carico *Pressure drops*





Caratteristiche tecniche / *Technical performances*

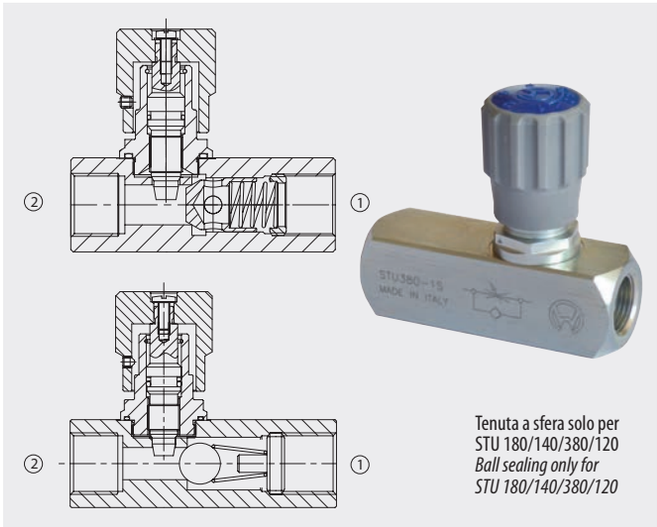
Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	B	L	Peso approssimativo / Kg *Approx weight / lb*
VBRF 140	**BSPP 1/4**	**15** *(4)*	**350** *(5000)*	**34** *(1.34)*	**62** *(2.44)*	**0,28** *(0.6)*
VBRF 380	**BSPP 3/8**	**30** *(8)*		**39** *(1.54)*	**73** *(2.87)*	**0,45** *(1)*
VBRF 120	**BSPP 1/2**	**45** *(12)*		**44** *(1.73)*	**83** *(3.27)*	**0,63** *(1.4)*
VBRF 340	**BSPP 3/4**	**85** *(22)*	**300** *(4350)*	**54** *(2.13)*	**102** *(4.02)*	**1,1** *(2.5)*
VBRF 100	**BSPP 1**	**150** *(40)*	**250** *(3600)*	**65** *(2.56)*	**124,5** *(4.90)*	**1,8** *(4)*

Codice ordinazione / *Ordering code*

VBRF - X

X	Dimensione / *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4
100	BSPP 1

STU-BSP Valvole di controllo flusso unidirezionali
Unidirectional flow control valves



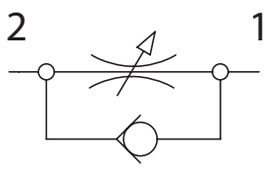
Tenuta a sfera solo per STU 180/140/380/120
Ball sealing only for STU 180/140/380/120

Dati tecnici *Technical data*

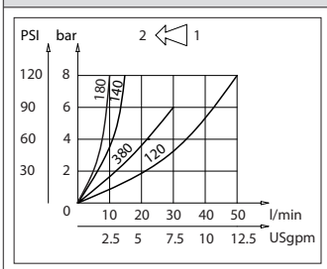
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

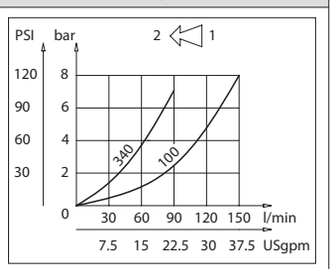
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

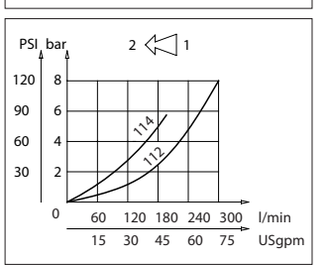
It is necessary a filter use to protect the valve (advised filtration 15 micron)

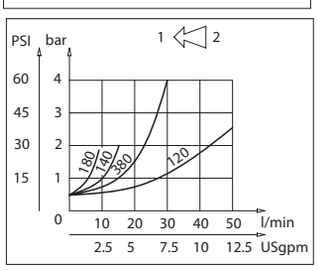


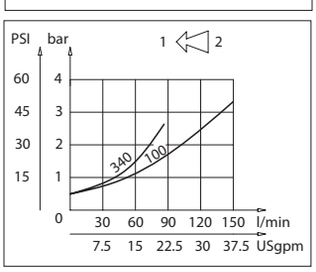
Perdite di carico *Pressure drops*

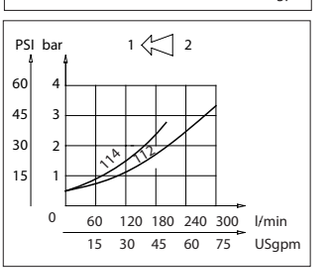


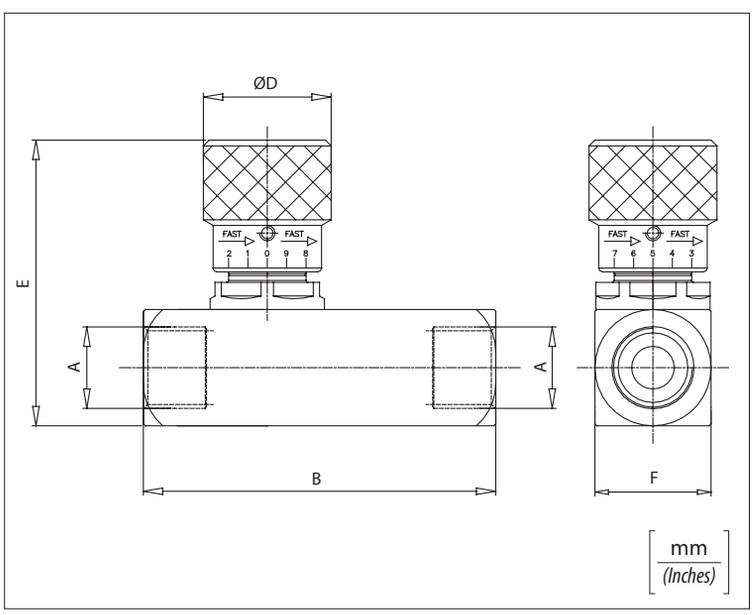












Caratteristiche tecniche / *Technical performances*

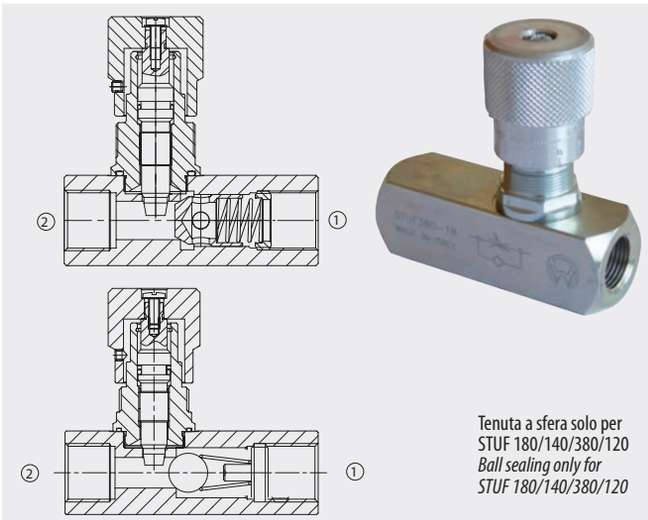
Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	B	D	E	F	Peso approssimativo / Kg *Approx weight / lb*
STU 180	**BSPP 1/8**	**10** *(2.5)*	**400** *(5800)*	**58** *(2.28)*	**20** *(0.79)*	**53** *(2.08)*	**20** *(0.79)*	**0,3** *(0.7)*
STU 140	**BSPP 1/4**	**15** *(4)*		**66** *(2.60)*	**30** *(1.18)*	**71,5** *(2.81)*	**25** *(0.98)*	**0,34** *(0.75)*
STU 380	**BSPP 3/8**	**30** *(8)*		**77** *(3.03)*				**0,36** *(0.80)*
STU 120	**BSPP 1/2**	**50** *(13)*		**91** *(3.58)*	**33** *(1.30)*	**72** *(2.83)*	**30** *(1.18)*	**0,60** *(1.3)*
STU 340	**BSPP 3/4**	**80** *(20)*		**112,5** *(4.43)*	**42** *(1.65)*	**94** *(3.70)*	**40** *(1.57)*	**1,33** *(3)*
STU 100	**BSPP 1**	**150** *(40)*		**141** *(5.55)*		**99** *(3.90)*	**45** *(1.77)*	**1,9** *(4.2)*
STU 114	**BSPP 1-1/4**	**200** *(50)*	**350** *(5000)*	**155** *(6.10)*	**53** *(2.08)*	**121,5** *(4.78)*	**55** *(2.16)*	**3,1** *(6.8)*
STU 112	**BSPP 1-1/2**	**300** *(80)*		**168** *(6.61)*		**131,5** *(5.17)*	**65** *(2.55)*	**4,5** *(10)*

Codice ordinazione / *Ordering code*

STU - X

X	Dimensione / *Size*
180	**BSPP 1/8**
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**
114	**BSPP 1-1/4**
112	**BSPP 1-1/2**

STUF-BSP Valvole di controllo flusso unidirezionali
Unidirectional flow control valves



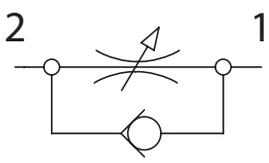
Tenuta a sfera solo per STUF 180/140/380/120
Ball sealing only for STUF 180/140/380/120

Dati tecnici *Technical data*

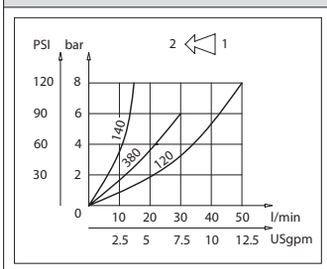
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

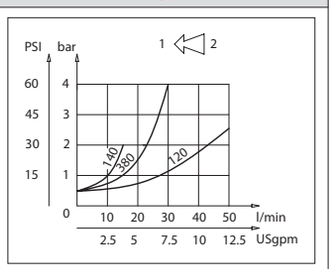
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

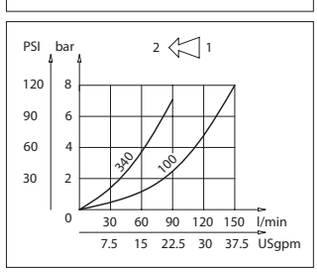
It is necessary a filter use to protect the valve (advised filtration 15 micron)

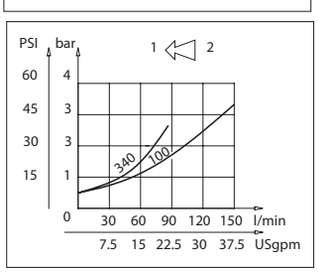


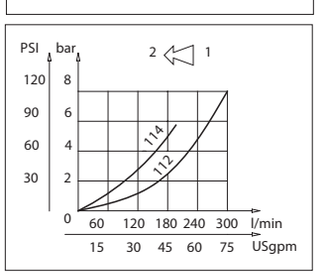
Perdite di carico *Pressure drops*

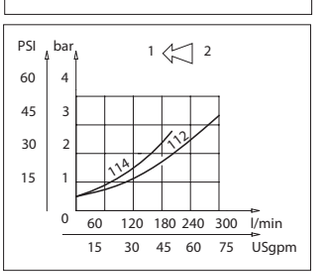


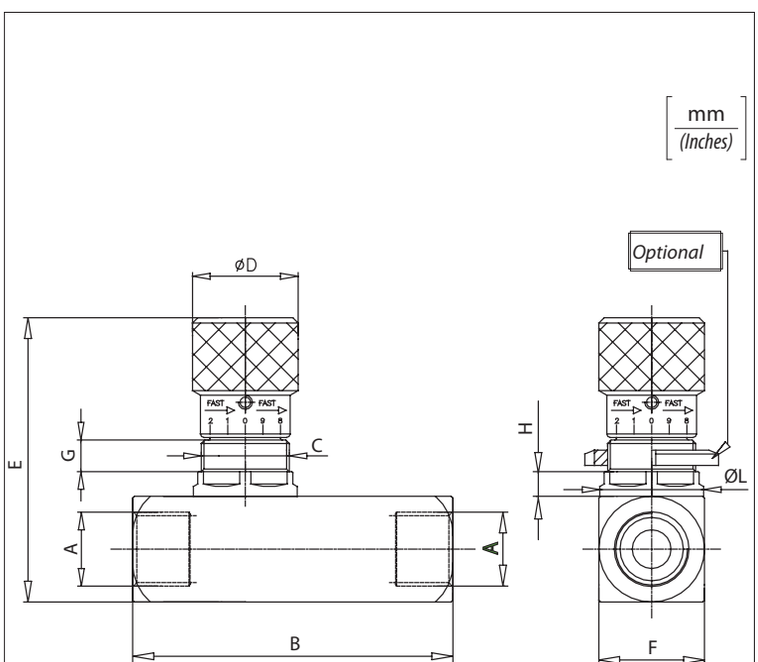












Caratteristiche tecniche / *Technical performances*

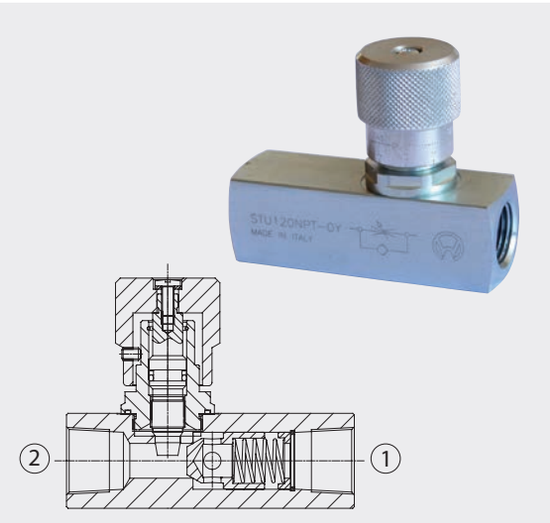
Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	H	L	Optional *Code*	Peso approssimativo *Approx weight* Kg / lb
STUF180	**BSPP** 1/8	**10** *(2.5)*	**400** *(5800)*	**58** *(2.28)*	**M15x1**	**20** *(0.79)*	**60,5** *(2.38)*	**20** *(0.79)*	**8** *(0.31)*	**5,5** *(0.21)*	**19,5** *(0.76)*	**84100031**	**0,31** *(0.7)*
STUF140	**BSPP** 1/4	**15** *(4)*		**66** *(2.60)*	**M20x1**	**30** *(1.18)*	**75** *(2.95)*	**25** *(0.98)*	**7,5** *(0.29)*	**6** *(0.23)*	**24,5** *(0.96)*	**84100022**	**0,38** *(0.84)*
STUF380	**BSPP** 3/8	**30** *(8)*		**77** *(3.03)*									**0,40** *(0.88)*
STUF120	**BSPP** 1/2	**50** *(13)*		**91** *(3.58)*	**M25x1,5**	**33** *(1.30)*	**81** *(3.19)*	**30** *(1.18)*	**9** *(0.35)*	**7** *(0.27)*	**29,5** *(1.16)*	**84100023**	**0,63** *(1.40)*
STUF340	**BSPP** 3/4	**80** *(21)*		**112,5** *(4.43)*	**M35x1,5**	**42** *(1.65)*	**110** *(4.33)*	**40** *(1.57)*	**15,5** *(0.61)*	**8** *(0.31)*	**39,5** *(1.55)*	**84100024**	**1,45** *(3.2)*
STUF100	**BSPP 1**	**150** *(40)*		**141** *(5.55)*			**115** *(4.53)*	**45** *(1.77)*					**2** *(4.4)*
STUF114	**BSPP 1-1/4**	**200** *(50)*	**350** *(5000)*	**155** *(6.10)*	**M45x1,5**	**53** *(2.08)*	**137** *(5.39)*	**55** *(2.16)*	**13,5** *(0.53)*	**10** *(0.39)*	**50** *(1.96)*	**84100030**	**3,3** *(7.25)*
STUF112	**BSPP 1-1/2**	**300** *(80)*		**168** *(6.61)*			**147** *(5.78)*	**65** *(2.55)*					**4,7** *(10.3)*

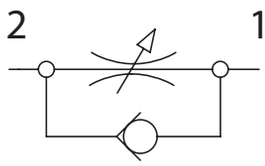
Codice ordinazione *Ordering code*

STUF - X

X	Dimensione *Size*
180	BSPP 1/8
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4
100	BSPP 1
114	BSPP 1-1/4
112	BSPP 1-1/2

STU-NPTF Valvole di controllo flusso unidirezionali
Unidirectional flow control valves





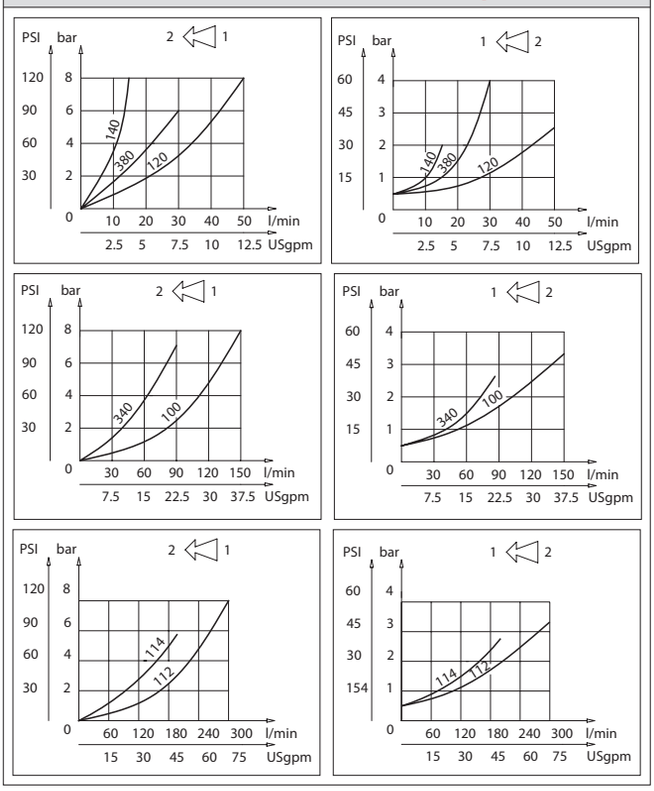
Dati tecnici *Technical data*

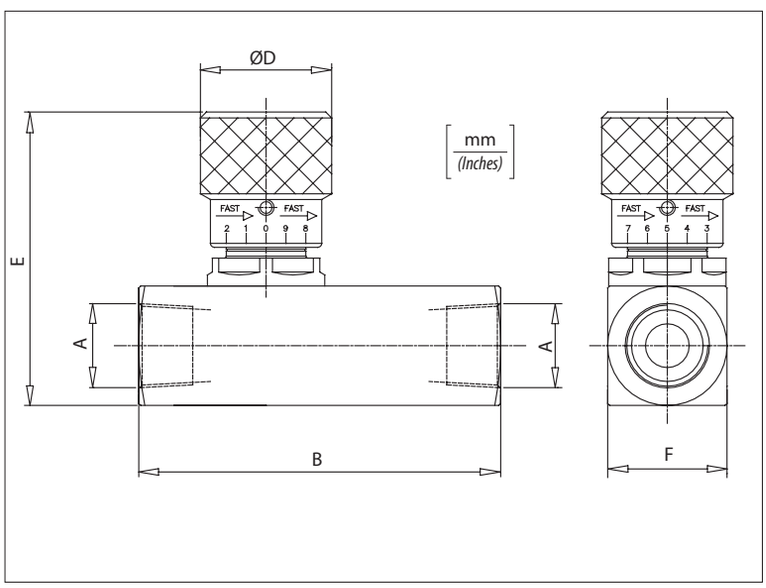
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

Perdite di carico *Pressure drops*





Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	B	D	E	F	Peso approssimativo / Kg *Approx weight / lb*
STU180NPT	**NPTF 1/8**	**10** *(2.5)*	**400** *(5800)*	**58** *(2.28)*	**20** *(0.79)*	**53** *(2.08)*	**20** *(0.79)*	**0,3** *(0.7)*
STU140NPT	**NPTF 1/4**	**15** *(4)*		**66** *(2.60)*	**30** *(1.18)*	**68** *(2.68)*	**25** *(0.98)*	**0,37** *(0.75)*
STU380NPT	**NPTF 3/8**	**30** *(8)*		**77** *(3.03)*				**0,40** *(0.9)*
STU120NPT	**NPTF 1/2**	**50** *(13)*		**91** *(3.58)*	**33** *(1.30)*	**72** *(2.83)*	**30** *(1.18)*	**0,60** *(1.32)*
STU340NPT	**NPTF 3/4**	**80** *(21)*		**112,5** *(4.43)*	**42** *(1.65)*	**94** *(3.70)*	**40** *(1.57)*	**1,40** *(3.09)*
STU100NPT	**NPTF 1**	**150** *(40)*		**141** *(5.55)*		**99** *(3.90)*	**45** *(1.77)*	**1,9** *(4.2)*
STU114NPT	**NPTF 1-1/4**	**200** *(50)*	**350** *(5000)*	**155** *(6.10)*	**53** *(2.08)*	**121,5** *(4.78)*	**55** *(2.16)*	**3,06** *(6.73)*
STU112NPT	**NPTF 1-1/2**	**300** *(80)*		**168** *(6.61)*		**131,5** *(5.17)*	**65** *(2.55)*	**4,5** *(10)*

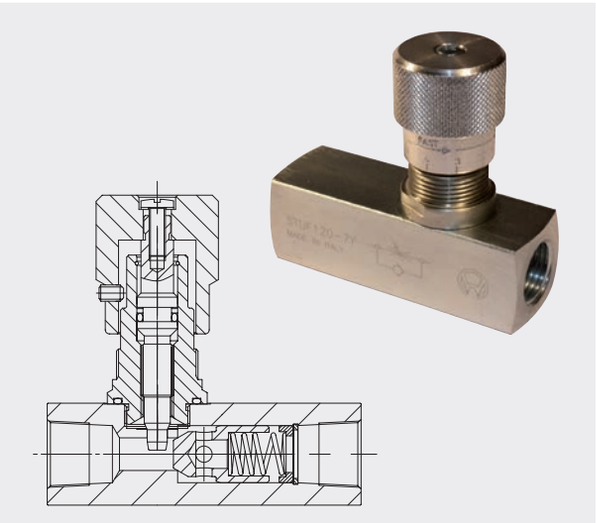
Codice ordinazione / *Ordering code*

STU - X - NPT

X	Dimensione / *Size*
180	NPTF 1/8
140	NPTF 1/4
380	NPTF 3/8
120	NPTF 1/2
340	NPTF 3/4
100	NPTF 1
114	NPTF 1-1/4
112	NPTF 1-1/2

STUF-NPTF

Valvole di controllo flusso unidirezionali
Unidirectional flow control valves

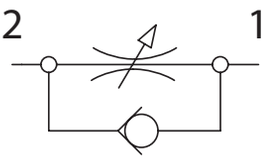


Dati tecnici
Technical data

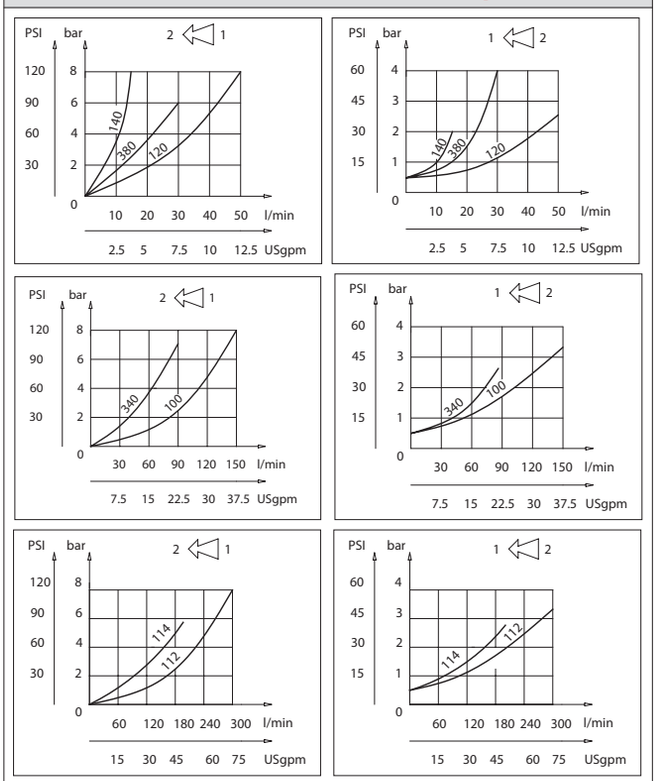
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

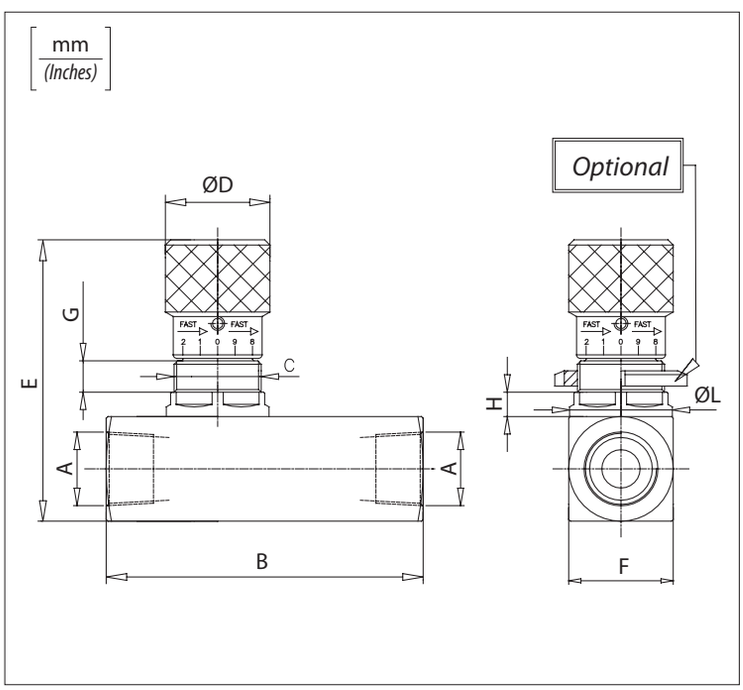
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



Perdite di carico *Pressure drops*





Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	H	L	Optional *Code*	Peso approssimativo *Approx weight* Kg / lb
STUF180NPT	**NPTF** 1/8	**10** *(2.5)*	**400** *(5800)*	**58** *(2.28)*	**M15x1**	**20** *(0.79)*	**60,5** *(2.38)*	**20** *(0.79)*	**8** *(0.31)*	**5,5** *(0.21)*	**19,5** *(0.76)*	**84100031**	**0,31** *(0.7)*
STUF140NPT	**NPTF** 1/4	**15** *(4)*		**66** *(2.60)*	**M20x1**	**30** *(1.18)*	**75** *(2.95)*	**25** *(0.98)*	**7,5** *(0.29)*	**6** *(0.23)*	**24,5** *(0.96)*	**84100022**	**0,40** *(0.88)*
STUF380NPT	**NPTF** 3/8	**30** *(8)*		**77** *(3.03)*									**0,42** *(0.92)*
STUF120NPT	**NPTF** 1/2	**50** *(13)*		**91** *(3.58)*	**M25x1,5**	**33** *(1.30)*	**81** *(3.19)*	**30** *(1.18)*	**9** *(0.35)*	**7** *(0.27)*	**29,5** *(1.16)*	**84100023**	**0,63** *(1.40)*
STUF340NPT	**NPTF** 3/4	**80** *(21)*		**112,5** *(4.43)*	**M35x1,5**	**42** *(1.65)*	**110** *(4.33)*	**40** *(1.57)*	**15,5** *(0.61)*	**8** *(0.31)*	**39,5** *(1.55)*	**84100024**	**1,5** *(3.3)*
STUF100NPT	**NPTF 1**	**150** *(40)*		**141** *(5.55)*			**115** *(4.53)*	**45** *(1.77)*					**2** *(4.4)*
STUF114NPT	**NPTF 1-1/4**	**200** *(50)*	**350** *(5000)*	**155** *(6.10)*	**M45x1,5**	**53** *(2.08)*	**137** *(5.39)*	**55** *(2.16)*	**13,5** *(0.53)*	**10** *(0.39)*	**50** *(1.96)*	**84100030**	**3,2** *(7)*
STUF112NPT	**NPTF 1-1/2**	**300** *(80)*		**168** *(6.61)*			**147** *(5.78)*	**65** *(2.55)*					**4,7** *(10.3)*

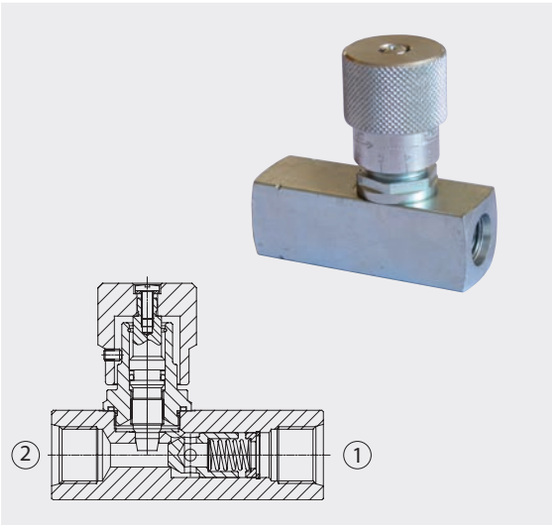
Codice ordinazione
Ordering code

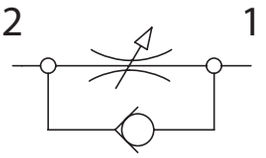
STUF - X NPT

X	Dim / *Size*
180	NPTF 1/8
140	NPTF 1/4
380	NPTF 3/8
120	NPTF 1/2
340	NPTF 3/4
100	NPTF 1
114	NPTF 1-1/4
112	NPTF 1-1/2

STU-SAE

Valvole di controllo flusso unidirezionali
Unidirectional flow control valves





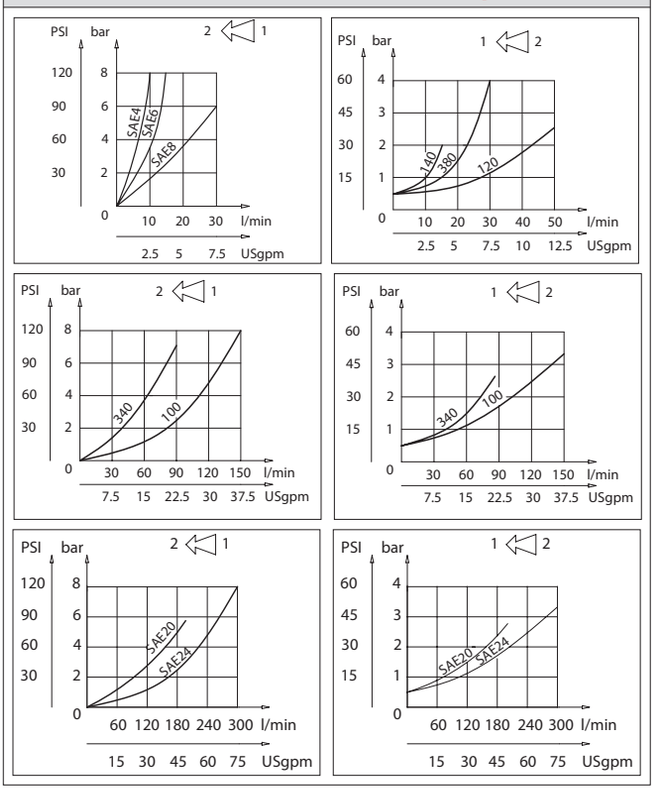
Dati tecnici
Technical data

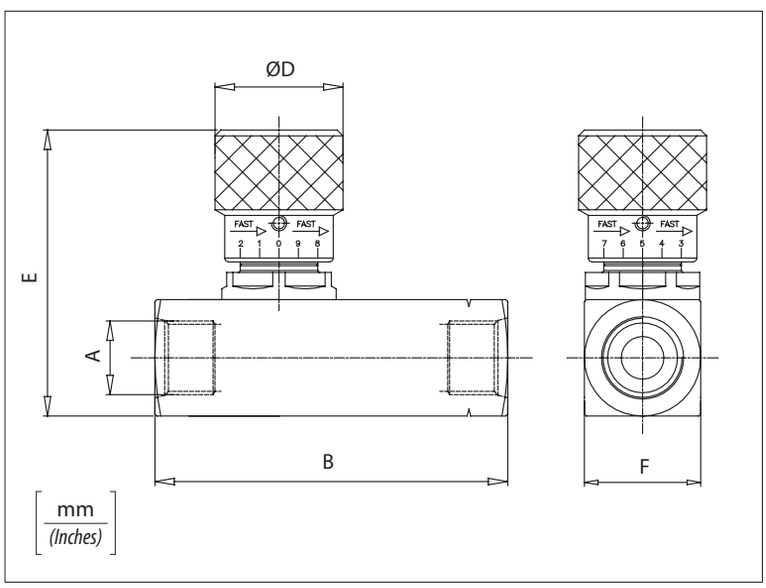
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

Perdite di carico *Pressure drops*





Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	B	D	E	F	Peso approssimativo / Kg *Approx weight / lb*
STU4SAE	**7/16 - 20UNF**	**15** *(4)*	**400** *(5800)*	**66** *(2.60)*	**30** *(1.18)*	**68** *(2.68)*	**25** *(0.98)*	**0,39** *(0.85)*
STU6SAE	**9/16 - 18UNF**	**30** *(8)*		**70,5** *(2.78)*				**0,40** *(0.88)*
STU8SAE	**3/4 - 16UNF**	**50** *(13)*		**91** *(3.58)*	**33** *(1.30)*	**72** *(2.83)*	**30** *(1.18)*	**0,60** *(1.32)*
STU12SAE	**1 - 1/16 - 12UN**	**80** *(21)*		**112,5** *(4.43)*	**42** *(1.65)*	**94** *(3.70)*	**40** *(1.57)*	**1,28** *(2.80)*
STU16SAE	**1 - 5/16 - 12UN**	**150** *(40)*		**141** *(5.55)*		**99** *(3.90)*	**45** *(1.77)*	**1,87** *(4.11)*
STU20SAE	**1 - 5/8 - 12UN**	**200** *(50)*		**155** *(6.10)*	**53** *(2.08)*	**121,5** *(4.78)*	**55** *(2.16)*	**3,06** *(6.73)*
STU24SAE	**1 - 7/8 - 12UN**	**300** *(80)*	**350** *(5000)*	**168** *(6.61)*		**131,5** *(5.17)*	**65** *(2.55)*	**4,5** *(10)*

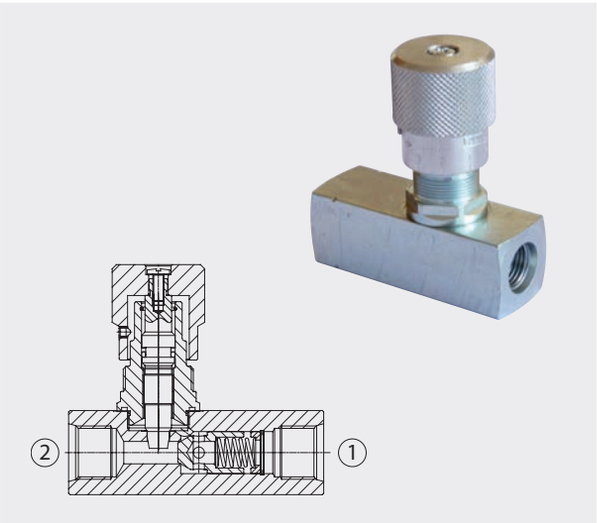
Codice ordinazione / *Ordering code*

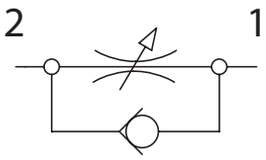
STU - X - SAE

X	Dimensione / *Size*
4	7/16 - 20UNF
6	9/16 - 18UNF
8	3/4 - 16UNF
12	1 - 1/16 - 12UN
16	1 - 5/16 - 12UN
20	1 - 5/8 - 12UN
24	1 - 7/8 - 12UN

STUF-SAE

Valvole di controllo flusso unidirezionali
Unidirectional flow control valves





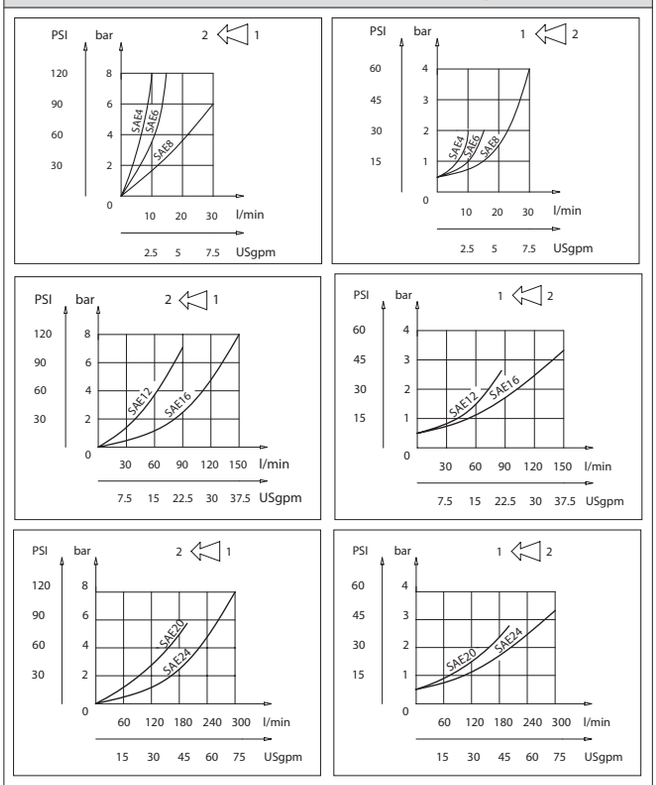
Dati tecnici
Technical data

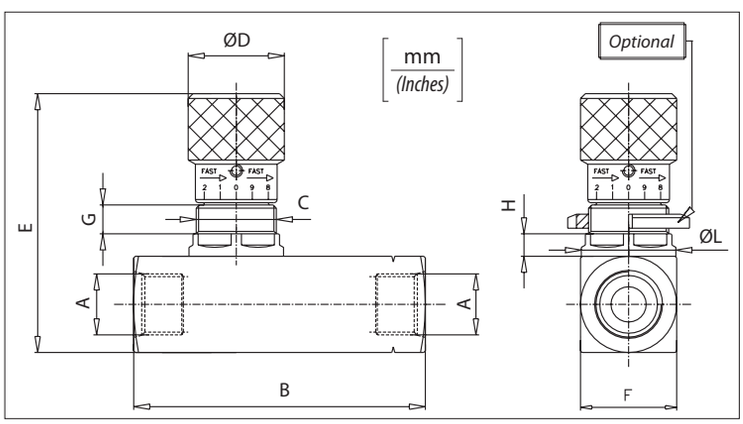
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

Perdite di carico *Pressure drops*





Codice ordinazione / *Ordering code*

STUF - X SAE

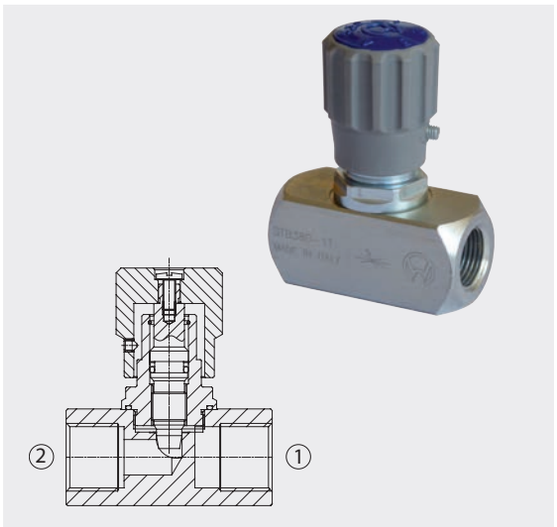
X	4	6	8	12	16	20	24
Dim *Size*	7/16 20UNF	9/16 18UNF	3/4 16UNF	1-1/16 12UN	1-5/16 12UN	1-5/8 12UN	1-7/8 12UN

Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	H	L	Optional *Code*	Peso approssimativo *Approx weight* Kg / lb
STUF4SAE	**7/16 - 20UNF**	**15** *(4)*	**400** *(5800)*	**66** *(2.60)*	**M20x1**	**30** *(1.18)*	**75** *(2.95)*	**25** *(0.98)*	**7,5** *(0.29)*	**6** *(0.23)*	**24,5** *(0.96)*	**84100022**	**0,41** *(0.90)*
STUF6SAE	**9/16 - 18UNF**	**30** *(8)*		**70,5** *(2.78)*									**0,42** *(0.93)*
STUF8SAE	**3/4 - 16UNF**	**50** *(13)*		**91** *(3.58)*	**M25x1,5**	**33** *(1.30)*	**81** *(3.19)*	**30** *(1.18)*	**9** *(0.35)*	**7** *(0.27)*	**29,5** *(1.16)*	**84100023**	**0,63** *(1.40)*
STUF12SAE	**1-1/16 - 12UN**	**80** *(21)*		**112,5** *(4.43)*	**M35x1,5**	**42** *(1.65)*	**110** *(4.33)*	**40** *(1.57)*	**15,5** *(0.61)*	**8** *(0.31)*	**39,5** *(1.55)*	**84100024**	**1,40** *(3.10)*
STUF16SAE	**1-5/16 - 12UN**	**150** *(40)*		**141** *(5.55)*			**115** *(4.53)*	**45** *(1.77)*					**2** *(4.4)*
STUF20SAE	**1-5/8 - 12UN**	**200** *(50)*	**350** *(5000)*	**155** *(6.10)*	**M45x1,5**	**53** *(2.08)*	**137** *(5.39)*	**55** *(2.16)*	**13,5** *(0.53)*	**10** *(0.39)*	**50** *(1.96)*	**84100030**	**3,3** *(7.25)*
STUF24SAE	**1-7/8 - 12UN**	**300** *(80)*		**168** *(6.61)*			**147** *(5.78)*	**65** *(2.55)*					**4,7** *(10.3)*

STB-BSP

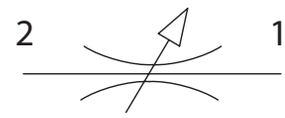
Valvole di controllo flusso bidirezionali
Bidirectional flow control valves

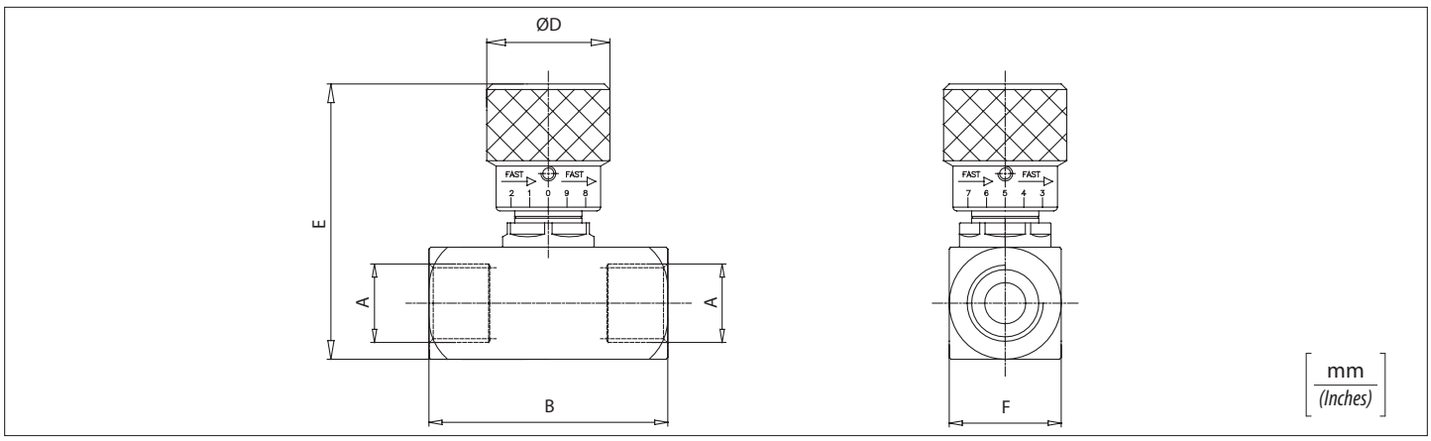


Dati tecnici *Technical data*		
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

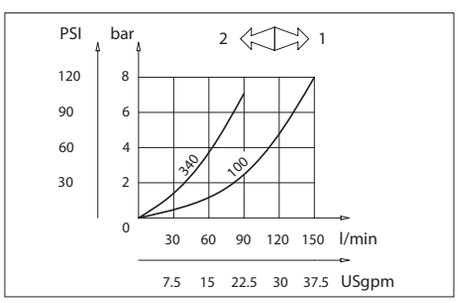
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

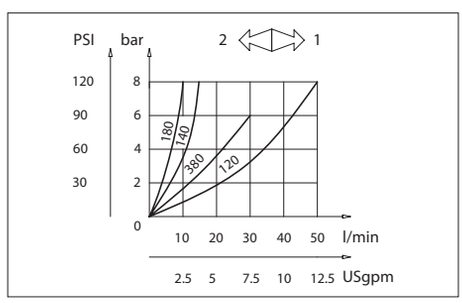
It is necessary a filter use to protect the valve (advised filtration 15 micron)

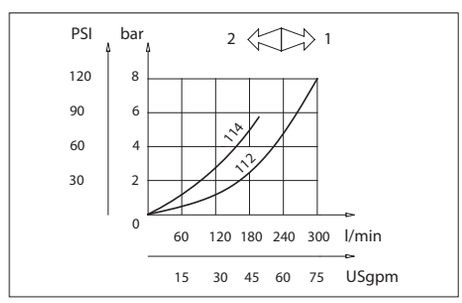




Perdite di carico *Pressure drops*







Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	B	D	E	F	Peso approssimativo / Kg *Approx weight / lb*
STB180	**BSPP 1/8**	**10** *(2.5)*	**400** *(5800)*	**44** *(1.73)*	**20** *(0.79)*	**53** *(2.08)*	**20** *(0.79)*	**0,16** *(0.35)*
STB140	**BSPP 1/4**	**15** *(4)*		**54** *(2.13)*	**30** *(1.18)*	**71,5** *(2.81)*	**25** *(0.98)*	**0,29** *(0.70)*
STB380	**BSPP 3/8**	**30** *(8)*						**0,26** *(0.57)*
STB120	**BSPP 1/2**	**50** *(13)*		**64** *(2.52)*	**33** *(1.30)*	**72** *(2.83)*	**30** *(1.18)*	**0,45** *(1)*
STB340	**BSPP 3/4**	**80** *(20)*		**81** *(3.19)*	**42** *(1.65)*	**94** *(3.70)*	**40** *(1.57)*	**1,02** *(2.25)*
STB100	**BSPP 1**	**150** *(40)*		**102** *(4.01)*		**99** *(3.90)*	**45** *(1.77)*	**1,38** *(3.04)*
STB114	**BSPP 1-1/4**	**200** *(50)*	**350** *(5000)*		**53** *(2.08)*	**121,5** *(4.78)*	**55** *(2.16)*	**2,2** *(4.8)*
STB112	**BSPP 1-1/2**	**300** *(80)*				**131,5** *(5.17)*	**65** *(2.55)*	**3** *(6.6)*

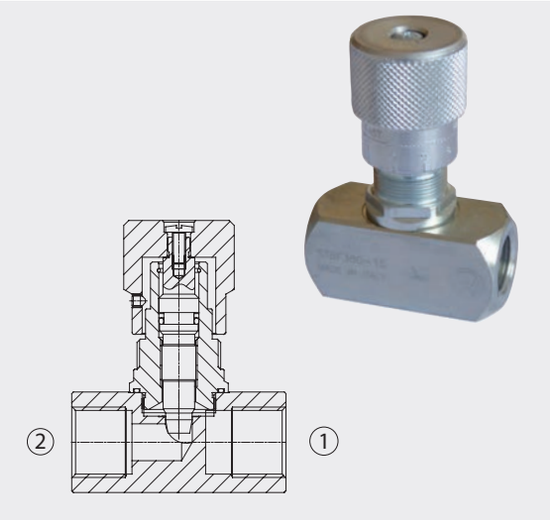
Codice ordinazione / *Ordering code*

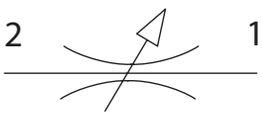
STB - X

X	Dimensione / *Size*
180	BSPP 1/8
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4
100	BSPP 1
114	BSPP 1-1/4
112	BSPP 1-1/2

STBF-BSP

Valvole di controllo flusso bidirezionali
Bidirectional flow control valves

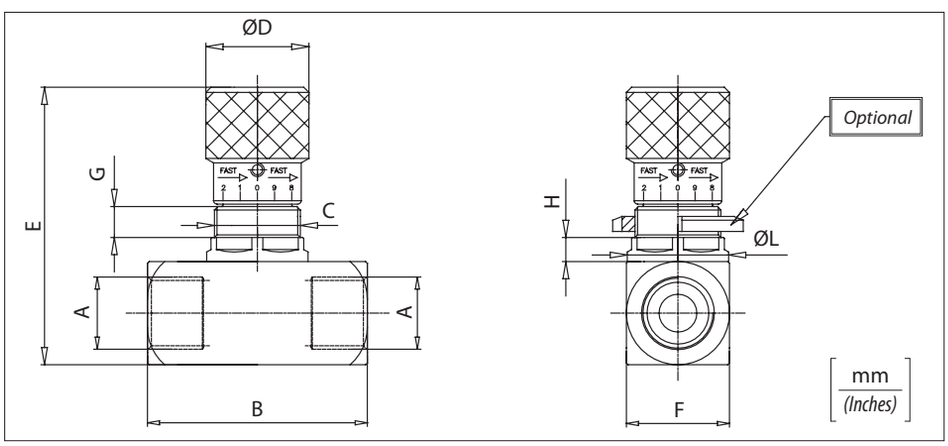




Dati tecnici *Technical data*		
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

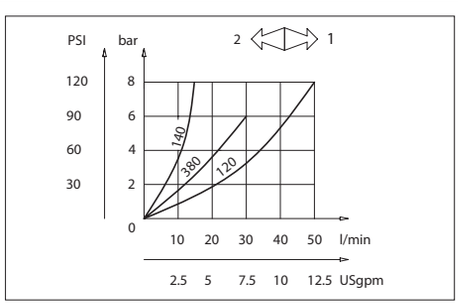


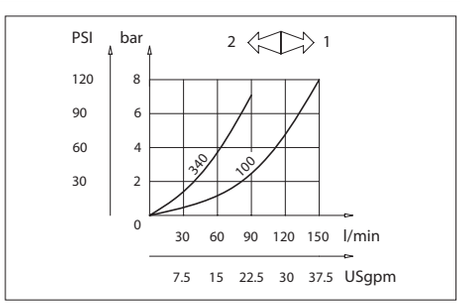
Codice ordinazione / *Ordering code*

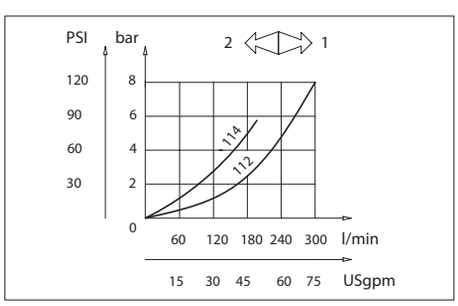
STBF - X

X	Dimensione / *Size*
180	BSPP 1/8
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4
100	BSPP 1
114	BSPP 1-1/4
112	BSPP 1-1/2

Perdite di carico *Pressure drops*





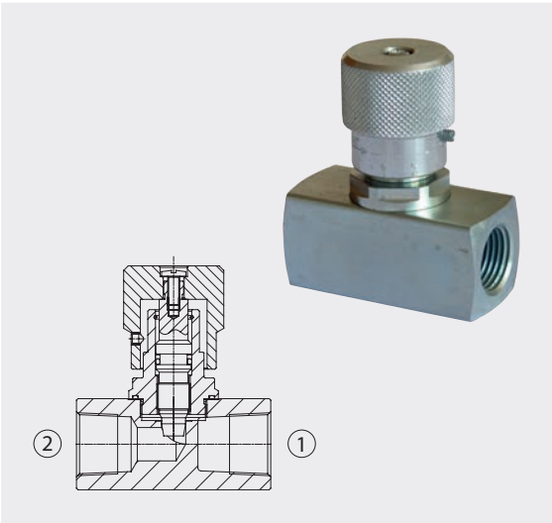


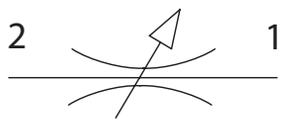
Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	H	L	Optional *Code*	Peso approssimativo *Approx weight* Kg / lb
STBF180	**BSPP 1/8**	**10** *(2.5)*	**400** *(5800)*	**44** *(1.73)*	**M15x1**	**20** *(0.79)*	**60,5** *(2.38)*	**20** *(0.79)*	**8** *(0.31)*	**5,5** *(0.21)*	**19,5** *(0.76)*	**84100031**	**0,16** *(0.36)*
STBF140	**BSPP 1/4**	**15** *(4)*		**54** *(2.13)*	**M20x1**	**30** *(1.18)*	**75** *(2.95)*	**25** *(0.98)*	**7,5** *(0.29)*	**6** *(0.23)*	**24,5** *(0.96)*	**84100022**	**0,31** *(0.68)*
STBF380	**BSPP 3/8**	**30** *(8)*											**0,28** *(0.62)*
STBF120	**BSPP 1/2**	**50** *(13)*		**64** *(2.52)*	**M25x1,5**	**33** *(1.30)*	**81** *(3.19)*	**30** *(1.18)*	**9** *(0.35)*	**7** *(0.27)*	**29,5** *(1.16)*	**84100023**	**0,48** *(1.06)*
STBF340	**BSPP 3/4**	**80** *(21)*		**81** *(3.19)*	**M35x1,5**	**42** *(1.65)*	**110** *(4.33)*	**40** *(1.57)*	**15,5** *(0.61)*	**8** *(0.31)*	**39,5** *(1.55)*	**84100024**	**1,13** *(2.50)*
STBF100	**BSPP 1**	**150** *(40)*		**102** *(4.01)*			**115** *(4.53)*	**45** *(1.77)*					**1,50** *(3.3)*
STBF114	**BSPP 1-1/4**	**200** *(50)*	**350** *(5000)*		**M45x1,5**	**53** *(2.08)*	**137** *(5.39)*	**55** *(2.16)*	**13,5** *(0.53)*	**10** *(0.39)*	**50** *(1.96)*	**84100030**	**2,37** *(5.21)*
STBF112	**BSPP 1-1/2**	**300** *(80)*					**147** *(5.78)*	**65** *(2.55)*					**3,17** *(7)*

STB-NPTF

Valvole di controllo flusso bidirezionali
Bidirectional flow control valves

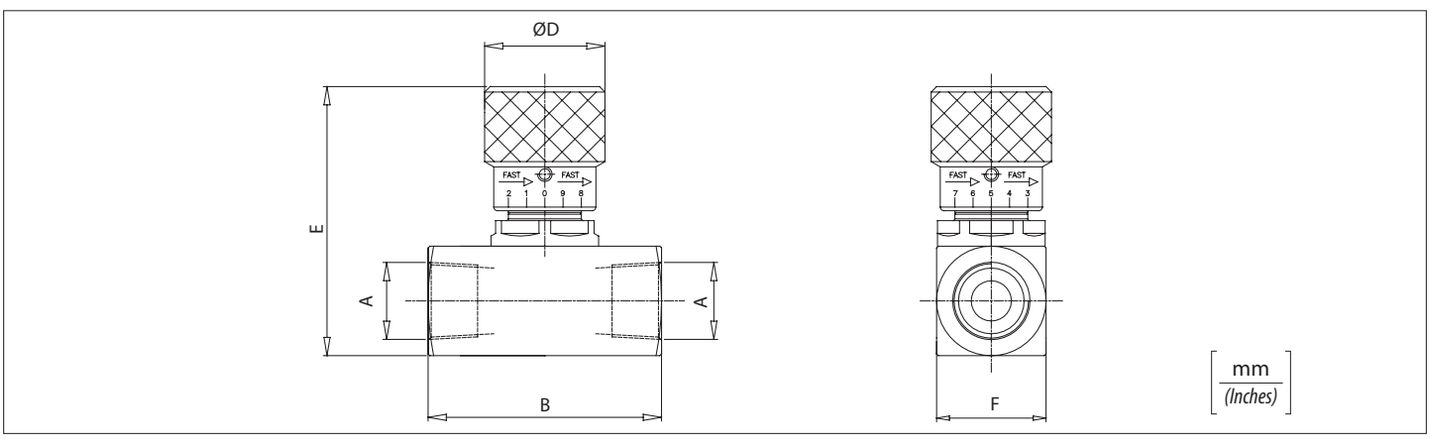




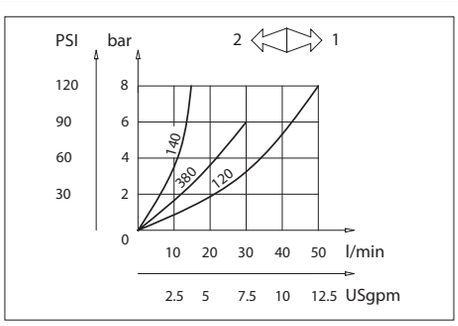
Dati tecnici *Technical data*		
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

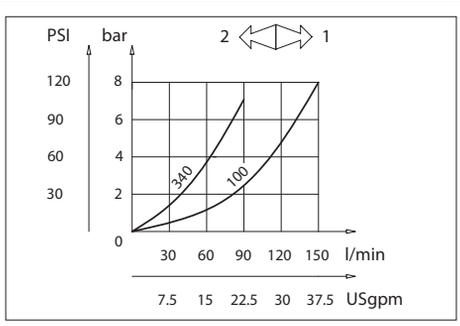
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

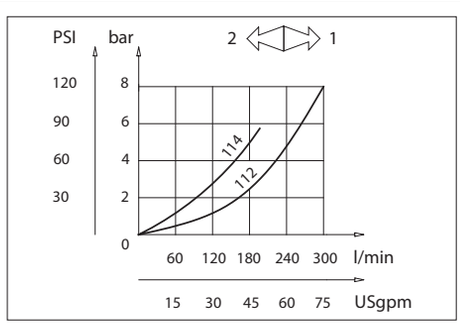
It is necessary a filter use to protect the valve (advised filtration 15 micron)



Perdite di carico *Pressure drops*







Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	B	D	E	F	Peso approssimativo / Kg *Approx weight / lb*
STB180NPT	**NPTF 1/8**	**10** *(2.5)*	**400** *(5800)*	**44** *(1.73)*	**20** *(0.79)*	**53** *(2.08)*	**20** *(0.79)*	**0,16** *(0.35)*
STB140NPT	**NPTF 1/4**	**15** *(4)*		**54** *(2.13)*	**30** *(1.18)*	**68** *(2.68)*	**25** *(0.98)*	**0,32** *(0.71)*
STB380NPT	**NPTF 3/8**	**30** *(8)*						**0,30** *(0.66)*
STB120NPT	**NPTF 1/2**	**50** *(13)*		**64** *(2.52)*	**33** *(1.30)*	**72** *(2.84)*	**30** *(1.18)*	**0,47** *(1.03)*
STB340NPT	**NPTF 3/4**	**80** *(21)*		**81** *(3.19)*	**42** *(1.65)*	**94** *(3.70)*	**40** *(1.57)*	**1,05** *(2.31)*
STB100NPT	**NPTF 1**	**150** *(40)*		**102** *(4.02)*		**99** *(3.90)*	**45** *(1.77)*	**1,34** *(2.95)*
STB114NPT	**NPTF 1-1/4**	**200** *(50)*	**350** *(5000)*		**53** *(2.08)*	**121,5** *(4.78)*	**55** *(2.16)*	**2,27** *(5.21)*
STB112NPT	**NPTF 1-1/2**	**300** *(80)*				**131,5** *(5.17)*	**65** *(2.55)*	**3** *(6.6)*

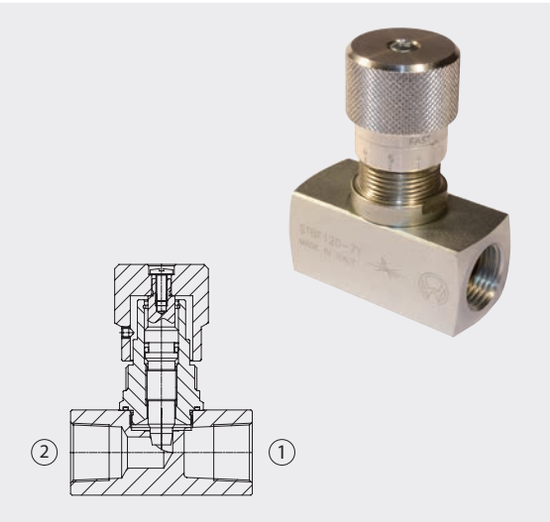
Codice ordinazione / *Ordering code*

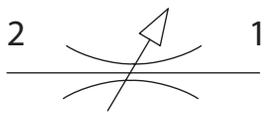
STB - X - NPT

X	Dimensione / *Size*
180	NPTF 1/8
140	NPTF 1/4
380	NPTF 3/8
120	NPTF 1/2
340	NPTF 3/4
100	NPTF 1
114	NPTF 1-1/4
112	NPTF 1-1/2

STBF-NPTF

Valvole di controllo flusso bidirezionali
Bidirectional flow control valves



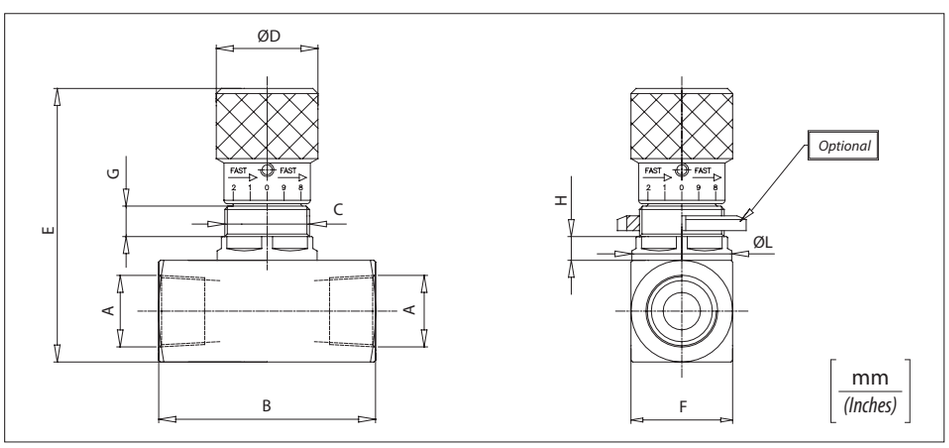


Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

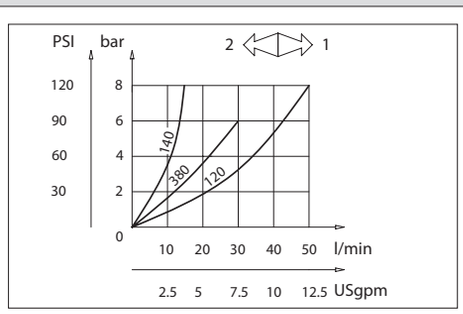


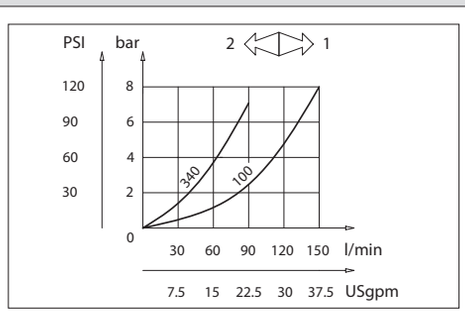
Codice ordinazione / *Ordering code*

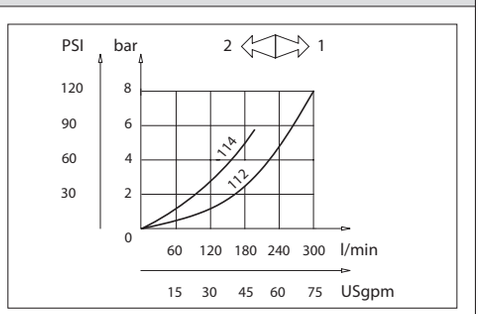
STBF - X - NPT

X	Dimensione / *Size*
180	NPTF 1/8
140	NPTF 1/4
380	NPTF 3/8
120	NPTF 1/2
340	NPTF 3/4
100	NPTF 1
114	NPTF 1-1/4
112	NPTF 1-1/2

Perdite di carico *Pressure drops*



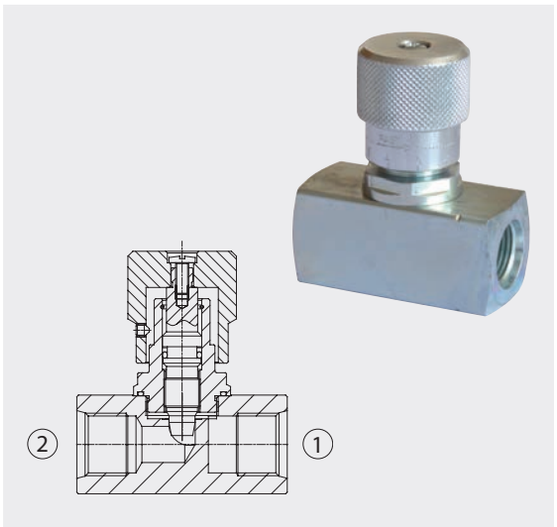


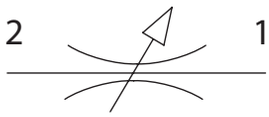


Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	H	L	Optional *Code*	Peso approssimativo *Approx weight* Kg / lb
STBF180NPT	**NPTF 1/8**	**10** *(2.5)*	**400** *(5800)*	**44** *(1.73)*	**M15x1**	**20** *(0.79)*	**60,5** *(2.38)*	**20** *(0.79)*	**8** *(0.31)*	**5,5** *(0.21)*	**19,5** *(0.76)*	**84100031**	**0,16** *(0.36)*
STBF140NPT	**NPTF 1/4**	**15** *(4)*		**54** *(2.13)*	**M20x1**	**30** *(1.18)*	**75** *(2.95)*	**25** *(0.98)*	**7,5** *(0.29)*	**6** *(0.23)*	**24,5** *(0.96)*	**84100022**	**0,34** *(0.75)*
STBF380NPT	**NPTF 3/8**	**30** *(8)*											**0,32** *(0.71)*
STBF120NPT	**NPTF 1/2**	**50** *(13)*		**64** *(2.52)*	**M25x1,5**	**33** *(1.30)*	**81** *(3.19)*	**30** *(1.18)*	**9** *(0.35)*	**7** *(0.27)*	**29,5** *(1.16)*	**84100023**	**0,50** *(1.1)*
STBF340NPT	**NPTF 3/4**	**80** *(21)*		**81** *(3.19)*	**M35x1,5**	**42** *(1.65)*	**110** *(4.33)*	**40** *(1.57)*	**15,5** *(0.61)*	**8** *(0.31)*	**39,5** *(1.55)*	**84100024**	**1,15** *(2.53)*
STBF100NPT	**NPTF 1**	**150** *(40)*		**102** *(4.02)*			**115** *(4.53)*	**45** *(1.77)*					**3,05** *(6.7)*
STBF114NPT	**NPTF 1-1/4**	**200** *(50)*	**350** *(5000)*		**M45x1,5**	**53** *(2.08)*	**137** *(5.39)*	**55** *(2.16)*	**13,5** *(0.53)*	**10** *(0.39)*	**50** *(1.96)*	**84100030**	**2,54** *(5.6)*
STBF112NPT	**NPTF 1-1/2**	**300** *(80)*					**147** *(5.78)*	**65** *(2.55)*					**3,17** *(7)*

STB-SAE Valvole di controllo flusso bidirezionali *Bidirectional flow control valves*



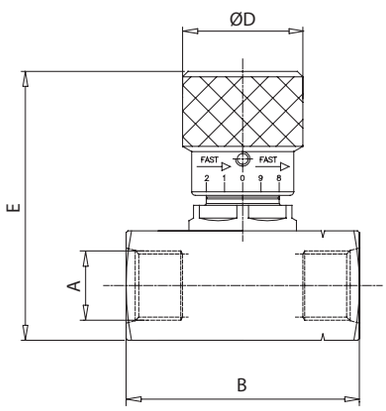


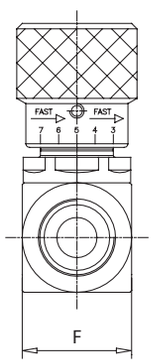
Dati tecnici *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

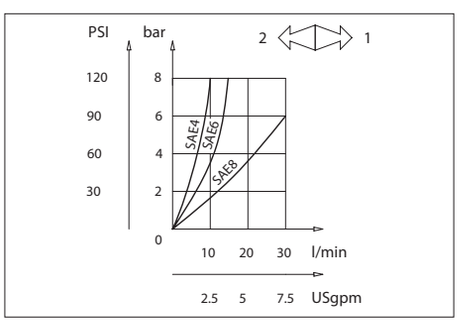
It is necessary a filter use to protect the valve (advised filtration 15 micron)

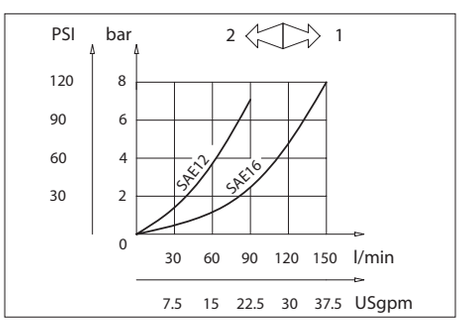


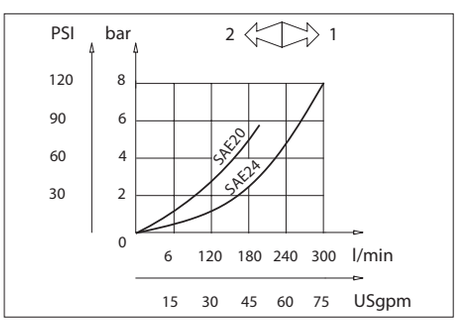


mm *(Inches)*

Perdite di carico *Pressure drops*







Caratteristiche tecniche / *Technical performances*

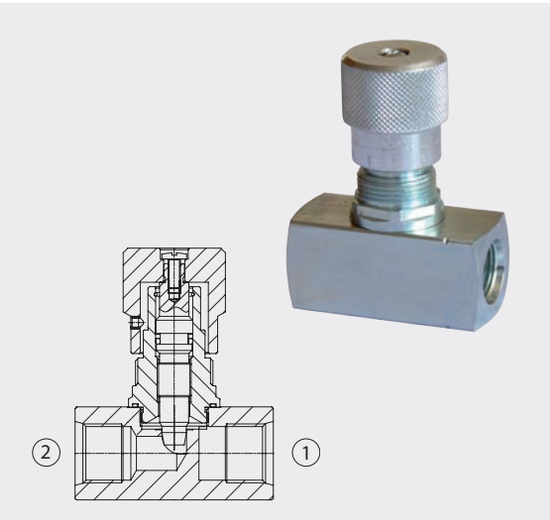
Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	B	D	E	F	Peso approssimativo / Kg *Approx weight / lb*
STB4SAE	**7/16 - 20UNF**	**15** *(4)*	**400** *(5800)*	**54** *(2.13)*	**30** *(1.18)*	**68** *(2.68)*	**25** *(0.98)*	**0,32** *(0.71)*
STB6SAE	**9/16 - 18UNF**	**30** *(28)*						**0,30** *(0.66)*
STB8SAE	**3/4 - 16UNF**	**50** *(13)*		**64** *(2.52)*	**33** *(1.30)*	**72** *(2.83)*	**30** *(1.18)*	**0,45** *(0.99)*
STB12SAE	**1 - 1/16 - 12UN**	**80** *(21)*		**81** *(3.19)*	**42** *(1.65)*	**94** *(3.70)*	**40** *(1.57)*	**1** *(2.2)*
STB16SAE	**1 - 5/16 - 12UN**	**150** *(40)*		**102** *(4.02)*		**99** *(3.90)*	**45** *(1.77)*	**1,35** *(3)*
STB20SAE	**1 - 5/8 - 12UN**	**200** *(50)*	**350** *(5000)*		**53** *(2.08)*	**121,5** *(4.78)*	**55** *(2.16)*	**2,37** *(5.21)*
STB24SAE	**1 - 7/8 - 12UN**	**300** *(80)*				**131,5** *(5.17)*	**65** *(2.55)*	**3** *(6.6)*

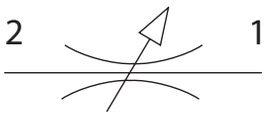
Codice ordinazione / *Ordering code*

STB - X - SAE

X	Dimensione / *Size*
4	7/16 - 20UNF
6	9/16 - 18UNF
8	3/4 - 16UNF
12	1 - 1/16 - 12UN
16	1 - 5/16 - 12UN
20	1 - 5/8 - 12UN
24	1 - 7/8 - 12UN

STBF-SAE Valvole di controllo flusso bidirezionali
Bidirectional flow control valves

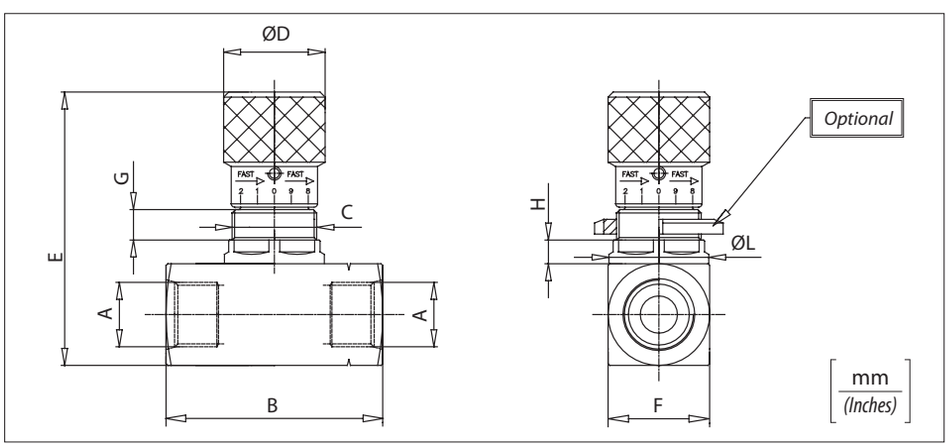




Dati tecnici *Technical data*		
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

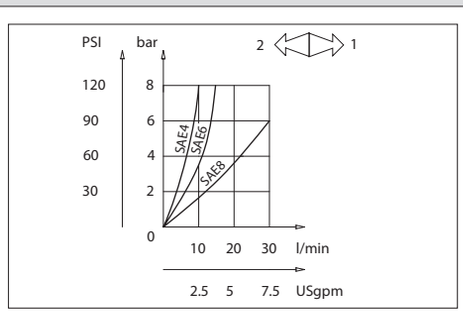


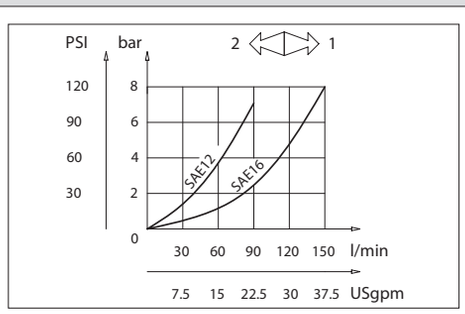
Codice ordinazione / *Ordering code*

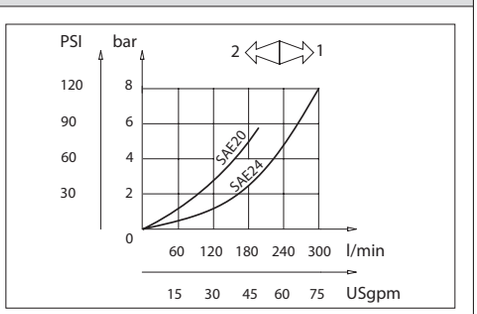
STBF - X - SAE

X	Dimensione / *Size*
4	7/16 - 20UNF
6	9/16 - 18UNF
8	3/4 - 16UNF
12	1 - 1/16 - 12UN
16	1 - 5/16 - 12UN
20	1 - 5/8 - 12UN
24	1 - 7/8 - 12UN

Perdite di carico *Pressure drops*



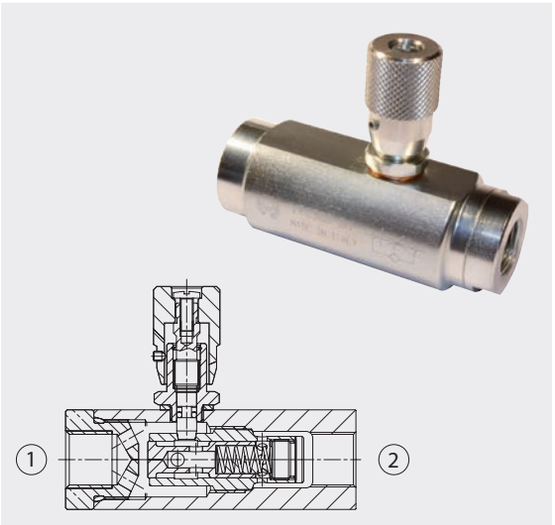




Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	H	L	Optional *Code*	Peso approssimativo *Approx weight* Kg / lb
STBF4SAE	**7/16 - 20UNF**	**15** *(4)*	**400** *(5800)*	**54** *(2.13)*	**M20x1**	**30** *(1.18)*	**75** *(2.95)*	**25** *(0.98)*	**7,5** *(0.29)*	**6** *(0.23)*	**24,5** *(0.96)*	**84100022**	**0,34** *(0.75)*
STBF6SAE	**9/16 - 18UNF**	**30** *(8)*											**0,32** *(0.71)*
STBF8SAE	**3/4 - 16UNF**	**50** *(13)*		**64** *(2.52)*	**M25x1,5**	**33** *(1.30)*	**81** *(3.19)*	**30** *(1.18)*	**9** *(0.35)*	**7** *(0.27)*	**29,5** *(1.16)*	**84100023**	**0,48** *(1.05)*
STBF12SAE	**1 - 1/16 - 12UN**	**80** *(21)*		**81** *(3.19)*	**M35x1,5**	**42** *(1.65)*	**110** *(4.33)*	**40** *(1.57)*	**15,5** *(0.61)*	**8** *(0.31)*	**39,5** *(1.55)*	**84100024**	**1,1** *(2.42)*
STBF16SAE	**1 - 5/16 - 12UN**	**150** *(40)*		**102** *(4.02)*			**115** *(4.53)*	**45** *(1.77)*					**1,45** *(3.2)*
STBF20SAE	**1 - 5/8 - 12UN**	**200** *(50)*	**350** *(5000)*		**M45x1,5**	**53** *(2.08)*	**137** *(5.39)*	**55** *(2.16)*	**13,5** *(0.53)*	**10** *(0.39)*	**50** *(1.96)*	**84100030**	**2,45** *(5.39)*
STBF24SAE	**1 - 7/8 - 12UN**	**300** *(80)*					**147** *(5.78)*	**65** *(2.55)*					**3,17** *(7)*

VRC Valvole per controllo flusso compensate
Compensated flow control valves

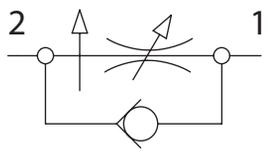


Dati tecnici
Technical data

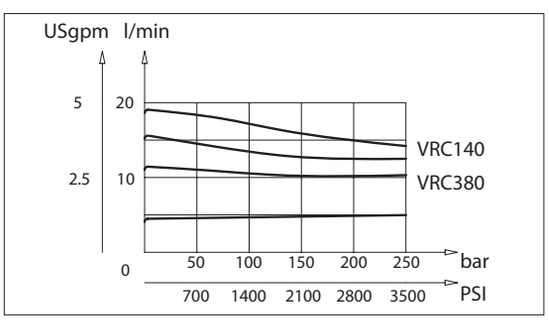
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

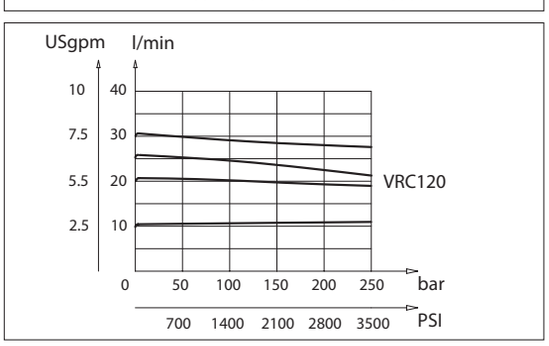
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

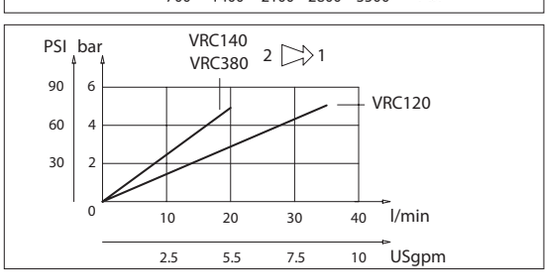
It is necessary a filter use to protect the valve (advised filtration 15 micron)

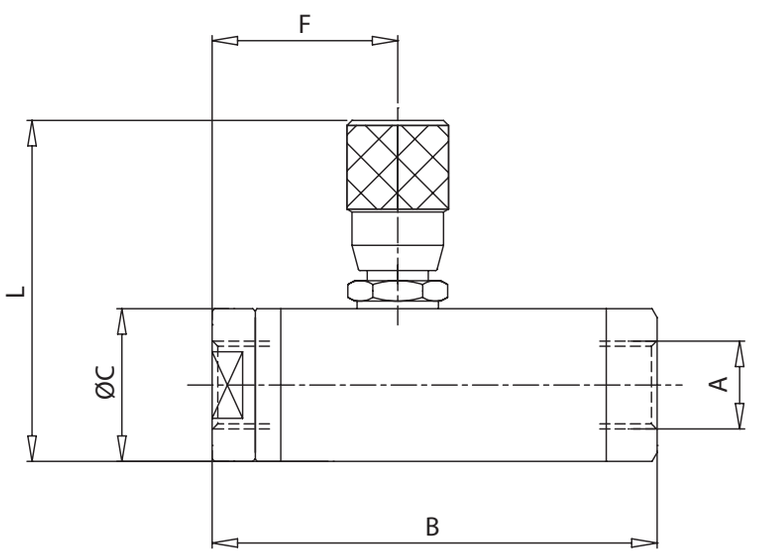


Perdite di carico *Pressure drops*









mm
(Inches)

Caratteristiche tecniche / *Technical performances*

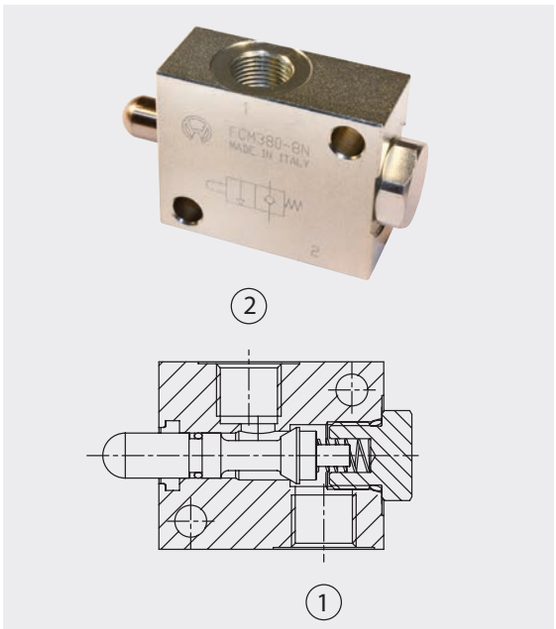
Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	B	C	F	L	Peso approssimativo / Kg *Approx weight / lb*
VRC140	**BSPP 1/4**	**10** *(2.5)*	**250** *(3600)*	**88** *(3.46)*	**27** *(1.06)*	**51** *(2)*	**52** *(2.05)*	**0,49** *(1.08)*
VRC380	**BSPP 3/8**	**18** *(4.7)*						**0,48** *(1.05)*
VRC120	**BSPP 1/2**	**33** *(8.7)*		**108** *(4.25)*	**36** *(1.42)*	**61** *(2.40)*	**57** *(2.25)*	**0,72** *(1.58)*

Codice ordinazione / *Ordering code*

VRC - X

X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**

FCM Valvole di fine corsa
End-stroke valves

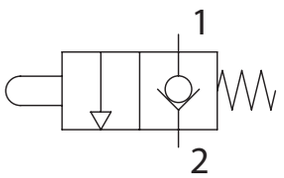


Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

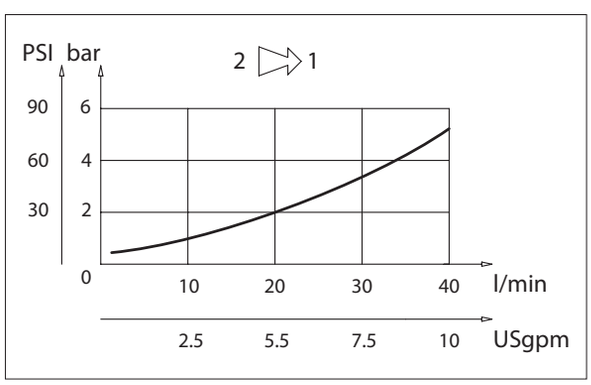
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

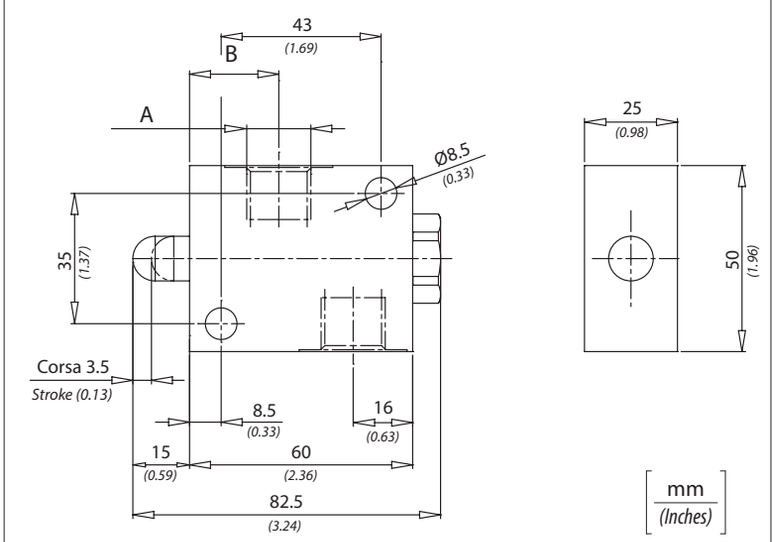
It is necessary a filter use to protect the valve (advised filtration 15 micron)



Normalmente chiusa
Normally closed

Perdite di carico *Pressure drops*





Caratteristiche tecniche / *Technical performances*

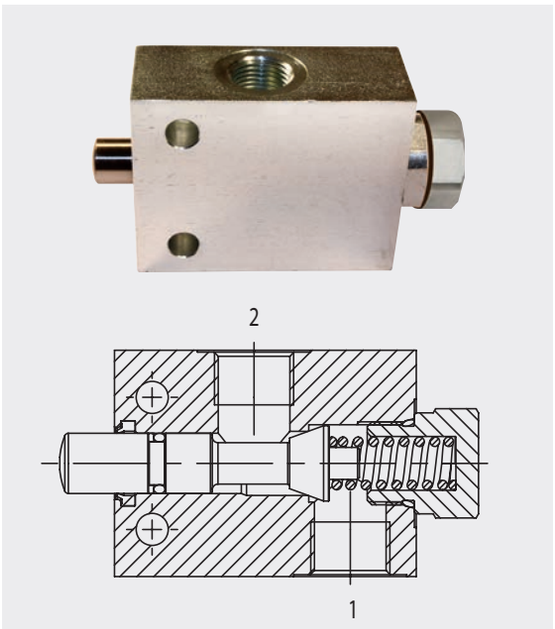
Codice *Code*	A	B	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo / Kg *Approx weight / lb*
FCM140N	**BSPP 1/4**	**26,5** *(1.04)*	**40** *(10.5)*	**350** *(5000)*	**0,50** *(1.10)*
FCM380N	**BSPP 3/8**	**24** *(0.95)*			

Codice ordinazione / *Ordering code*

FCM - X

X	Dimensione / *Size*
140N	BSPP 1/4
380N	BSPP 3/8

FCM120 Valvole di fine corsa
End-stroke valves

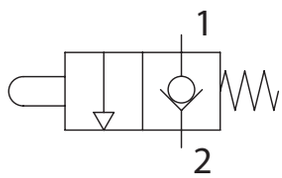


Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

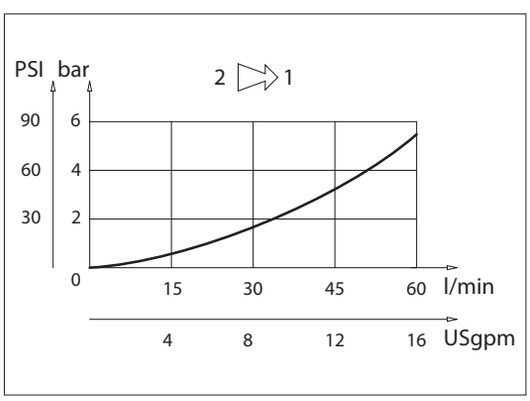
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

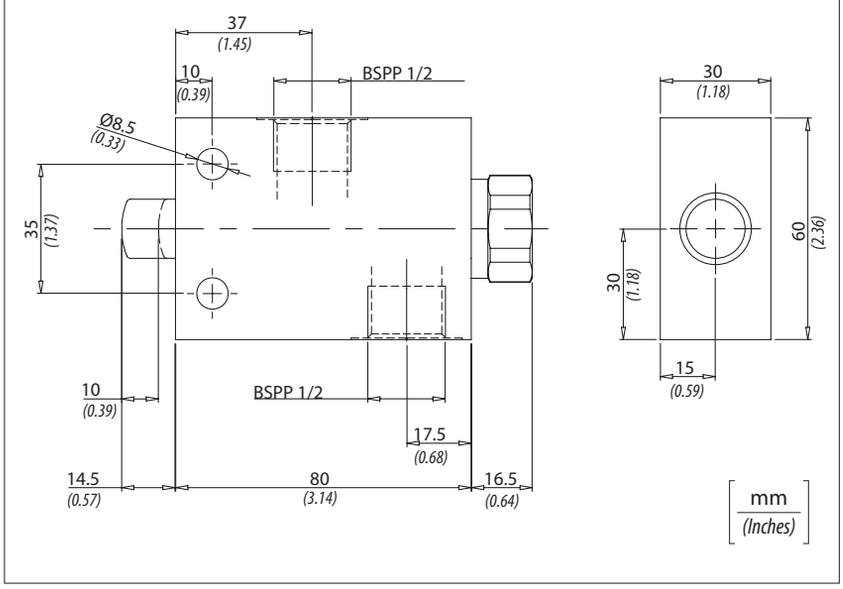
It is necessary a filter use to protect the valve (advised filtration 15 micron)



Normalmente chiusa
Normally closed

Perdite di carico *Pressure drops*





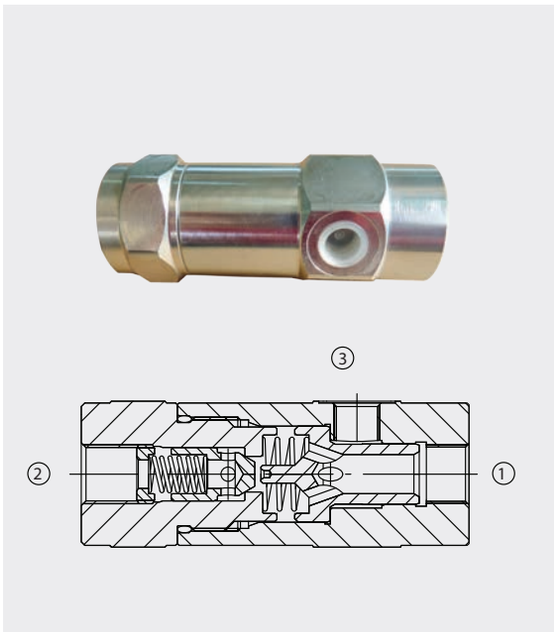
Caratteristiche tecniche
Technical performances

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo / Kg *Approx weight / lb*
FCM120N	**60** *(16)*	**300** *(4350)*	**1,50** *(3.3)*

Codice ordinazione
Ordering code

FCM120N

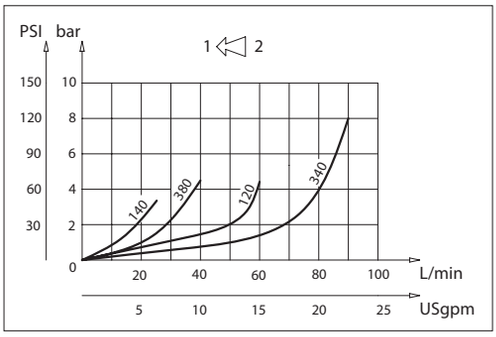
VRPE Valvole di blocco pilotate a semplice effetto
Single acting pilot check valves

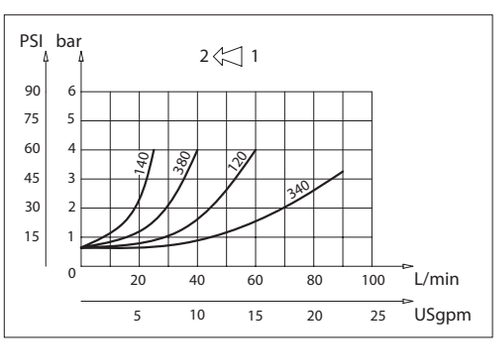


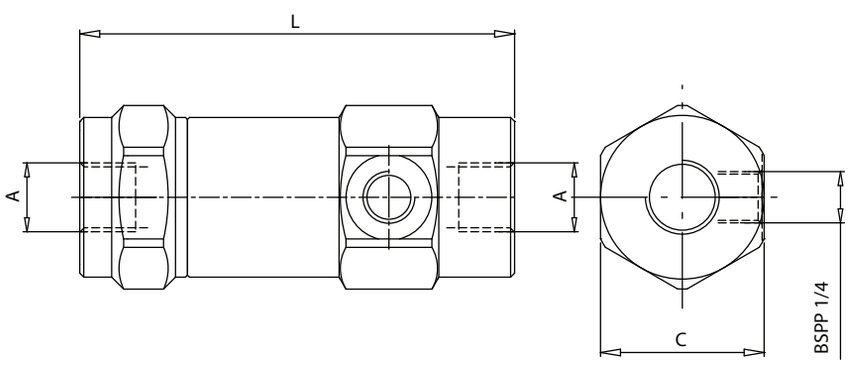
Dati tecnici *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola *It is necessary a filter use to protect the valve (advised filtration 15 micron)*		
Trafilamento *Leakage*	0 - 0,25 cm^3/min *(0-0,015 in^3)*	

Perdite di carico *Pressure drops*







mm
(Inches)

Caratteristiche tecniche *Technical performances*

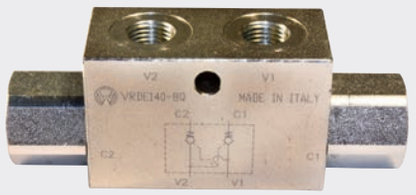
Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	L	C	Peso approssimativo / Kg *Approx weight / lb*	Rapporto di pilotaggio *Pilot ratio*
VRPE140	**BSPP 1/4**	**25** *(6.5)*	**350** *(5000)*	**100** *(3.94)*	**40** *(1.57)*	**0,71** *(1.56)*	**1:5.3**
VRPE380	**BSPP 3/8**	**40** *(10.5)*		**105** *(4.13)*	**45** *(1.77)*	**1** *(2.2)*	**1:4.4**
VRPE120	**BSPP 1/2**	**60** *(16)*		**125** *(4.92)*		**1,1** *(2.4)*	**1:4.2**
VRPE340	**BSPP 3/4**	**100** *(26)*	**300** *(4350)*	**130** *(5.12)*	**55** *(2.16)*	**2,1** *(4.62)*	**1:4**
VRPE100	**BSPP 1**	**150** *(40)*		**166** *(6.54)*	**65** *(2.56)*	**3,6** *(7.92)*	**1:4.1**

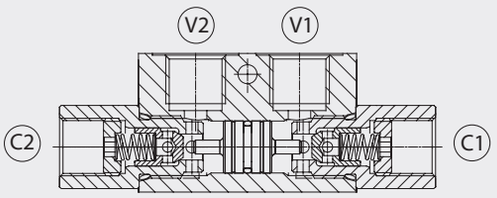
Codice ordinazione / *Ordering code*

VRPE - X

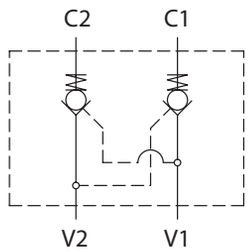
X	Dimensione / *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4
100	BSPP 1

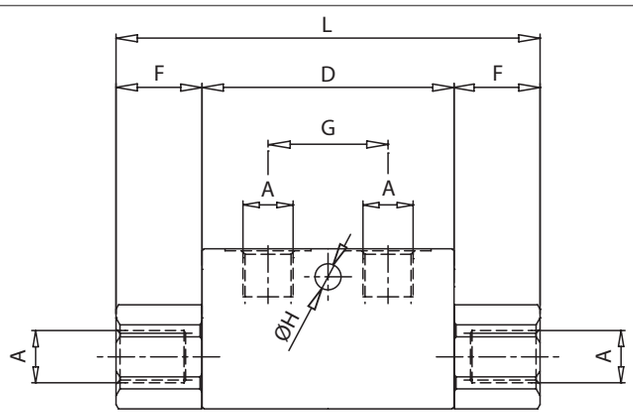
VRDE Valvole di blocco a doppio effetto
Double acting pilot check valves

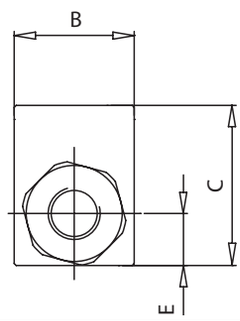




Dati tecnici *Technical data*		
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola *It is necessary a filter use to protect the valve (advised filtration 15 micron)*		
Trafilamento *Leakage*	0 - 0,25 cm^3/min *(0-0,015 in^3)*	

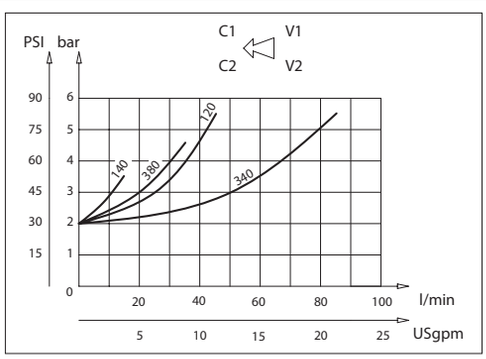


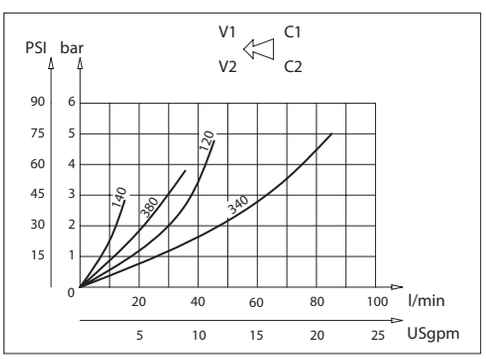




mm *(Inches)*

Perdite di carico *Pressure drops*





Codice ordinazione / *Ordering code*

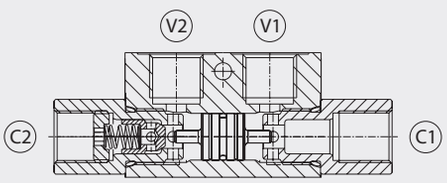
VRDE - X

X	Dimensione / *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4

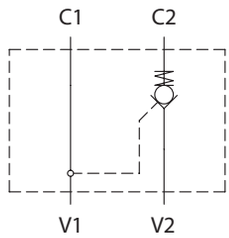
Caratteristiche tecniche / *Technical performances*

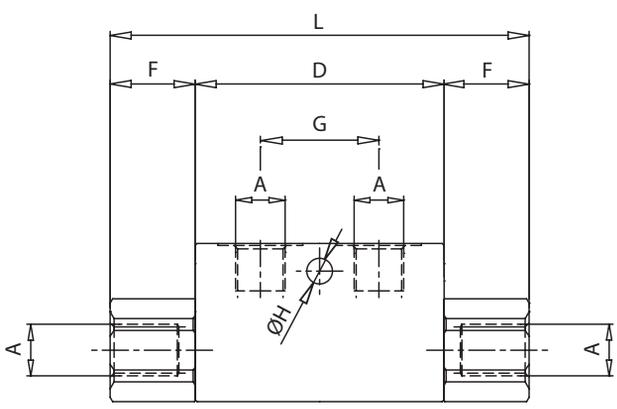
Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	H	L	Peso approssimativo *Approx weight* Kg / lb	Rapporto di pilotaggio *Pilot ratio*
VRDE140	**BSPP 1/4**	**15** *(4)*	**320** *(4500)*	**30** *(1.18)*	**40** *(1.57)*	**63** *(2.48)*	**13** *(0.51)*	**21,5** *(0.85)*	**30** *(1.18)*	**6,5** *(0.26)*	**106** *(4.17)*	**0,63** *(1.4)*	**1:4**
VRDE380	**BSPP 3/8**	**35** *(9.3)*										**0,60** *(1.32)*	
VRDE120	**BSPP 1/2**	**45** *(12)*	**300** *(4350)*	**35** *(1.38)*	**50** *(1.97)*	**82** *(3.23)*	**16,5** *(0.65)*	**31,5** *(1.24)*	**36** *(1.42)*		**145** *(5.71)*	**1,10** *(2.42)*	
VRDE340	**BSPP 3/4**	**70** *(18.5)*		**40** *(1.57)*	**60** *(2.36)*	**100** *(3.94)*	**22,5** *(0.88)*	**46** *(1.81)*	**50** *(1.97)*	**8,5** *(0.34)*	**192** *(7.56)*	**2,10** *(4.62)*	**1:2.9**

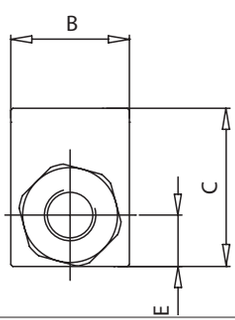
VRSE Valvole di blocco a semplice effetto
Single acting pilot check valves



Dati tecnici *Technical data*		
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola *It is necessary a filter use to protect the valve (advised filtration 15 micron)*		
Trafilamento *Leakage*	0 - 0,25 cm^3/min *(0-0,015 in^3)*	

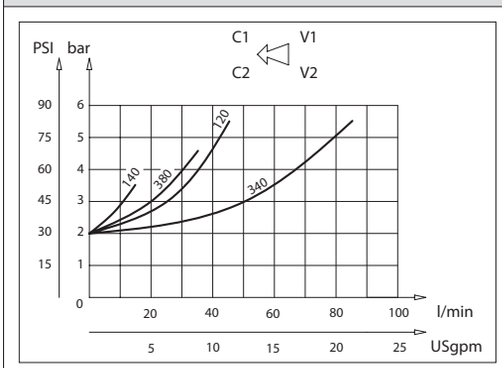


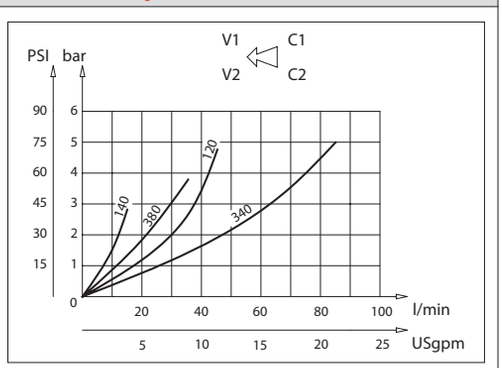




mm *(Inches)*

Perdite di carico *Pressure drops*





Codice ordinazione / *Ordering code*

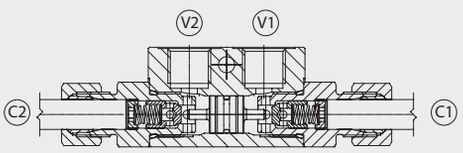
VRSE - X

X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**

Caratteristiche tecniche / *Technical performances*

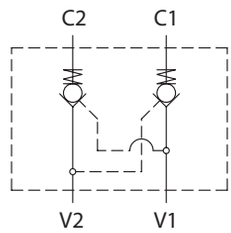
Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	H	L	Peso approssimativo *Approx weight* Kg / lb	Rapporto di pilotaggio *Pilot ratio*
VRSE140	**BSPP 1/4**	**15** *(4)*	**320** *(4500)*	**30** *(1.18)*	**40** *(1.57)*	**63** *(2.48)*	**13** *(0.51)*	**21,5** *(0.85)*	**30** *(1.18)*	**6,5** *(0.26)*	**106** *(4.17)*	**0,61** *(1.34)*	**1:4**
VRSE380	**BSPP 3/8**	**35** *(9.3)*										**0,58** *(1.27)*	
VRSE120	**BSPP 1/2**	**45** *(12)*	**300** *(4350)*	**35** *(1.38)*	**50** *(1.97)*	**82** *(3.23)*	**16,5** *(0.65)*	**31,5** *(1.24)*	**36** *(1.42)*		**145** *(5.71)*	**1,05** *(2.31)*	
VRSE340	**BSPP 3/4**	**70** *(18.5)*		**40** *(1.57)*	**60** *(2.36)*	**100** *(3.94)*	**22,5** *(0.88)*	**46** *(1.81)*	**50** *(1.97)*	**8,5** *(0.34)*	**192** *(7.56)*	**1** *(2.2)*	**1:2.9**

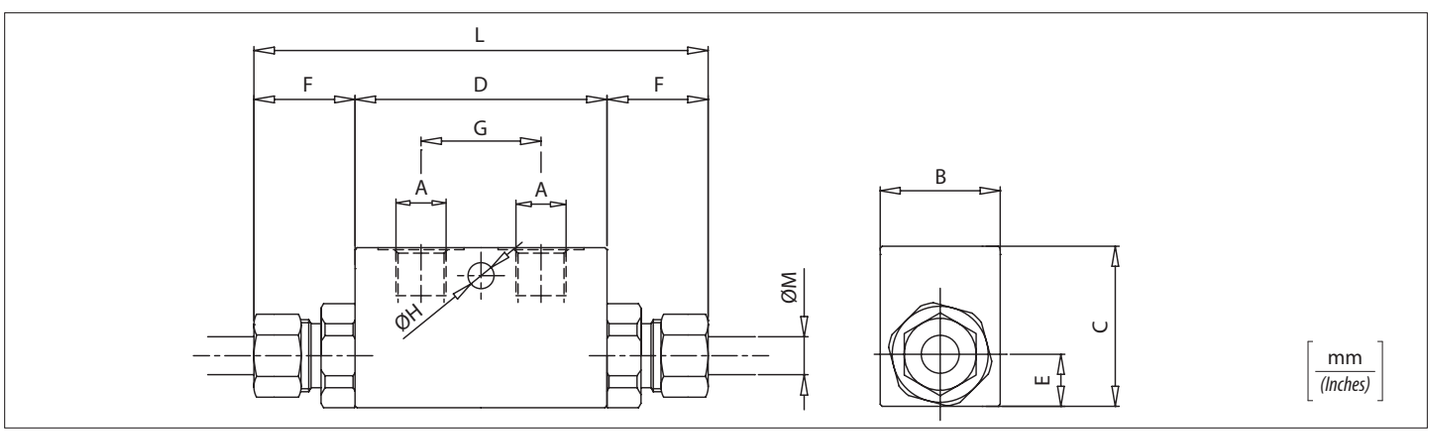
VRDD
Valvole di blocco a doppio effetto
Double acting pilot check valves



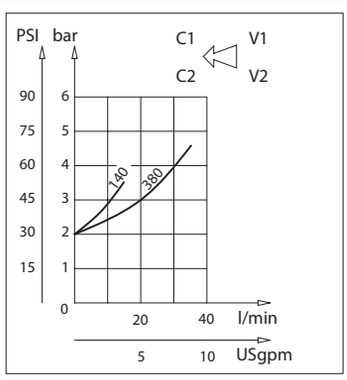
Dati tecnici
Technical data

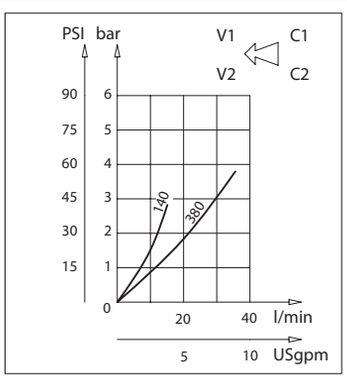
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola *It is necessary a filter use to protect the valve (advised filtration 15 micron)*		
Trafilamento *Leakage*	0 - 0,25 cm^3/min *(0-0,015 in^3)*	





Perdite di carico *Pressure drops*





Codice ordinazione / *Ordering code*

VRDD - X - Y

X	Dimensione / *Size*
140	**BSPP 1/4**
140	**BSPP 1/4**
380	**BSPP 3/8**

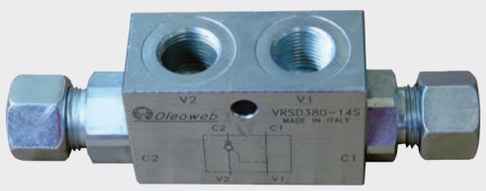
Y	Dimensione / *Size*
T8	**Per tubo Ø 8** *For Ø 8 pipe*
T12	**Per tubo Ø 12** *For Ø 12 pipe*
T12	**Per tubo Ø 12** *For Ø 12 pipe*

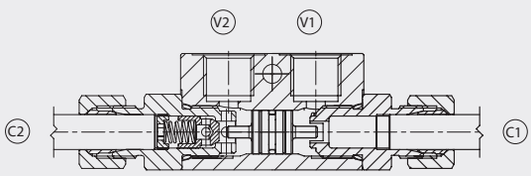
Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* *bar/PSI*	B	C	D	E	F	G	H	L	M	Peso approssimativo *Approx weight* Kg / lb	Rapporto di pilotaggio *Pilot ratio*
VRDD140T8	**BSPP 1/4**	**10** *(2.5)*	**320** *(4500)*	**30** *(1.18)*	**40** *(1.57)*	**63** *(2.48)*	**13** *(0.51)*	**25** *(0.98)*	**30** *(1.18)*	**6,5** *(0.26)*	**113** *(4.45)*	**8** *(0.32)*	**0,60** *(1.3)*	**1:9**
VRDD140		**15** *(4)*						**32** *(1.26)*			**127** *(5)*	**12** *(0.47)*	**0,64** *(1.4)*	**1:4**
VRDD380	**BSPP 3/8**	**35** *(9)*											**0,630** *(1.38)*	

VRSD

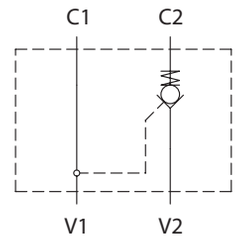
Valvole di blocco a semplice effetto DIN2353
DIN2353 *single acting pilot check valves*

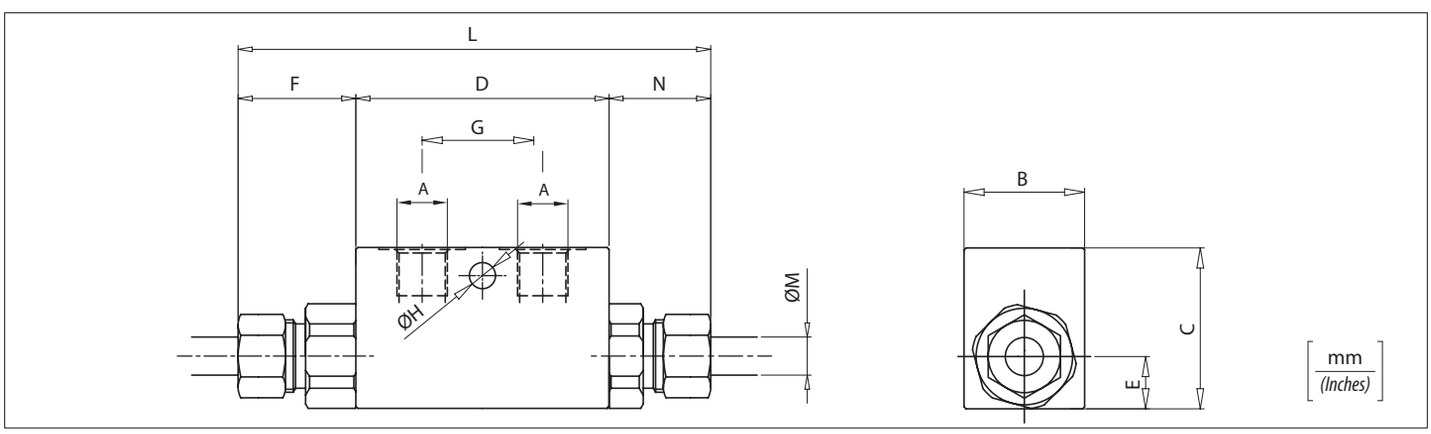




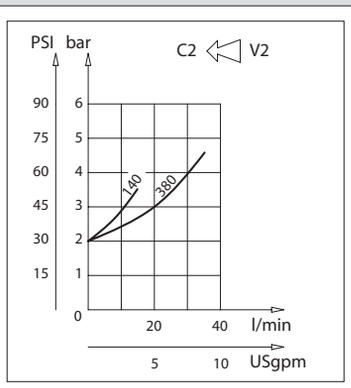
Dati tecnici
Technical data

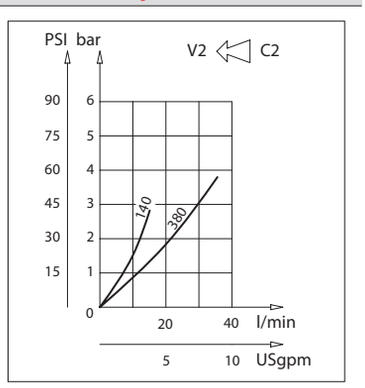
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola *It is necessary a filter use to protect the valve (advised filtration 15 micron)*		
Trafilamento *Leakage*	0 - 0,25 cm^3/min	





Perdite di carico *Pressure drops*





Codice ordinazione / *Ordering code*

VRSD - X - Y

X	Dimensione / *Size*
140	**BSPP 1/4**
140	**BSPP 1/4**
380	**BSPP 3/8**

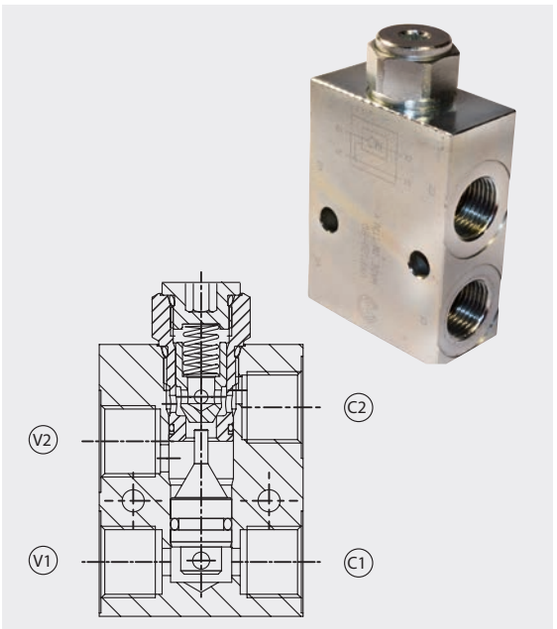
Y	Dimensione / *Size*
T8	**Per tubo Ø 8** *For Ø 8 pipe*
T12	**Per tubo Ø 12** *For Ø 12 pipe*
T12	**Per tubo Ø 12** *For Ø 12 pipe*

Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* *bar/PSI*	B	C	D	E	F	G	H	L	M	N	Peso approssimativo *Approx weight* Kg / lb	Rapporto di pilotaggio *Pilot ratio*
VRSD140T8	**BSPP 1/4**	**10** *(2.5)*	**320** *(4500)*	**30** *(1.18)*	**40** *(1.57)*	**63** *(2.48)*	**13** *(0.51)*	**25** *(0.98)*	**30** *(1.18)*	**6,5** *(0.26)*	**113** *(4.45)*	**8** *(0.32)*	**25** *(0.98)*	**0,59** *(1.3)*	**1:9**
VRSD140		**15** *(4)*						**32** *(1.26)*			**127** *(5)*	**12** *(0.47)*	**28** *(1.10)*	**0,63** *(1.37)*	**1:4**
VRSD380	**BSPP 3/8**	**35** *(9)*												**0,62** *(1.36)*	

VRP

Valvole di blocco pilotate a semplice effetto
Single acting pilot check valves

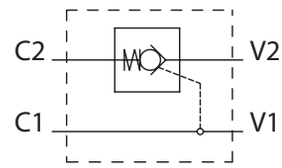


Dati tecnici
Technical data

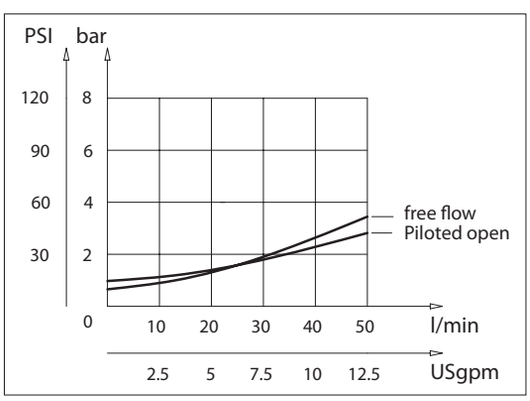
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

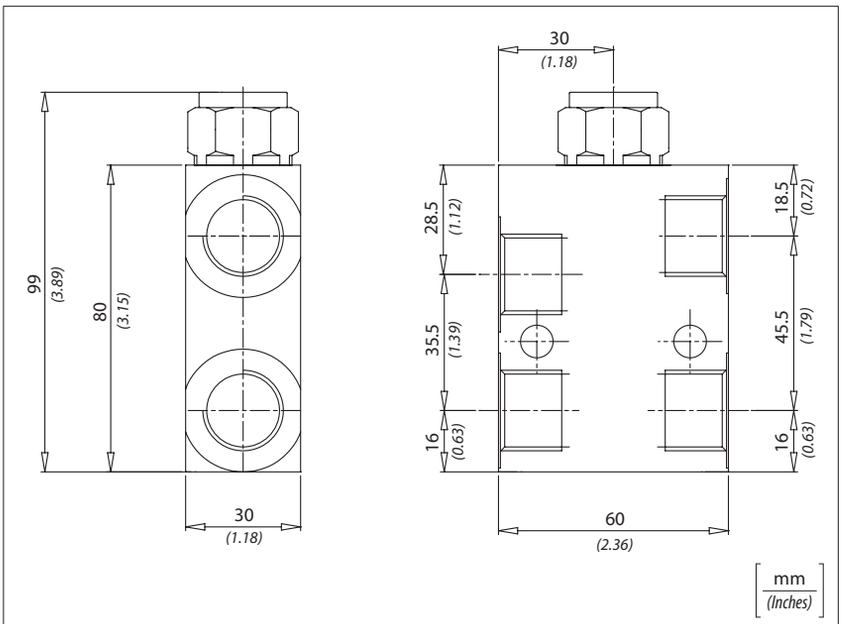
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



Perdite di carico *Pressure drops*





Caratteristiche tecniche
Technical performances

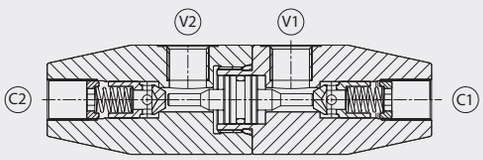
Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo / Kg *Approx weight / lb*	Rapporto di pilotaggio *Pilot ratio*
VRP120	**50** *(13)*	**350** *(5000)*	**0,9** *(2)*	**1:4**

Codice ordinazione / *Ordering code*

VRP - X

X	Dimensione / *Size*
120	**BSPP 1/2**

VRDP Valvole di blocco pilotate a doppio effetto
Double acting pilot check valves

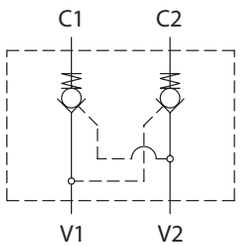


Dati tecnici *Technical data*

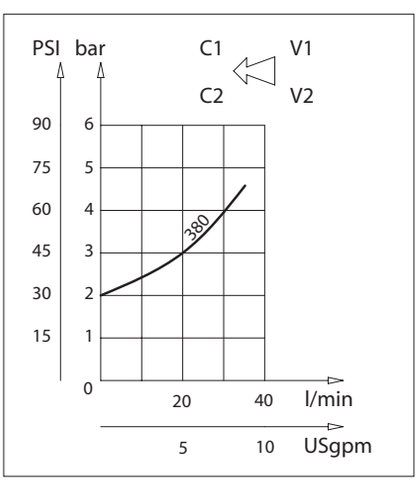
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

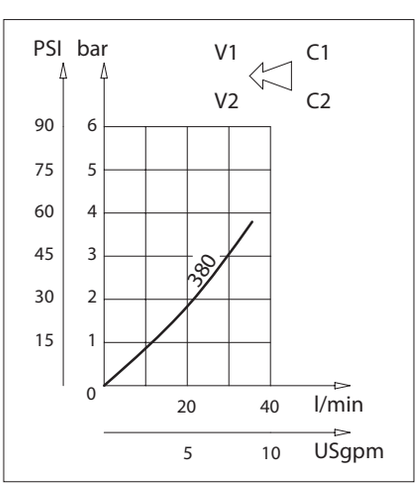
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

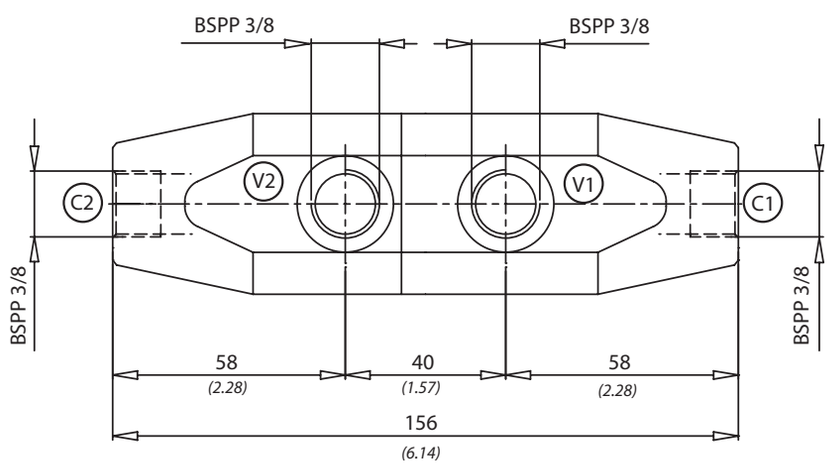
It is necessary a filter use to protect the valve (advised filtration 15 micron)



Perdite di carico *Pressure drops*







mm
(Inches)

Caratteristiche tecniche *Technical performances*

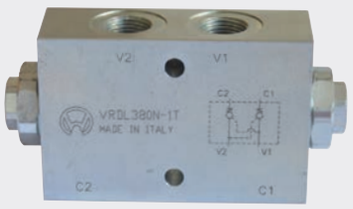
Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo / Kg *Approx weight / lb*	Rapporto di pilotaggio *Pilot ratio*
VRDP 3801	**35** *(9)*	**320** *(4500)*	**1,42** *(3.15)*	**1:4**

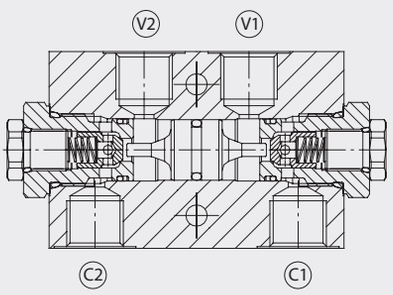
Codice ordinazione *Ordering code*

VRDP-3801

VRDL

Valvole di blocco pilotate a doppio effetto
Double acting pilot check valves



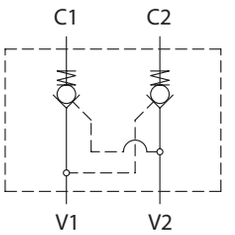


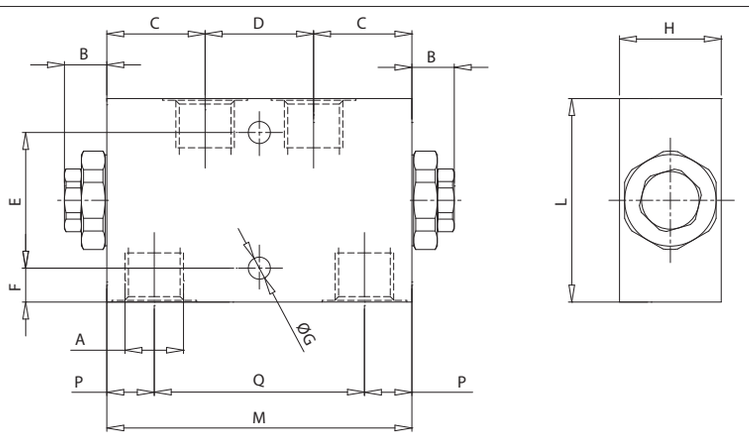
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

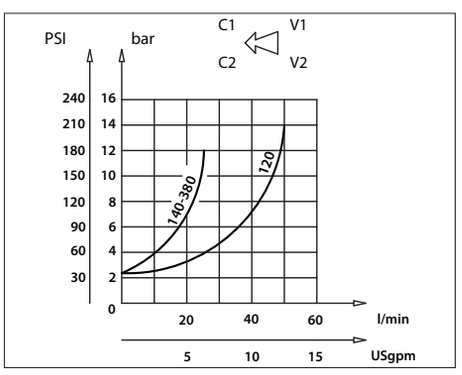
It is necessary a filter use to protect the valve (advised filtration 15 micron)

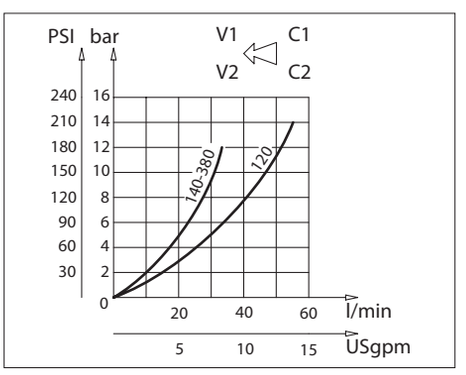




mm
(Inches)

Perdite di carico *Pressure drops*





Codice ordinazione / *Ordering code*

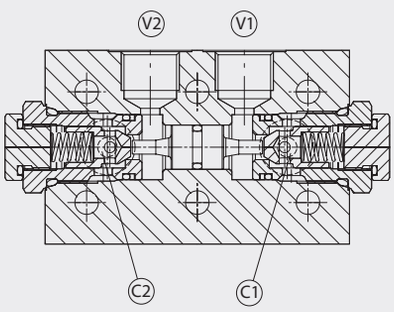
VRDL - X

X	Dimensione / *Size*
140N	**BSPP 1/4**
380N	**BSPP 3/8**
120N	**BSPP 1/2**

Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure bar/PSI*	B	C	D	E	F	G	H	L	M	P	Q	Peso approssimativo *Approx weight* Kg / lb	Rapporto di pilotaggio *Pilot ratio*
VRDL140N	**BSPP 1/4**	**35** *(9)*	**350** *(5000)*	**12,5** *(0.49)*	**29** *(1.14)*	**32** *(1.25)*	**40** *(1.57)*	**10** *(0.39)*	**6,5** *(0.25)*	**30** *(1.18)*	**60** *(2.36)*	**90** *(3.54)*	**14** *(0.55)*	**62** *(2.44)*	**1,2** *(2.6)*	**1:7**
VRDL380N	**BSPP 3/8**															
VRDL120N	**BSPP 1/2**	**50** *(13)*		**14,5** *(0.57)*	**38** *(1.49)*	**34** *(1.33)*		**15** *(0.59)*	**8,5** *(0.33)*	**35** *(1.37)*	**70** *(2.75)*	**110** *(4.33)*	**20,5**(0.80)	**69**(2.71)	**1,9** *(4.2)*	

VRDF Valvole di blocco flangiata a doppio effetto
Double acting pilot check valves-flanged version

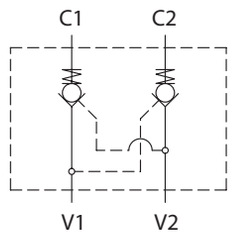


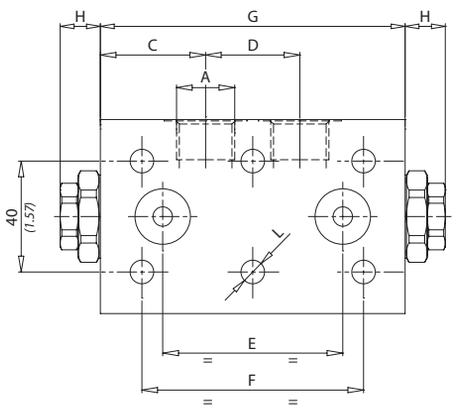
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

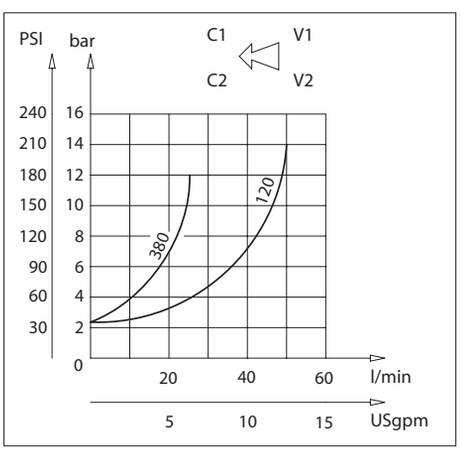
It is necessary a filter use to protect the valve (advised filtration 15 micron)

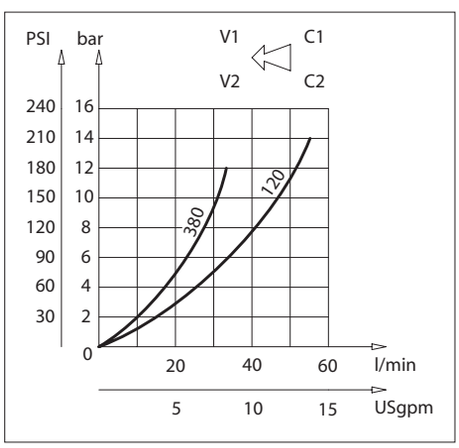




mm
(Inches)

Perdite di carico / *Pressure drops*





Codice ordinazione / *Ordering code*

VRDF -X-Y-K-I

X	Dimensione / *Size*
380	**BSPP 3/8**
120	**BSPP 1/2**

Y	Dimensione / *Size*
1	**1 bar**
6	**6 bar Standard**

K	**O-Ring sul pistone di pilotaggio** *O-ring on pilot piston*
0	**NO o-ring**
1	**Con o-ring** / *With o-ring*

Solo per BSPP1/2 / *For BSPP1/2 only*

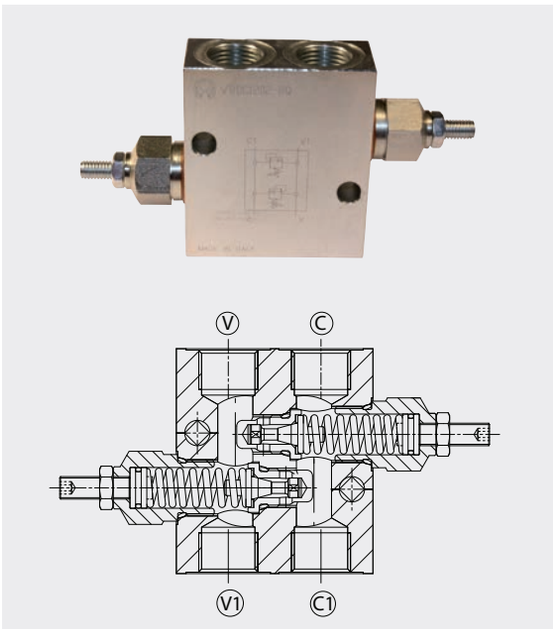
K	**Rapporto di pilotaggio** *Pilot ratio*
32	**1:3,2**
70	**1:7**

Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* *bar/PSI*	B	C	D	E	F	G	H	L	M	O-Ring	Peso approssimativo *Approx weight* Kg / lb	Rapporto di pilotaggio *Pilot ratio*
VRDF380	**BSPP 3/8**	**35** *(9)*	**350** *(5000)*	**60** *(2.36)*	**32** *(1.26)*	**32** *(1.26)*	**62** *(2.44)*	**70** *(2.76)*	**96** *(3.78)*	**10** *(0.39)*	**6.5** *(0.26)*	**34** *(1.34)*	**9.19** x **2.62**	**1,15** *(2.53)*	**1:7**
VRDF120	**BSPP 1/2**	**50** *(13)*		**70** *(2.76)*	**38** *(1.49)*	**34** *(1.34)*	**65** *(2.56)*	**80** *(3.15)*	**110** *(4.33)*	**14.5** *(0.57)*	**8.5** *(0.33)*		**15.54** x **2.62**	**1,85** *(4)*	**1:3,2** **1:7**

VBDC

Valvole antiurto doppie incrociate
Double cross line direct acting relief valves

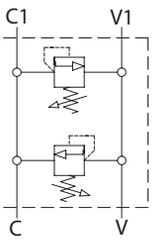


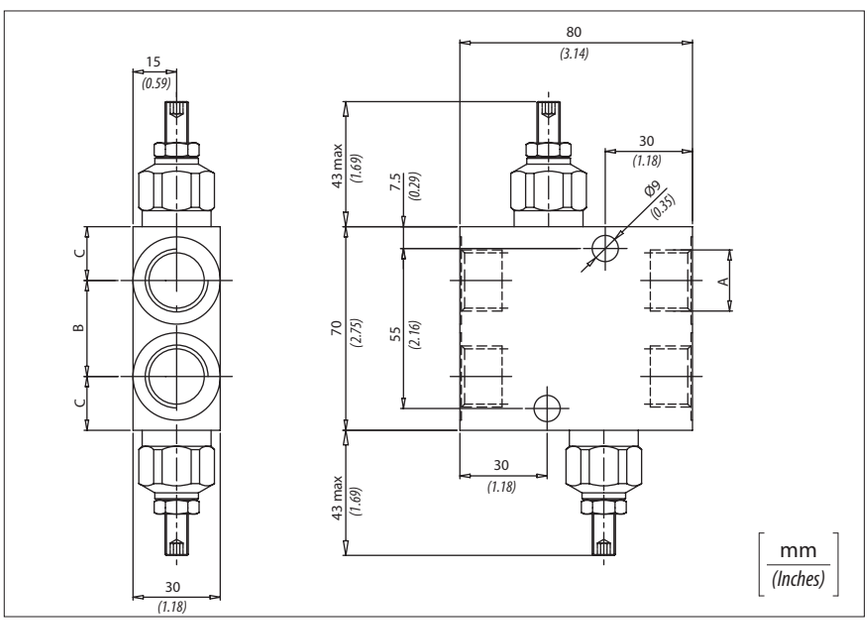
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





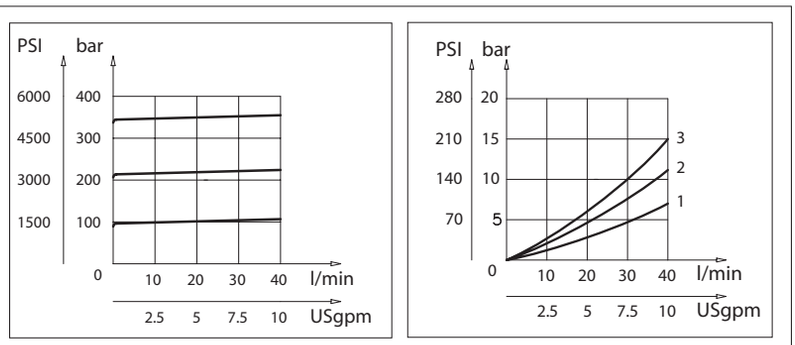
Codice ordinazione / *Ordering code*

VBDC - X - Y

X	Dimensione / *Size*
380	**BSPP 3/8**
120	**BSPP 1/2**

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/90 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/210 bar** *(290/3000 PSI)* max	**30 bar/al giro** *(435 PSI/turn)*
3	**70/350 bar** *(1000/5000 PSI)* max	**65 bar/al giro** *(940 PSI/turn)*

Perdite di carico
Pressure drops

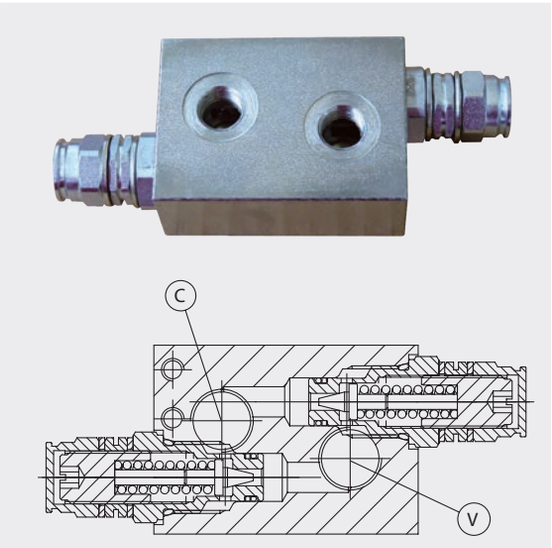


Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	B	C	Peso approssimativo / Kg *Approx weight / lb*	Valvola tipo *Type of valve*
VBDC380	**BSPP 3/8**	**40** *(10.5)*	**350** *(5000)*	**28** *(1.10)*	**21** *(0.83)*	**1,2** *(2.65)*	**VMD40**
VBDC120	**BSPP 1/2**			**33** *(1.30)*	**18,5** *(0.73)*		

DCA

Valvole antiurto doppie incrociate
Double cross line direct acting relief valves

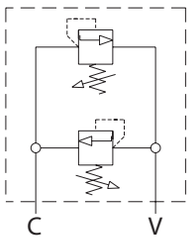


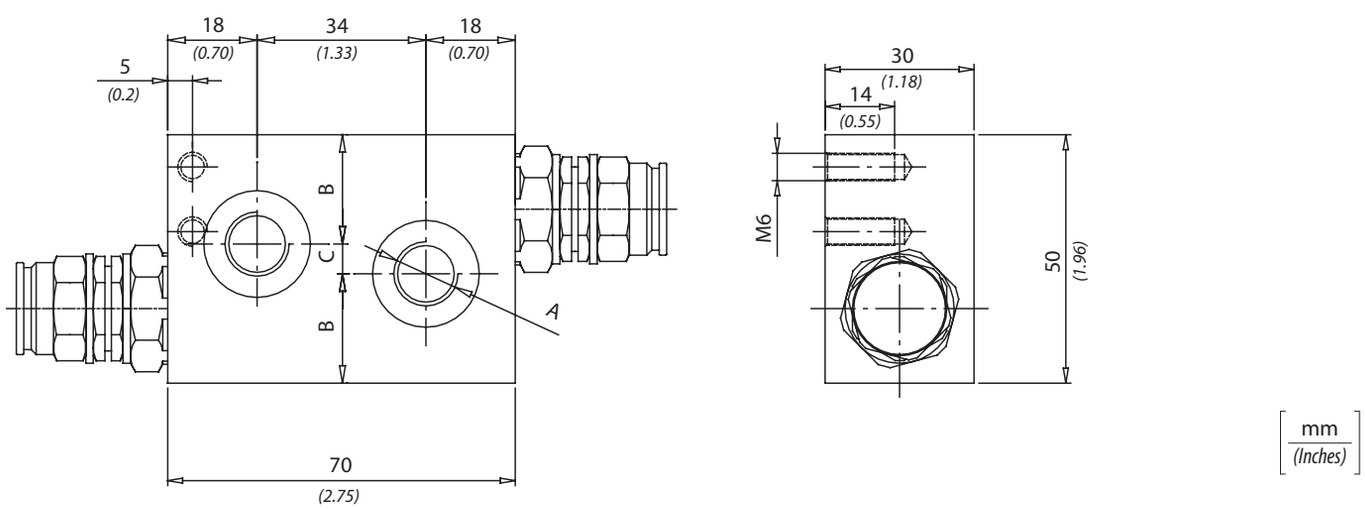
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

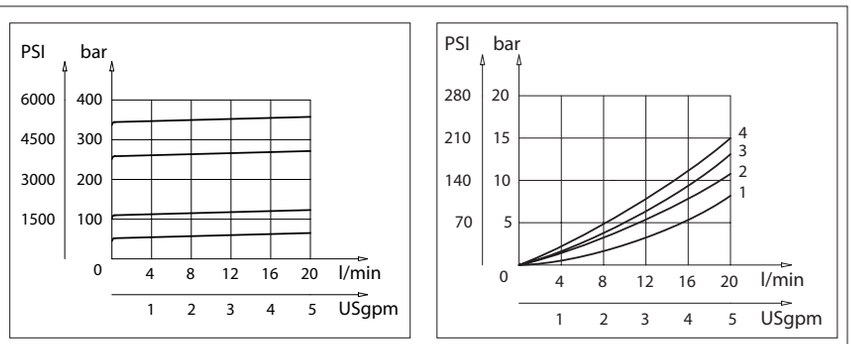
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





Perdite di carico
Pressure drops



Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	B	C	Peso approssimativo / Kg *Approx weight / lb*	Valvola tipo *Type of valve*
DCA140	**BSPP1/4**	**20** *(5.3)*	**350** *(5000)*	**22** *(0.87)*	**6** *(0.24)*	**0,8** *(1.8)*	**VMD1**
DCA380	**BSPP 3/8**			**20** *(0.79)*	**10** *(0.39)*		

Codice ordinazione / *Ordering code*

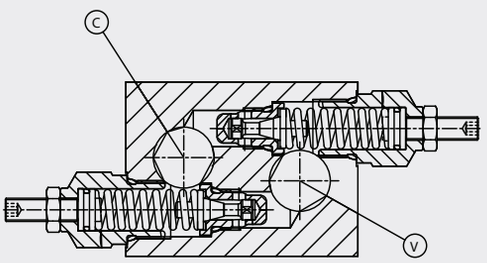
DCA - X - Y

X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/40 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/110 bar** *(290/3000 PSI)* max	**35 bar/al giro** *(500 PSI/turn)*
3	**30/210 bar** *(435/3000 PSI)* max	**65 bar/al giro** *(940 PSI/turn)*
4	**40/350 bar** *(580/5000 PSI)* max	**120 bar/al giro** *(1740 PSI/turn)*

DCL

Valvole antiurto doppie incrociate
Double cross line direct acting relief valves

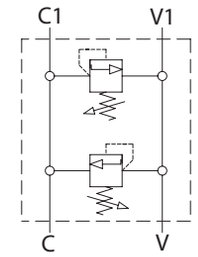


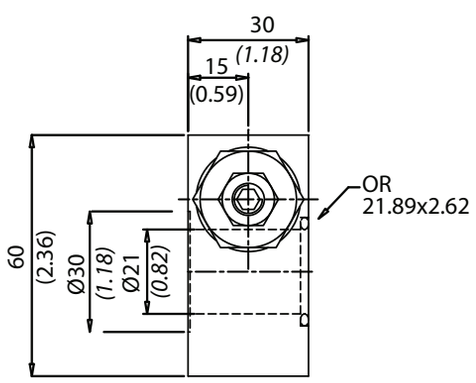
Dati tecnici
Technical data

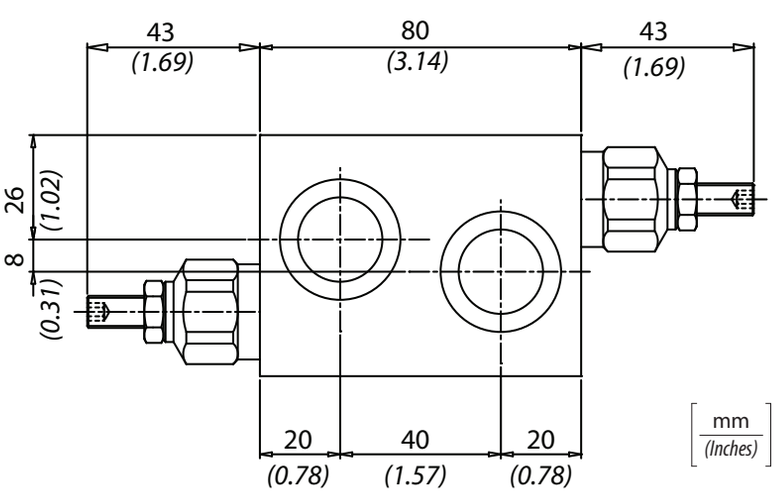
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)







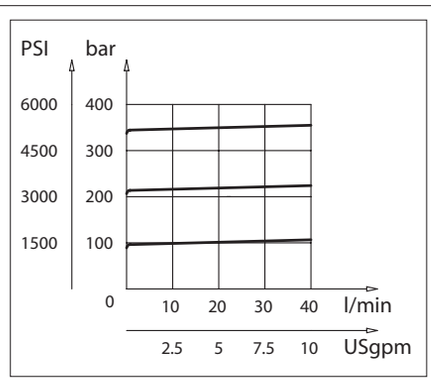
Codice ordinazione / *Ordering code*

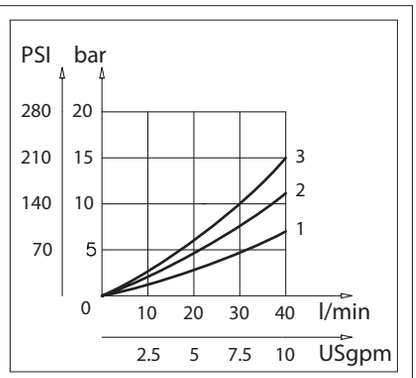
DCL - X - Y

X	Dimensione / *Size*
120	**BSPP 1/2**

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/90 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/210 bar** *(290/3000 PSI)* max	**30 bar/al giro** *(435 PSI/turn)*
3	**70/350 bar** *(1000/5000 PSI)* max	**65 bar/al giro** *(940 PSI/turn)*

Perdite di carico / *Pressure drops*

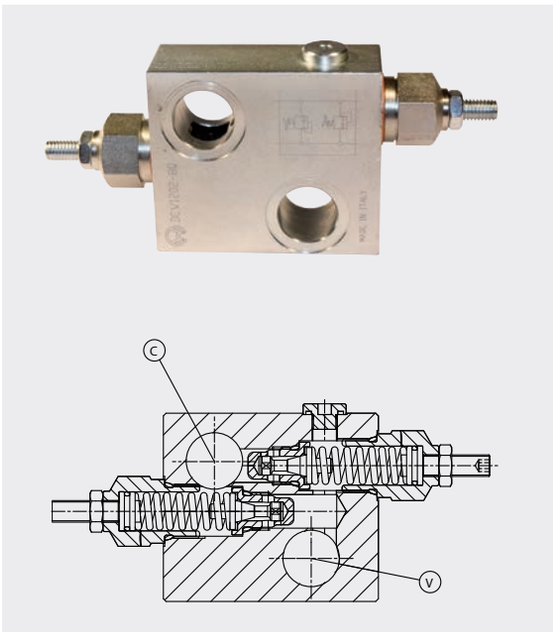




Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo / Kg *Approx weight / lb*	Valvola tipo *Type of valve*
DCL120	**BSPP 1/2**	**40** *(10.5)*	**350** *(5000)*	**1,5** *(3.3)*	**VMD40**

DCV Valvole antiurto doppie incrociate
Double cross line direct acting relief valves

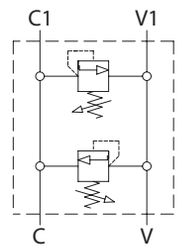


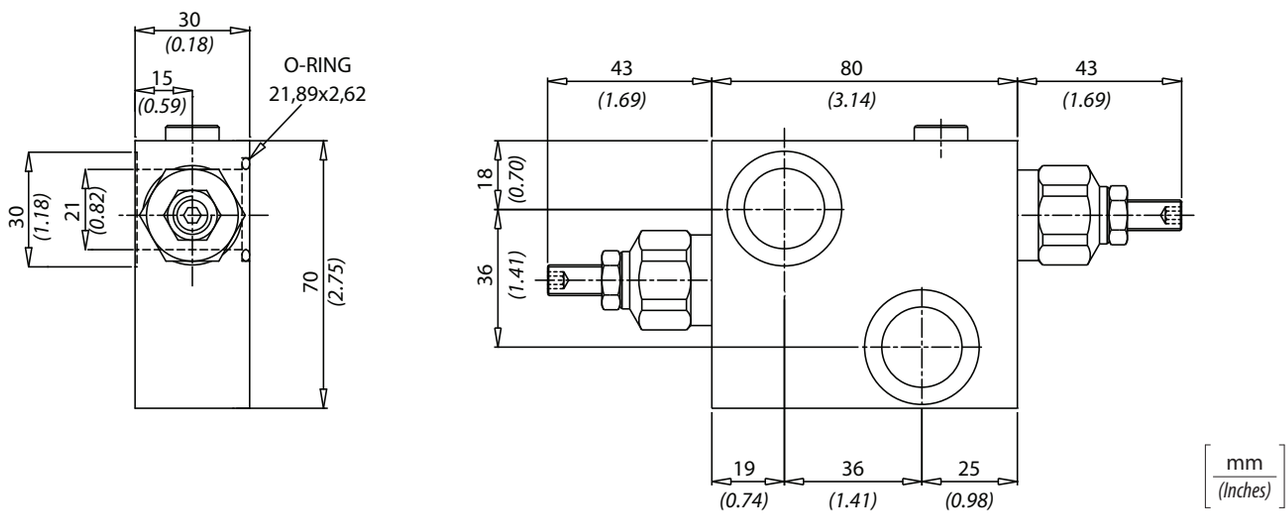
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





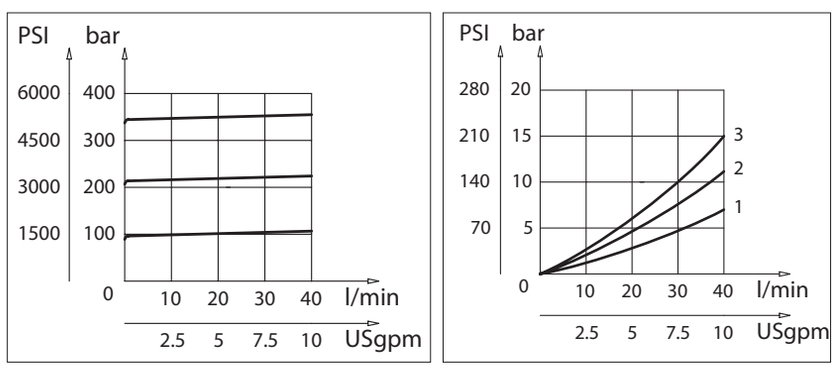
Codice ordinazione / *Ordering code*

DCV - X - Y

X	Dimensione / *Size*
120	**BSPP 1/2**

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/90 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/210 bar** *(290/3000 PSI)* max	**30 bar/al giro** *(435 PSI/turn)*
3	**70/350 bar** *(1000/5000 PSI)* max	**65 bar/al giro** *(940 PSI/turn)*

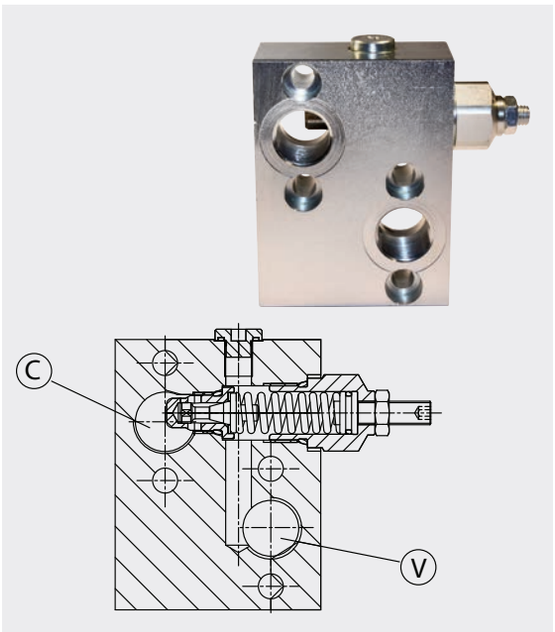
Perdite di carico / *Pressure drops*



Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo / Kg *Approx weight / lb*	Valvola tipo *Type of valve*
DCV120	**BSPP 1/2**	**40** *(10.5)*	**350** *(5000)*	**1,2** *(2.7)*	**VMD40**

SCF Valvole antiurto singola
Single line direct acting relief valve

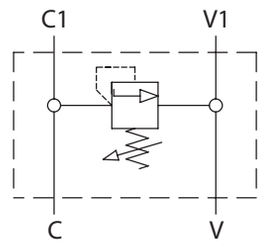


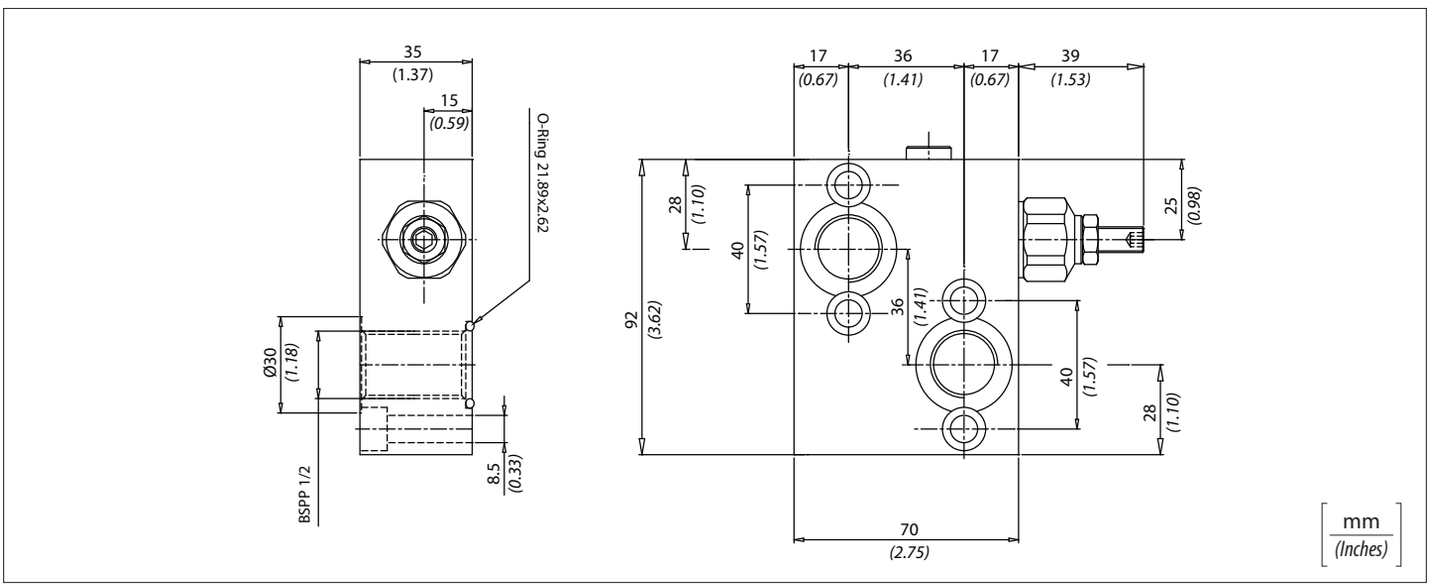
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





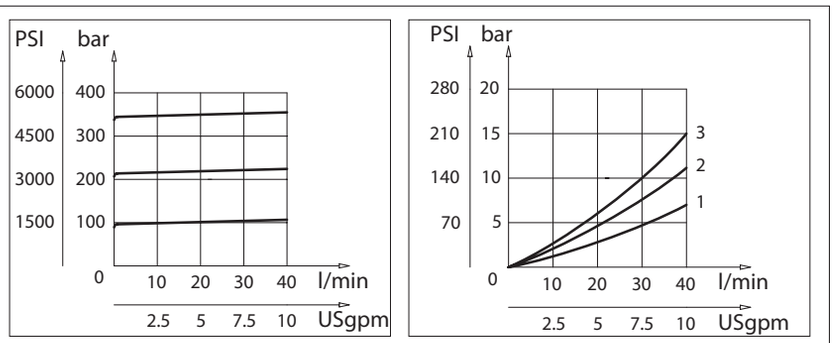
Codice ordinazione / *Ordering code*

SCF - X - Y

X	Dimensione / *Size*
120	**BSPP 1/2**

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/90 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/210 bar** *(290/3000 PSI)* max	**30 bar/al giro** *(435 PSI/turn)*
3	**70/350 bar** *(1000/5000 PSI)* max	**65 bar/al giro** *(940 PSI/turn)*

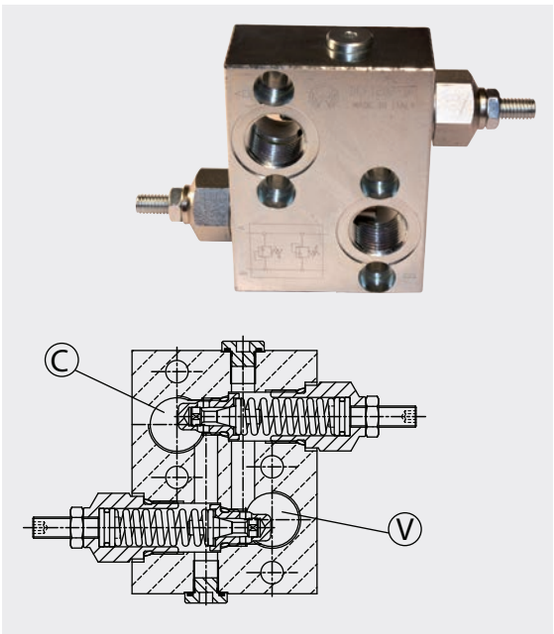
Perdite di carico / *Pressure drops*



Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo / Kg *Approx weight / lb*	Valvola tipo *Type of valve*
SCF120	**BSPP 1/2**	**40** *(10.5)*	**350** *(5000)*	**1,5** *(3.3)*	**VMD40**

DCF Valvole antiurto doppie incrociate
Double cross line direct acting relief valves

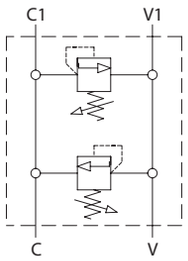


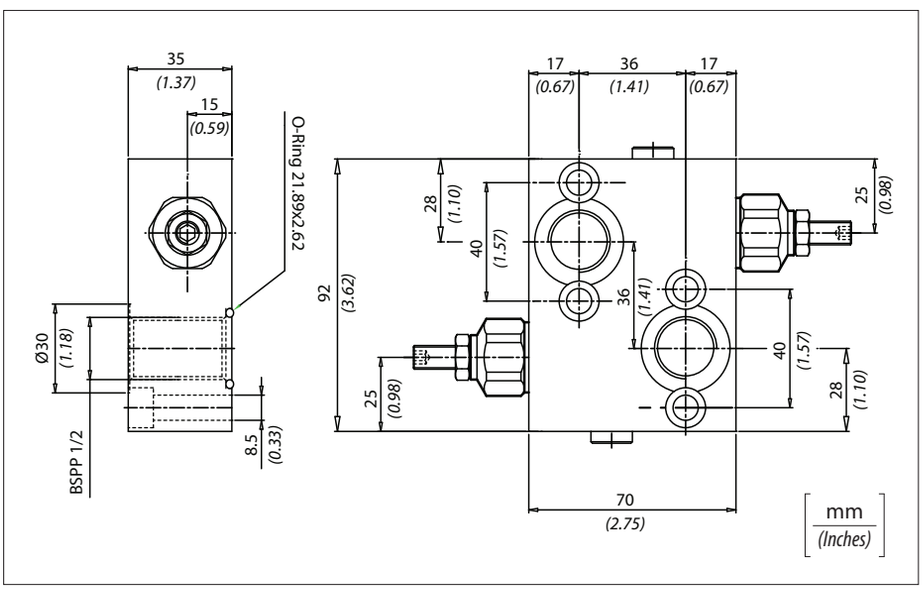
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

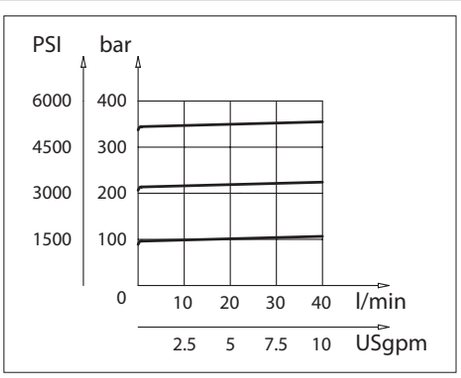
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

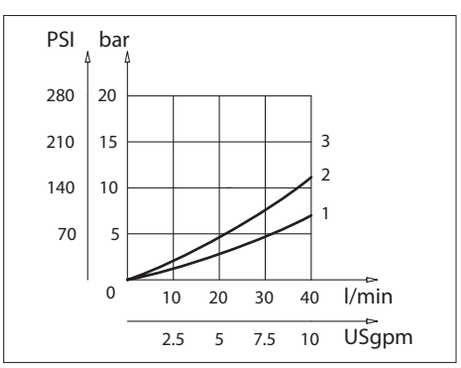
It is necessary a filter use to protect the valve (advised filtration 15 micron)





Perdite di carico *Pressure drops*





Codice ordinazione / *Ordering code*

DCF - X - Y

X	Dimensione / *Size*
120	**BSPP 1/2**
7814	**7/8 14UNF**
2215	**M22X1.5**

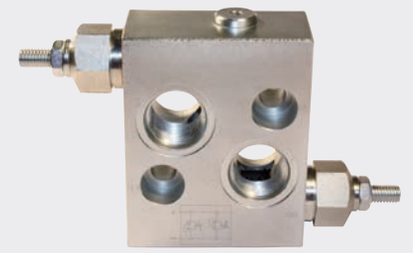
Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/40 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/210 bar** *(290/3000 PSI)* max	**30 bar/al giro** *(435 PSI/turn)*
3	**70/350 bar** *(1000/5000 PSI)* max	**65 bar/al giro** *(940 PSI/turn)*

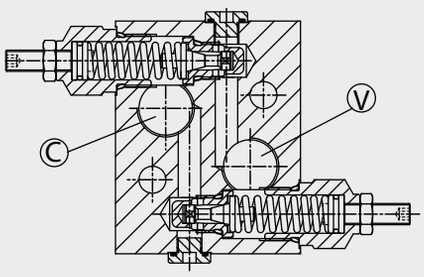
Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo / Kg *Approx weight / lb*	Valvola tipo *Type of valve*
DCF120	**BSPP 1/2**	**40** *(10.5)*	**350** *(5000)*	**1,5** *(3.3)*	**VMD40**
DCF7814	**7/8 - 14 UNF**				
DCF2215	**M22 x 1,5**				

DCM

Valvole antiurto doppie incrociate
Double cross line direct acting relief valves



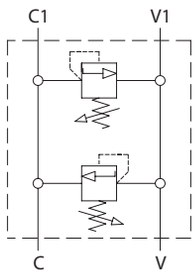


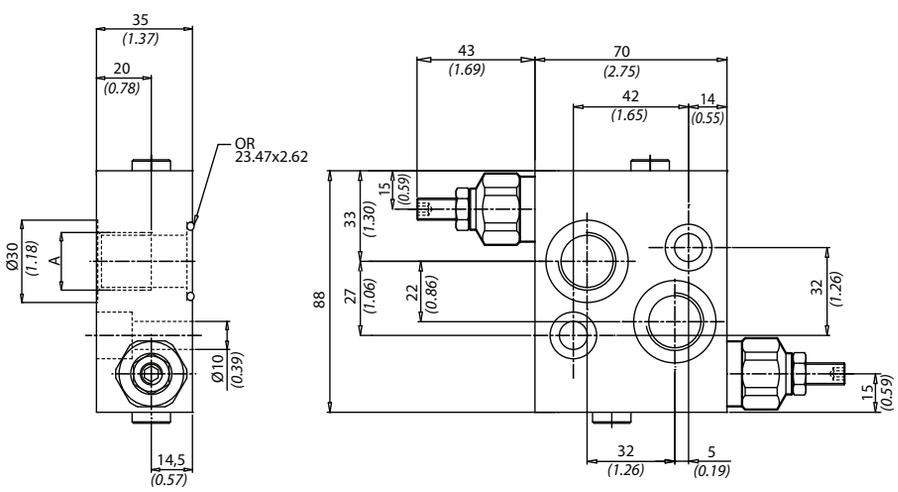
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





mm
(Inches)

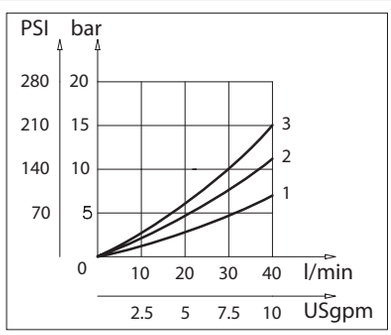
Codice ordinazione / *Ordering code*

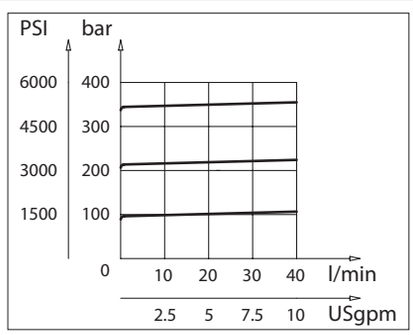
DCM - X - Y

X	Dimensione / *Size*
120	**BSPP 1/2**
7814	**7/8 14UNF**
2215	**M22X1.5**

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/40 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/210 bar** *(290/3000 PSI)* max	**30 bar/al giro** *(435 PSI/turn)*
3	**70/350 bar** *(1000/5000 PSI)* max	**65 bar/al giro** *(940 PSI/turn)*

Perdite di carico / *Pressure drops*

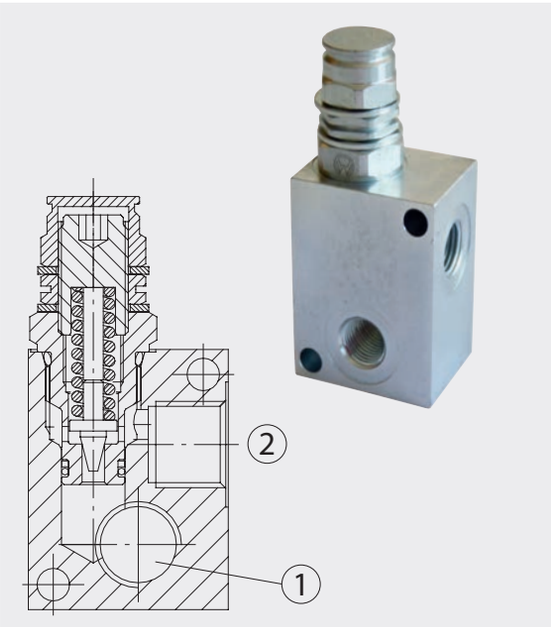




Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo / Kg *Approx weight / lb*	Valvola tipo *Type of valve*
DCM120	**BSPP 1/2**	**40** *(10.5)*	**350** *(5000)*	**1,5** *(3.3)*	**VMD40**
DCM7814	**7/8 - 14 UNF**				
DCM2215	**M22 x 1,5**				

VMDR1 Valvole di massima pressione in linea
Direct acting relief valves

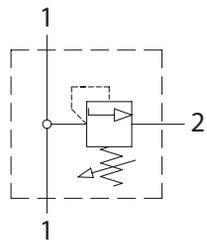


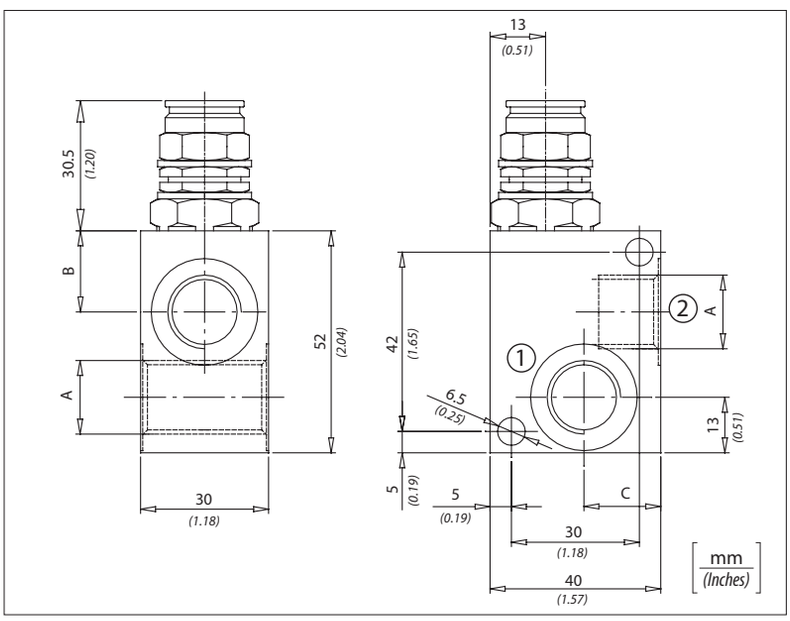
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



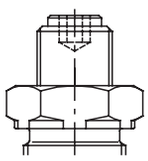


Codice ordinazione / *Ordering code*

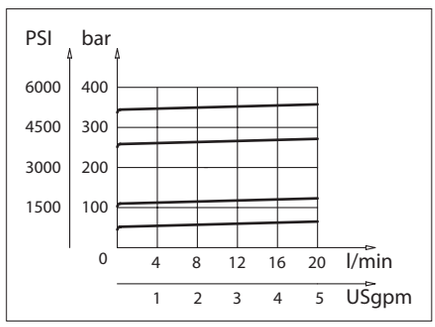
VMDR1 -X-Y-K

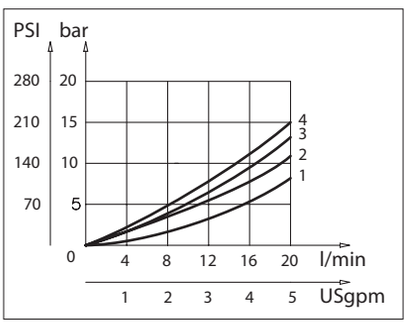
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**

K	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/40 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/110 bar** *(290/1600 PSI)* max	**35 bar/al giro** *(500 PSI/turn)*
3	**30/210 bar** *(435/3000 PSI)* max	**65 bar/al giro** *(900 PSI/turn)*
4	**40/350 bar** *(580/5000 PSI)* max	**120 bar/al giro** *(1740 PSI/turn)*

Y	Regolazione / *Setting*
C	

Perdite di carico *Pressure drops*

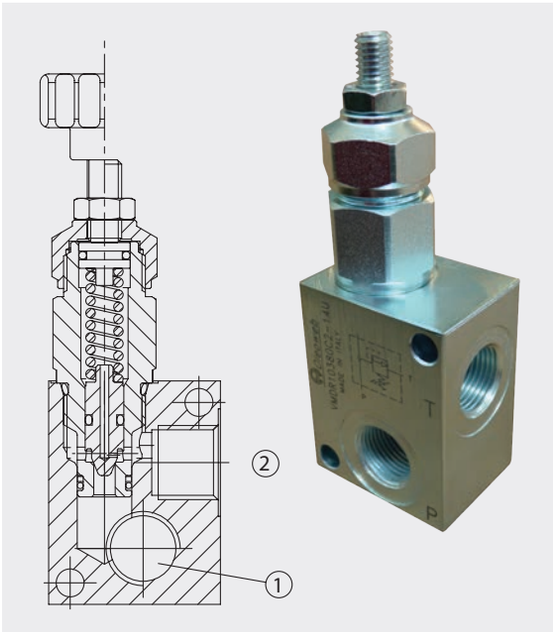




Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	B	C	Peso approssimativo / Kg *Approx weight / lb*
VMDR1140	**BSPP1/4**	**20** *(5)*	**350** *(5000)*	**17** *(0.67*	**20** *(0.78)*	**0,45** *(0.99)*
VMDR1380	**BSPP 3/8**			**19** *(0.75)*	**18** *(0.71)*	

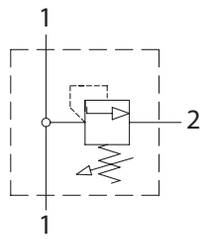
VMDR10 Valvole di massima pressione in linea
Direct acting relief valves

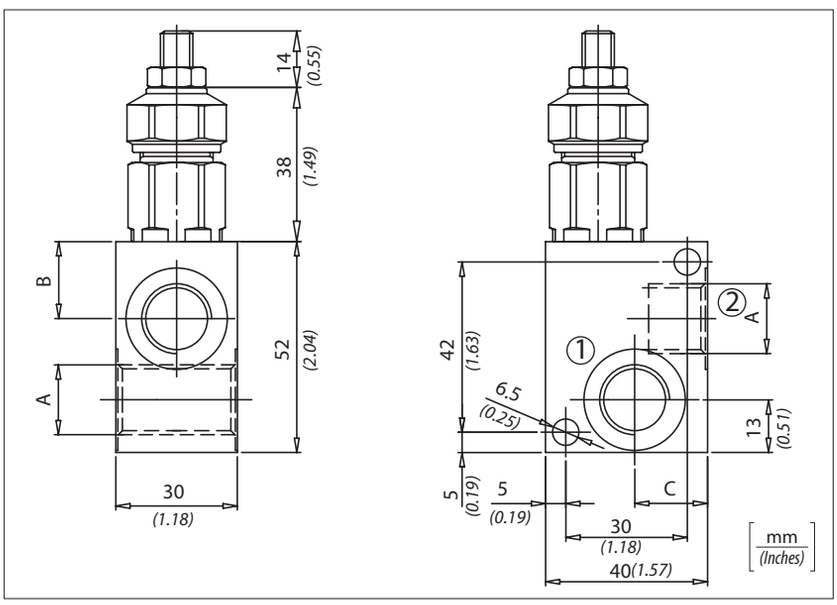


Dati tecnici *Technical data*		
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



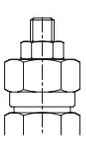
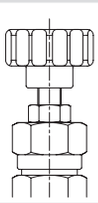


Codice ordinazione / *Ordering code*

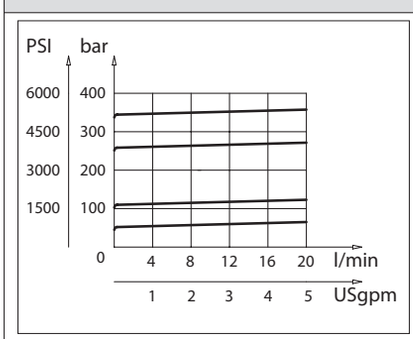
VMDR10 -X-Y-K

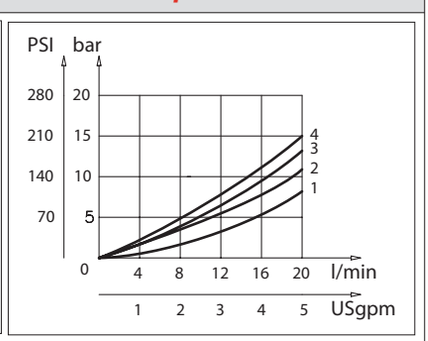
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**

K	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/40 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/110 bar** *(290/1600 PSI)* max	**35 bar/al giro** *(500 PSI/turn)*
3	**30/210 bar** *(435/3000 PSI)* max	**62 bar/al giro** *(900 PSI/turn)*
4	**40/350 bar** *(580/5000 PSI)* max	**120 bar/al giro** *(1740 PSI/turn)*

Y	Regolazione / *Setting* Codice/ *Code* **81300109**
C	
V	

Perdite di carico *Pressure drops*

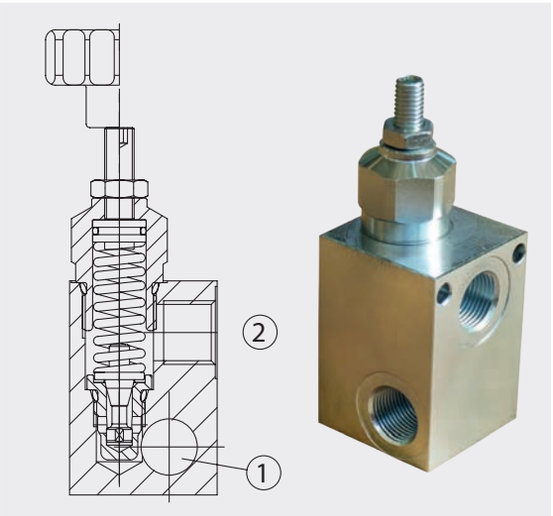




Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	B	C	Peso approssimativo / Kg *Approx weight / lb*
VMDR10140	**BSPP1/4**	**20** *(5)*	**350** *(5000)*	**17** *(0.67)*	**20** *(0.78)*	**0,50** *(1.1)*
VMDR10380	**BSPP 3/8**			**19** *(0.75)*	**18** *(0.71)*	

VMDR40 Valvole di massima pressione in linea
Direct acting relief valves

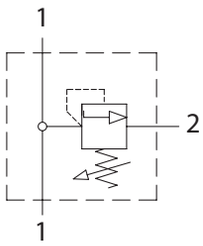


Dati tecnici
Technical data

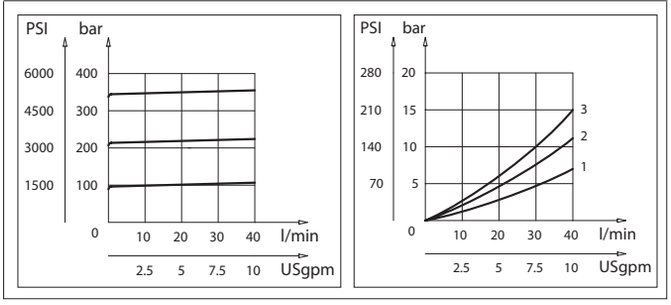
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



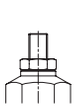
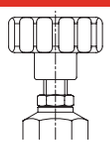
Perdite di carico / *Pressure drops*



Codice ordinazione / *Ordering code*

VMDR40 - X - Y - K

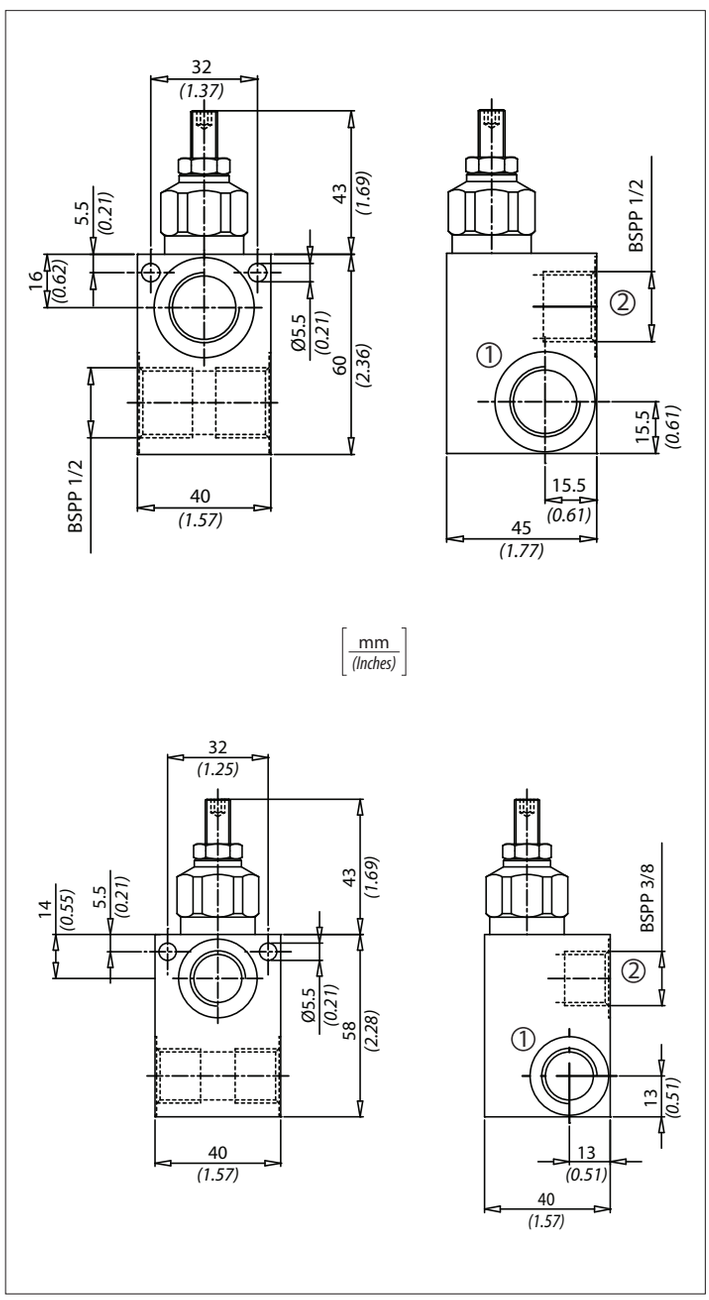
X	Dimensione / *Size*
380	**BSPP 3/8**
120	**BSPP 1/2**

Y	Regolazione / *Setting*	Codice / *Code* **81300109**
C		V 

K	Molla / *Spring*	Incremento pressione al giro *Press. increase*
1	**10/90 bar** / *(145/600 PSI)* max	**12 bar/al giro** / *(175 PSI/turn)*
2	**20/210 bar** / (290/*3000 PSI)* max	**30 bar/al giro** / *(435 PSI/turn)*
3	**70/350 bar** / *(1000/5000 PSI)* max	**65 bar/al giro** / *(940 PSI/turn)*

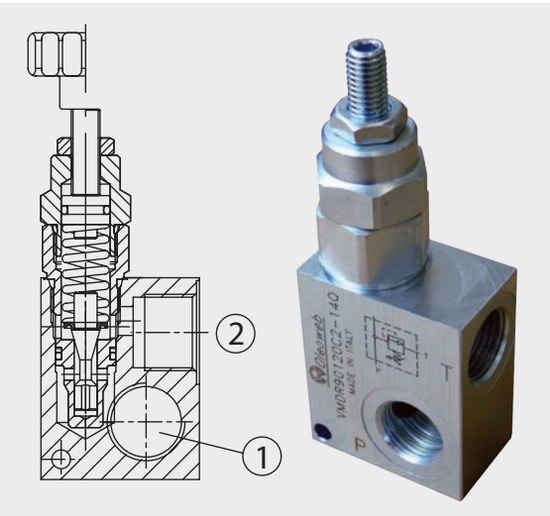
Caratteristiche tecniche / *Technical performances*

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo / Kg *Approx weight / lb*
VMDR40380	**40** *(10)*	**300** *(4350)*	**0,65** *(1.43)*
VMDR40120			**0,68** *(1.50)*



VMDR90

Valvole di massima pressione in linea
Direct acting relief valves

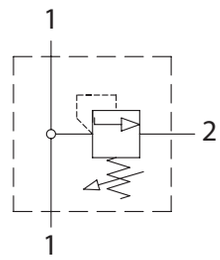


Dati tecnici / *Technical data*

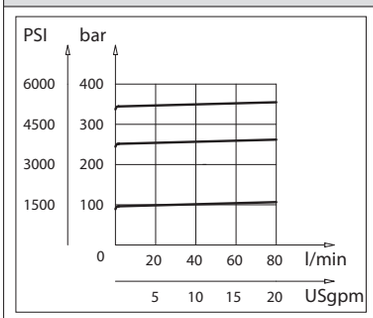
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

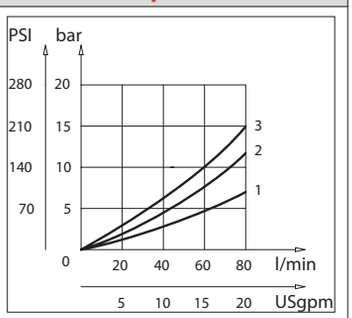
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



Perdite di carico / *Pressure drops*



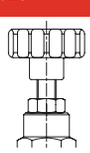


Codice ordinazione / *Ordering code*

VMDR90 - X - Y - K

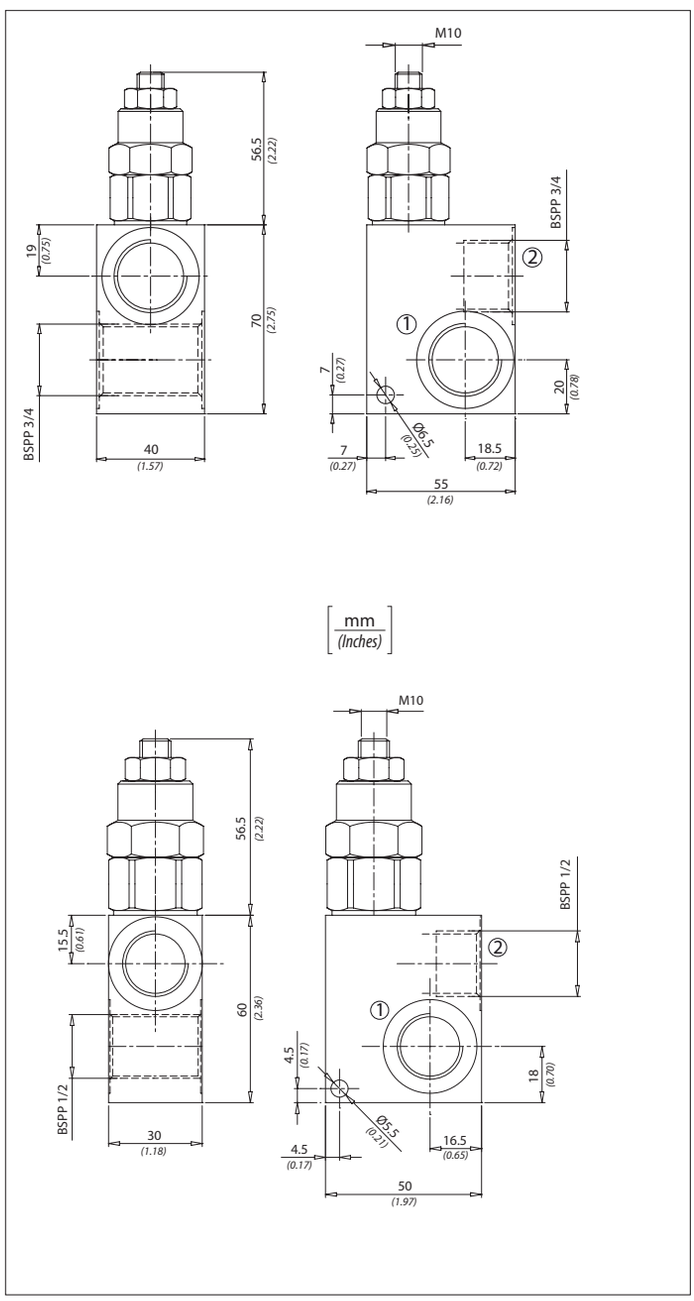
X	Dimensione / *Size*
120	**BSPP 1/2**
340	**BSPP 3/4**

K	Molla / *Spring*	Incremento pressione al giro *Press. increase*
1	**10/100 bar** / *(145/1450 PSI)* max	**23 bar/al giro** / *(333 PSI/turn)*
2	**20/250 bar** / (290/*3600 PSI)* max	**40 bar/al giro** / *(580 PSI/turn)*
3	**50/350 bar** / *(725/5000 PSI)* max	**90 bar/al giro** / *(1300 PSI/turn)*

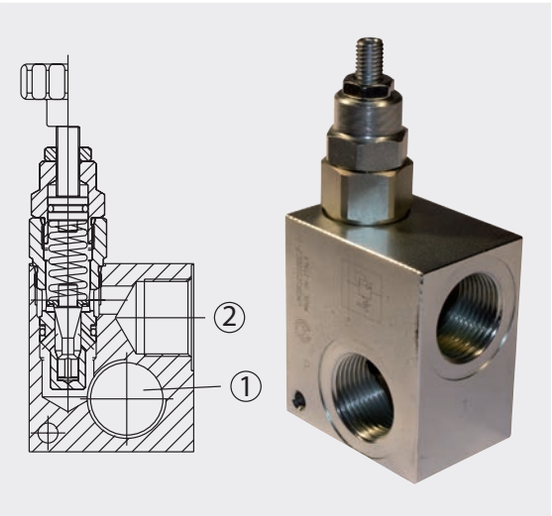
Y	Regolazione / *Setting*	Codice / *Code* **81300023**	
C		V	

Caratteristiche tecniche / *Technical performances*

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo / Kg *Approx weight / lb*
VMDR90120	**80** *(20)*	**350** *(5000)*	**0,67** *(1.5)*
VMDR90340			**1** *(2.2)*



VMDR120 Valvole di massima pressione in linea
Direct acting relief valves

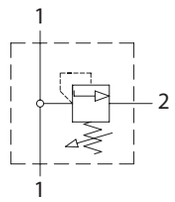


Dati tecnici
Technical data

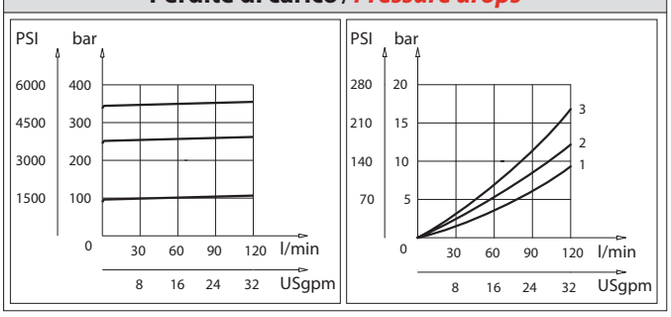
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



Perdite di carico / *Pressure drops*

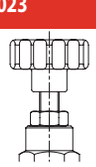


Codice ordinazione / *Ordering code*

VMDR120 - X - Y - K

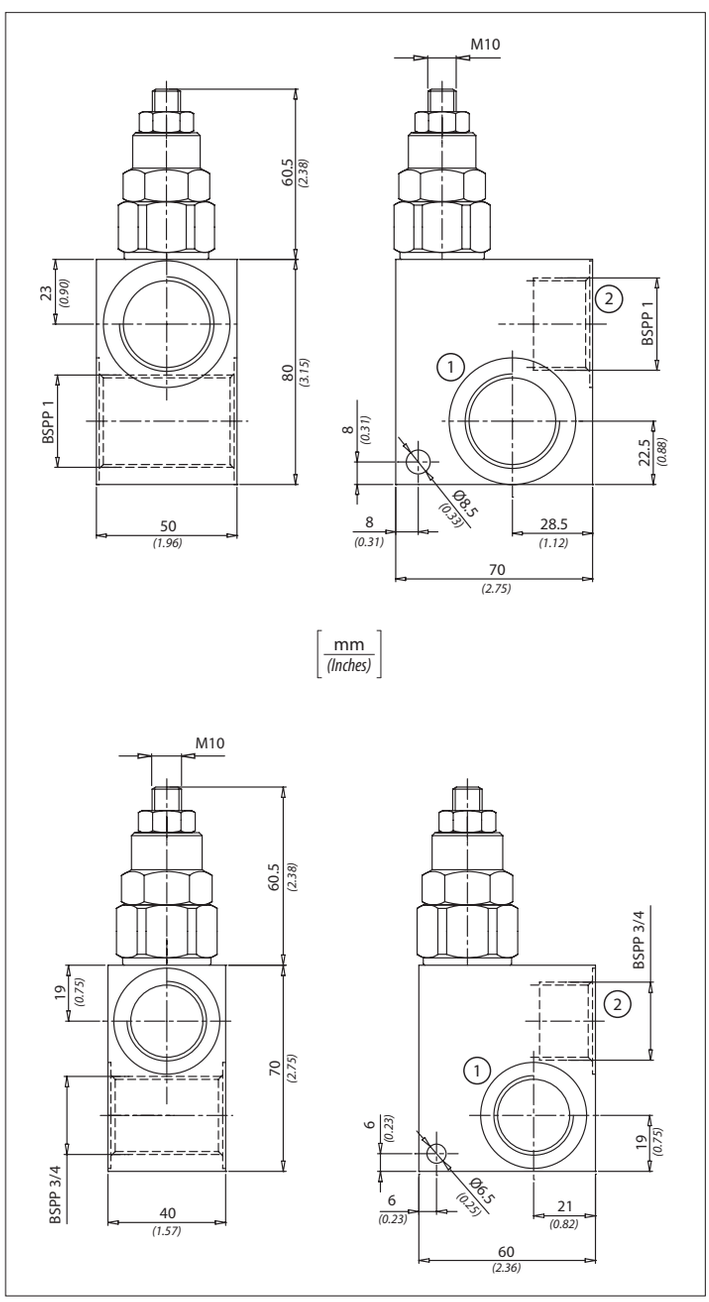
X	Dimensione / *Size*
340	**BSPP 3/4**
100	**BSPP 1**

K	Molla / *Spring*	Incremento pressione al giro *Press. increase*
1	**10/100 bar** / *(145/1450 PSI)* max	**20 bar/al giro** / *(290 PSI/turn)*
2	**20/250 bar** / (290/*3600 PSI)* max	**45 bar/al giro** / *(652 PSI/turn)*
3	**40/350 bar** / *(580/5000 PSI)* max	**50 bar/al giro** / *(725 PSI/turn)*

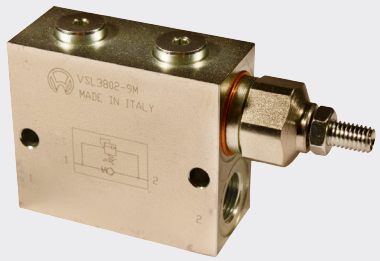
Y	Regolazione / *Setting*	Codice / *Code* **81300023**	
C		V	

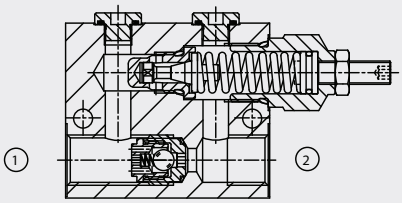
Caratteristiche tecniche / *Technical performances*

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo / Kg *Approx weight / lb*
VMDR120340	**120** *(30)*	**350** *(5000)*	**1,6** *(3.52)*
VMDR120100			**1,72** *(3.8)*



VSL
Valvole di sequenza dirette
In-line direct sequence valves



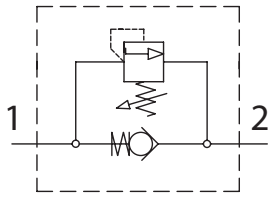


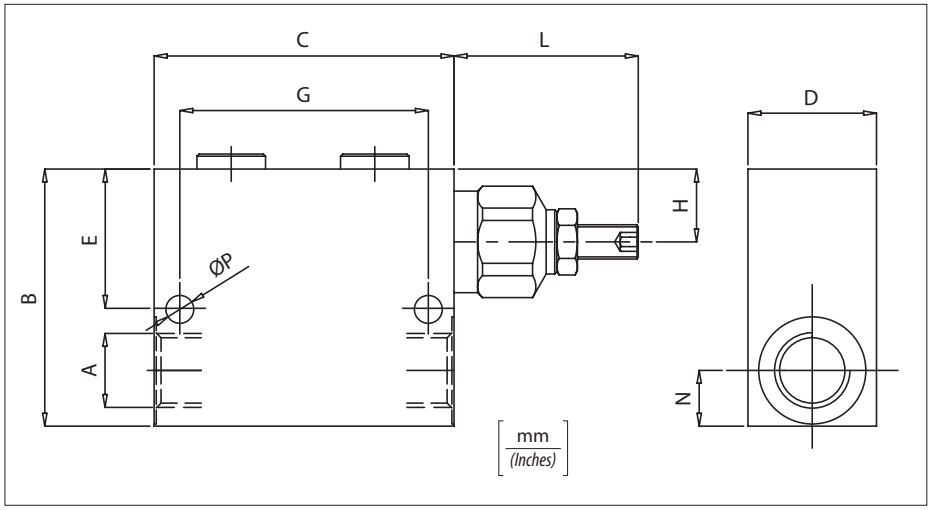
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





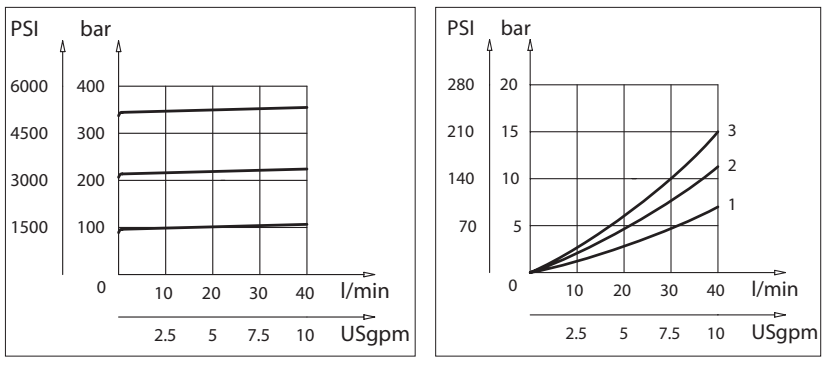
Codice ordinazione / *Ordering code*

VSL - X - K

X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP1/2**

K	Molla / *Spring*	Incremento pressione al giro *Press. increase*
1	**10/90 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/210 bar** *(290/3000 PSI)* max	**30 bar/al giro** *(435 PSI/turn)*
3	**70/350 bar** *(1000/5000 PSI)* max	**65 bar/al giro** *(940 PSI/turn)*

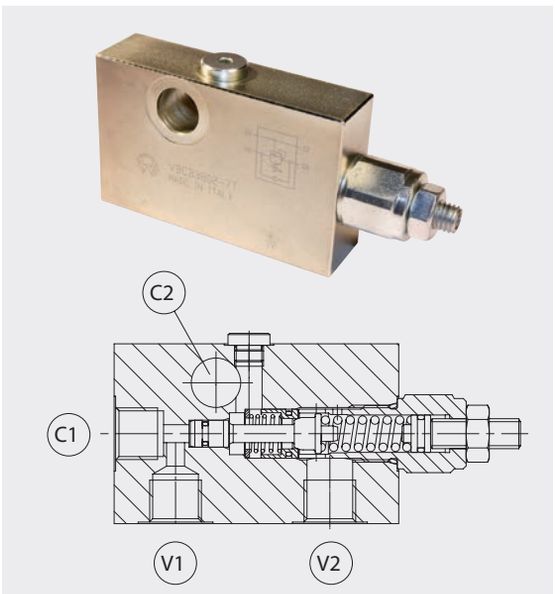
Perdite di carico
Pressure drops



Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* *bar/PSI*	B	C	D	E	G	L	N	H	P	Peso approssimativo *Approx weight* Kg / lb
VSL140	**BSPP 1/4**	**20** *(5)*	**350** *(5000)*	**60** *(2.36)*	**60** *(0.98)*	**25** *(1.18)*	**35.5** *(1.39)*	**49** *(1.93)*	**53** *(2.08)*	**12** *(0.47)*	**20** *(0.78)*	**5.5** *(0.22)*	**0,89** *(2)*
VSL380	**BSPP 3/8**	**40** *(10)*			**70** *(2.76)*	**30** *(1.18)*	**32.5** *(1.28)*	**58** *(2.28)*	**43** *(1.69)*	**13** *(0.51)*	**17** *(0.67)*	**6.5** *(0.26)*	
VSL120	**BSPP 1/2**			**70** *(2.76)*			**35** *(1.38)*			**17** *(0.67)*			**1,2** *(2.70)*

VBCB
Valvole overcenter singola a bullone per centro aperto
Bolt-fitting single counterbalance valves for open center

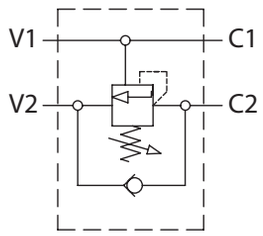


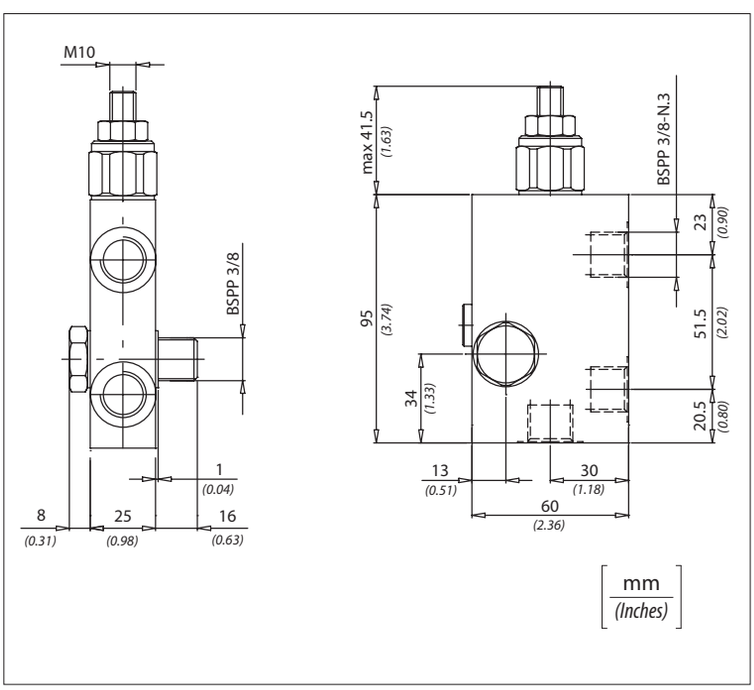
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

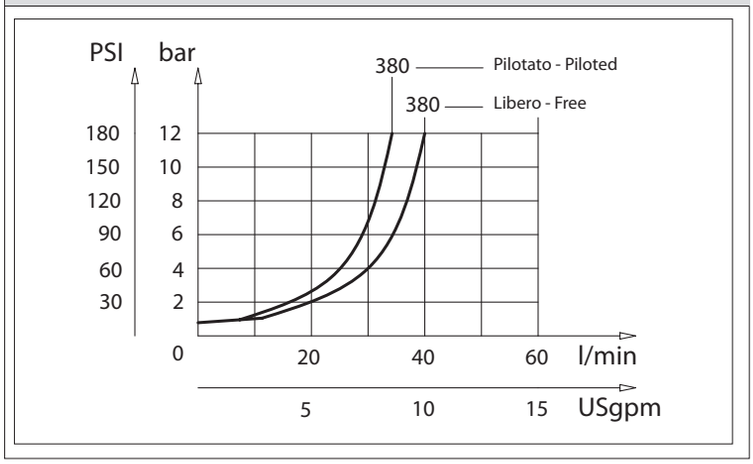
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





Perdite di carico *Pressure drops*



Codice ordinazione / *Ordering code*

VBCB - X - Y - K - I

X	Dimensione / *Size*
380	**BSPP 3/8**

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*	Taratura standard *Std. setting (Q=5 l/min)*
1	**30/210 bar** *(400/3000 PSI)*	**70 bar/al giro** *(1000 PSI/turn)*	**200 bar** *(2900 PSI)*
2	**60/350 bar** *(850/3500 PSI)*	**120 bar/al giro** *(1700 PSI/turn)*	**350 bar** *(5000 PSI)*

K	Materiale / *Material*
S	**Corpo in acciaio** *(Steel body)*

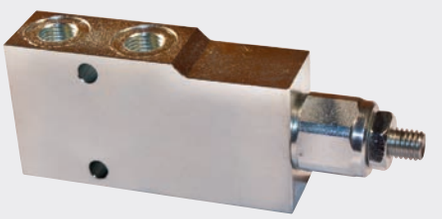
I	Rapporto di pilotaggio / *Pilot ratio*
/	**1:4.25 Standard**
8	**1:8**

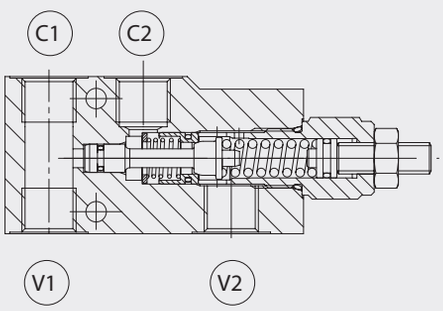
Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo / Kg *Approx weight / lb*
VBCB380	**BSPP 3/8**	**40** *(10.5)*	**350** *(5000)*	**1,1** *(2.5)*

VBCL

Valvole overcenter singole per centro aperto
Single counterbalance valves for open center



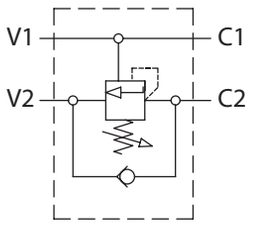


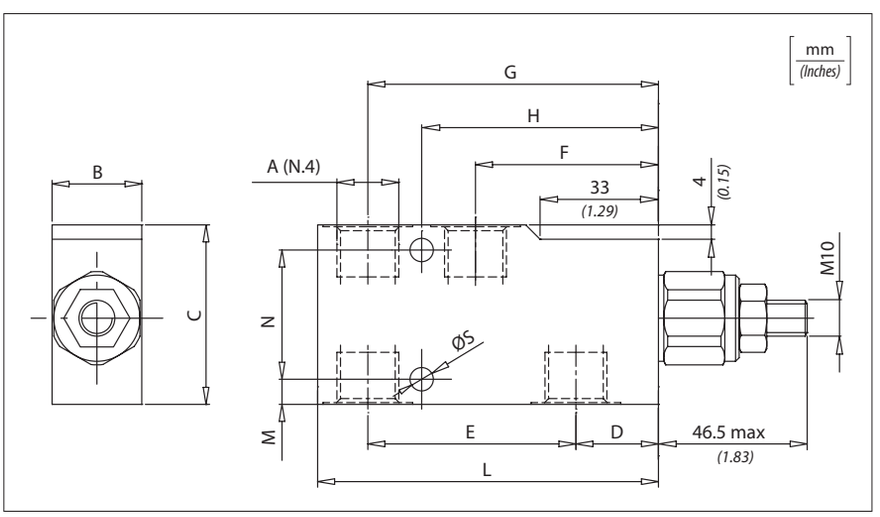
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

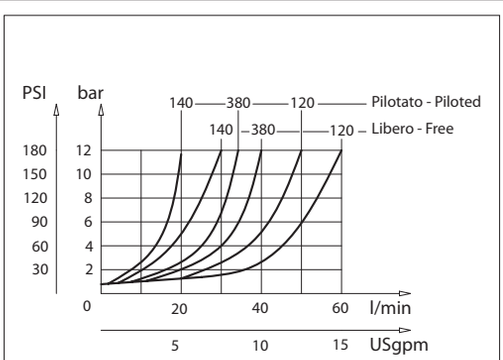
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





Perdite di carico *Pressure drops*



Codice ordinazione / *Ordering code*

VBCL - X - Y - K - I

X	Dimensione *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*	Taratura standard *Std. setting (Q=5 l/min)*
1	30/210 bar *(400/3000 PSI)*	70 bar/al giro *(1000 PSI/turn)*	200 bar *(2900 PSI)*
2	60/350 bar *(850/3500 PSI)*	120 bar/al giro *(1700 PSI/turn)*	350 bar *(5000 PSI)*

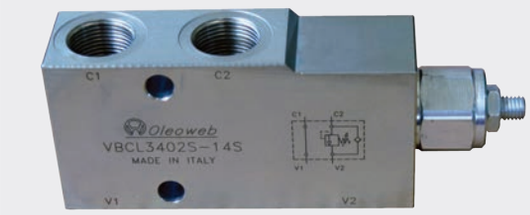
K	Materiale *Material*
S	Corpo in acciaio *(Steel body)*

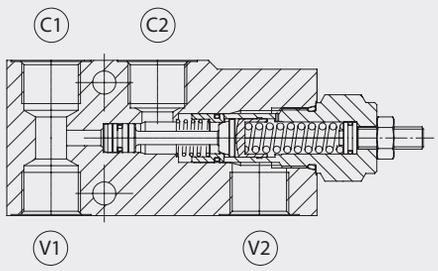
I	Rapporto di pilotaggio *Pilot ratio*
/	1:4.25 Standard
8	1:8

Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	H	L	M	N	S	Peso approssimativo *Approx weight* Kg / lb
VBCL140	**BSPP 1/4**	**30** *(8)*	**350** *(5000)*	**25** *(0.98)*	**50** *(1.97)*	**23** *(0.90)*	**58** *(2.28)*	**51** *(2)*	**81** *(3.19)*	**66** *(2.60)*	**95** *(3.74)*	**7** *(0.27)*	**36** *(1.41)*	**6,5** *(0.26)*	**0,85** *(1.90)*
VBCL380	**BSPP 3/8**	**40** *(10.5)*													
VBCL120	**BSPP 1/2**	**60** *(16)*		**30** *(1.18)*	**60** *(2.36)*	**21** *(0.83)*	**63** *(2.48)*		**84** *(3.30)*	**67,5** *(2.66)*	**100** *(3.94)*	**10** *(0.39)*	**40** *(1.57)*		**1,25** *(2.75)*

VBCL
Valvole overcenter singole per centro aperto
Single counterbalance valves for open center



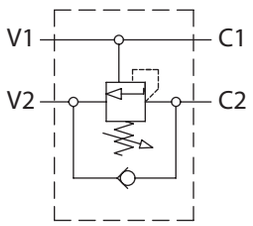


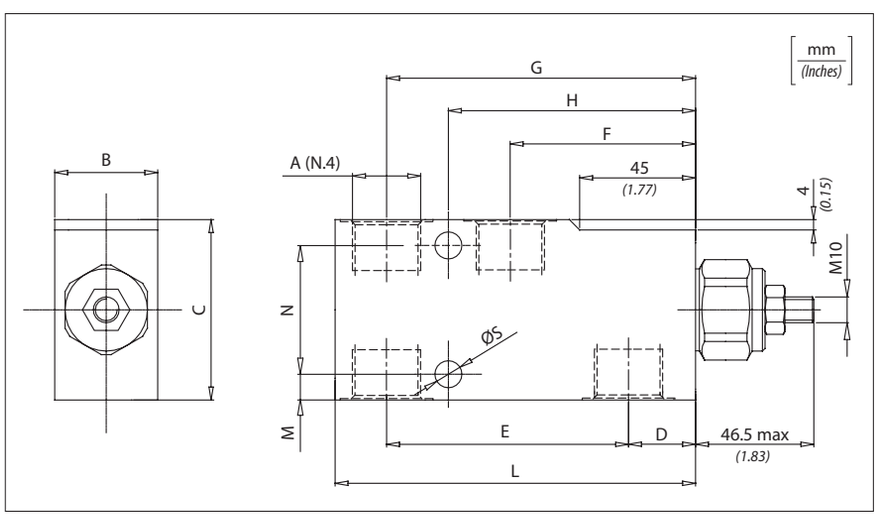
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

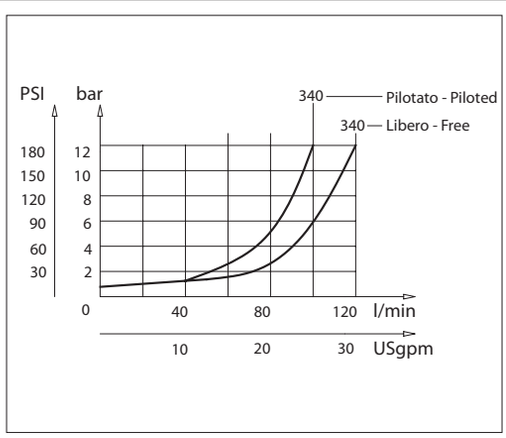
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





Perdite di carico ***Pressure drops***



Codice ordinazione / ***Ordering code***

VBCL - X - Y - K - I

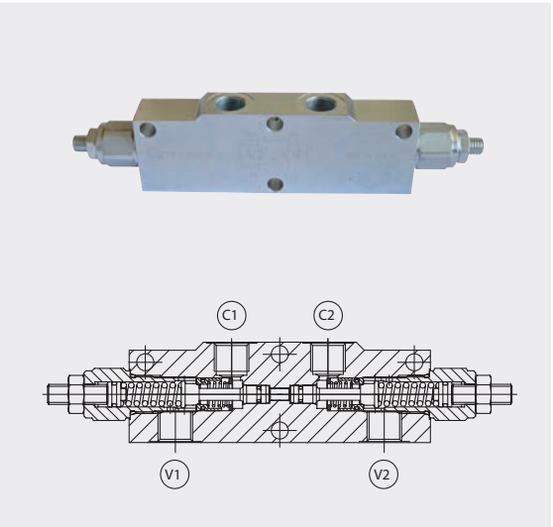
X	Dimensione *Size*	Y	Molla *Spring*	Incremento pressione al giro *Press. increase*	Taratura standard *Std. setting (Q=5 l/min)*	K	Materiale *Material*	Rapporto di pilotaggio *Pilot ratio*
340	BSPP 3/4	2	60/350 bar *(850/3500 PSI)*	120 bar/al giro *(1700 PSI/turn)*	350 bar *(5000 PSI)*	S	Corpo in acciaio *(Steel body)*	1:6.2

Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	H	L	M	N	S	Peso approssimativo *Approx weight* Kg / lb
VBCL340	**BSPP 3/4**	**120** *(31)*	**350** *(5000)*	**40** *(1.57)*	**70** *(2.75)*	**20** *(0.78)*	**94** *(3.7)*	**72** *(2.83)*	**120** *(4.72)*	**96** *(3.78)*	**140** *(5.51)*	**50** *(1.96)*	**10** *(0.39)*	**10,5** *(0.41)*	**3** *(6.6)*

VBCD

Valvole overcenter doppie per centro aperto
Dual counterbalance valves for open center

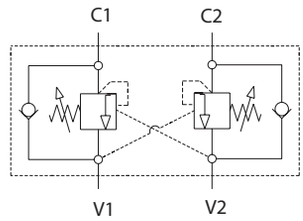


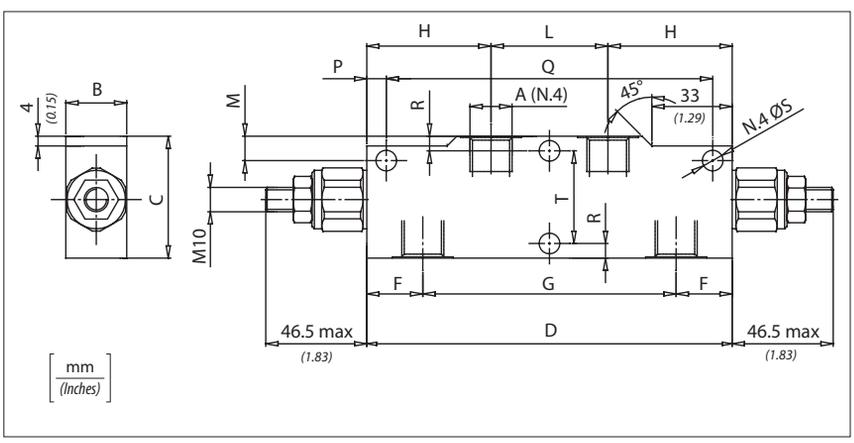
Dati tecnici *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

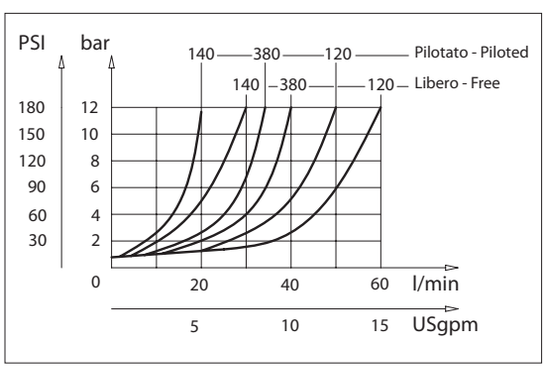
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





Perdite di carico *Pressure drops*



Codice ordinazione / *Ordering code*

VBCD - X - Y - K - I

X	Dimensione *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*	Taratura standard *Std. setting (Q=5 l/min)*
1	30/210 bar *(400/3000 PSI)*	70 bar/al giro *(1000 PSI/turn)*	200 bar *(2900 PSI)*
2	60/350 bar *(850/3500 PSI)*	120 bar/al giro *(1700 PSI/turn)*	350 bar *(5000 PSI)*

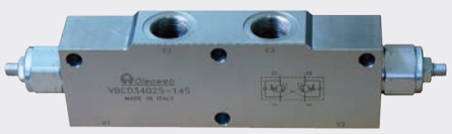
K	Materiale *Material*
S	Corpo in acciaio *(Steel body)*

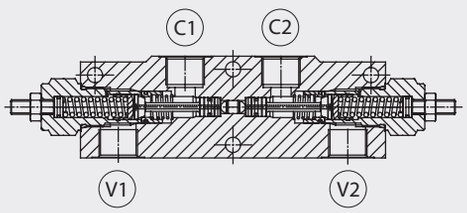
I	Rapporto di pilotaggio *Pilot ratio*
/	1:4.25 Standard
8	1:8

Caratteristiche tecniche *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	F	G	H	L	M	P	Q	R	S	T	Peso approssimativo *Approx weight* Kg / lb
VBCD140	BSPP 1/4	30 *(8)*	350 *(5000)*	25 *(0.98)*	50 *(1.97)*	150 *(5.90)*	23 *(0.90)*	104 *(4.09)*	51 *(2)*	48 *(1.89)*	10 *(0.32)*	8 *(0.31)*	134 *(5.27)*	6 *(0.23)*	8,5 *(0.33)*	38 *(1.49)*	1,38 *(3)*
VBCD380	BSPP 3/8	40 *(10.5)*															1,35 *(3)*
VBCD120	BSPP 1/2	60 *(16)*		30 *(1.18)*	60 *(2.36)*		21 *(0.83)*	108 *(4.25)*			12 *(0.47)*					43 *(1.69)*	1,85 *(4)*

VBCD Valvole overcenter doppie per centro aperto
Dual counterbalance valves for open center



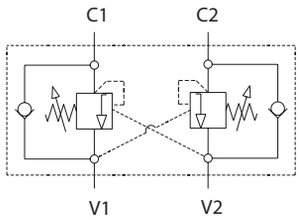


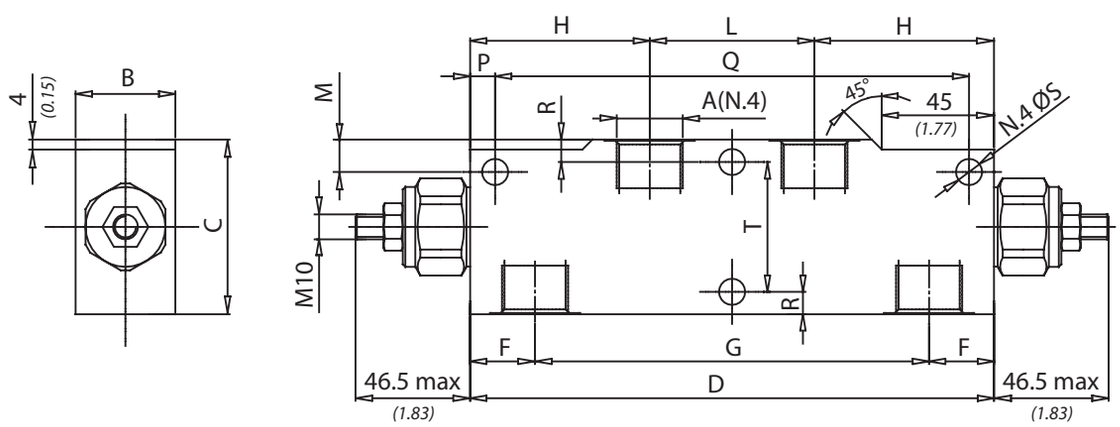
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



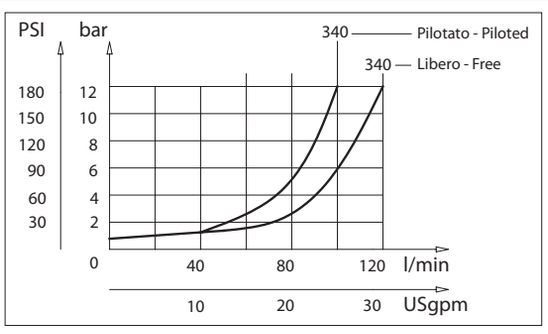


Codice ordinazione
Ordering code

VBCD - X - Y - K

X	Dimensione *Size*	Y	Molla *Spring*	Incremento pressione al giro *Press. increase*	Taratura standard *Std. setting (Q=5 l/min)*	K	Materiale *Material*
340	BSPP 3/4	2	60/350 bar *(850/3500 PSI)*	130 bar/al giro *(1800 PSI/turn)*	350 bar *(5000 PSI)*	S	Corpo in acciaio *(Steel body)*

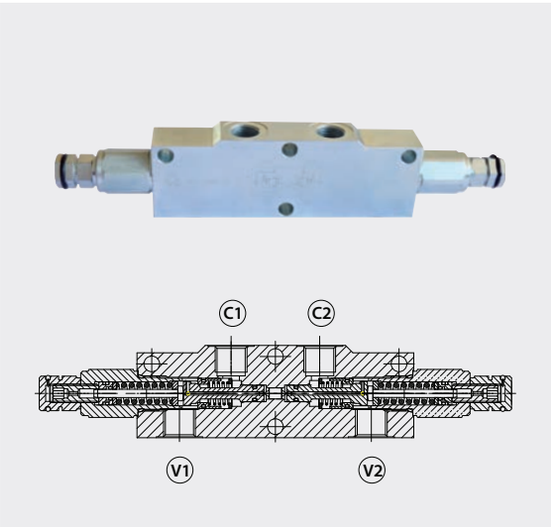
Perdite di carico *Pressure drops*



Caratteristiche tecniche *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	F	G	H	L	M	P	Q	R	S	T	Peso approssimativo *Approx weight* Kg / lb	Rapporto di pilotaggio *Pilot ratio*
VBCD340	**BSPP 3/4**	**120** *(31)*	**350** *(5000)*	**40** *(1.57)*	**70** *(2.75)*	**210** *(8.26)*	**26** *(1.02)*	**158** *(6.22)*	**72** *(2.83)*	**66** *(2.6)*	**13** *(0.51)*	**10** *(0.39)*	**190** *(7.48)*	**9** *(0.35)*	**10,5** *(0.41)*	**52** *(2.04)*	**4,5** *(10)*	**1:6.2**

VBCC
Valvole overcenter doppie per centro chiuso
Dual counterbalance valves for closed center

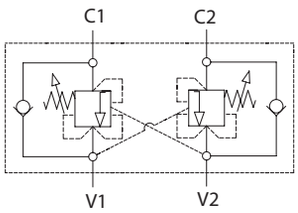


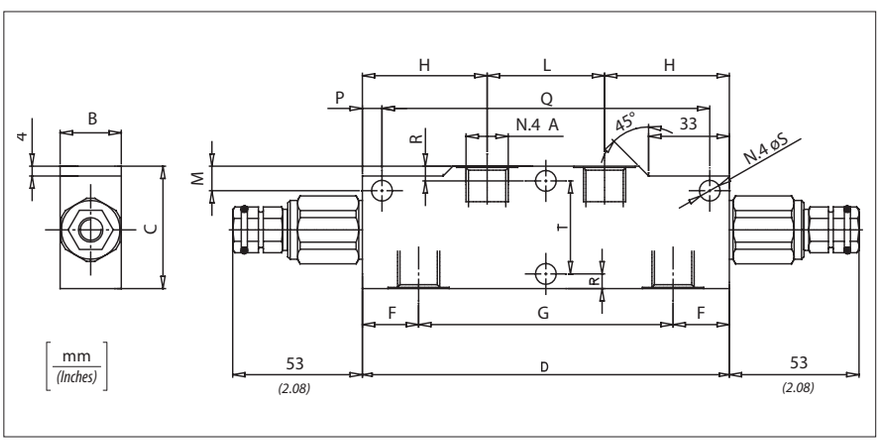
Dati tecnici *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

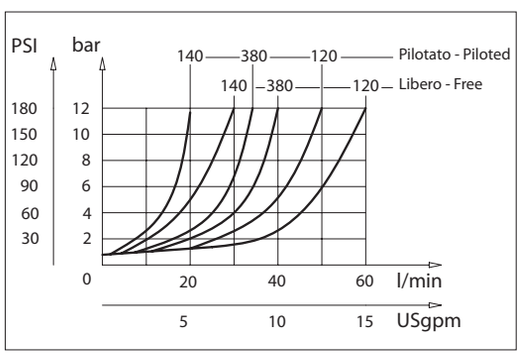
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





Perdite di carico *Pressure drops*



Codice ordinazione / *Ordering code*

VBCC - X - Y - K - I

X	Dimensione *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*	Taratura standard *Std. setting (Q=5 l/min)*
1	30/210 bar *(400/3000 PSI)*	70 bar/al giro *(1000 PSI/turn)*	200 bar *(2900 PSI)*
2	60/350 bar *(850/3500 PSI)*	120 bar/al giro *(1700 PSI/turn)*	350 bar *(5000 PSI)*

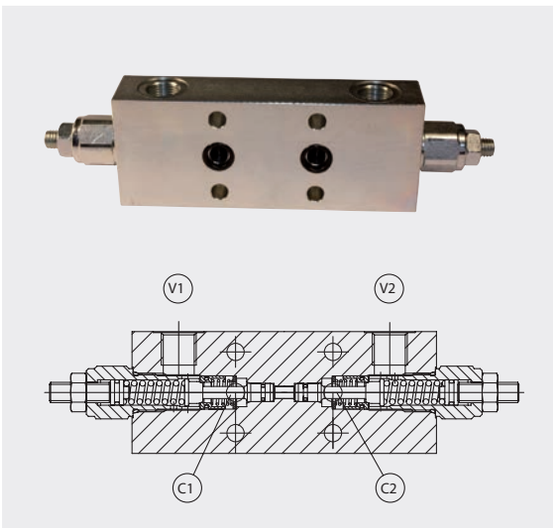
K	Materiale *Material*
S	Corpo in acciaio *(Steel body)*

I	Rapporto di pilotaggio *Pilot ratio*
/	1:4.25 Standard
8	1:8

Caratteristiche tecniche *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure bar/PSI*	B	C	D	F	G	H	L	M	P	Q	R	S	T	Peso approssimativo *Approx weight* Kg / lb
VBCC140	BSPP 1/4	30 *(8)*	350 *(5000)*	25 *(0.98)*	50 *(1.97)*	150 *(5.90)*	23 *(0.90)*	104 *(4.09)*	51 *(2)*	48 *(1.89)*	10 *(0.39)*	8 *(0.31)*	134 *(5.27)*	6 *(0.23)*	8,5 *(0.33)*	38 *(1.49)*	1,5 *(3.3)*
VBCC380	BSPP 3/8	40 *(10.5)*															
VBCC120	BSPP 1/2	60 *(16)*		30 *(1.18)*	60 *(2.36)*		21 *(0.83)*	108 *(4.25)*			12 *(0.47)*					43 *(1.69)*	2 *(4.4)*

VBCF Valvole overcenter doppie per centro aperto
Dual counterbalance valves for open center

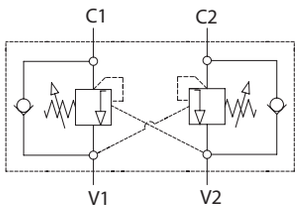


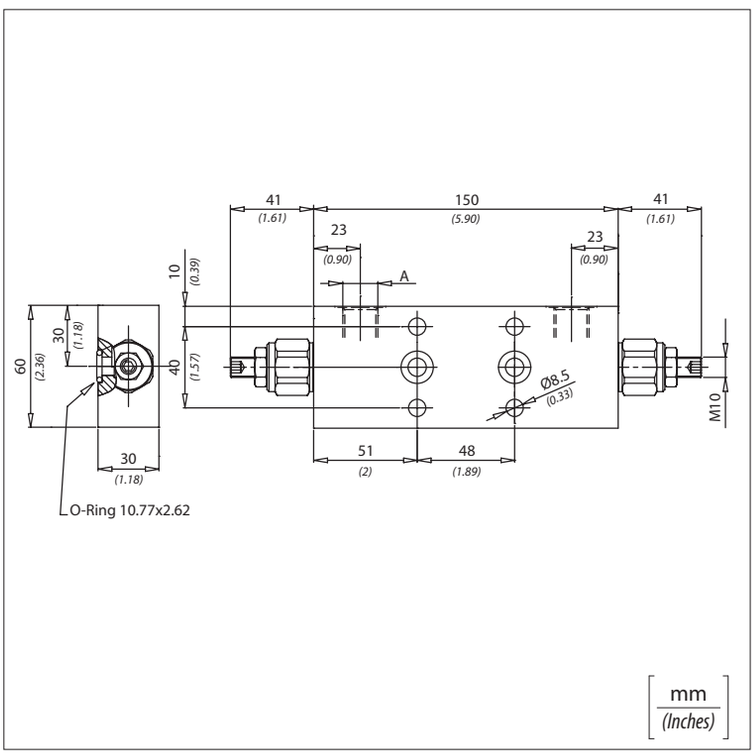
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





Codice ordinazione / *Ordering code*

VBCF - X - Y - K - I

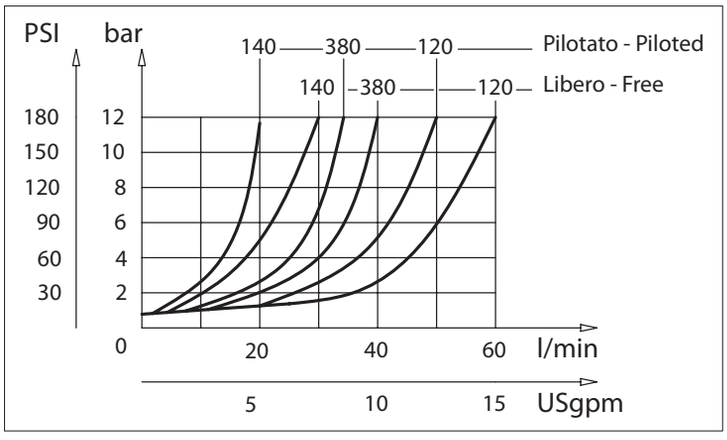
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP1/2**

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*	Taratura standard *Std. setting (Q=5 l/min)*
1	**30/210 bar** *(400/3000 PSI)*	**70 bar/al giro** *(1000 PSI/turn)*	**200 bar** *(2900 PSI)*
2	**60/350 bar** *(850/3500 PSI)*	**120 bar/al giro** *(1700 PSI/turn)*	**350 bar** *(5000 PSI)*

K	Materiale / *Material*
S	**Corpo in acciaio** *(Steel body)*

I	Rapporto di pilotaggio / *Pilot ratio*
/	**1:4.25 Standard**
8	**1:8**

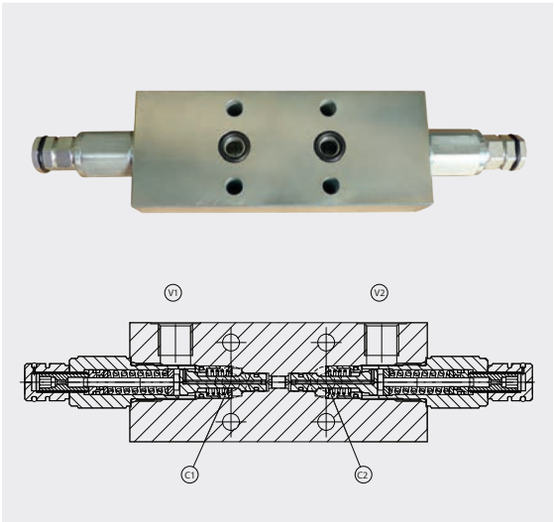
Perdite di carico *Pressure drops*



Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo / Kg *Approx weight / lb*
VBCF140	**BSPP 1/4**	**40** *(10.5)*	**350** *(5000)*	**2** *(4.4)*
VBCF380	**BSPP 3/8**			
VBCF120	**BSPP 1/2**	**60** *(16)*		

VBCM
Valvole overcenter doppie per centro chiuso
Dual counterbalance valves for closed center

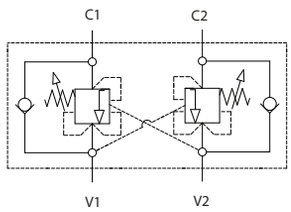


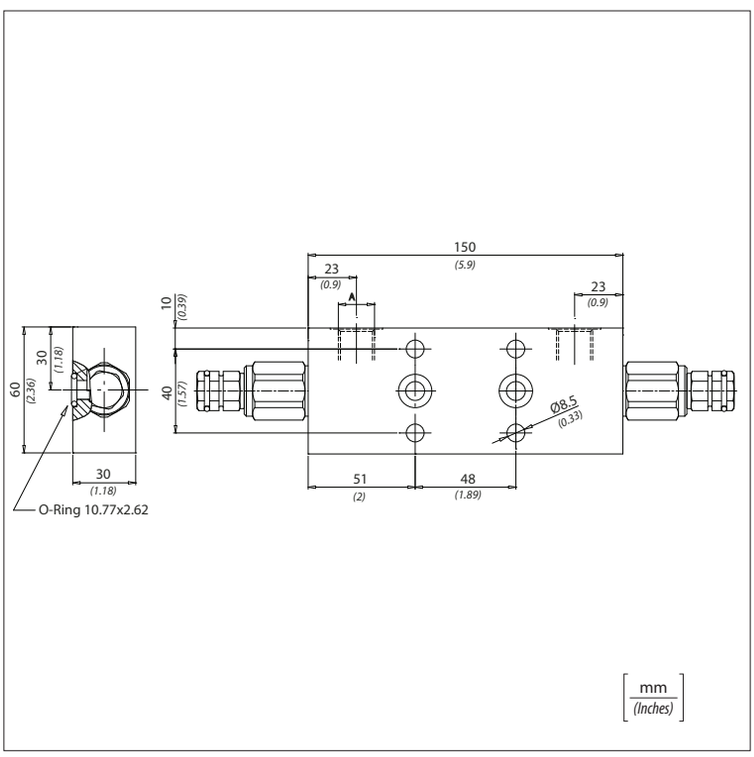
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

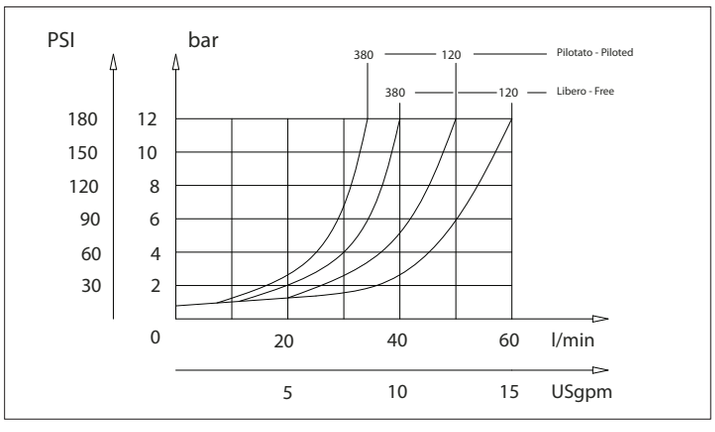
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





Perdite di carico *Pressure drops*



Codice ordinazione / *Ordering code*

VBCM - X - Y - K - I

X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP1/2**

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*	Taratura standard *Std. setting (Q=5 l/min)*
1	**30/210 bar** *(400/3000 PSI)*	**70 bar/al giro** *(1000 PSI/turn)*	**200 bar** *(2900 PSI)*
2	**60/350 bar** *(850/3500 PSI)*	**120 bar/al giro** *(1700 PSI/turn)*	**350 bar** *(5000 PSI)*

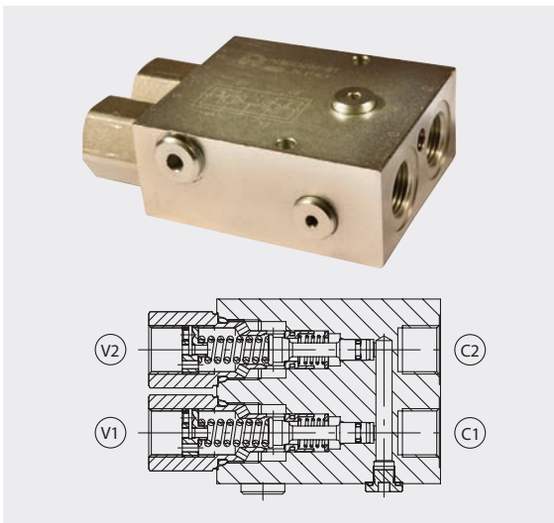
K	Materiale / *Material*
S	**Corpo in acciaio** *(Steel body)*

I	Rapporto di pilotaggio / *Pilot ratio*
/	**1:4.25 Standard**
8	**1:8**

Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo / Kg *Approx weight / lb*
VBCM140	**BSPP 1/4**	**40** *(10.5)*	**350** *(5000)*	**2** *(4.4)*
VBCM380	**BSPP 3/8**			
VBCM120	**BSPP 1/2**	**60** *(16)*		

VBCE
Valvole overcenter doppio effetto
Dual counterbalance valves for open center



Dati tecnici *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
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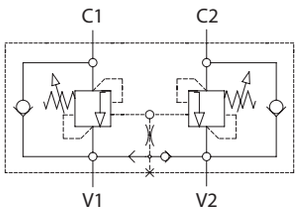
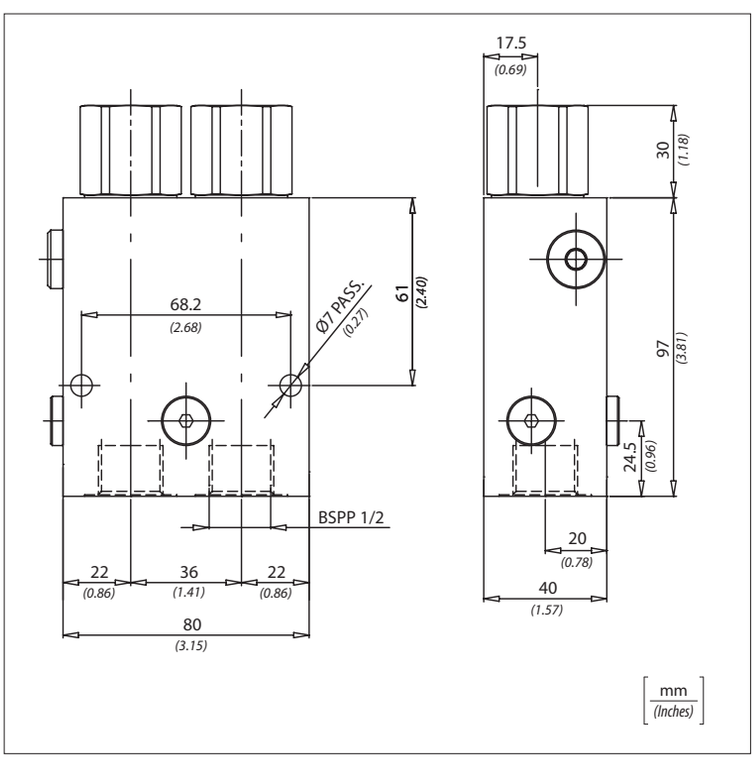




Codice ordinazione / *Ordering code*

VBCE - X - Y - K - I

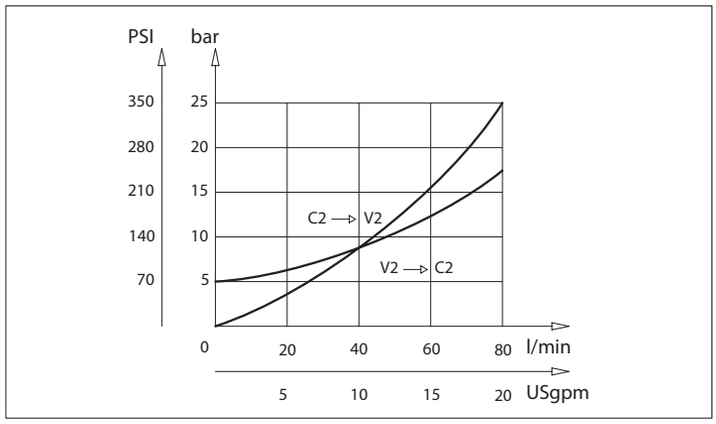
X	Dimensione / *Size*
120	**BSPP1/2**

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*	Taratura standard *Std. setting (Q=5 l/min)*
1	**30/210 bar** *(400/3000 PSI)*	**70 bar/al giro** *(1000 PSI/turn)*	**200 bar** *(2900 PSI)*
2	**60/350 bar** *(850/3500 PSI)*	**120 bar/al giro** *(1700 PSI/turn)*	**350 bar** *(5000 PSI)*

K	Materiale / *Material*
S	**Corpo in acciaio** *(Steel body)*

I	Rapporto di pilotaggio / *Pilot ratio*
/	**1:4.25 Standard**
8	**1:8**

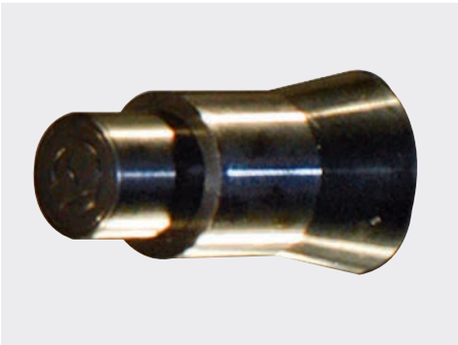
Perdite di carico *Pressure drops*

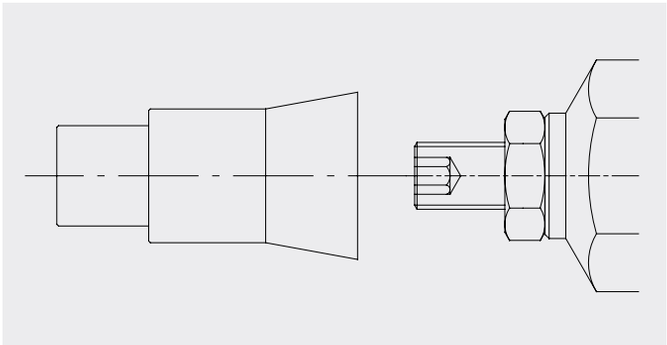


Caratteristiche tecniche *Technical performances*

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo / Kg *Approx weight / lb*
VBCE120	**60** *(15)*	**350** *(5000)*	**2,3** *(5)*

Tappo di sicurezza / *Safety Cup*





Codice ordinazione *Ordering code*	
M8	81300037
M10	81300095

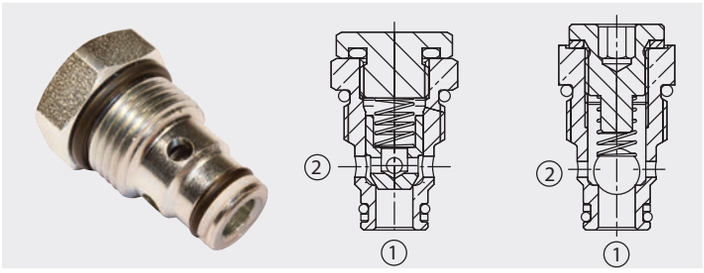
Valvole a cartuccia

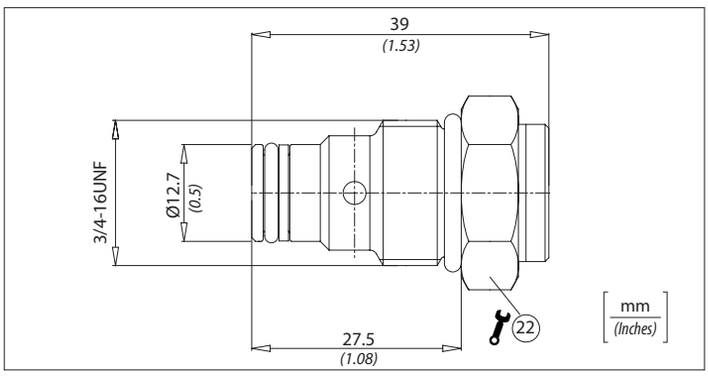
Cartridge valves

Oleoweb

HYDRAULIC VALVES AND COMPONENTS

CUR6 Valvole unidirezionali *Check valves*





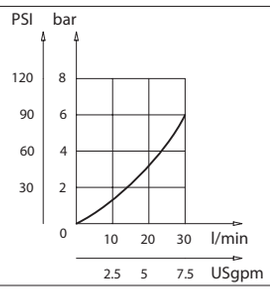
Dati tecnici *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

Perdite di carico *Pressure drops*



Caratteristiche tecniche / *Technical performances*

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
CUR6	**25** *(6.5)*	**350** *(5000)*	**0,07** *(0.15)*	**25-30** *(19-22)*	**SAE8/2**

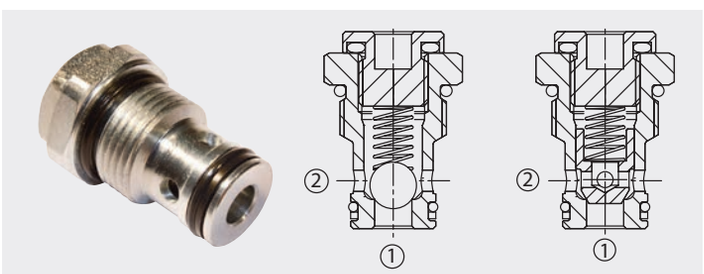
Codice ordinazione *Ordering code*

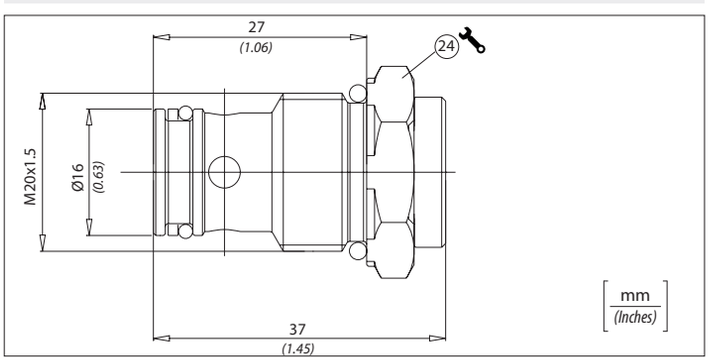
CUR6 -X-Y

X	Tenuta *Sealing*
SF	**Tenuta a sfera** *Ball sealing*
SP	**Tenuta a otturatore** *Poppet sealing*

Y	Molla *Spring*
1	**1 bar** *(15 PSI)*

CUR2015 Valvole unidirezionali *Check valves*





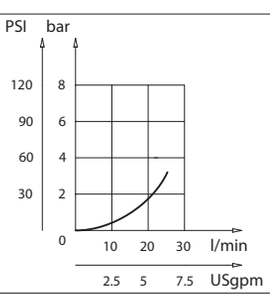
Dati tecnici *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

Perdite di carico *Pressure drops*



Caratteristiche tecniche / *Technical performances*

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
CUR2015	**25** *(6.5)*	**350** *(5000)*	**0,07** *(0.15)*	**25-30** *(19-22)*	**C2015/2**

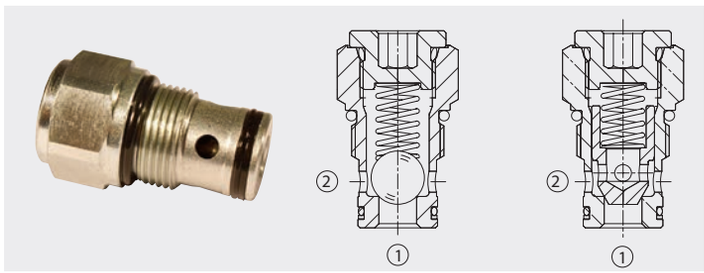
Codice ordinazione *Ordering code*

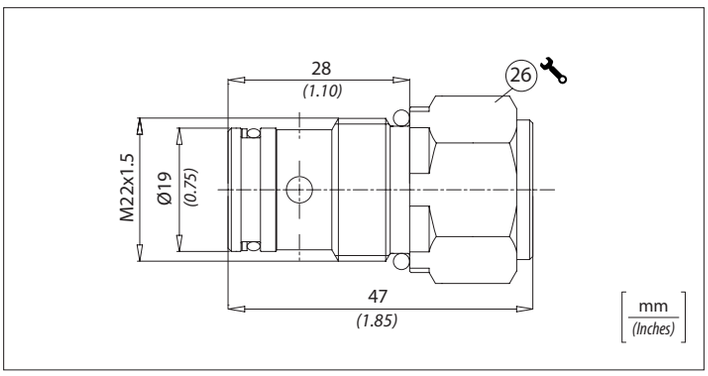
CUR2015 -X-Y

X	Tenuta *Sealing*
SF	**Tenuta a sfera** *Ball sealing*
SP	**Tenuta a otturatore** *Poppet sealing*

Y	Molla *Spring*
1	**1 bar** *(15 PSI)*

CUR2215 Valvole unidirezionali *Check valves*





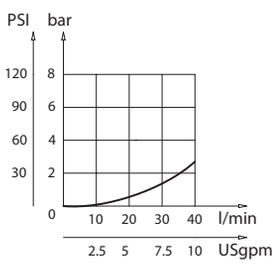
Dati tecnici *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

Perdite di carico *Pressure drops*



Codice ordinazione *Ordering code*

CUR2215 -X-Y

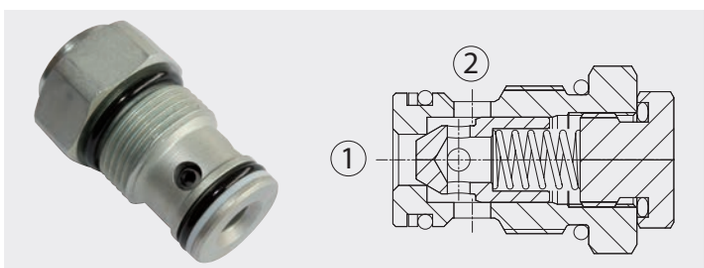
X	Tenuta *Sealing*
SF	**Tenuta a sfera** *Ball sealing*
SP	**Tenuta a otturatore** *Poppet sealing*

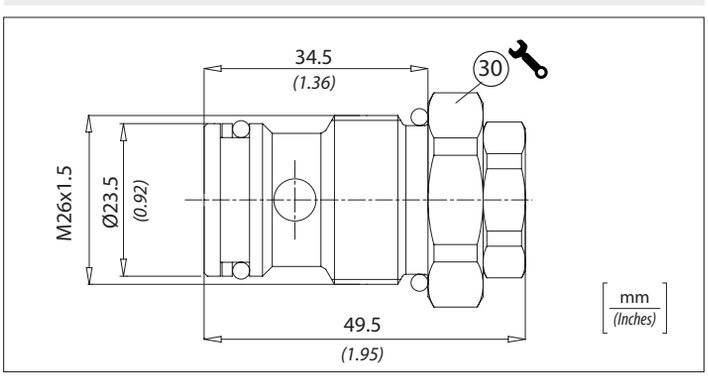
Y	Molla *Spring*
1	**1 bar** *(15 PSI)*
4,5	**4.5 bar** *(67.5 PSI)*

Caratteristiche tecniche / *Technical performances*

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
CUR2215	**40** *(10)*	**350** *(5000)*	**0,11** *(0.25)*	**45-50** *(33-37)*	**C2215/2**

CUR2615 Valvole unidirezionali *Check valves*





Dati tecnici *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
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È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

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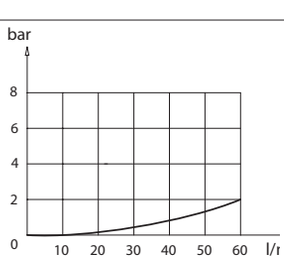
Perdite di carico *Pressure drops*



Codice ordinazione *Ordering code*

CUR2615 -X-Y

X	Tenuta *Sealing*
SP	**Tenuta a otturatore** *Poppet sealing*

Y	Molla *Spring*
1	**1 bar** *(15 PSI)*
4,5	**4.5 bar** *(67.5 PSI)*

Caratteristiche tecniche / *Technical performances*

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
CUR2615	**60** *(15)*	**350** *(5000)*	**0,17** *(0.38)*	**55-60** *(41-45)*	**C2615/2**

EV6 Valvole a comando elettrico 2 vie
2 ways cartridge eletric *valves*

Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

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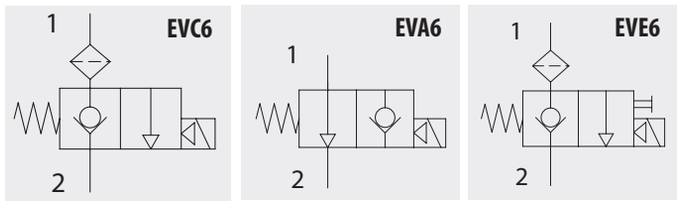
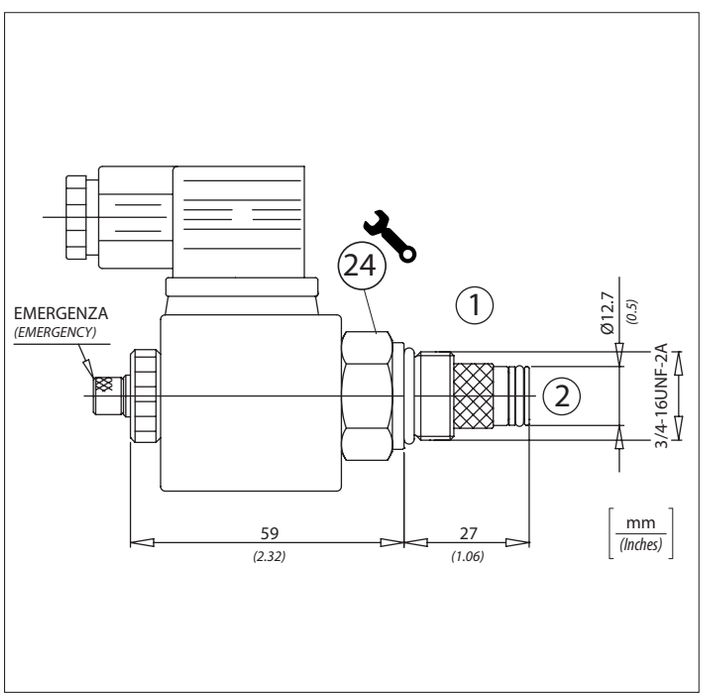
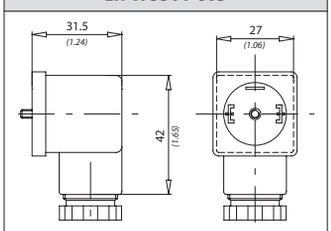




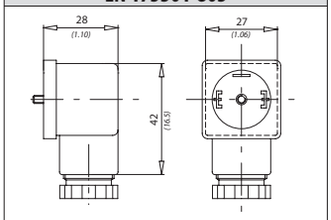
EN 175301-803



Connettore con raddrizzatore
Connector with rectifier

Portata nominale contatti *Nominal current*	**10 A**
Portata max contatti *Max operating current*	**16 A**
Resistenza contatti *Contact resistance*	**≤ 4m Ohm**
Sezione max conduttori *Max conductors cross-section*	**1,5 mm^2**
Portacontatti, dado *Contact holder*	**PA**
Tipo di serracavo *Gland size options*	**Pg09**
Diamentro cavo *Cable diameter*	**6-8 mm**
Grado di protezione *Protection class*	**IP 65 EN 60529**
Classe di isolamento *Insulation class*	**VDE 0110-1/89**
Guarnizione *Sealing material*	**NBR**
Temperatura di esercizio *Operating temperature*	**-40C +90C**

EN 175301-803



Connettore standard
Standard Connector

Tensione nominale *Nominal voltage*	**AC - Max 250 V DC - Max 300 V**
Portata nominale contatti *Nominal current*	**10 A**
Portata max contatti *Max operating current*	**16A**
Resistenza contatti *Contact resistance*	**≤ 4m Ohm**
Sezione max conduttori *Max conductors cross-section*	**1,5 mm^2**
Portacontatti, dado *Contact holder*	**PA (+G)**
Tipo di serracavo *Gland size options*	**Pg11**
Diamentro cavo *Cable diameter*	**6-8 mm**
Grado di protezione *Protection class*	**IP 65 EN 60529**
Classe di isolamento *Insulation class*	**VDE 0110-1/89**
Guarnizione *Sealing material*	**NBR**
Temperatura di esercizio *Operating temperature*	**-40C +90C**

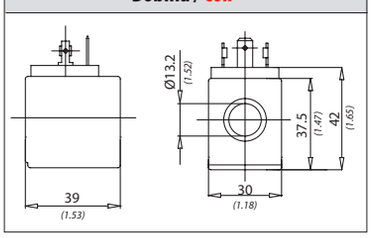
Codice ordinazione / *Ordering code*

EV - X - Y

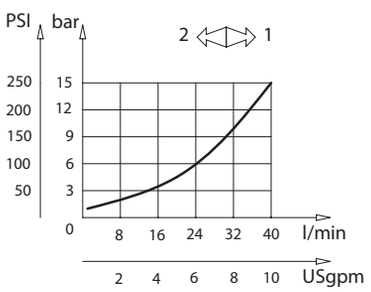
X	Schema / *Scheme*
C6	**Normalmente chiusa** *Normally closed*
E6	**Normalmente chiusa + emerg.** *Normally closed + emerg.*
A6	**Normalmente chiusa + emerg.** *Normally closed + emerg.*

Y	Voltaggio *Voltage*
012DC	12 V (DC)
024DC	24 V (DC)
11050	110 V (50 Hz.)
22050	220 V (50 HZ.)
110RAC	110 V (RAC)
220RAC	220 V (RAC)

Bobina / *Coil*



Perdite di carico / *Pressure drops*



Le prove sono state eseguite con solenoidi a temperatura di regime, sottoalimentati del 10% rispetto al valore nominale.

Tests carried out with solenoids at their working temperature, with a supply voltage 10% below the nominal value.

Caratteristiche tecniche / *Technical performances*

Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* *bar/PSI*	Protezione *Protection*	Tolleranza di alimentazione *Feeding tolerance*	Inserimento *Energizing time*	Classe di isolamento *Insulation class*	Potenza assorbita in C.A. *Absorbed power in A.C.*	Potenza assobita allo spunto *Absorbed power at pickup*	Potenza assobita in C.C. *Absorbed power in C.C.*	Peso approsimativo *Approx weight*	Coppia di serraggio *Tightening torque*	Cavità *Cavity*
22 l/min *6 Usgpm*	**210 bar** *3000 PSI*	**IP65**	**+ / - 10%**	**ED 100%**	**H**	**20 VA**	**28 VA**	**18 W**	**0,28 Kg** *0.61 lb*	**25-30 Nm** *19-22 lbf ft*	**SAE 8/2**

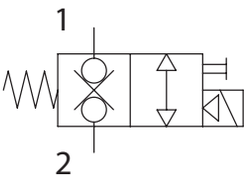
EDT Valvole a comando elettrico 2 vie
2 ways cartridge eletric *valves*

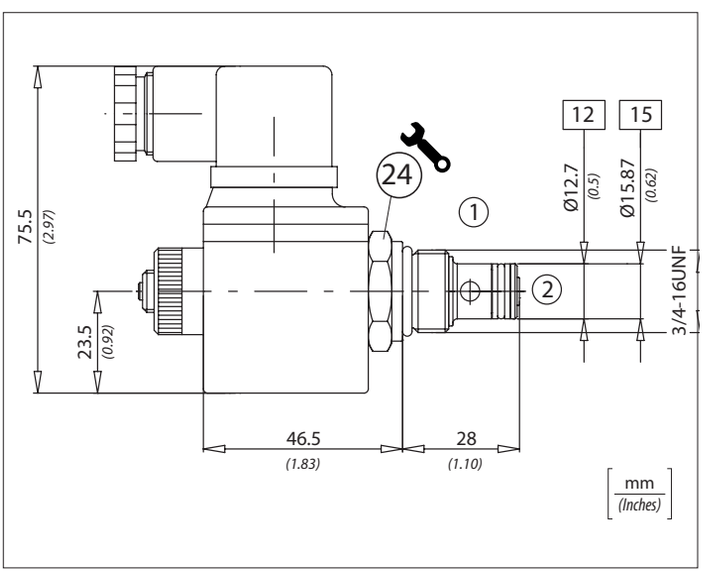
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

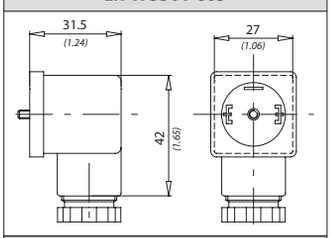
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





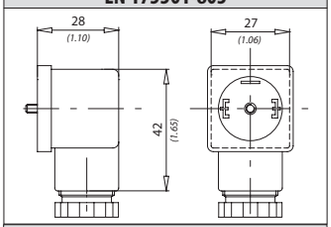
EN 175301-803



Connettore con raddrizzatore
Connector with rectifier

Portata nominale contatti *Nominal current*	**10 A**
Portata max contatti *Max operating current*	**16 A**
Resistenza contatti *Contact resistance*	**≤ 4m Ohm**
Sezione max conduttori *Max conductors cross-section*	**1,5 mm^2**
Portacontatti, dado *Contact holder*	**PA**
Tipo di serracavo *Gland size options*	**Pg09**
Diamentro cavo *Cable diameter*	**6-8 mm**
Grado di protezione *Protection class*	**IP 65 EN 60529**
Classe di isolamento *Insulation class*	**VDE 0110-1/89**
Guarnizione *Sealing material*	**NBR**
Temperatura di esercizio *Operating temperature*	**-40C +90C**

EN 175301-803



Connettore standard
Standard Connector

Tensione nominale *Nominal voltage*	**AC - Max 250 V DC - Max 300 V**
Portata nominale contatti *Nominal current*	**10 A**
Portata max contatti *Max operating current*	**16A**
Resistenza contatti *Contact resistance*	**≤ 4m Ohm**
Sezione max conduttori *Max conductors cross-section*	**1,5 mm^2**
Protezione *Housing*	**PA (+G)**
Tipo di serracavo *Gland size options*	**Pg11**
Diamentro cavo *Cable diameter*	**6-8 mm**
Grado di protezione *Protection class*	**IP 65 EN 60529**
Classe di isolamento *Insulation class*	**VDE 0110-1/89**
Guarnizione *Sealing material*	**NBR**
Temperatura di esercizio *Operating temperature*	**-40C +90C**

Codice ordinazione / *Ordering code*

EDT6 - Y - K - X - Z

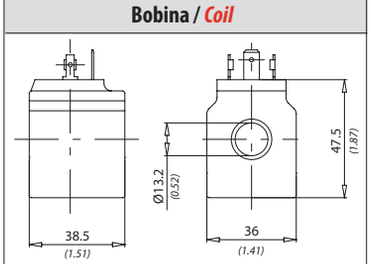
Y	Voltaggio *Voltage*
012DC	12 V (DC)
024DC	24 V (DC)
024RAC	24 V (RAC)
110RAC	110 V (RAC)
220RAC	220 V (RAC)

K	Dimensione *Size*
12	Ø 12,7
15	Ø 15,87

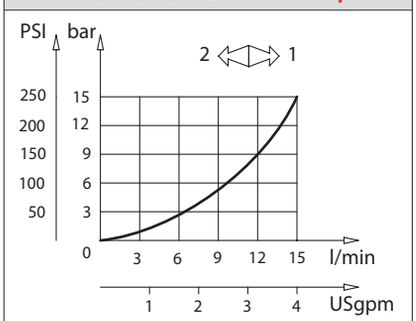
X	Schema *Scheme*
NC	Normalmente chiusa + emerg. *Normally closed + emerg.*

Z	Optional dado di chiusura
D	

Bobina / *Coil*



Perdite di carico / *Pressure drops*



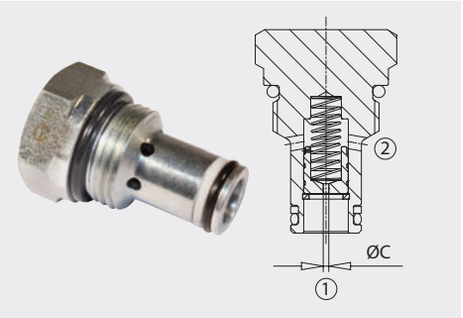
Le prove sono state eseguite con solenoidi a temperatura di regime, sottoalimentati del 10% rispetto al valore nominale.

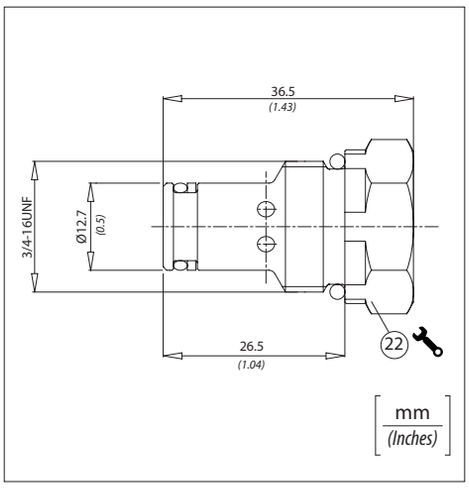
Tests carried out with solenoids at their working temperature, with a supply voltage 10% below the nominal value.

Caratteristiche tecniche / *Technical performances*

Portata max *Max Flow* l/min-USgpm	Pressione Max *Max pressure* *bar/PSI*	Protezione *Protection*	Tolleranza di alimentazione *Feeding tolerance*	Inserimento *Energizing time*	Classe di isolamento *Insulation class*	Potenza assorbita in C.A. *Absorbed power in A.C.*	Potenza assobita allo spunto *Absorbed power at pickup*	Potenza assobita in D.C. *Absorbed power in D.C.*	Peso approsimativo *Approx weight*	Coppia di serraggio *Tightening torque*	Cavità *Cavity*
22 l/min *6 Usgpm*	**210 bar** *3000 PSI*	**IP65**	**+ / - 10%**	**ED 100%**	**H**	**20 VA**	**28 VA**	**22 W**	**0,3 Kg** *0.66 lb*	**25-30 Nm** *19-22 lbf ft*	**SAE 8/2**

VSC6 Valvole di controllo flusso compensate fisse
Fixed compensated flow control valves





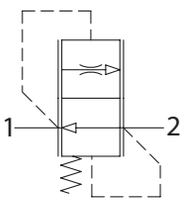
Dati tecnici / *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

Codice *Code*	Ø C
VSC61	**Ø 0,8** *(Ø 0.031)*
VSC62	**Ø 1** *(Ø 0.039)*
VSC63	**Ø 1,25** *(Ø 0.049)*
VSC64	**Ø 1,5** *(Ø 0.059)*
VSC65	**Ø 1,75** *(Ø 0.069)*
VSC66	**Ø 1,8** *(Ø 0.071)*
VSC67	**Ø 1,9** *(Ø 0.075)*
VSC68	**Ø 2** *(Ø 0.079)*
VSC69	**Ø 2,1** *(Ø 0.083)*
VSC610	**Ø 2,25** *(Ø 0.088)*
VSC611	**Ø 2,5** *(Ø 0.098)*
VSC612	**Ø 2,6** *(Ø 0.10)*



Codice ordinazione / *Ordering code*

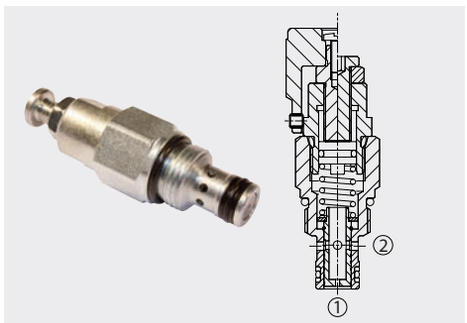
VSC6 - Y

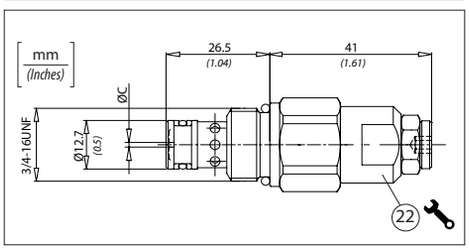
Y	Portata controllata a 100 bar ± 10% *Controlled flow at 100 bar ± 10 %*
1	**1 l/min** *(0.25 USgpm)*
2	**2 l/min** *(0.5 USgpm)*
3	**3 l/min** *(0.75 USgpm)*
4	**4 l/min** *(1 USgpm)*
5	**5 l/min** *(1.25 USgpm)*
6	**6 l/min** *(1.5 USgpm)*
7	**7 l/min** *(1.75 USgpm)*
8	**8 l/min** *(2 USgpm)*
9	**9 l/min** *(2.25 USgpm)*
10	**10 l/min** *(2.5 USgpm)*
11	**11 l/min** *(2.75 USgpm)*
12	**12 l/min** *(3 USgpm)*

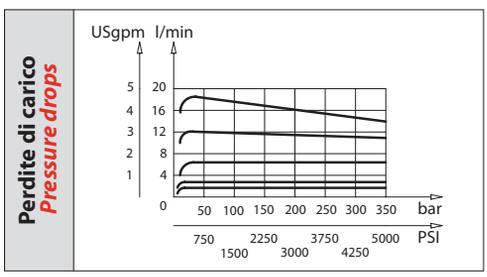
Caratteristiche tecniche / *Technical performances*

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VSC6	**12** *(3)*	**250** *(3600)*	**0,06** *(0.15)*	**25-30** *(19-22)*	**SAE8/2**

VCF6 Valvole di controllo flusso compensate regolabili
Adjustable compensated flow control valves







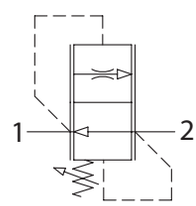
Dati tecnici / *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

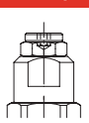
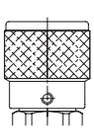
Codice / *Code*	Ø C
VCF61	**Ø 0,9** *(Ø 0.23)*
VCF62	**Ø 1** *(Ø 0.26)*
VCF63	**Ø 1,3** *(Ø 0.34)*
VCF64	**Ø 1,5** *(Ø 0.39)*
VCF65	**Ø 1,7** *(Ø 0.44)*
VCF66	**Ø 2,2** *(Ø 0.57)*
VCF67	**Ø 2,8** *(Ø 0.73)*



Codice ordinazione / *Ordering code*

VCF6 - X - Y

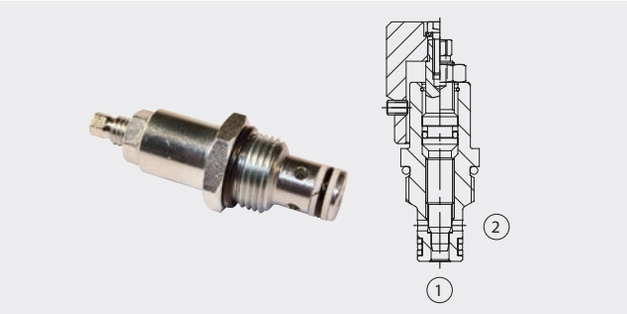
X	Portata controllata a 100 bar ± 10% *Controlled flow at 100 bar ± 10 %*
1	**0,6 - 2,2 l/min** *(0.15 - 0.57 USgpm)*
2	**0,8 - 3 l/min** *(0.21 - 0.78 USgpm)*
3	**1,3 - 5,1 l/min** *(0.34 - 1.32 USgpm)*
4	**1,9 - 6,8 l/min** *(0.49 - 1.77 USgpm)*
5	**2,6 - 9,1 l/min** *(0.67 - 2.36 USgpm)*
6	**4 - 14,4 l/min** *(1.04 - 3.74 USgpm)*
7	**7,2 - 18 l/min** *(1.87 - 4.68 USgpm)*

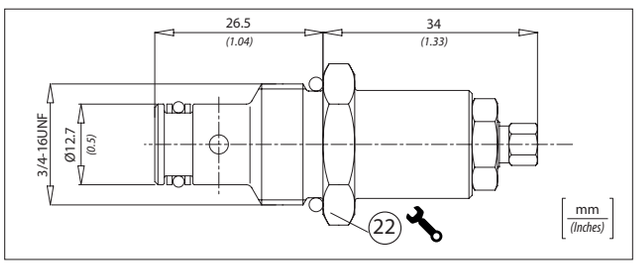
Y	Regolazione *Setting*
C	
V	

Caratteristiche tecniche / *Technical performances*

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VCF6	**18** *(5)*	**350** *(5000)*	**0,21** *(0.46)*	**25-30** *(19-22)*	**SAE8/2**

VBF6 Valvole bidirezionali di controllo flusso
Bidirectional flow control valves





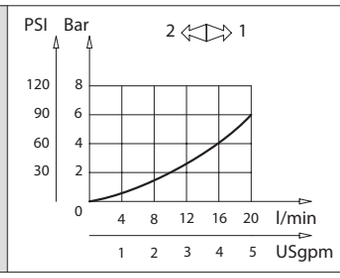
Dati tecnici / *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

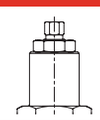
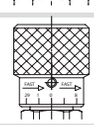
It is necessary a filter use to protect the valve (advised filtration 15 micron)

Perdite di carico / *Pressure drops*



Codice ordinazione / *Ordering code*

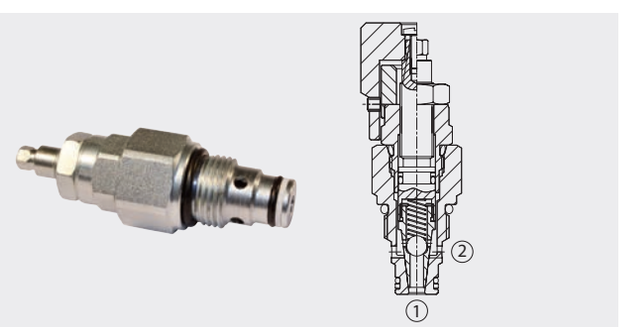
VBF6 - X

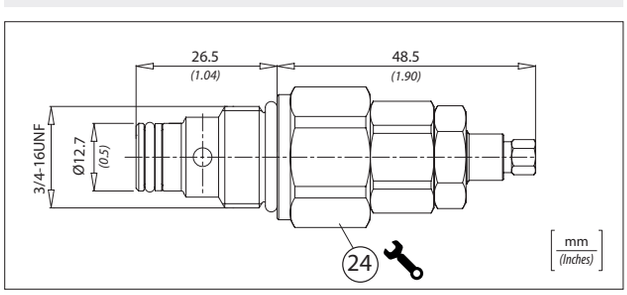
X	Regolazione / *Setting*
C	
V	

Caratteristiche tecniche / *Technical performances*

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VBF6	**30** *(8)*	**300** *(4500)*	**0,09** *(0.20)*	**25-30** *(19-22)*	**SAE8/2**

VRF6 Valvole di controllo flusso unidirezionali
Unidirectional flow control valves





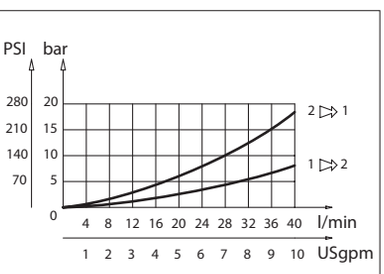
Dati tecnici / *Technical data*

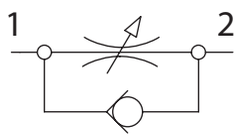
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

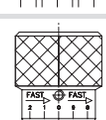
Perdite di carico / *Pressure drops*





Codice ordinazione / *Ordering code*

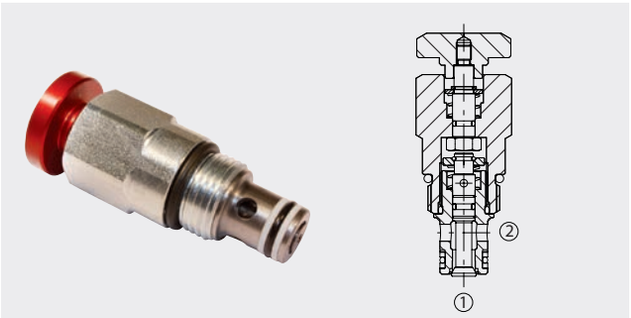
VRF6 - X

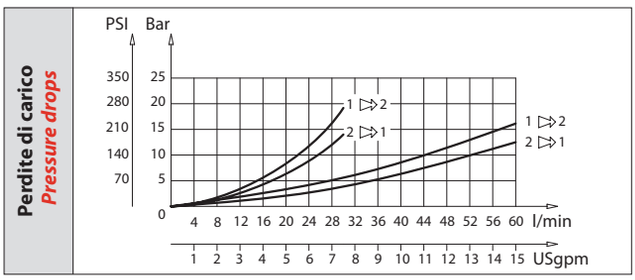
X	Regolazione / *Setting*
C	
V	

Caratteristiche tecniche / *Technical performances*

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VRF6	**40** *(10)*	**350** *(5000)*	**0,13** *(0.30)*	**25-30** *(19-22)*	**SAE8/2**

VEM
Valvole di emergenza manuale
Manual emergency valves



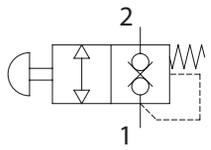


Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



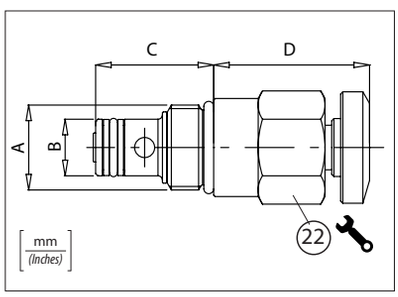
Codice ordinazione
Ordering code

VEM - X

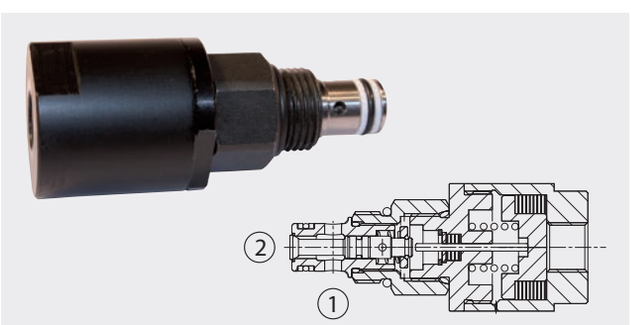
X	Dimensione *Size*
6	**3/4 - 16UNF**
10	**7/8 - 14UNF**

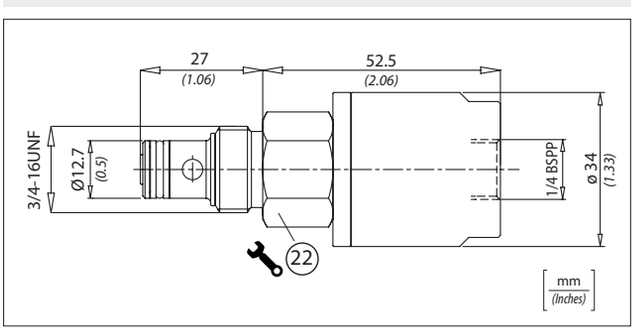
Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VEM6	**3/4 - 16UNF**	**30** *(8)*	**320** *(4500)*	**12,7** *(0.5)*	**26,5** *(1.04)*	**35** *(1.38)*	**0,12** *(0.27)*	**25-30** *(19-22)*	**SAE8/2**
VEM10	**7/8 - 14UNF**	**50** *(13)*		**15,87** *(0.62)*	**32,5** *(1.28)*	**43,5** *(1.71)*	**0,20** *(0.44)*	**41-47** *(30-35)*	**SAE10/2**



VPN6
Valvole pneumatiche
Pneumatic valves



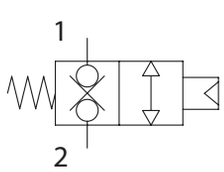


Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

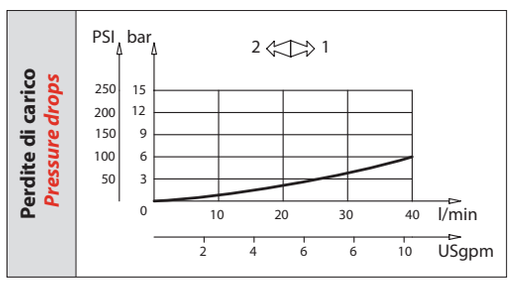


Codice ordinazione
Ordering code

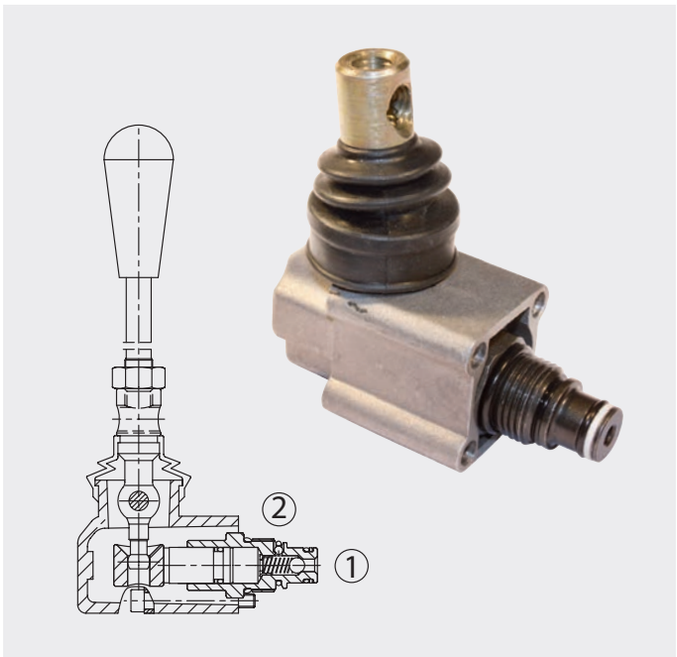
VPN6

Caratteristiche tecniche / *Technical performances*

Codice *Code*	Portata max *Max Flow* l/min - USgpm	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*	Pressione di pilotaggio *Pilot pressure* bar / *PSI*
VPN6	**40** *(10)*	**350** *(5000)*	**0,16** *(0.35)*	**25-30** *(19-22)*	**SAE8/2** *(2)*	**4/15** *(58/218)*



PME Pompe a mano
Cartridge hand pumps

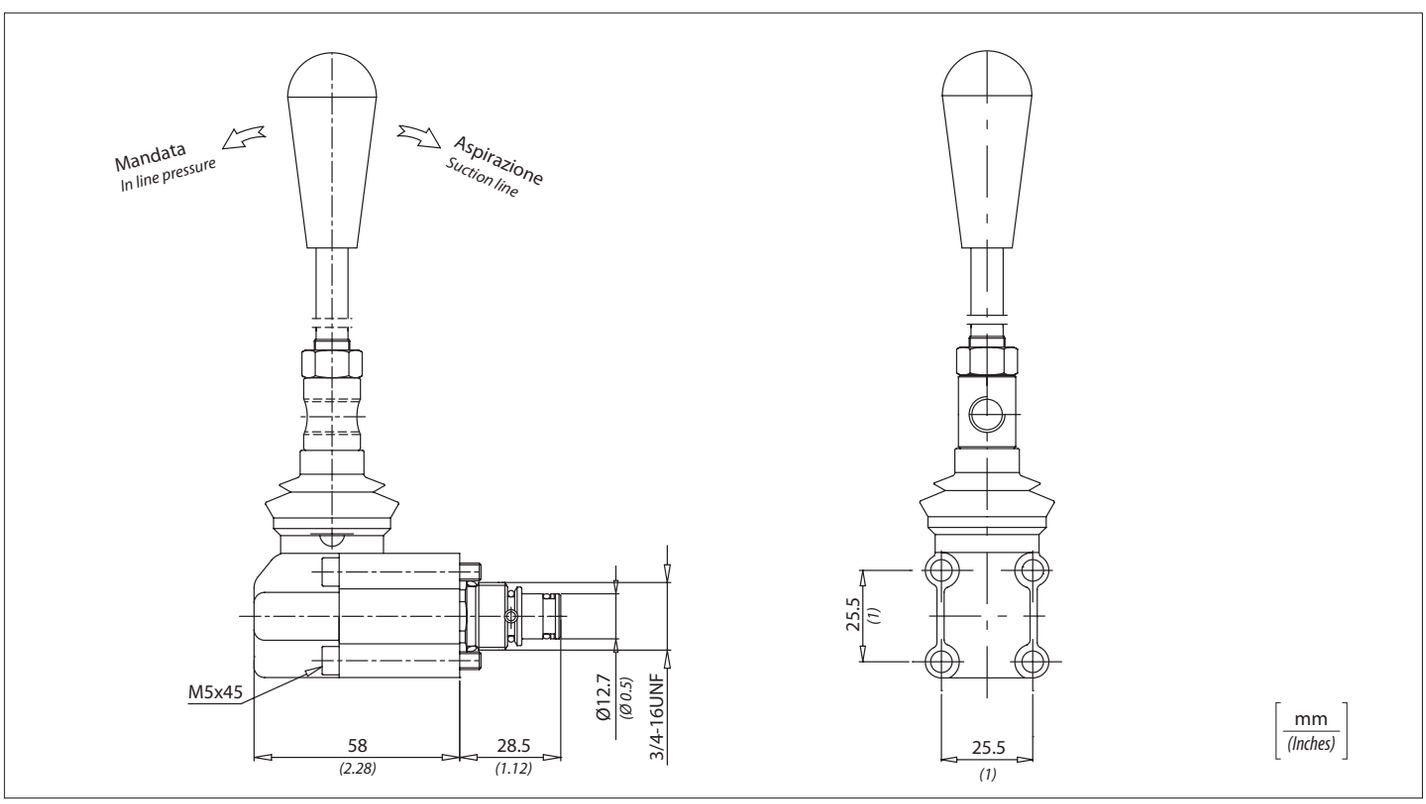


Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

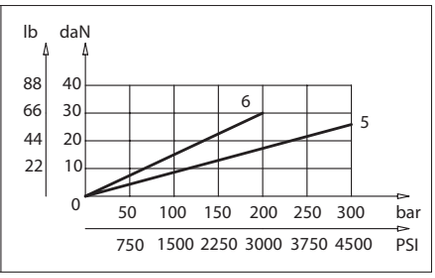
It is necessary a filter use to protect the valve (advised filtration 15 micron)



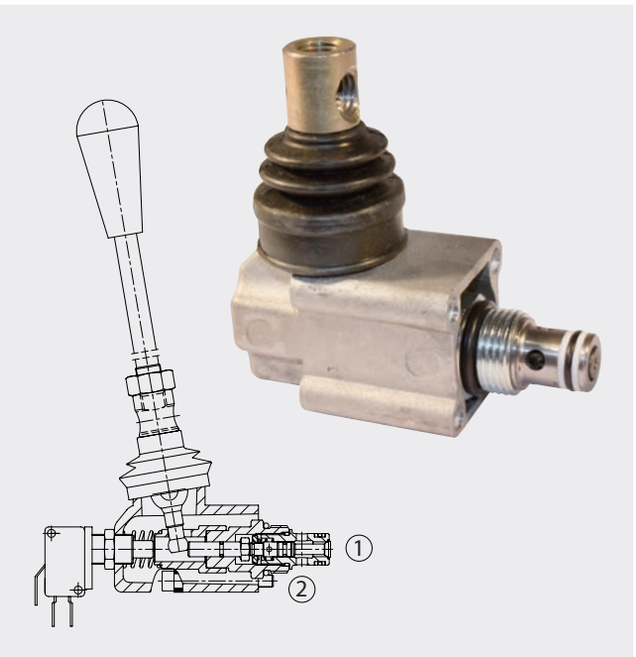
Caratteristiche tecniche
Technical performances

Codice *Code*	Cilindrata *Displacement* cm^3 - in^3	Pressione Max *Max pressure* bar / *PSI*	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
PME5	**1** *(0.06)*	**300** *(4000)*	**0,4** *(0.88)*	**25-30** *(19-22)*	**SAE8/2**
PME6	**2** *(0.12)*	**200** *(3000)*			

Perdite di carico
Pressure drops



CM6 Valvole a comando manuale
Manual operated release valves

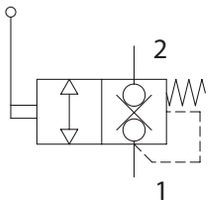


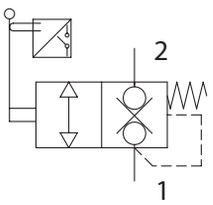
Dati tecnici
Technical data

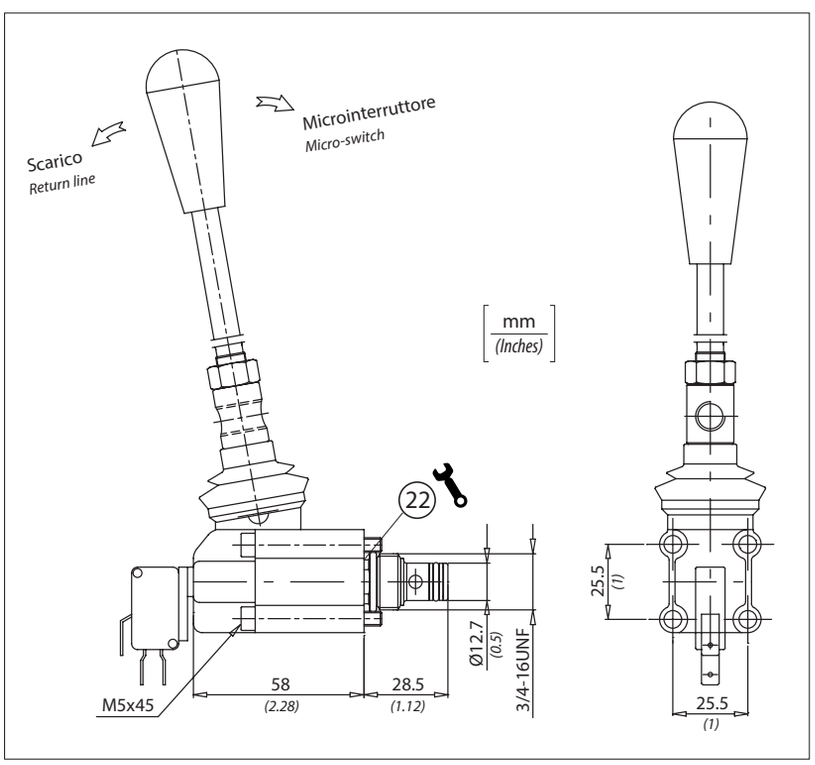
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





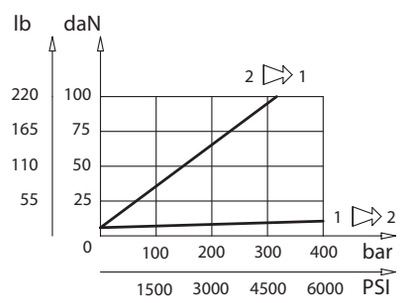


Codice ordinazione
Ordering code

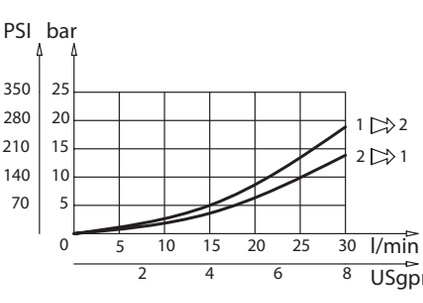
CM6 - X

X	Microinterruttore / *Micro switch*
0	**Senza micro** / *Without micro-switch*
M	**Con micro** / *With micro-switch*

Perdite di carico
Pressure drops



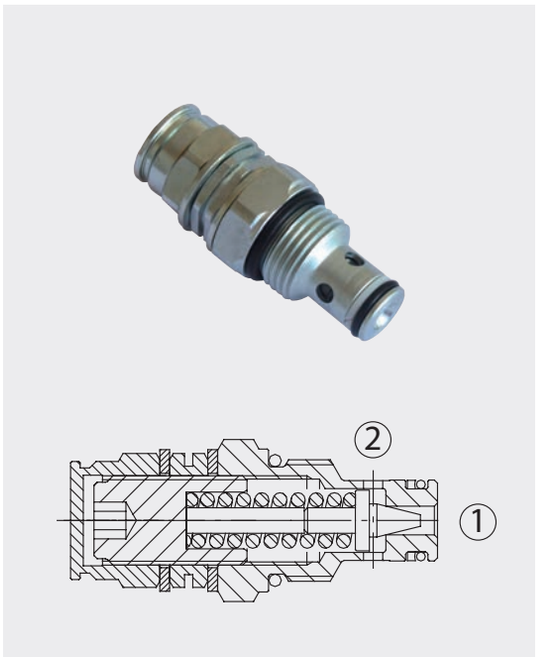
Perdite di carico
Pressure drops



Caratteristiche tecniche
Technical performances

Codice *Code*	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
CM6	**25** *(6)*	**320** *(4500)*	**0,45** *(1)*	**25-30** *(19-22)*	**SAE8/2**

VMD1 Valvole di massima pressione
Relief valves

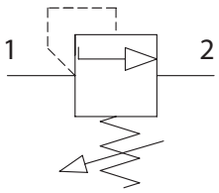


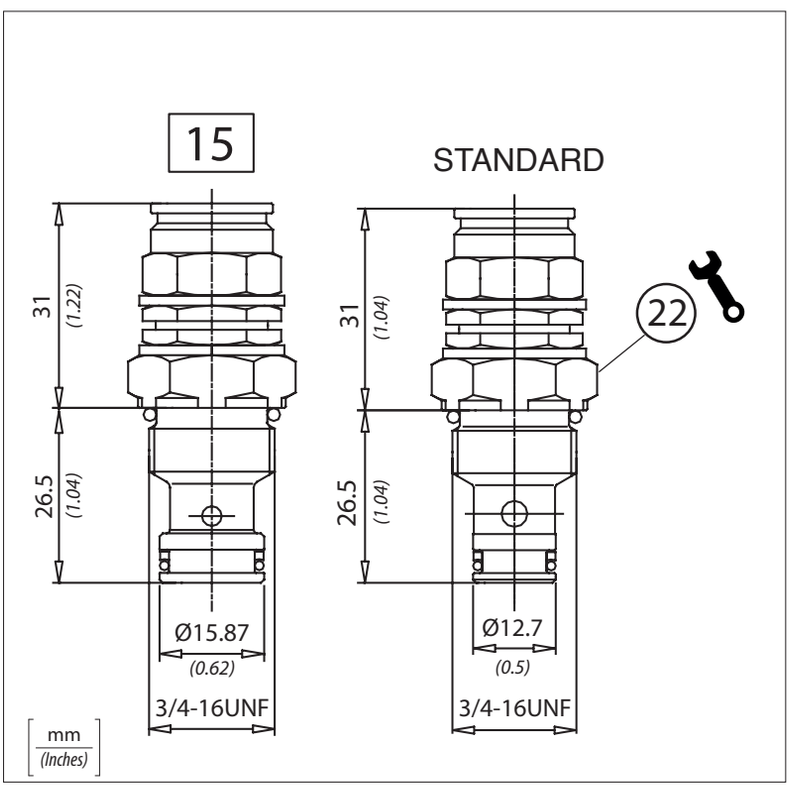
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





Codice ordinazione / *Ordering code*

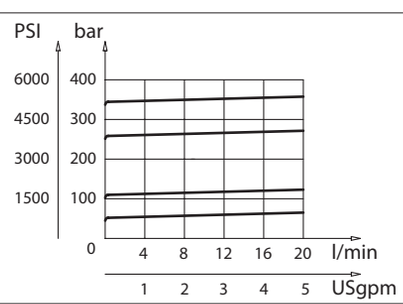
VMD1 - X - Y - K

X	Regolazione *Setting*
C	

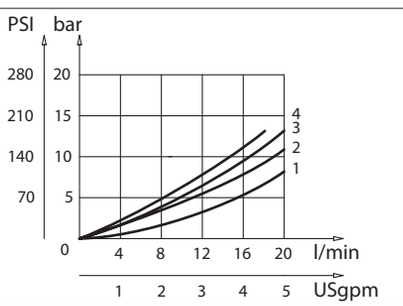
K	Dimensione *Size*
/	**Ø 12,7 STANDARD**
15	**Ø 15,87**

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/40 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/110 bar** *(290/1600 PSI)* max	**35 bar/al giro** *(500 PSI/turn)*
3	**30/210 bar** *(435/3000 PSI)* max	**62 bar/al giro** *(900 PSI/turn)*
4	**40/350 bar** *(580/5000 PSI)* max	**120 bar/al giro** *(1740 PSI/turn)*

Perdite di carico *Pressure drops*



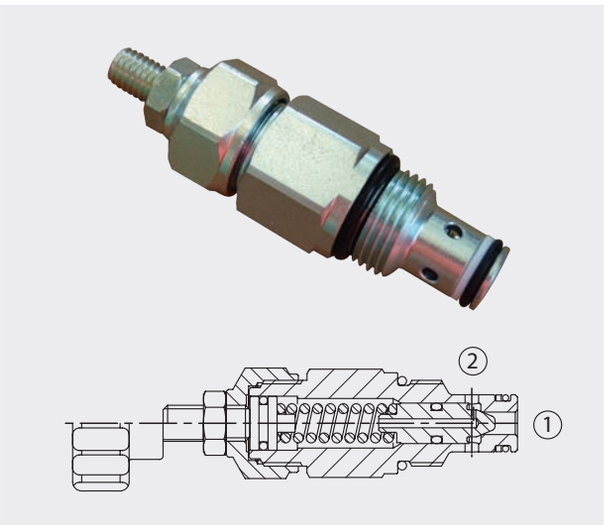
Perdite di carico *Pressure drops*



Caratteristiche tecniche
Technical performances

Codice *Code*	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD1	**20** *(5)*	**350** *(5000)*	**0,09** *(0.20)*	**25-30** *(19-22)*	**SAE8/2**

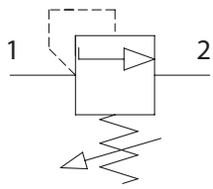
VMD10 Valvole di massima pressione
Relief valves

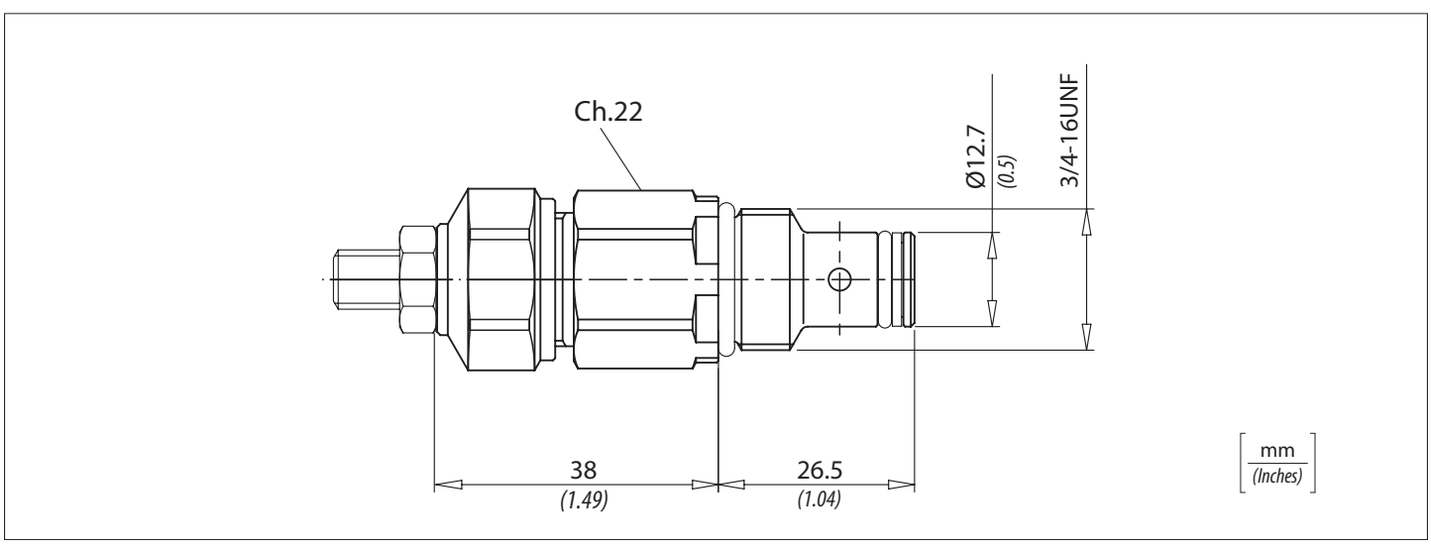


Dati tecnici *Technical data*		
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

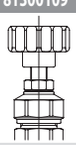
It is necessary a filter use to protect the valve (advised filtration 15 micron)





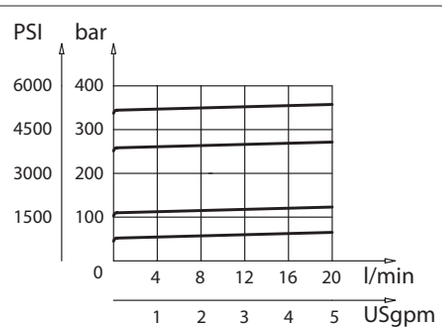
Codice ordinazione / *Ordering code*

VMD10 - X - Y

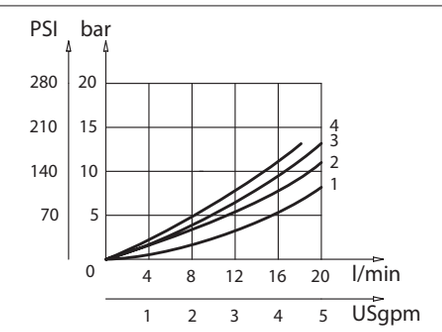
X	Regolazione *Setting*
C	
	Codice volantino / Flyer *Code* **81300109**
V	

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/40 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/110 bar** *(290/1600 PSI)* max	**35 bar/al giro** *(500 PSI/turn)*
3	**30/210 bar** *(435/3000 PSI)* max	**62 bar/al giro** *(900 PSI/turn)*
4	**40/350 bar** *(580/5000 PSI)* max	**120 bar/al giro** *(1740 PSI/turn)*

Perdite di carico *Pressure drops*



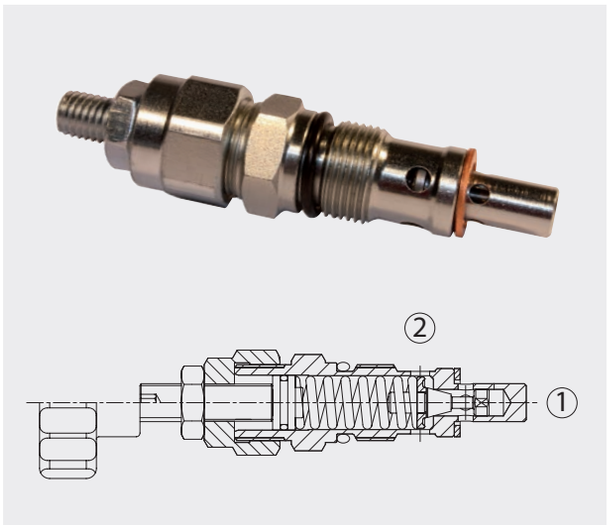
Perdite di carico *Pressure drops*



Caratteristiche tecniche *Technical performances*

Codice *Code*	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD10	**20** *(5)*	**350** *(5000)*	**0,14** *(0.30)*	**25-30** *(19-22)*	**SAE8/2**

VMD30 Valvole di massima pressione
Relief valves

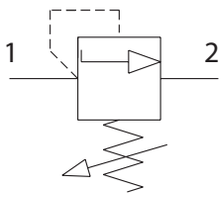


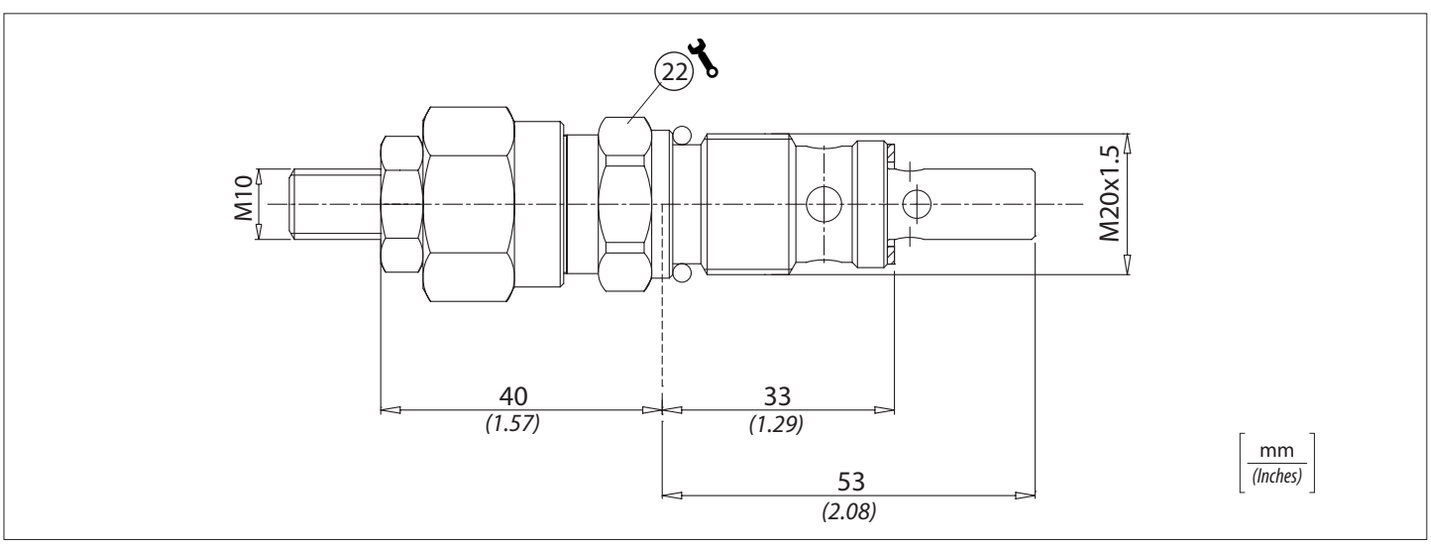
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

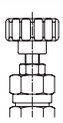
It is necessary a filter use to protect the valve (advised filtration 15 micron)





Codice ordinazione / *Ordering code*

VMD30 - X - Y

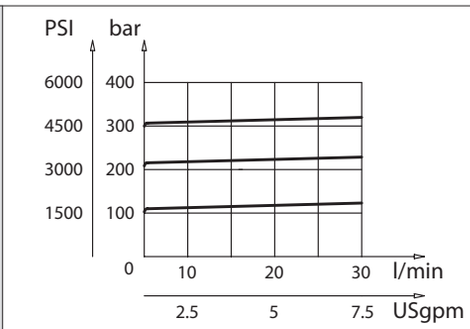
X	Regolazione *Setting*
C	
	Codice volantino / Flyer *Code* **81300023**
V	

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/90 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/210 bar** *(290/3000 PSI)* max	**30 bar/al giro** *(435 PSI/turn)*
3	**70/350 bar** *(1000/5000 PSI)* max	**65 bar/al giro** *(940 PSI/turn)*

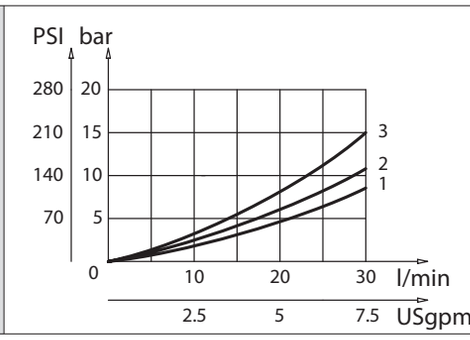
Caratteristiche tecniche
Technical performances

Codice *Code*	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD30	**30** *(8)*	**320** *(4500)*	**0,16** *(0.35)*	**25-30** *(19-22)*	**C2015/30**

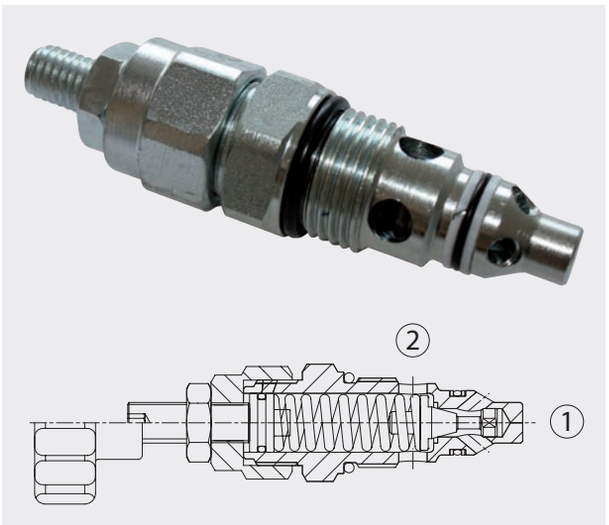
Perdite di carico ***Pressure drops***



Perdite di carico ***Pressure drops***



VMD8 Valvole di massima pressione
Relief valves

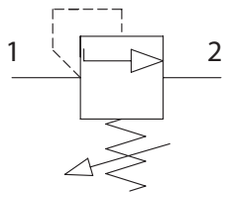


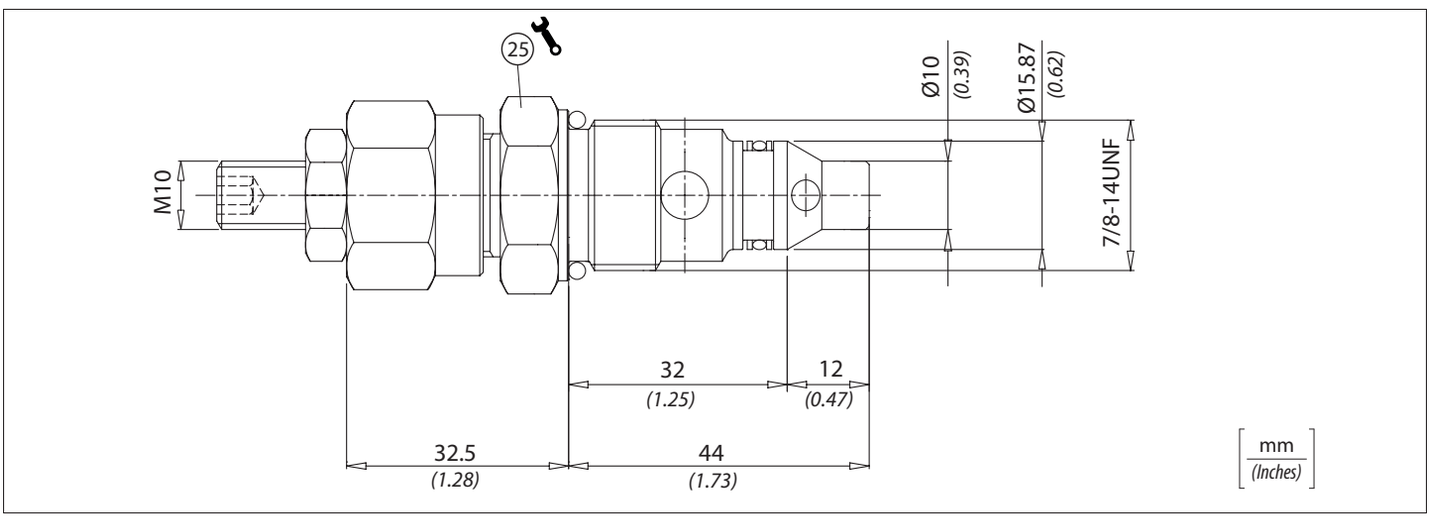
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

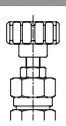
It is necessary a filter use to protect the valve (advised filtration 15 micron)





Codice ordinazione / *Ordering code*

VMD8 - X - Y

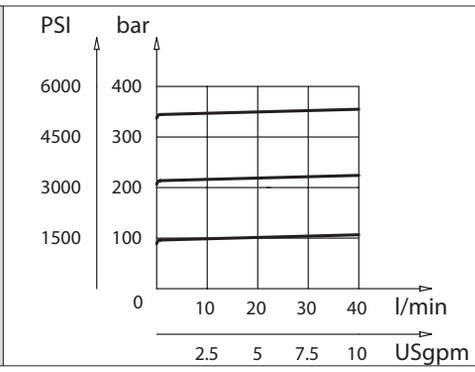
X	Regolazione *Setting*
C	
	Codice volantino / *Flyer Code* **81300023**
V	

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/90 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/210 bar** *(290/3000 PSI)* max	**30 bar/al giro** *(435 PSI/turn)*
3	**70/350 bar** *(1000/5000 PSI)* max	**65 bar/al giro** *(940 PSI/turn)*

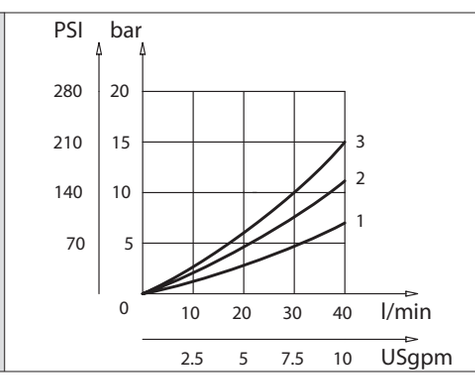
Caratteristiche tecniche
Technical performances

Codice *Code*	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD8	**40** *(10)*	**350** *(5000)*	**0,17** *(0.37)*	**41-47** *(30-35)*	**SAE10/2**

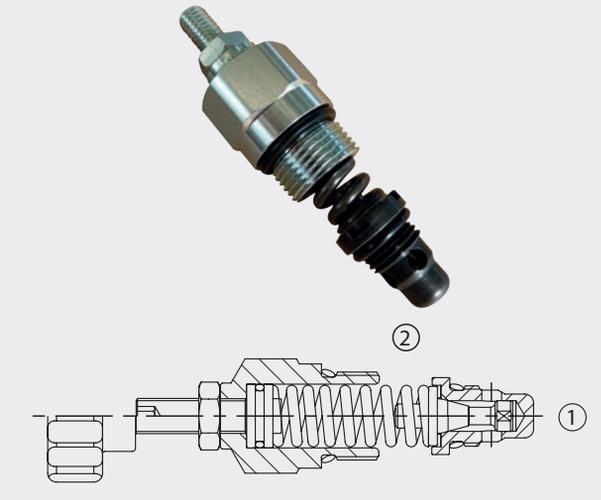
Perdite di carico *Pressure drops*



Perdite di carico *Pressure drops*



VMD40S Valvole di massima pressione *Relief valves*

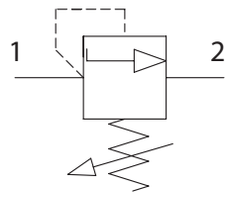


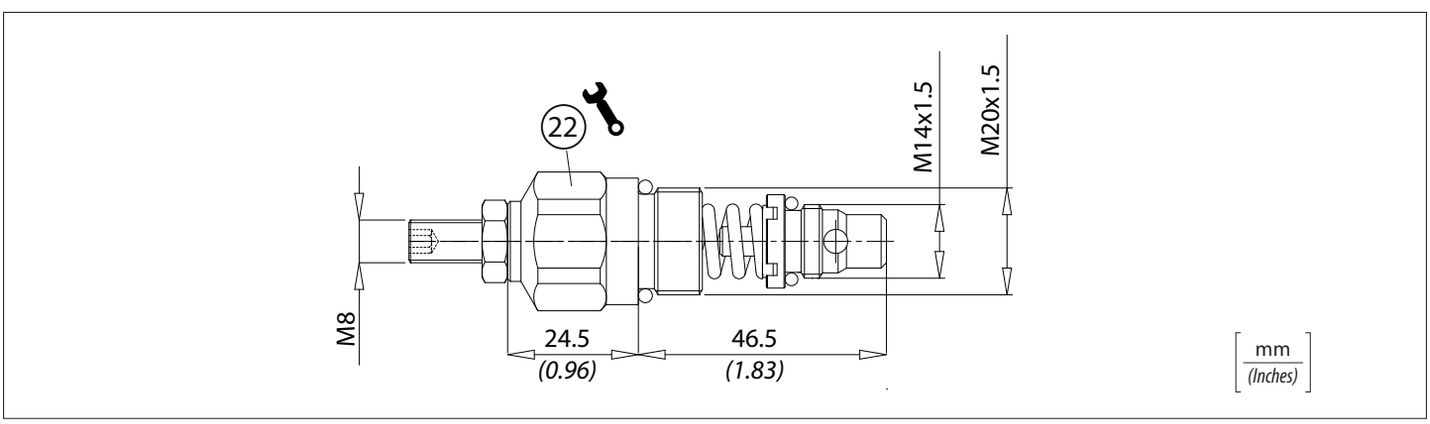
Dati tecnici *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





Codice ordinazione / *Ordering code*

VMD40S - X - Y

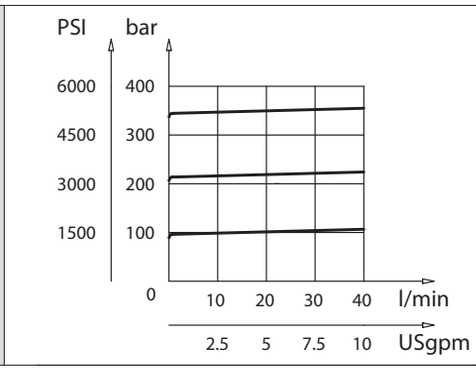
X	Regolazione *Setting*
C	
	Codice volantino / *Flyer Code* **81300109**
V	
	Chiave / *Tool* **61700008**

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/90 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/210 bar** *(290/3000 PSI)* max	**30 bar/al giro** *(435 PSI/turn)*
3	**70/350 bar** *(1000/5000 PSI)* max	**65 bar/al giro** *(940 PSI/turn)*

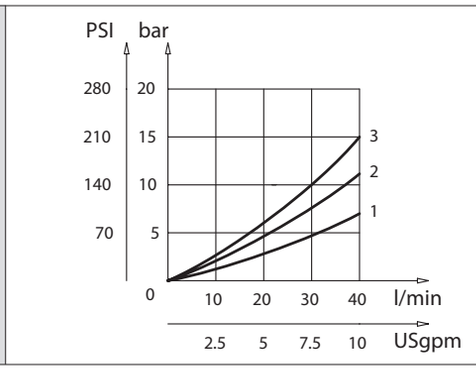
Caratteristiche tecniche / *Technical performances*

Codice *Code*	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD40S	**40** *(10)*	**350** *(5000)*	**0,12** *(0.26)*	**M20 40/45** *(30-34)*	**C2015/1415/2**
				M20 40/45 *(30-34)*	

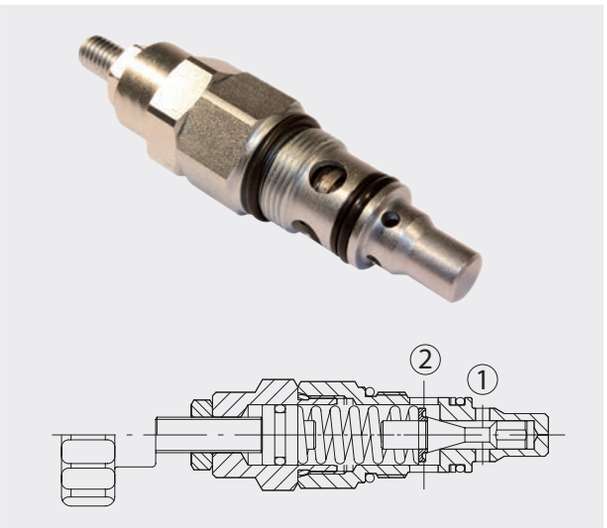
Perdite di carico *Pressure drops*



Perdite di carico *Pressure drops*



VMD90 Valvole di massima pressione
Relief valves

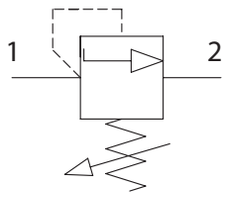


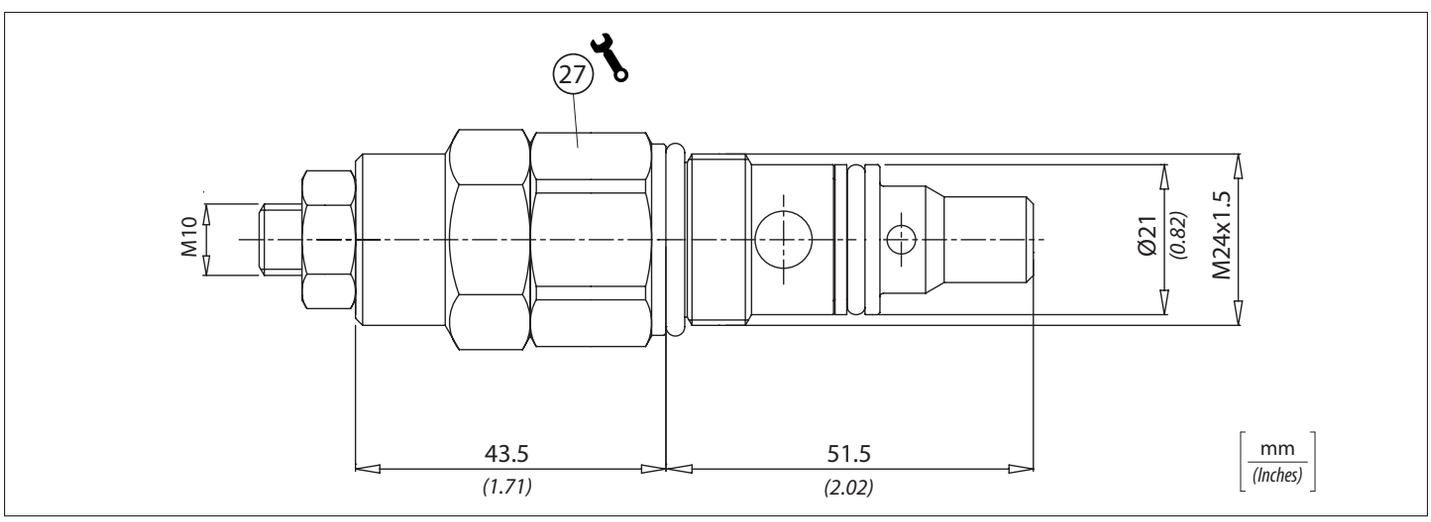
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

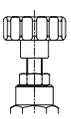
It is necessary a filter use to protect the valve (advised filtration 15 micron)





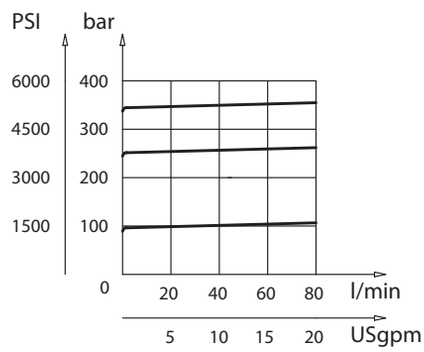
Codice ordinazione / *Ordering code*

VMD90 - X - Y

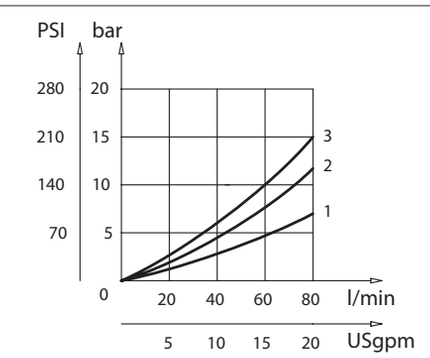
X	Regolazione *Setting*
C	
	Codice volantino / *Flyer Code* **81300023**
V	

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/90 bar** *(145/600 PSI)* max	**23 bar/al giro** *(333 PSI/turn)*
2	**20/250 bar** *(290/3600 PSI)* max	**40 bar/al giro** *(580 PSI/turn)*
3	**50/350 bar** *(725/5000 PSI)* max	**90 bar/al giro** *(1300 PSI/turn)*

Perdite di carico *Pressure drops*



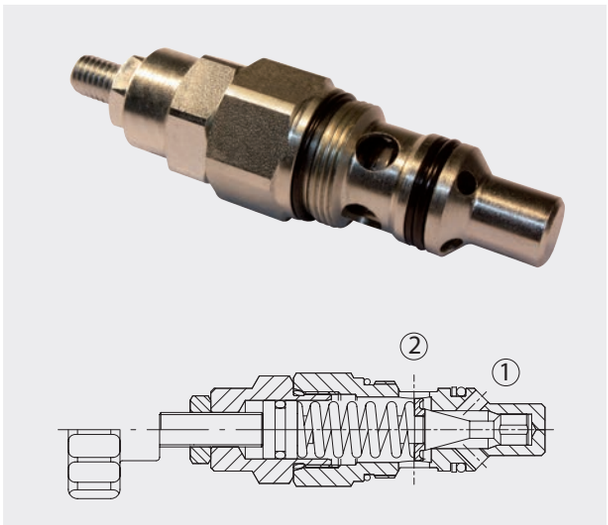
Perdite di carico *Pressure drops*



Caratteristiche tecniche
Technical performances

Codice *Code*	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD90	**80** *(21)*	**350** *(5000)*	**0,25** *(0.55)*	**60-65** *(45-49)*	**C2415/2**

VMD120 Valvole di massima pressione
Relief valves

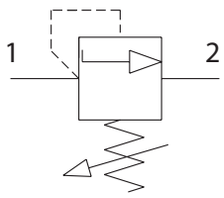


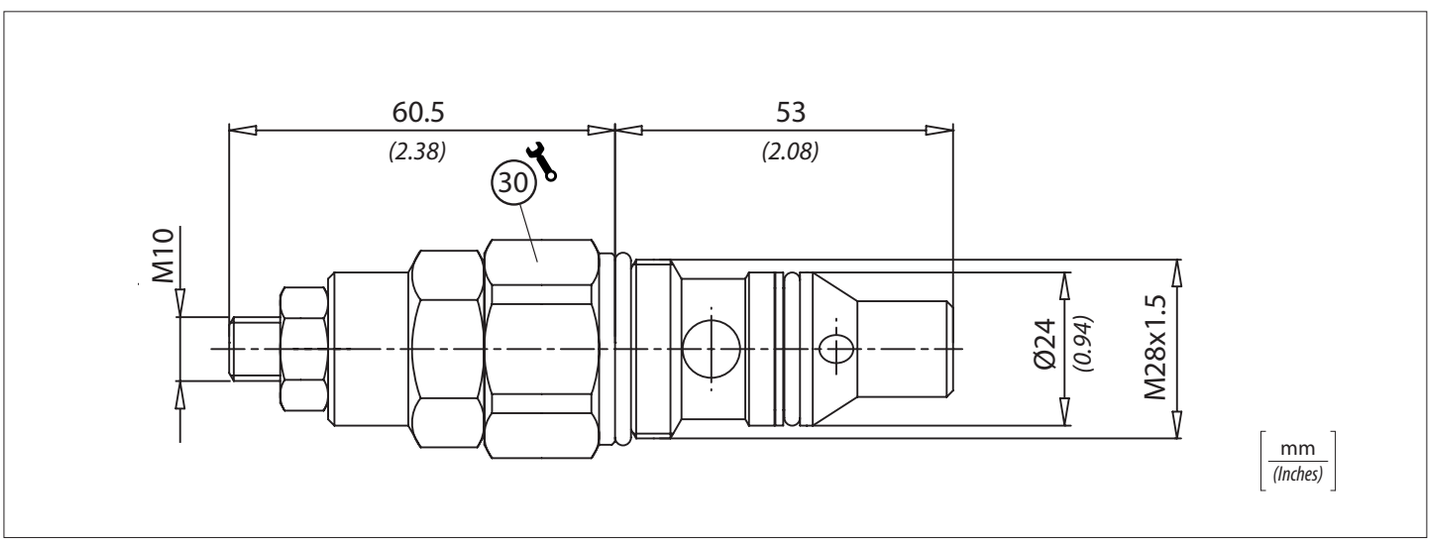
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

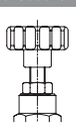
It is necessary a filter use to protect the valve (advised filtration 15 micron)





Codice ordinazione / *Ordering code*

VMD120 - X - Y

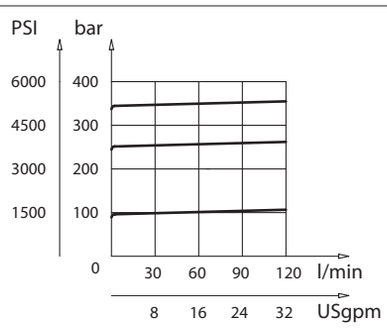
X	Regolazione *Setting*
C	
	Codice volantino / *Flyer Code* **81300023**
V	

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/100 bar** *(145/1450 PSI)* max	**20 bar/al giro** *(290 PSI/turn)*
2	**20/250 bar** *(290/3600 PSI)* max	**45 bar/al giro** *(652 PSI/turn)*
3	**40/350 bar** *(580/5000 PSI)* max	**50 bar/al giro** *(725 PSI/turn)*

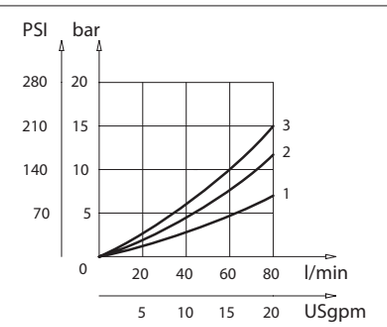
Caratteristiche tecniche
Technical performances

Codice *Code*	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD120	**120** *(30)*	**350** *(5000)*	**0,30** *(0.65)*	**60-65** *(45-49)*	**C2815/2**

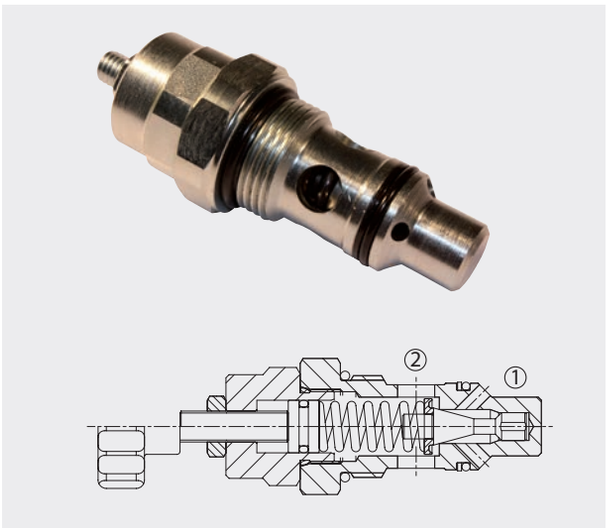
Perdite di carico ***Pressure drops***



Perdite di carico ***Pressure drops***



VMD150 Valvole di massima pressione *Relief valves*

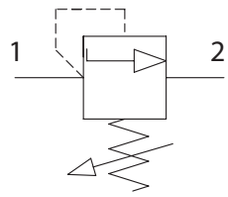


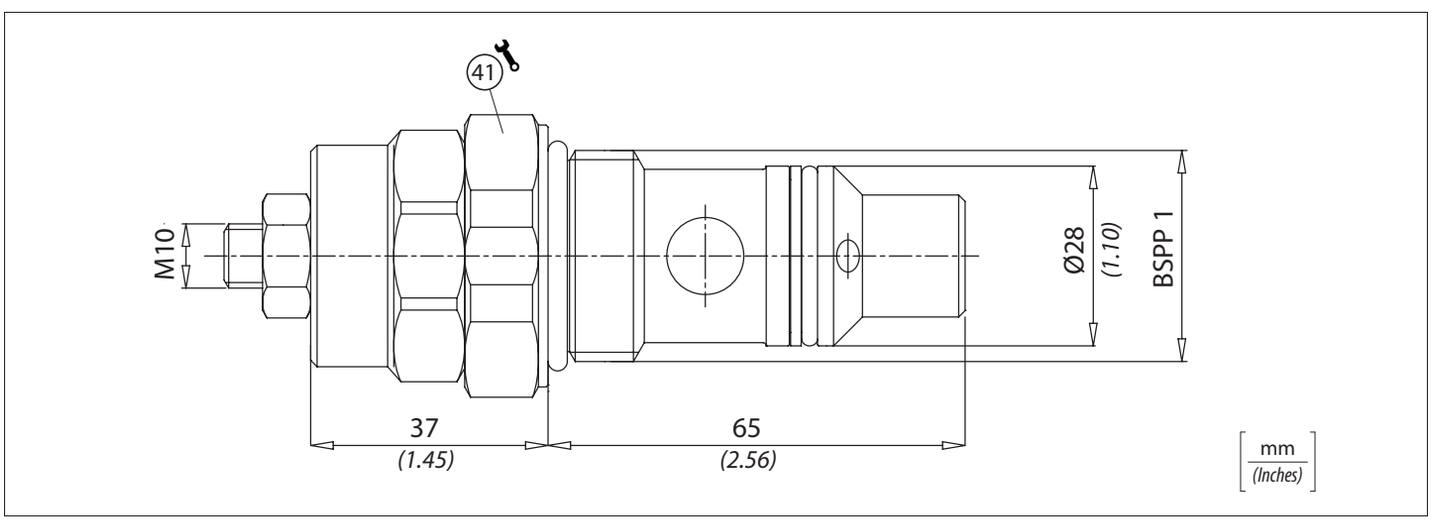
Dati tecnici *Technical data*

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

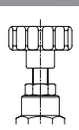
It is necessary a filter use to protect the valve (advised filtration 15 micron)





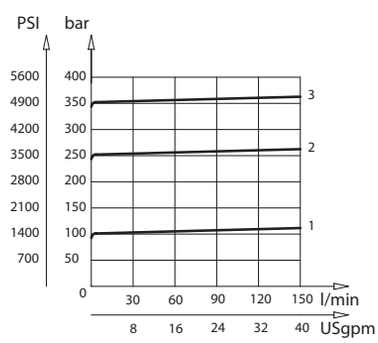
Codice ordinazione / *Ordering code*

VMD150 - X - Y

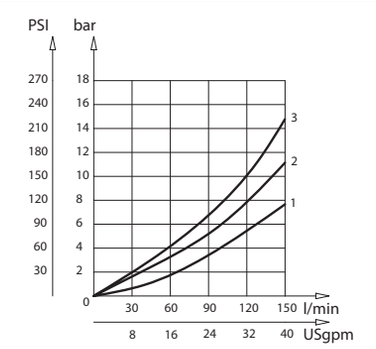
X	Regolazione *Setting*
C	
	Codice volantino / *Flyer Code* **81300023**
V	

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/100 bar** *(145/1450 PSI)* max	**20 bar/al giro** *(290 PSI/turn)*
2	**20/250 bar** *(290/3600 PSI)* max	**45 bar/al giro** *(652 PSI/turn)*
3	**50/350 bar** *(725/5000 PSI)* max	**50 bar/al giro** *(725 PSI/turn)*

Perdite di carico *Pressure drops*



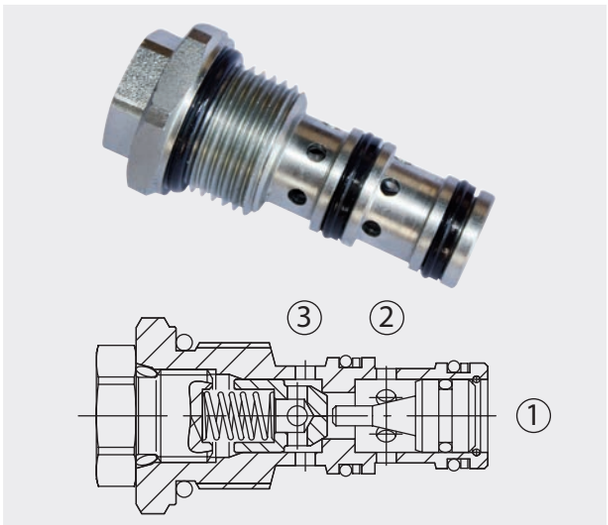
Perdite di carico *Pressure drops*



Caratteristiche tecniche *Technical performances*

Codice *Code*	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD150	**150** *(40)*	**350** *(5000)*	**0,50** *(1.1)*	**70-75** *(52-56)*	**C100/2**

VPR Valvole di blocco pilotate a semplice effetto
Single acting pilot check valves

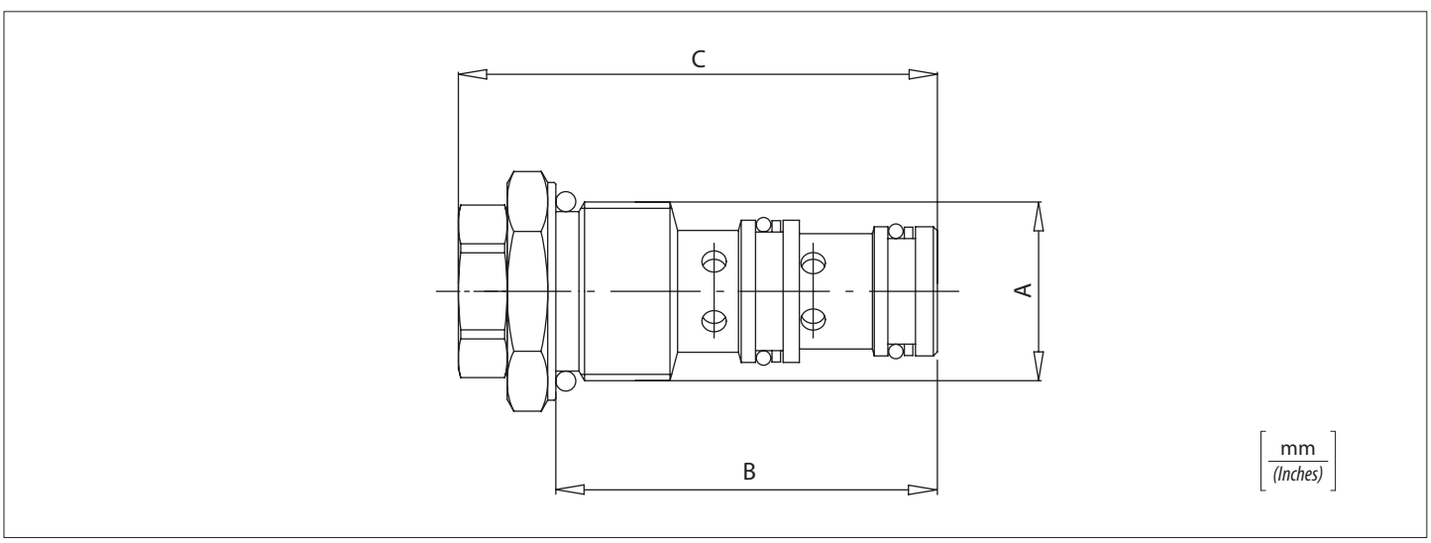


Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

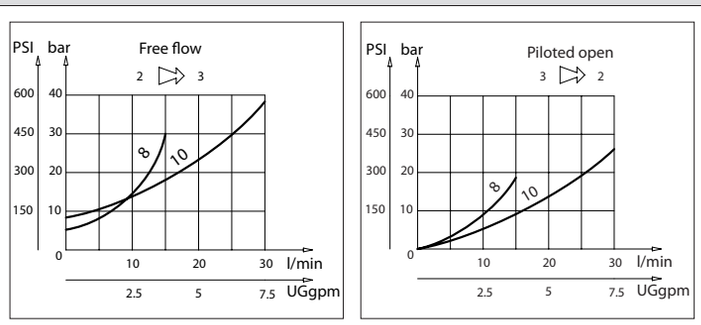


Codice ordinazione
Ordering code

VPR - X

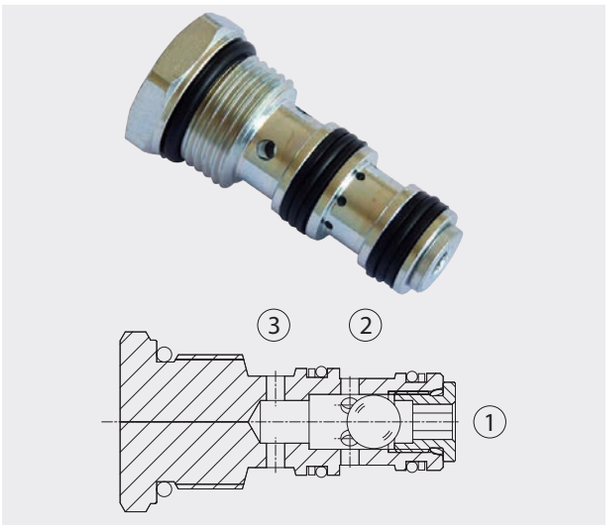
X	Dimensione / *Dimension*
08	3/4 - 16UNF
10	7/8 - 14UNF

Perdite di carico / *Pressure drops*



Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	B	C	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Rapporto di pilotaggio *Pilot ratio*	Cavità *Cavity*
VPR08	**3/4 - 16 UNF**	**15** *(4)*	**350** *(5000)*	**41** *(1.61)*	**57** *(2.24)*	**0,10** *(0.22)*	**25-30** *(19-22)*	**1:2.5**	**SAE8/3**
VPR10	**7/8 - 14 UNF**	**30** *(8)*		**47** *(1.85)*	**59** *(2.32)*	**0,11** *(0.25)*	**41-47** *(30-35)*	**1:3**	**SAE10/3**

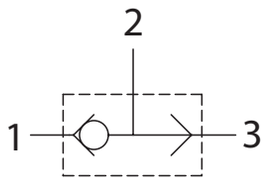


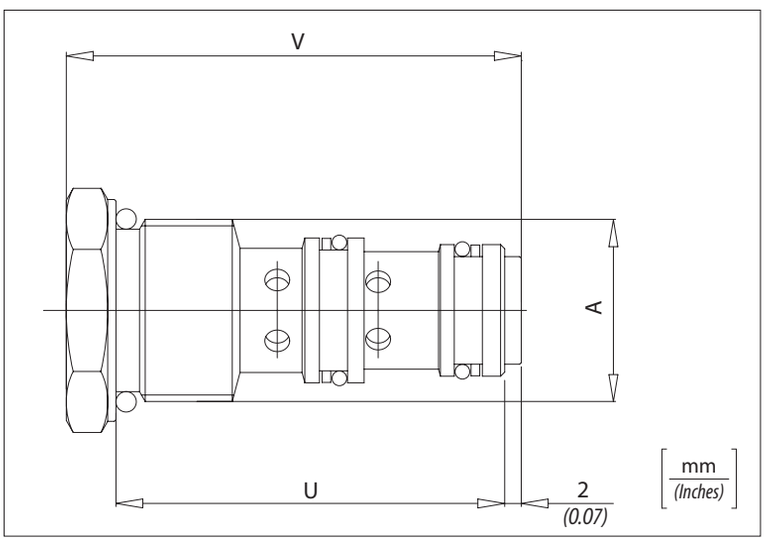
Dati tecnici
Technical data

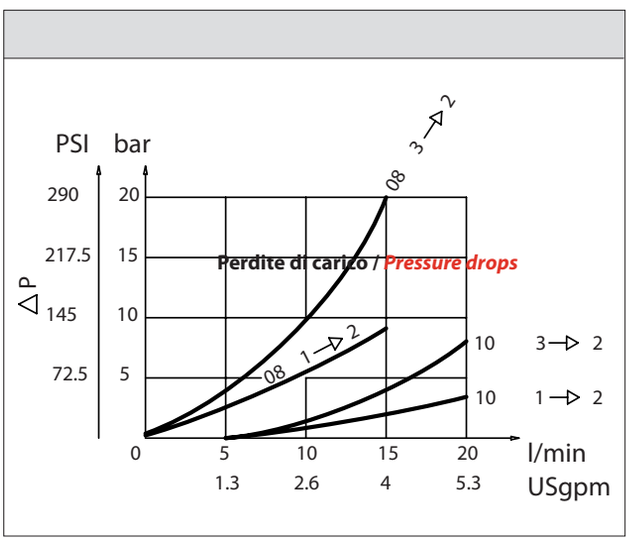
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)







Codice ordinazione
Ordering code

SV - X

X	Dimensione / *Dimension*
08	3/4 - 16UNF
10	7/8 - 14UNF

Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	U	V	Peso approssimativo *Approx weight* Kg/ *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
SV08	**3/4 - 16 UNF**	**15** *(4)*	**350** *(5000)*	**41** *(1.61)*	**49** *(1.93)*	**0,10** *(0.22)*	**25-30** *(19-22)*	**SAE8/3**
SV10	**7/8 - 14 UNF**	**30** *(8)*		**47** *(1.85)*	**55** *(2.16)*	**0,11** *(0.25)*	**41-47** *(30-35)*	**SAE10/3**

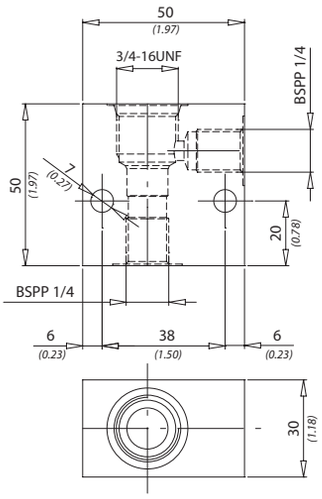
BLOCCHI *Manifolds*

BLOCCO IN ACCIAIO 50
(Steel Manifold 50)

Cod. **62200032**

Peso approssimativo Kg
Approx weight (lb)

0,5 *(1.1)*



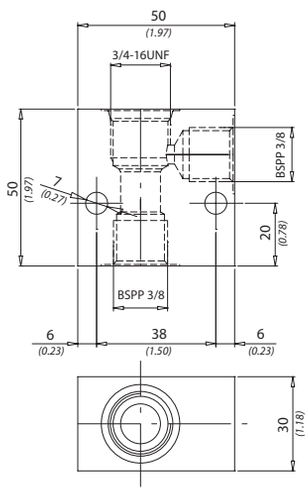
mm
(Inches)

BLOCCO IN ACCIAIO 51
(Steel Manifold 51)

Cod. **62200051**

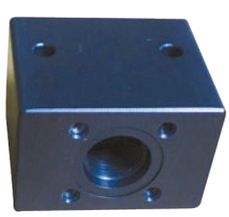
Peso approssimativo Kg
Approx weight (lb)

0,45 *(1)*



mm
(Inches)

BLOCCO IN ALLUMINIO 52
(Aluminium manifold 52)

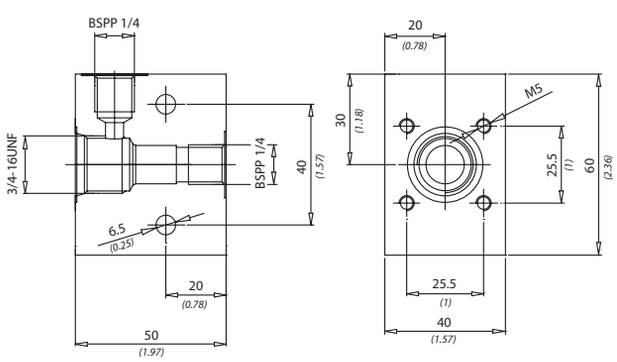


Cod. **62200023**

Peso approssimativo Kg
Approx weight (lb)

0,3 *(0.66)*

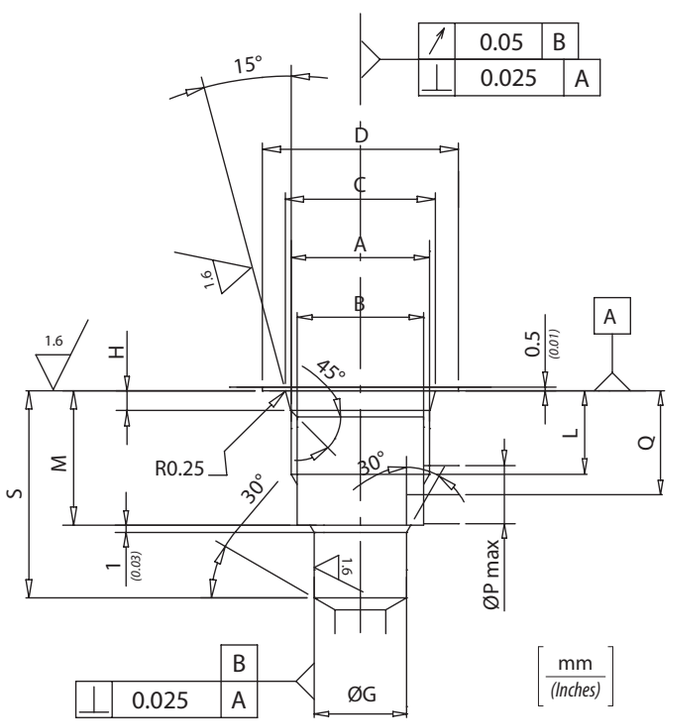
Il blocco in alluminio può essere utilizzato per pressioni fino a 210bar (3000PSI)
Aluminium manifold can be used for pressures up to 210 bar (3000PSI)



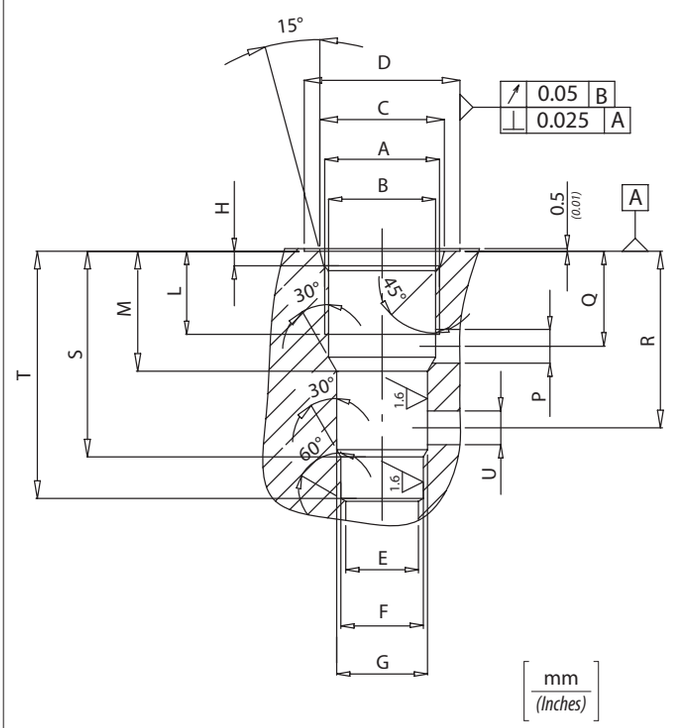
mm
(Inches)

CAVITÀ SAE *SAE cavities*

SAE_ _/2



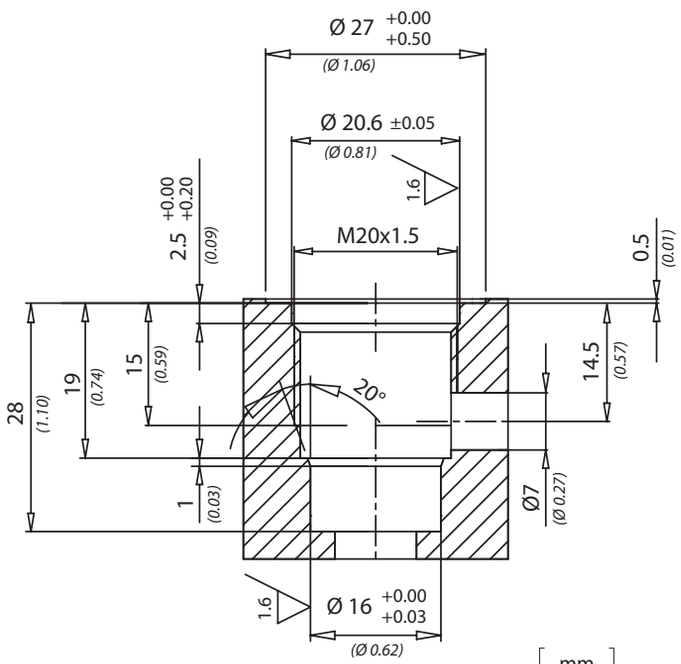
SAE_ _/3



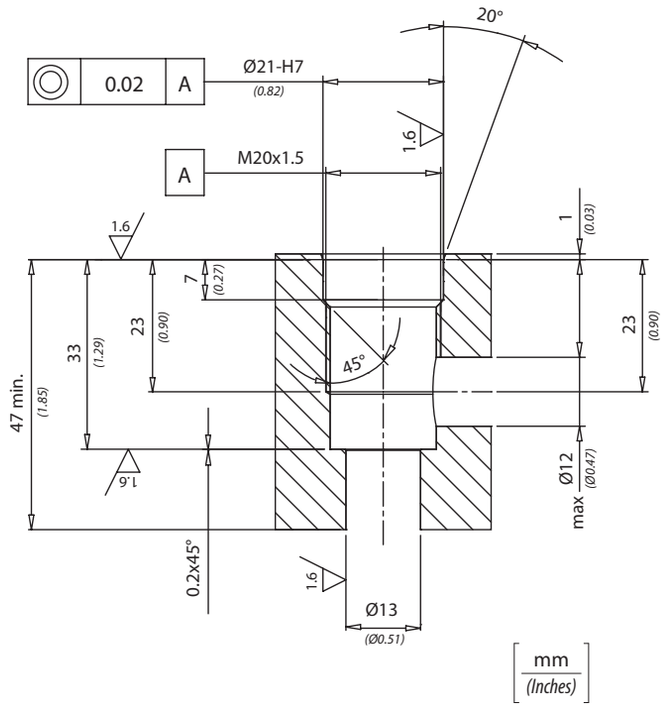
Dimensioni / *Dimensions*

Codice *Code*	A	B ± 0,05	C ± 0,05	D	E Ø max	F ± 0,02	G ± 0,02	H	L	M	P	Q	R	S	T	U
SAE08/2	**3/4-16 UNF**	**17,42** *(0.686)*	**20,66** *(0.686)*	**27** *(1.063)*			**12,72** *(0.50)*	**2,7** *(0.106)*	**11,50** *(0.452)*	**18,50** *(0.728)*	**8** *(0.315)*	**14,30** *(0.563)*		**28,50** *(1.122)*		
SAE08/3					**12,5** *(0.492)*	**14,30** *(0.563)*	**15,90** *(0.626)*			**19,10** *(0.752)*	**5,5** *(0.216)*		**28,6** *(1.126)*	**33,30** *(1.311)*	**41,30** *(1.62)*	**5,5** *(0.21)*
SAE10/2	**7/8-14 UNF**	**20,62** *(0.812)*	**24** *(0.812)*	**30** *(1.181)*				**2,8** *(0.110)*	**16** *(0.630)*	**23,80** *(0.937)*	**11** *(0.433)*	**18,30** *(0.720)*				
SAE10/3					**14** *(0.551)*	**15,90** *(0.626)*	**17,50** *(0.689)*			**23,10** *(0.909)*	**6,5** *(0.256)*		**34** *(1.338)*	**39,60** *(1.560)*	**47,60** *(1.87)*	**6,5** *(0.25)*
SAE12/2	**1-1/16-12 UNF**	**24,73** *(0.973)*	**29,23** *(1.151)*	**38** *(1.496)*			**22,25** *(0.876)*	**3,56** *(0.140)*	**19** *(0.748)*	**34,10** *(1.342)*	**19** *(0.748)*	**24,50** *(0.964)*		**46,80** *(1.842)*		
SAE12/3					**19** *(0.748)*	**22,25** *(0.876)*	**23,82** *(0.938)*			**36,60** *(1.441)*	**16** *(0.630)*		**53** *(2.086)*	**63,50** *(2.5)*	**75,40** *(2.96)*	**16** *(0.62)*
SAE16/2	**1-5/16-12 UNF**	**31,34** *(1.233)*	**35,58** *(1.4)*	**45** *(1.771)*			**28,62** *(1.126)*	**3,49** *(0.137)*	**22** *(0.866)*	**34,10** *(1.342)*	**19** *(0.748)*			**46,80** *(1.842)*		
SAE16/3					**19** *(0.748)*	**27,08** *(1.063)*				**36,60** *(1.441)*	**16** *(0.630)*		**53** *(2.086)*	**64,30** *(2.53)*	**75,40** *(2.96)*	**16** *(0.62)*

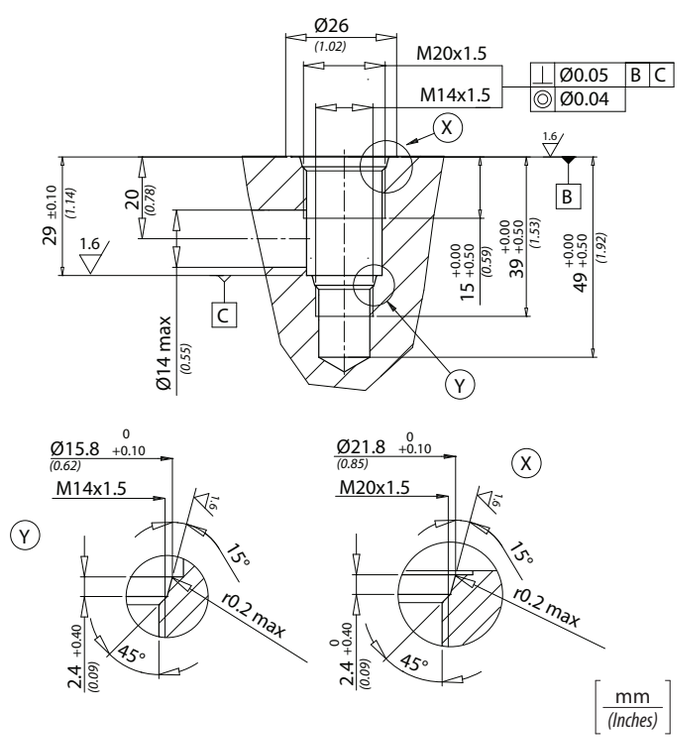
C2015/2



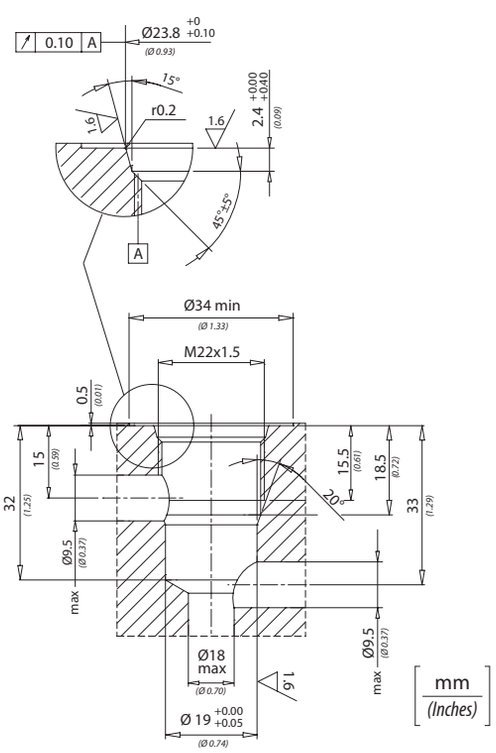
C2015/30



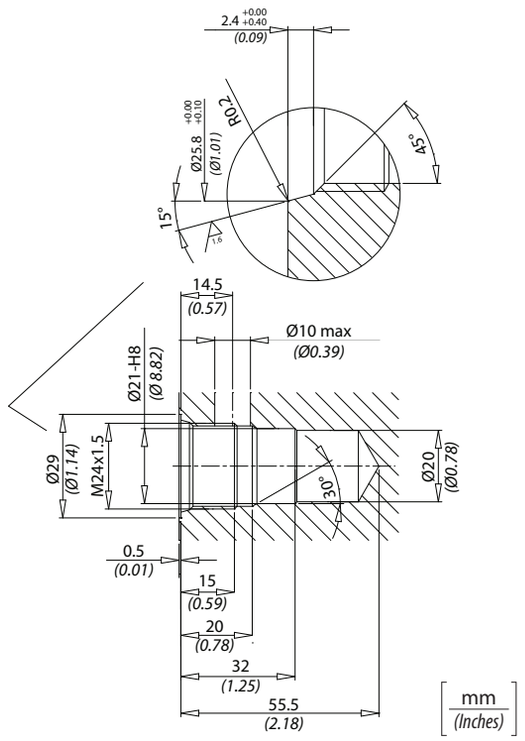
C2015/1415/2



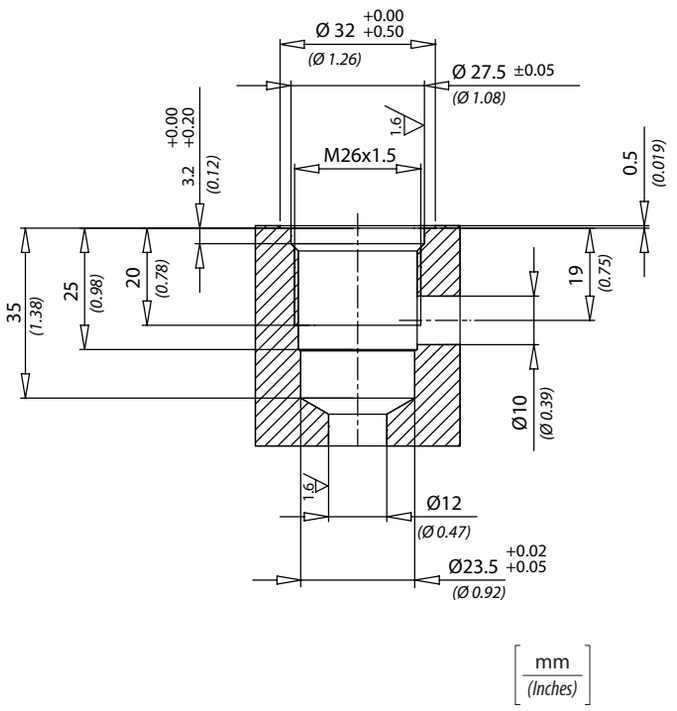
C2215/2



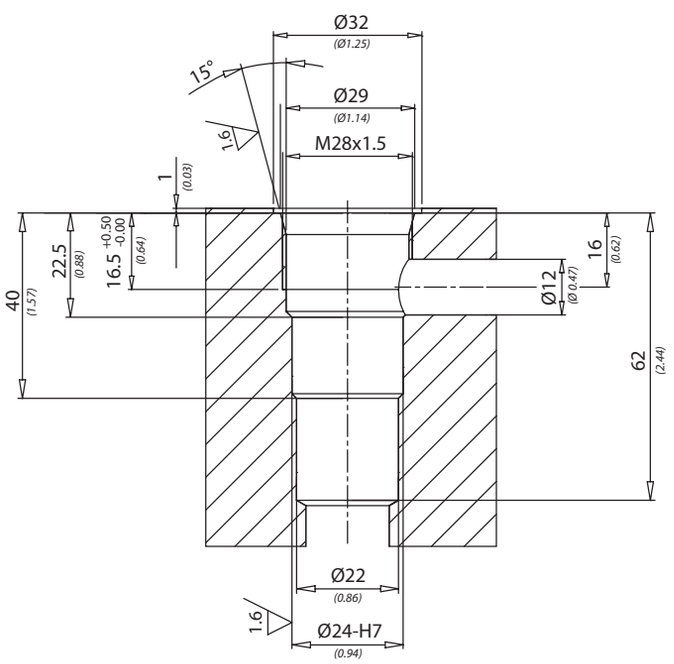
C2415/2



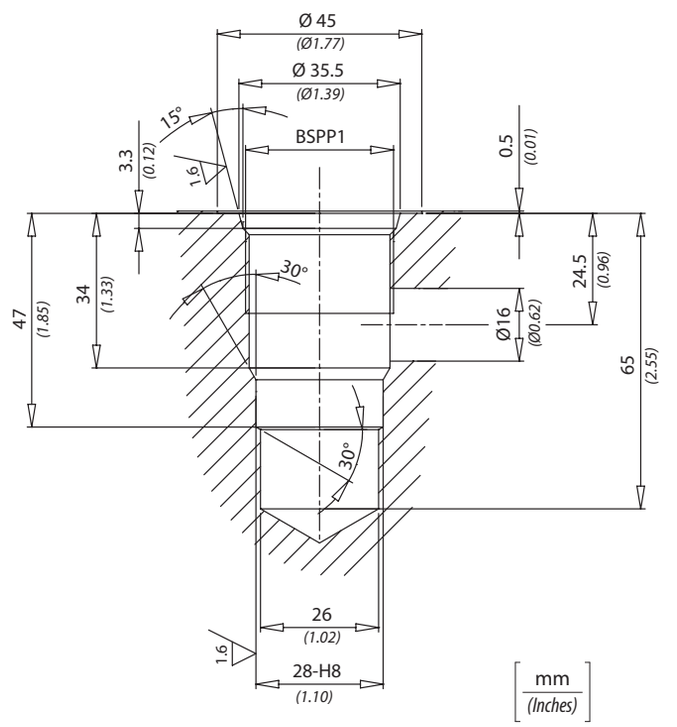
C2615/2

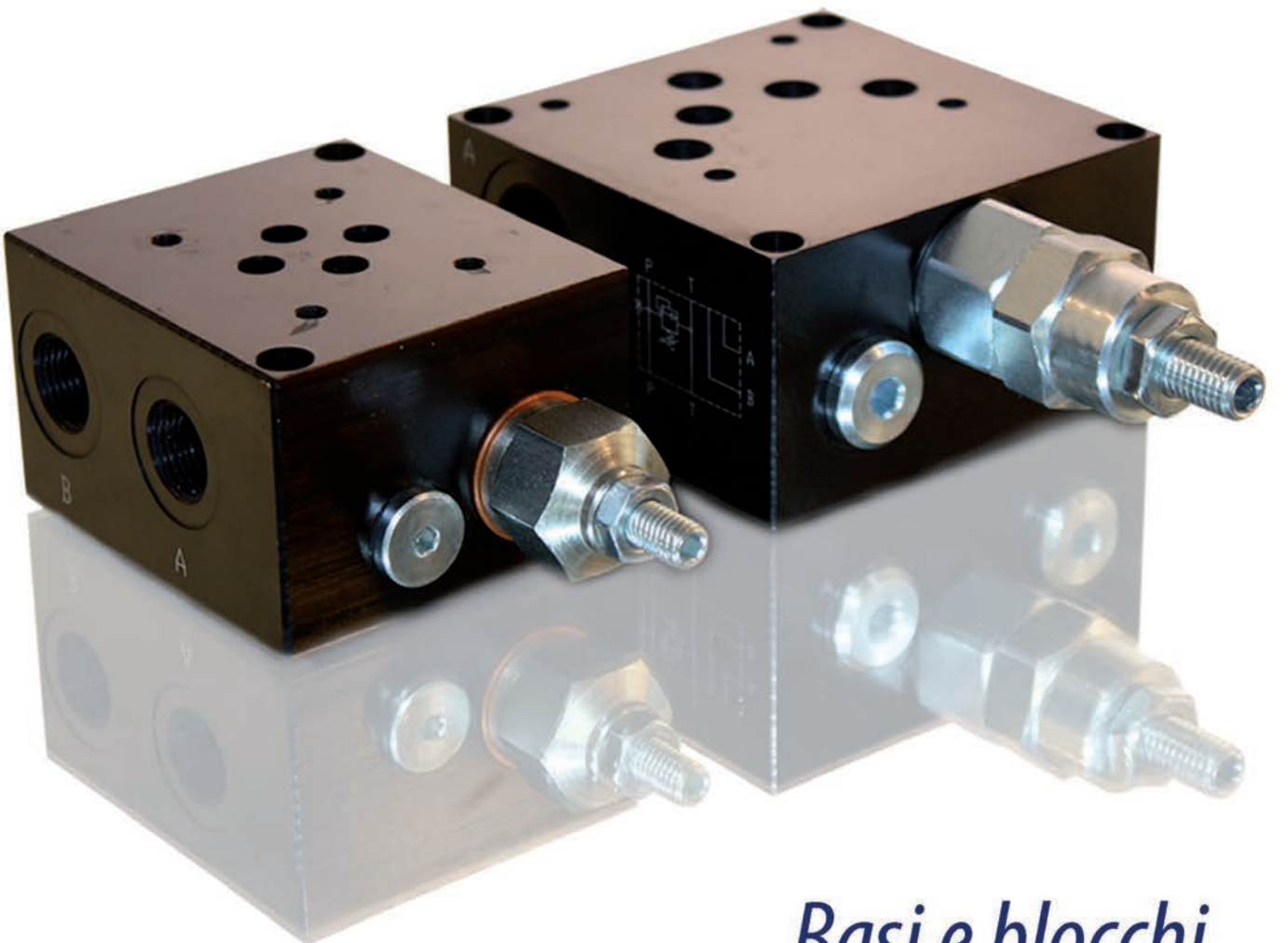


C2815/2



C100/2





Basi e blocchi

Hydraulic manifolds

Oleoweb

HYDRAULIC VALVES AND COMPONENTS

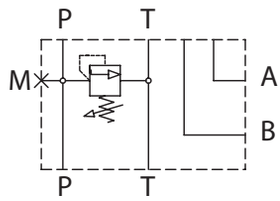
BS3 Basi singole cetop3 in alluminio
Aluminium cetop3 single manifolds

Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

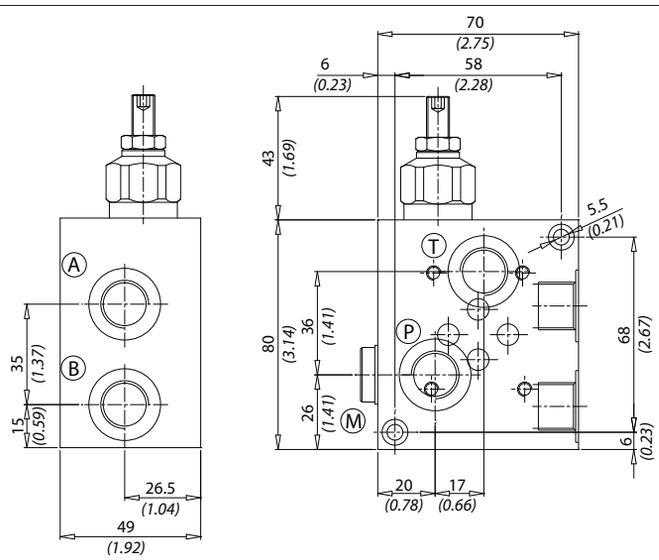


Attacchi / *Ports*

P-T-A-B	**BSPP 3/8**
M	**BSPP 1/4**

Il blocco in alluminio può essere utilizzato per pressioni fino a 210bar (3000PSI)

Aluminium manifold can be used for pressures up to 210 bar (3000PSI)



Codice ordinazione / *Ordering code*

BS3 - X - Y

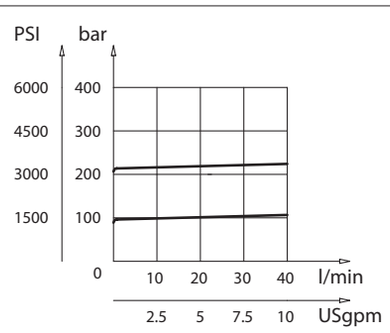
X	Regolazione *Setting*
C	
	Codice volantino / *Flyer Code* **81300109**
V	

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/90 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/210 bar** *(290/3000 PSI)* max	**30 bar/al giro** *(435 PSI/turn)*

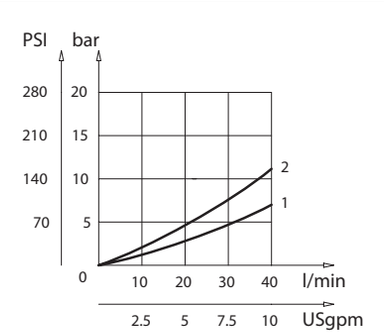
Caratteristiche tecniche
Technical performances

Codice *Code*	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*	Tipo di valvola *Type of valve*
BS3	**40** *(10)*	**210** *(3000)*	**0,8** *(1.76)*	**VMD40**

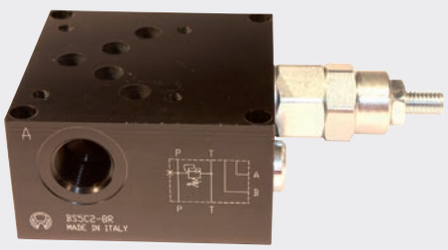
Perdite di carico *Pressure drops*



Perdite di carico *Pressure drops*



BS5 Basi singole cetop5 in alluminio
Aluminium cetop5 single manifolds

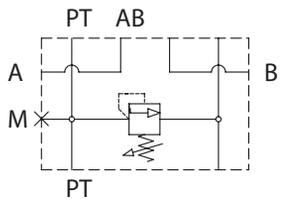


Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

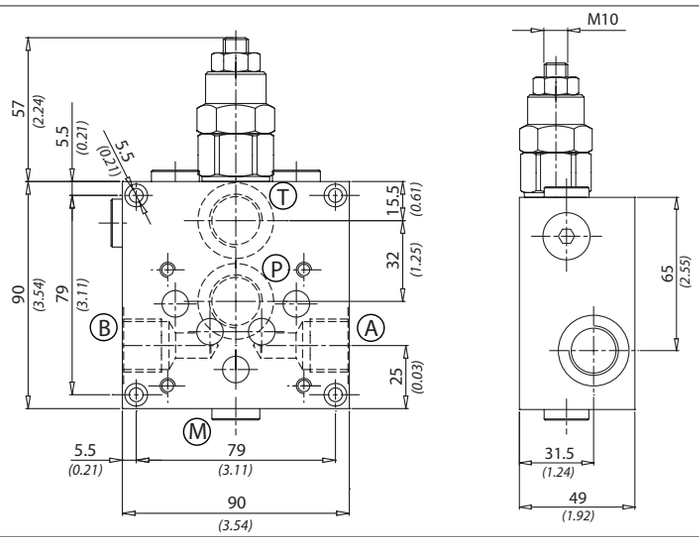


Attacchi / *Ports*

P-T-A-B	**BSPP 1/2**
M	**BSPP 1/4**

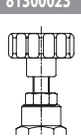
Il blocco in alluminio può essere utilizzato per pressioni fino a 210bar (3000PSI)

Aluminium manifold can be used for pressures up to 210 bar (3000PSI)



Codice ordinazione / *Ordering code*

BS5 - X - Y

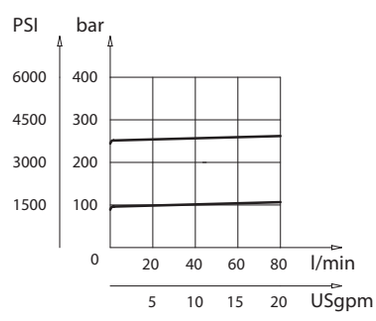
X	Regolazione *Setting*
C	
	Codice volantino / *Flyer Code* **81300023**
V	

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/100 bar** *(145/1450 PSI)* max	**23 bar/al giro** *(333 PSI/turn)*
2	**20/210 bar** *(290/3000 PSI)* max	**40 bar/al giro** *(580 PSI/turn)*

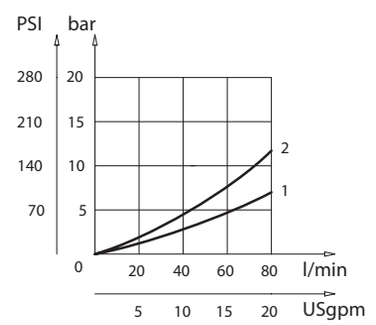
Caratteristiche tecniche
Technical performances

Codice *Code*	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*	Tipo di valvola *Type of valve*
BS5	**80** *(20)*	**210** *(3000)*	**1,25** *(2.75)*	**VMD90**

Perdite di carico / ***Pressure drops***



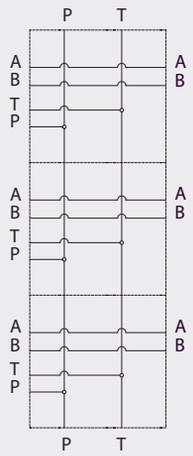
Perdite di carico / ***Pressure drops***



BM

Basi multiple in parallelo in alluminio utilizzati laterali senza valvola di massima pressione

Aluminium parallel multiple manifolds - lateral ports without relief valve



Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

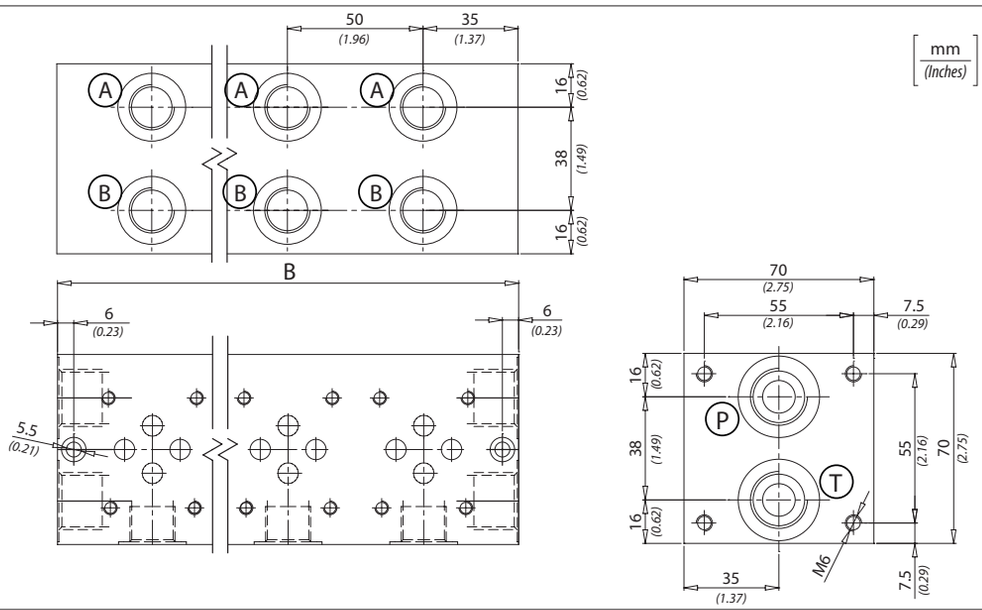
It is necessary a filter use to protect the valve (advised filtration 15 micron)

Attacchi / *Ports*

P-T	**BSPP 1/2**
M	**BSPP 1/4**
A-B	**BSPP 3/8**

Il blocco in alluminio può essere utilizzato per pressioni fino a 210bar (3000PSI)

Aluminium manifold can be used for pressures up to 210 bar (3000PSI)



Codice ordinazione / *Ordering code*

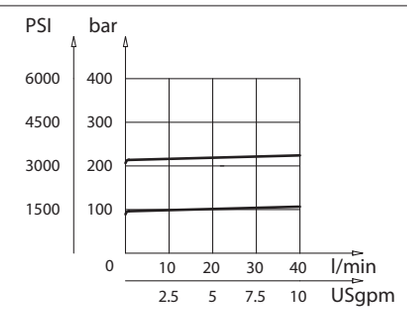
BM - X - A

X	Stazioni *Stations*	A
2		
3	**Numero di stazioni** *Number of stations*	**A:** Alluminio */Aluminium*
4		
5		
6		

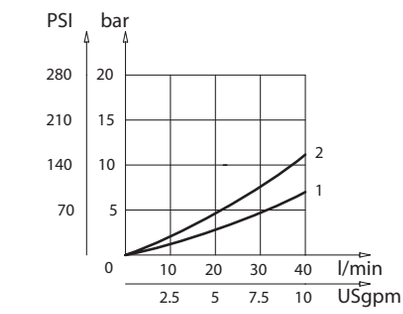
Caratteristiche tecniche / *Technical performances*

Codice *Code*	N. di stazioni *N. of stations*	B	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg/ *lb*
BM2	**2**	**120** *(4.72)*	**40** *(10)*	**210** *(3000)*	**1,5** *(3.30)*
BM3	**3**	**170** *(6.69)*			**2,1** *(4.62)*
BM4	**4**	**220** *(8.66)*			**2,7** *(5.95)*
BM5	**5**	**270** *(10.63)*			**3,3** *(7.27)*
BM6	**6**	**320** *(12.60)*			**3,9** *(8.59)*

Perdite di carico *Pressure drops*

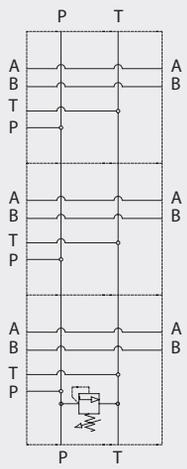


Perdite di carico *Pressure drops*



BM

Basi multiple in parallelo in alluminio utilizzati laterali con valvola di massima pressione
Aluminium parallel multiple manifolds - lateral ports with relief valve



Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

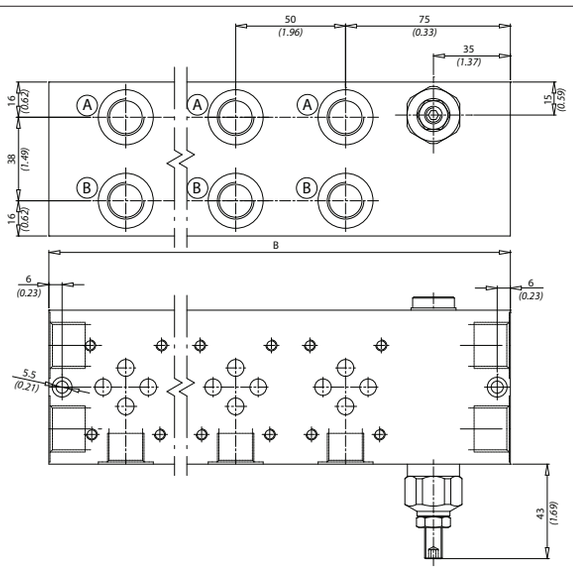
It is necessary a filter use to protect the valve (advised filtration 15 micron)

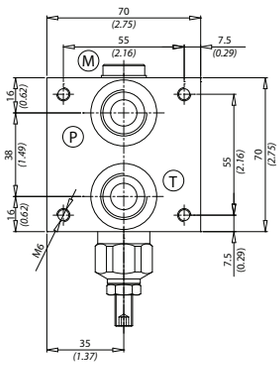
Attacchi / *Ports*

P-T	**BSPP 1/2**
M	**BSPP 1/4**
A-B	**BSPP 3/8**

Il blocco in alluminio può essere utilizzato per pressioni fino a 210bar (3000PSI)

Aluminium manifold can be used for pressures up to 210 bar (3000PSI)





mm (Inches)

Codice ordinazione / *Ordering code*

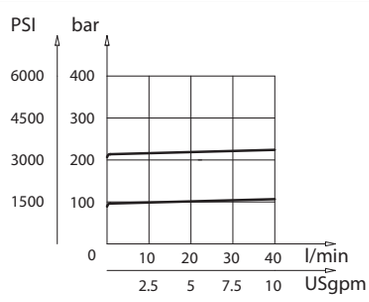
BM - X - A - Y - K

X	Stazione *Stations*	A	Y	Stazione *Stations*	K	Molla *Spring*	Incremento pressione al giro *Press. increase*
2			C		1	**10/90 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
3	**Numero di stazioni** *Number of stations*	**A:** Alluminio *Aluminium*	Codice / Code **81300109**				
4							
5			V		2	**20/210 bar** *(290/3000 PSI)* max	**30 bar/al giro** *(435 PSI/turn)*
6							

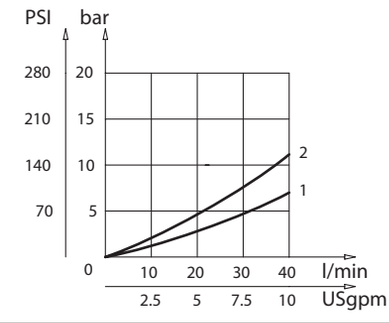
Caratteristiche tecniche / *Technical performances*

Codice *Code*	N. di stazioni *N. of stations*	B	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg/ *lb*	Tipo di valvola *Type of valve*
BM2	**2**	**160** *(6.30)*	**40** *(10)*	**210** *(3000)*	**2,1** *(4.6)*	**VMD40**
BM3	**3**	**210** *(8.27)*			**2,7** *(6)*	
BM4	**4**	**260** *(10.24)*			**3,3** *(7.3)*	
BM5	**5**	**310** *(12.20)*			**3,9** *(8.6)*	
BM6	**6**	**360** *(14.17)*			**4,5** *(10)*	

Perdite di carico *Pressure drops*



Perdite di carico *Pressure drops*



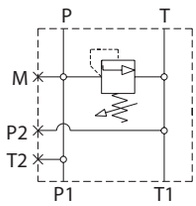
BC3 Base componibile cetop3 in alluminio
Aluminium cetop3 bankable manifolds

Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

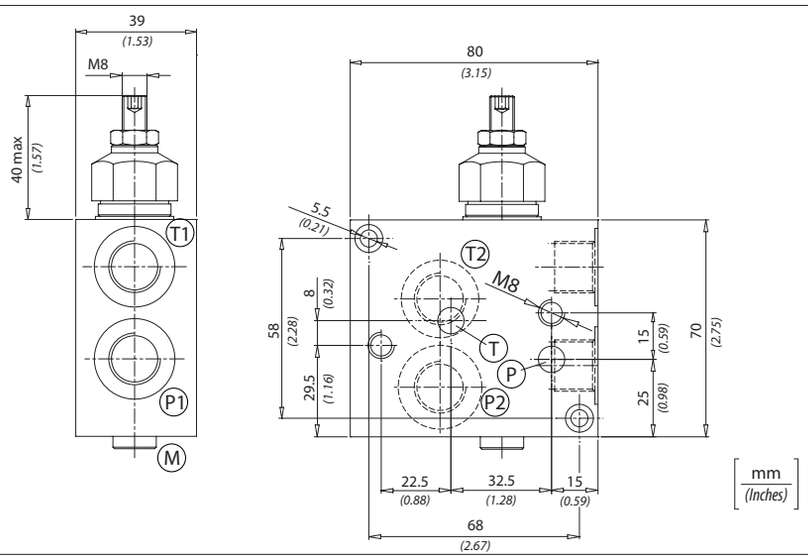


Attacchi / *Ports*

P-T-A-B	**BSPP 3/8**
M	**BSPP 1/4**

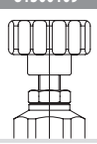
Il blocco in alluminio può essere utilizzato per pressioni fino a 210bar (3000PSI)

Aluminium manifold can be used for pressures up to 210 bar (3000PSI)



Codice ordinazione / *Ordering code*

BC3 - X - Y

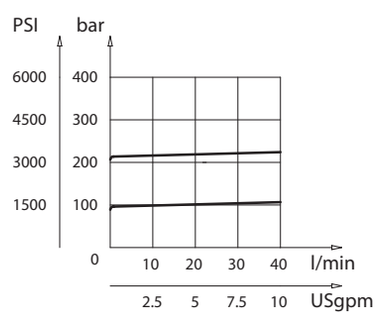
X	Regolazione *Setting*
C	
	Codice volantino / *Flyer Code* **81300109**
V	

Y	Molla *Spring*	Incremento pressione al giro *Press. increase*
1	**10/90 bar** *(145/600 PSI)* max	**12 bar/al giro** *(175 PSI/turn)*
2	**20/210 bar** *(290/3000 PSI)* max	**30 bar/al giro** *(435 PSI/turn)*

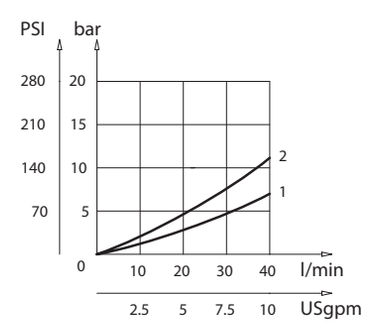
Caratteristiche tecniche
Technical performances

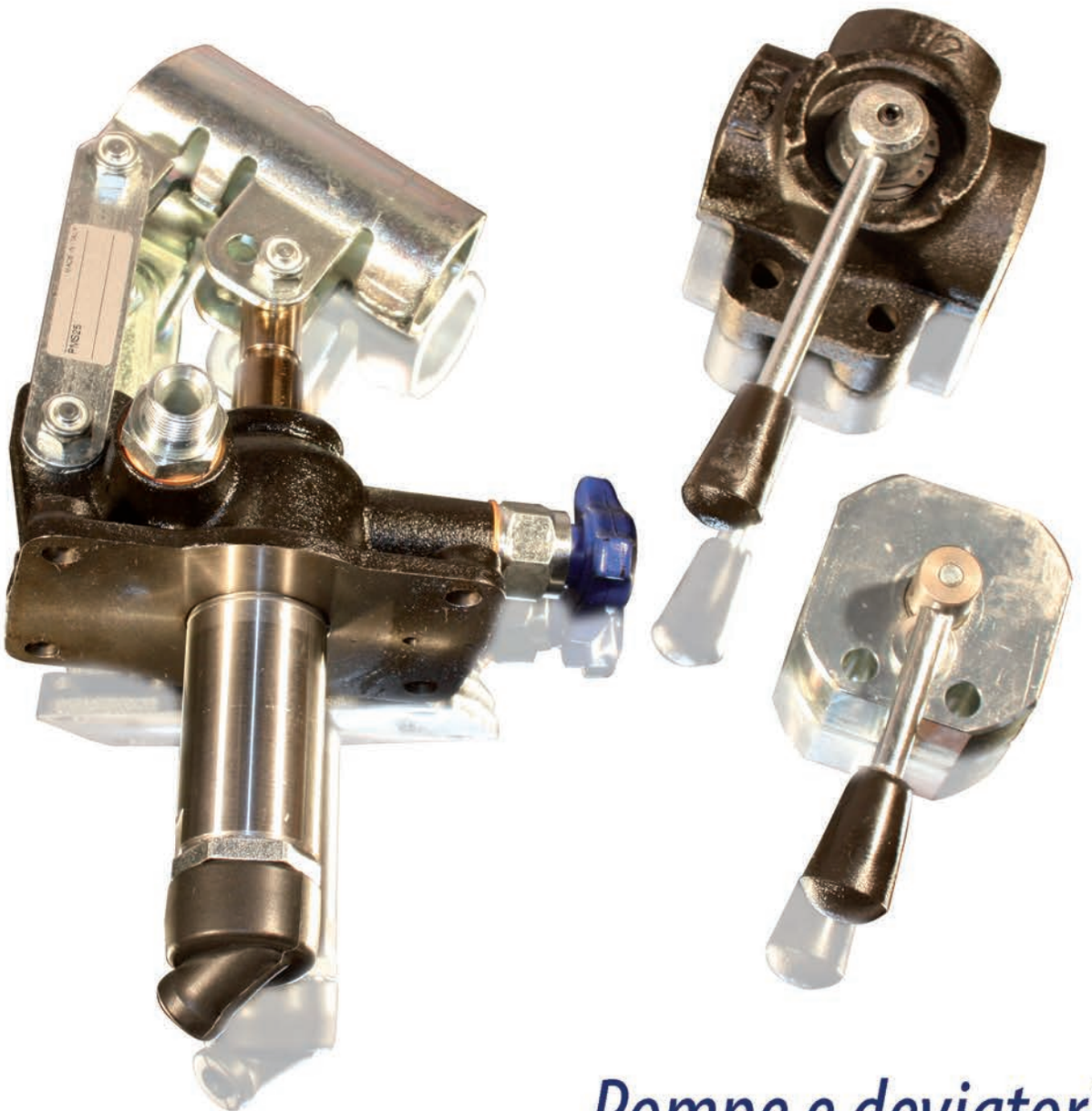
Codice *Code*	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*	Tipo di valvola *Type of valve*
BC3	**40** *(10)*	**210** *(3000)*	**0,7** *(1.54)*	**VMD40**

Perdite di carico *Pressure drops*



Perdite di carico *Pressure drops*





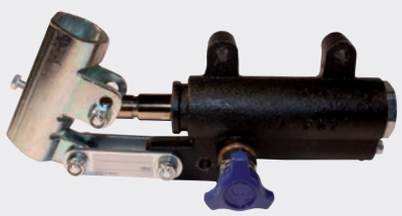
Pompe e deviatori

Hand pumps flow diverters

Oleoweb

HYDRAULIC VALVES AND COMPONENTS

PM20 Pompa a mano semplice effetto
Single acting hand pump



La pompa viene fornita con leva di azionamento L=600 mm

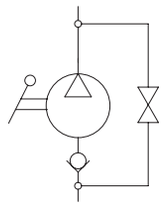
The pump is supplied with acting lever 23 in long

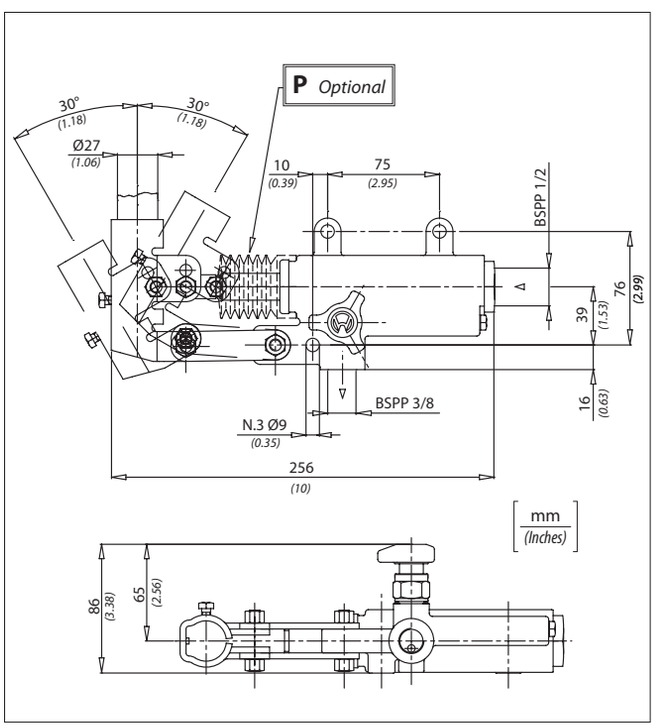
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



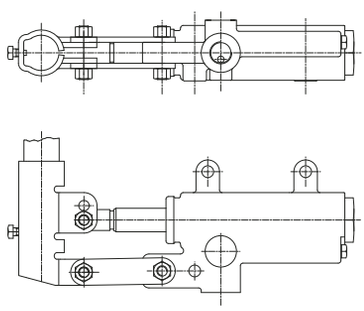


Codice ordinazione / *Ordering code*

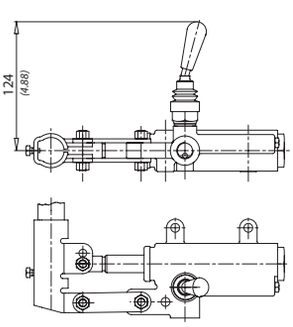
PM20 - X

X	Optional
P	**Soffietto** / *With rubber protection*
WRV	**Senza rubinetto di scarico con valvola di massima** *Without unloading valve with relief valve*
W	**Senza rubinetto di scarico** *Without unloading valve*
J	**Con joistick** / *With joistick*
L	**Con leva di scarico** *With unloading lever*
RRV	**Con rubinetto di scarico e valvola di massima** *With drain valve and relief valve*

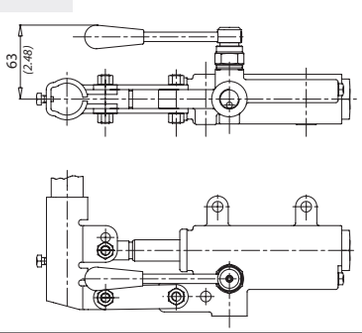
W



J



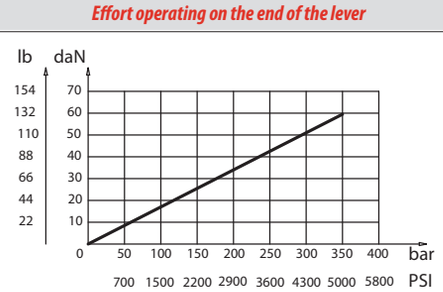
L



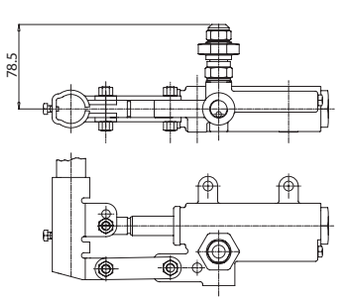
Caratteristiche tecniche / *Technical performances*

Codice *Code*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Cilindrata *Displacement* cm^3 / *in3*
PM20	**350** *(5000)*	**3,4** *(7.5)*	**20** *(1.22)*

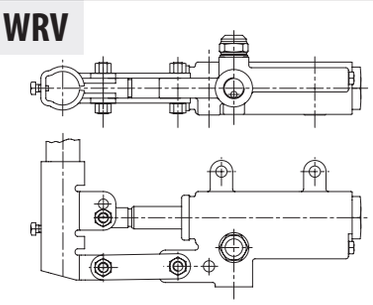
Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever



RRV

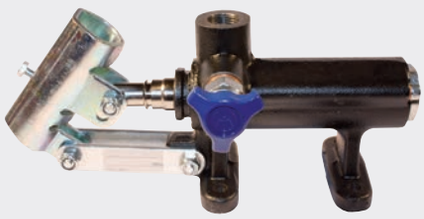


WRV



Valvola di massima *(Relief valve)* **Molla 40/350 bar** *Spring 580/5075 PSI* **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*

PM50 Pompa a mano semplice effetto
Single acting hand pump



La pompa viene fornita con leva di azionamento L=600 mm

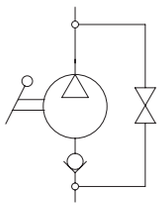
The pump is supplied with acting lever 23 in long

Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

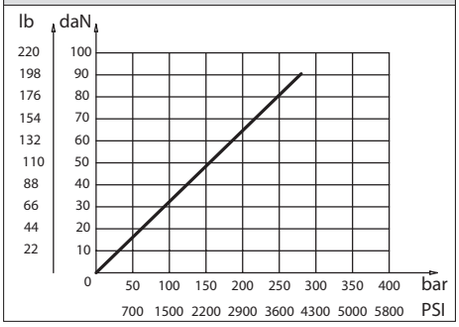
It is necessary a filter use to protect the valve (advised filtration 15 micron)

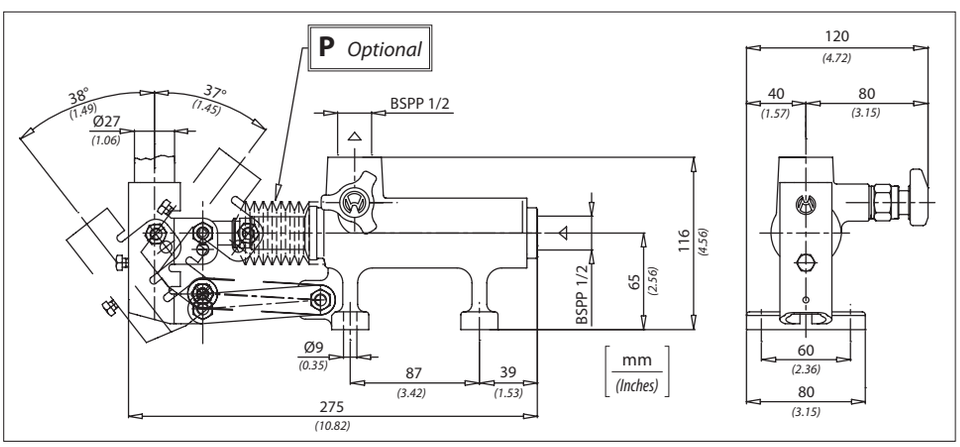


Caratteristiche tecniche / *Technical performances*

Codice *Code*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Cilindrata *Displacement* cm^3 / *in3*
PM50	**280** *(4000)*	**3,6** *(7.9)*	**50** *(3.05)*

Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever





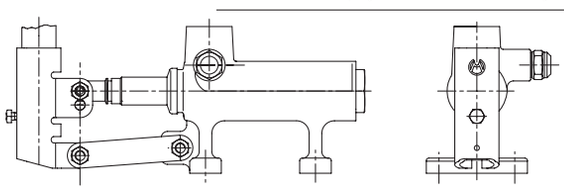
Codice ordinazione / *Ordering code*

PM50 - X

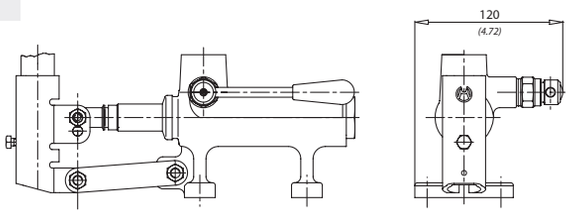
X	Optional
P	**Soffietto** / *With rubber protection*
WRV	**Senza rubinetto di scarico con valvola di massima** *Without unloading valve with relief valve*
W	**Senza rubinetto di scarico** / *Without unloading valve*
J	**Con joistick** / *With joistick*
L	**Con leva di scarico** / *With unloading lever*
RRV	**Con rubinetto di scarico e valvola di massima** / *With drain valve and relief valve*

WRV

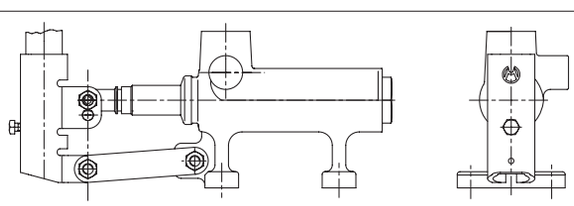
Valvola di massima *(Relief valve)* **Molla 40/350 bar** *Spring 580/5075 PSI* **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*



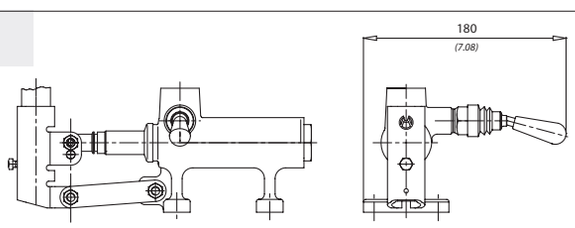
L



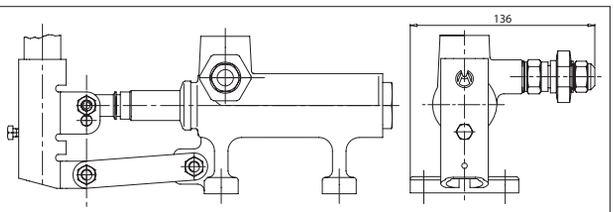
W



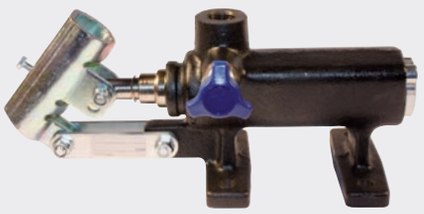
J



RRV



PM70 Pompa a mano semplice effetto
Single acting hand pump



La pompa viene fornita con leva di azionamento L=600 mm

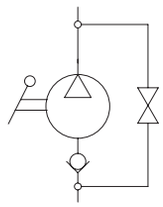
The pump is supplied with acting lever 23 in. long

Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

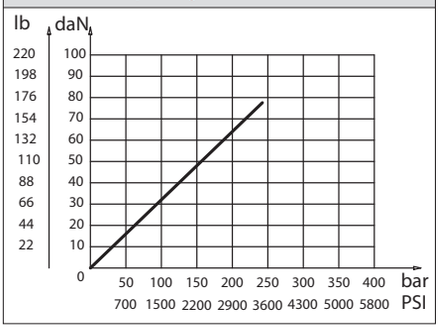
It is necessary a filter use to protect the valve (advised filtration 15 micron)

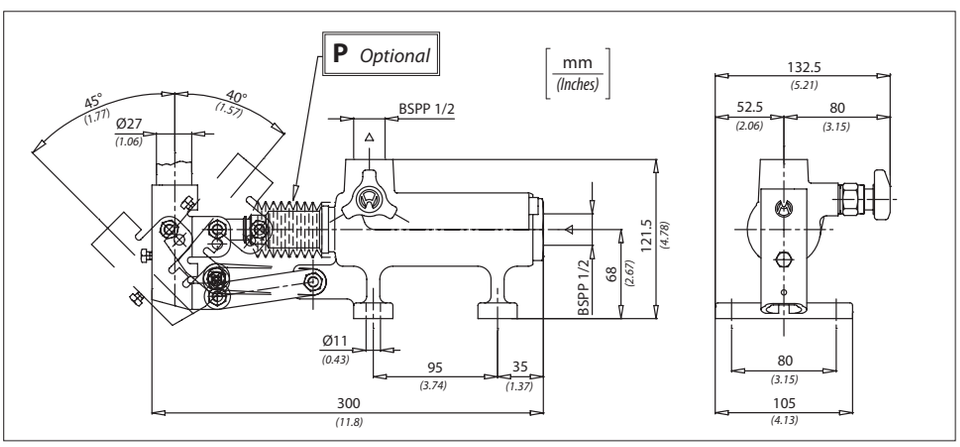


Caratteristiche tecniche / *Technical performances*

Codice *Code*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Cilindrata *Displacement* cm^3 / *in3*
PM70	**230** *(3300)*	**6** *(13.2)*	**70** *(4.27)*

Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever





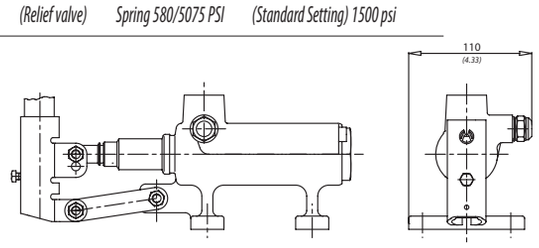
Codice ordinazione / *Ordering code*

PM70 - X

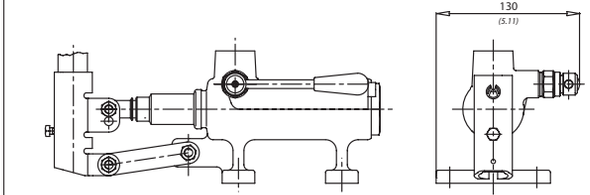
X	Optional
P	**Soffietto** / *With rubber protection*
WRV	**Senza rubinetto di scarico con valvola di massima** *Without unloading valve with relief valve*
W	**Senza rubinetto di scarico** / *Without unloading valve*
J	**Con joistick** / *With joistick*
L	**Con leva di scarico** / *With unloading lever*
RRV	**Con rubinetto di scarico e valvola di massima** / *With drain valve and relief valve*

Valvola di massima *(Relief valve)* **Molla 40/350 bar** *Spring 580/5075 PSI* **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*

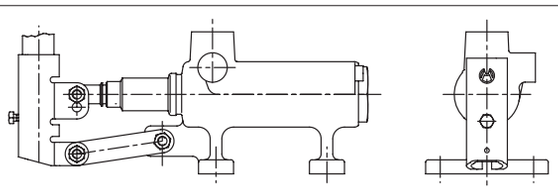
WRV



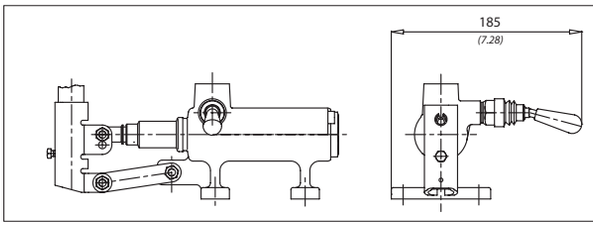
L



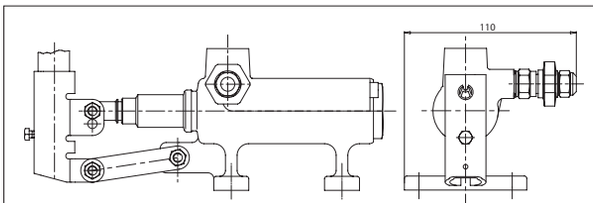
W



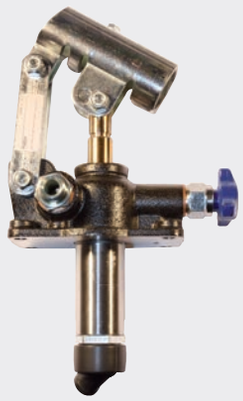
J

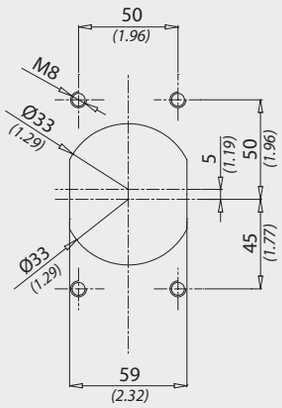


RRV



PMS Pompa a mano semplice effetto
Single acting hand pump





La pompa viene fornita con guarnizione sagomata + viti di fissaggio + leva di azionamento L=600 mm

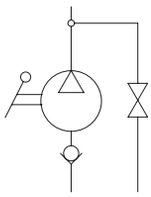
The pump is supplied with shaped seal, fixing screws and acting lever 23 in. long

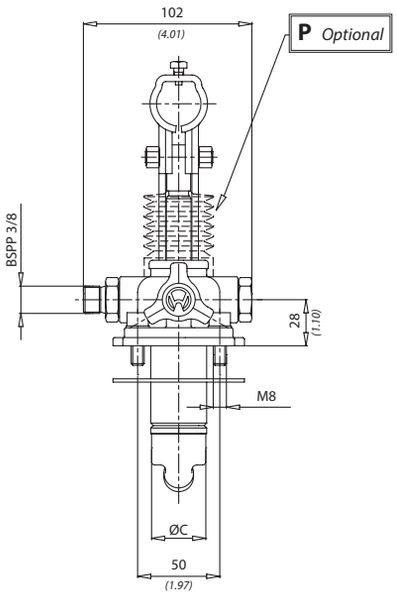
Dati tecnici
Technical data

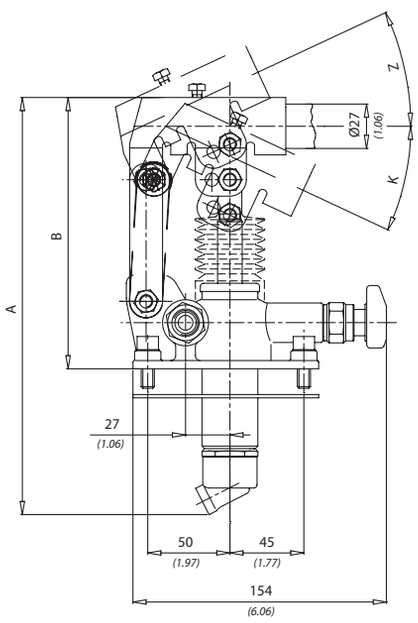
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)







mm
(Inches)

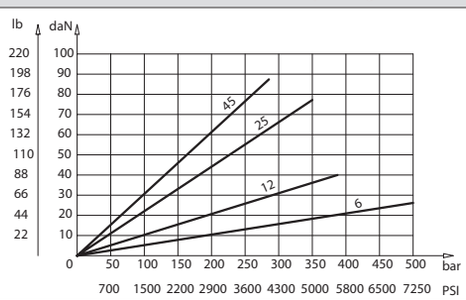
Codice ordinazione / *Ordering code*

PMS - X - Y

X	Optional
P	Soffietto / *With rubber protection*
WRV	Senza rubinetto di scarico con valvola di massima / *Without unloading valve with relief valve*
W	Senza rubinetto di scarico / *Without unloading valve*
J	Con joistick / *With joistick*
L	Con leva di scarico / *With unloading lever*
RV	Con valvola di massima pressione / *With relief valve*
JRV	Con joistick e valvola di massima pressione / *With joistick and relief valve*
LRV	Con leva di scarico e valvola di massima pressione / *With unloading lever and relief valve*

Y	Cilindrata / *Displacement*	K	Z	A	B	C
6	**6 cm^3** *(0.36 in^3)*	**31°**	**26°**	**253** *(9.96)*	**166** *(6.53)*	**34** *(1.33)*
12	**12 cm^3** *(0.73 in^3)*	**31°**	**35°**	**253** *(9.96)*	**166** *(6.53)*	**34** *(1.33)*
25	**25 cm^3** *(1.52 in^3)*	**30°**	**25°**	**273** *(10.74)*	**172***(6.77)*	**34** *(1.33)*
45	**45 cm^3** *(2.75 in^3)*	**33°**	**35°**	**283** *(11.14)*	**172***(6.77)*	**40** *(1.57)*

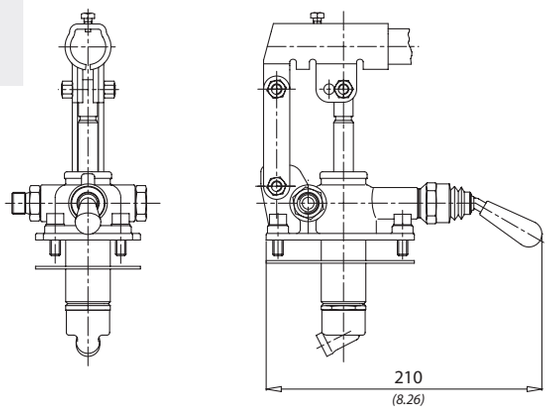
Sforzo esercitato all'estremità della leva / *Effort operating on the end of the lever*



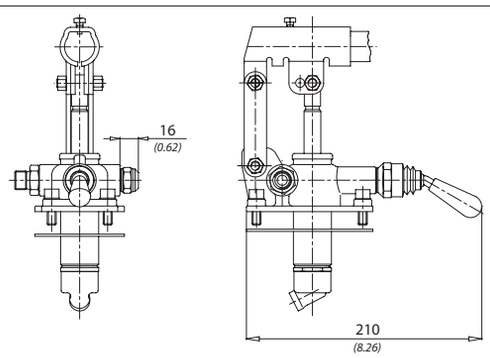
Caratteristiche tecniche / *Technical performances*

Codice *Code*	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*
PMS6	**500** *(7250)*	**3,9** *(8.6)*
PMS12	**380** *(5500)*	
PMS25	**350** *(5000)*	
PMS45	**280** *(4000)*	

J

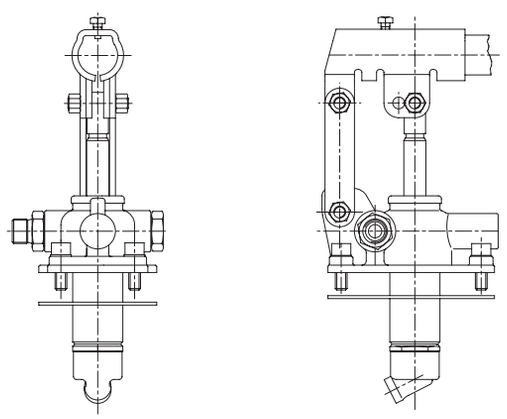


JRV

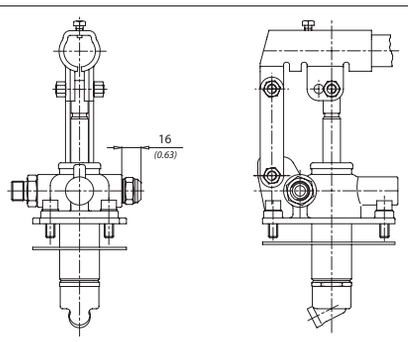


Valvola di massima (*Relief valve*) **Molla 40/350 bar** *Spring 580/5075 PSI* **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*

W

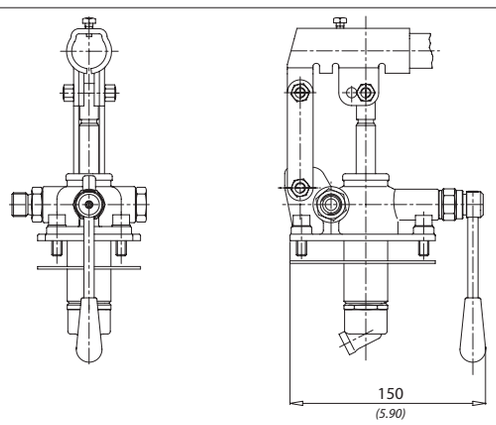


WRV

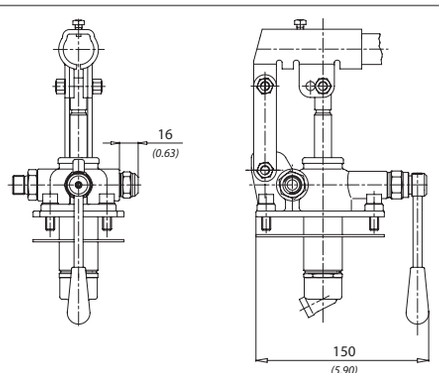


Valvola di massima (*Relief valve*) **Molla 40/350 bar** *Spring 580/5075 PSI* **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*

L

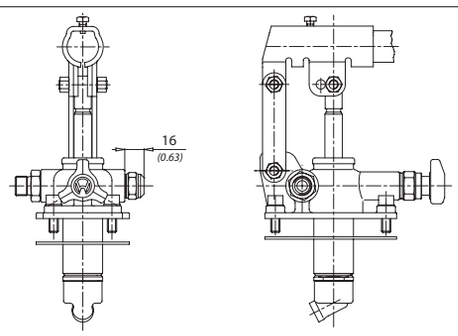


LRV



Valvola di massima (*Relief valve*) **Molla 40/350 bar** *Spring 580/5075 PSI* **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*

RV



Valvola di massima (*Relief valve*) **Molla 40/350 bar** *Spring 580/5075 PSI* **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*

PMI

Pompa a mano doppio effetto centro chiuso
Double acting hand pump closed center

La pompa viene fornita con guarnizione sagomata + viti di fissaggio + leva di azionamento L=600 mm

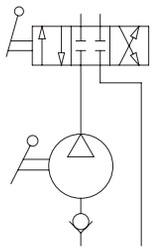
The pump is supplied with shaped seal, fixing screws and acting lever 23 in. long

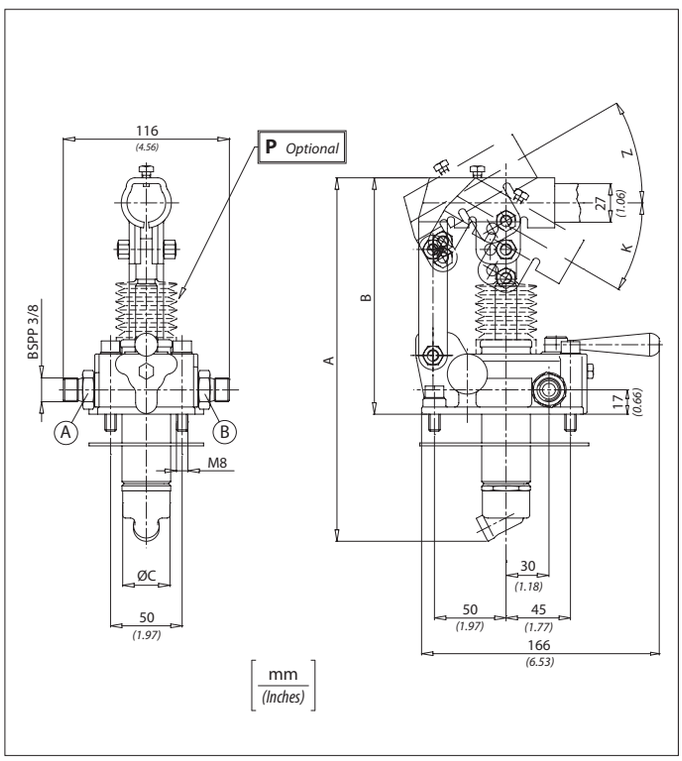
Dati tecnici
Technical data

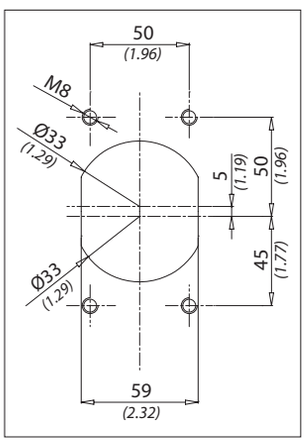
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)







Caratteristiche tecniche
Technical performances

Codice *Code*	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ lb
PMI6	**500** *(7250)*	**4,4** *(9.7)*
PMI12	**380** *(5500)*	
PMI25	**350** *(5000)*	
PMI45	**280** *(4000)*	

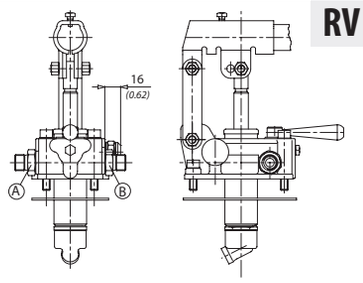
Codice ordinazione / *Ordering code*

PMI - X - Y

X	Optional
P	**Soffietto** / *With rubber protection*
L	**Con leva di scarico** / *With unloading lever*
RV	**Con valvola di massima pressione** / *With relief valve*
LRV	**Con leva di scarico e valvola di massima pressione** / *With unloading lever and relief valve*

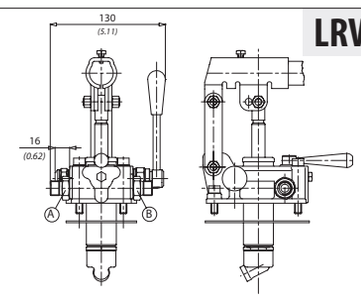
Y	Cilindrata / *Displacement*	K	Z	A	B	C
6	**6 cm^3** *(0.36 in^3)*	**31°**	**26°**	**253** *(9.96)*	**166** *(6.53)*	**34** *(1.33)*
12	**12 cm^3** *(0.73 in^3)*	**31°**	**35°**	**253** *(9.96)*	**166** *(6.53)*	**34** *(1.33)*
25	**25 cm^3** *(1.52 in^3)*	**30°**	**25°**	**273** *(10.74)*	**172***(6.77)*	**34** *(1.33)*
45	**45 cm^3** *(2.75 in^3)*	**33°**	**35°**	**283** *(11.14)*	**172***(6.77)*	**40** *(1.57)*

RV



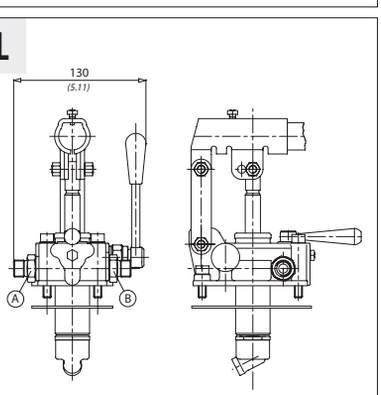
Valvola di massima *(Relief valve)* | **Molla 40/350 bar** *Spring 580/5075 PSI* | **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*

LRV

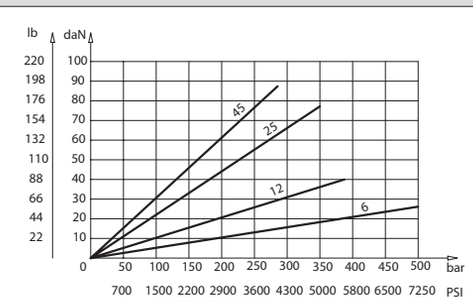


Valvola di massima *(Relief valve)* | **Molla 40/350 bar** *Spring 580/5075 PSI* | **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*

L



Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever



PMT Pompa a mano doppio effetto con valvole di blocco
Double acting hand pump with pilot check valves

La pompa viene fornita con guarnizione sagomata + viti di fissaggio + leva di azionamento L=600 mm

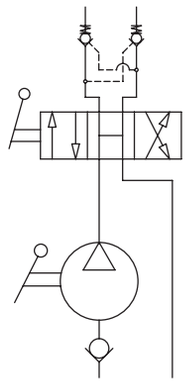
The pump is supplied with shaped seal, fixing screws and acting lever 23 in. long

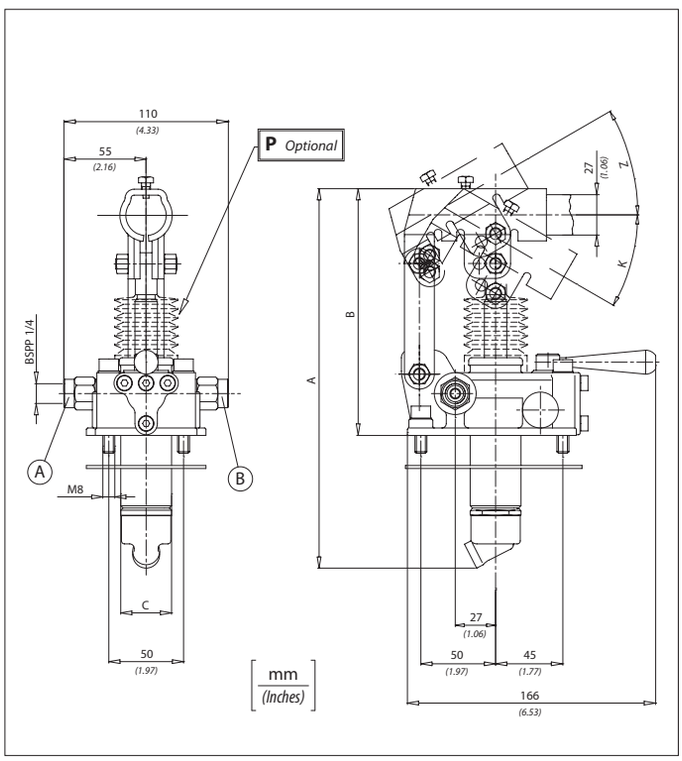
Dati tecnici
Technical data

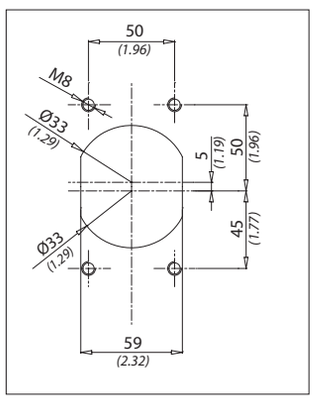
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

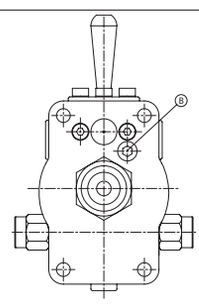
It is necessary a filter use to protect the valve (advised filtration 15 micron)







RVB

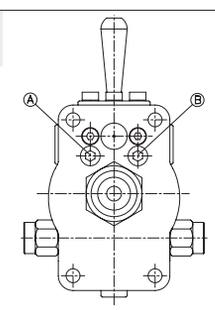


Valvola di massima *(Relief valve)* | **Molla 40/350 bar** *Spring 580/5075 PSI* | **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*

Caratteristiche tecniche
Technical performances

Codice *Code*	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*
PMT6	**500** *(7250)*	**4,4** *(9.7)*
PMT12	**380** *(5500)*	
PMT25	**350** *(5000)*	
PMT45	**280** *(4000)*	

RVAB



Valvola di massima *(Relief valve)* | **Molla 40/350 bar** *Spring 580/5075 PSI* | **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*

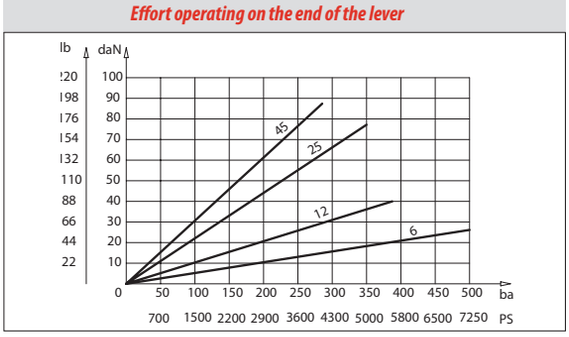
Codice ordinazione / *Ordering code*

PMT - X - Y

X	Optional
P	**Soffietto** / *With rubber protection*
RVAB	**Con valvola di massima pressione su A e B** / *With relief valve on A and B*
RVB	**Con valvola di massima pressione su B** / *With relief valve on B*

Y	Cilindrata / *Displacement*	K	Z	A	B	C
6	**6 cm^3** *(0.36 in^3)*	**31°**	**26°**	**253** *(9.96)*	**166** *(6.53)*	**34** *(1.33)*
12	**12 cm^3** *(0.73 in^3)*	**31°**	**35°**	**253** *(9.96)*	**166** *(6.53)*	**34** *(1.33)*
25	**25 cm^3** *(1.52 in^3)*	**30°**	**25°**	**273** *(10.74)*	**172** *(6.77)*	**34** *(1.33)*
45	**45 cm^3** *(2.75 in^3)*	**33°**	**35°**	**283** *(11.14)*	**172** *(6.77)*	**40** *(1.57)*

Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever



PMA

Pompa a mano doppio effetto centro aperto
Double acting hand pump open center

La pompa viene fornita con guarnizione sagomata + viti di fissaggio + leva di azionamento L=600 mm
La mandata la si ottiene solamente azionando la leva verso il basso

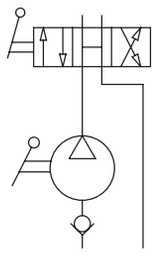
The pump is supplied with shaped seal, fixing screws and acting lever 23 in. long
Oil flow lever action downwards only

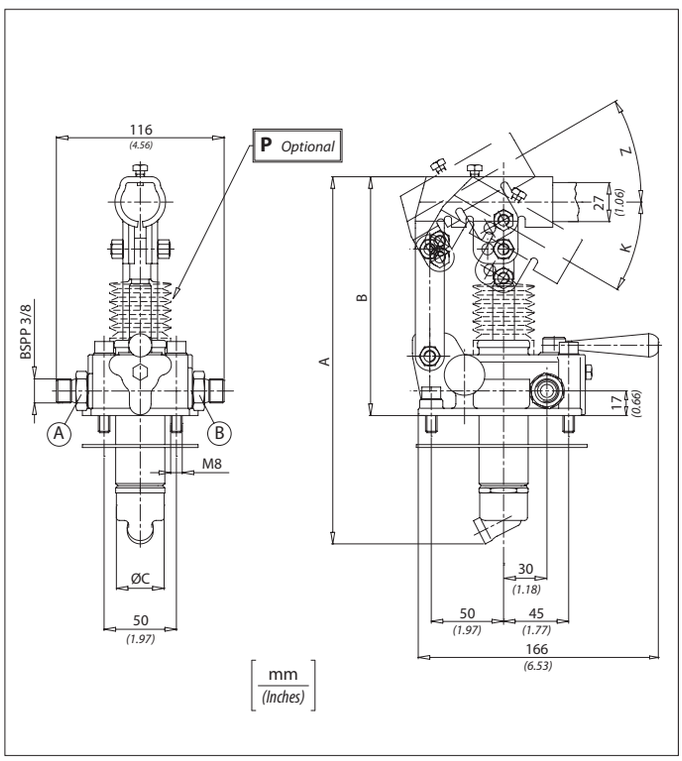
Dati tecnici
Technical data

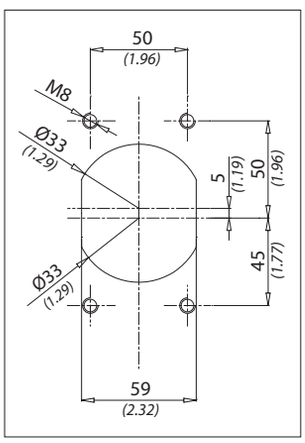
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



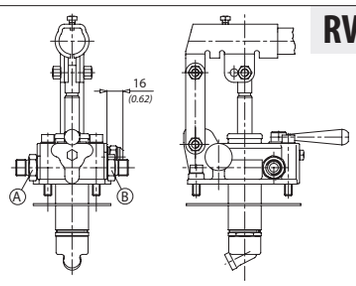




Caratteristiche tecniche
Technical performances

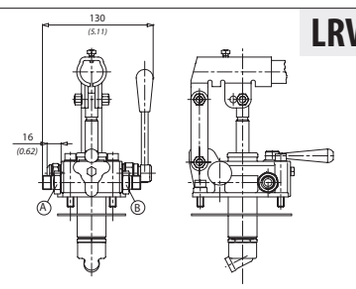
Codice *Code*	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ lb
PMA6	**500** *(7250)*	**4,4** *(9.7)*
PMA12	**380** *(5500)*	
PMA25	**350** *(5000)*	
PMA45	**280** *(4000)*	

RV



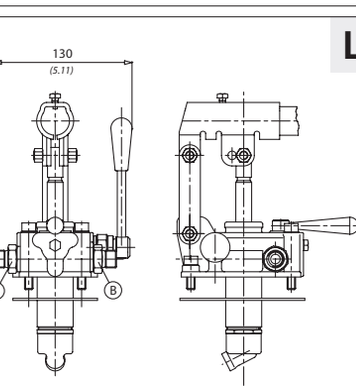
Valvola di massima *(Relief valve)* | **Molla 40/350 bar** *Spring 580/5075 PSI* | **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*

LRV



Valvola di massima *(Relief valve)* | **Molla 40/350 bar** *Spring 580/5075 PSI* | **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*

L



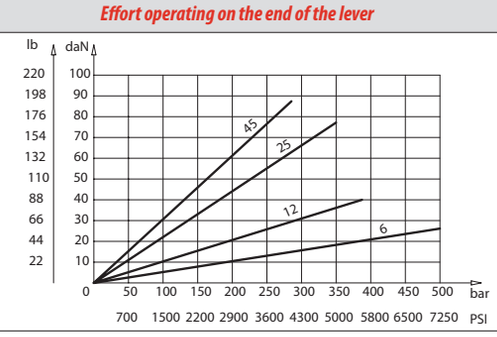
Codice ordinazione / *Ordering code*

PMA - X - Y

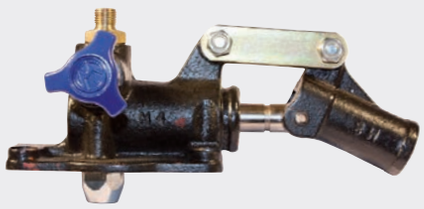
X	Optional
P	**Soffietto** / *With rubber protection*
L	**Con leva di scarico** / *With unloading lever*
RV	**Con valvola di massima pressione su A e B** / *With relief valve on A and B*
LRV	**Con leva di scarico e valvola di massima pressione** / *With unloading lever and relief valve*

Y	Cilindrata / *Displacement*	K	Z	A	B	C
6	**6 cm³** *(0.36 in³)*	**31°**	**26°**	**253** *(9.96)*	**166** *(6.53)*	**34** *(1.33)*
12	**12 cm³** *(0.73 in³)*	**31°**	**35°**	**253** *(9.96)*	**166** *(6.53)*	**34** *(1.33)*
25	**25 cm³** *(1.52 in³)*	**30°**	**25°**	**273** *(10.74)*	**172**(6.77)	**34** *(1.33)*
45	**45 cm³** *(2.75 in³)*	**33°**	**35°**	**283** *(11.14)*	**172**(6.77)	**40** *(1.57)*

Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever



PME1 Pompa a mano semplice effetto
Single acting hand pump



La pompa viene fornita con guarnizione sagomata + viti di fissaggio + leva di azionamento L=500 mm
La mandata la si ottiene solamente azionando la leva verso il basso

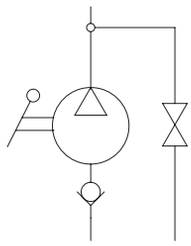
The pump is supplied with shaped seal, fixing screws and acting lever 19 in. long
Oil flow lever action downwards only

Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

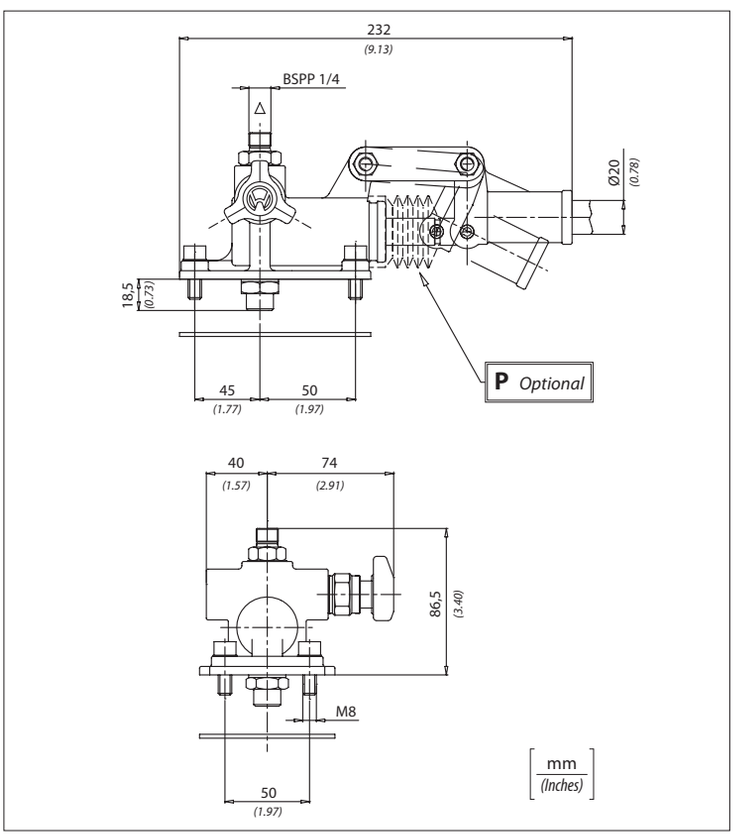
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



Caratteristiche tecniche
Technical performances

Codice *Code*	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*
PME18	**380** *(5500)*	**4,1** *(9)*
PME115	**350** *(5000)*	

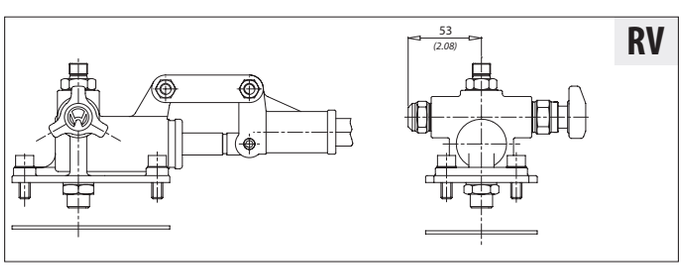


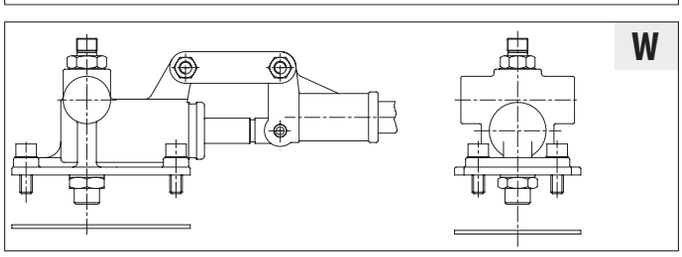
Codice ordinazione / *Ordering code*

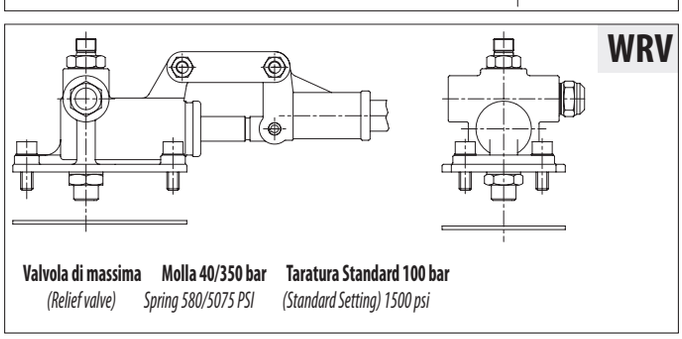
PME1 - X - Y

X	Optional
P	**Soffietto** / *With rubber protection*
WRV	**Senza rubinetto di scarico con valvola di massima** / *Without unloading valve with relief valve*
W	**Senza rubinetto di scarico** / *Without unloading valve*
RV	**Con valvola di massima pressione** / *With relief valve*

Y	Cilindrata / *Displacement*
8	**8 cm^3** *(0.50 in^3)*
15	**15 cm^3** *(0.90 in^3)*

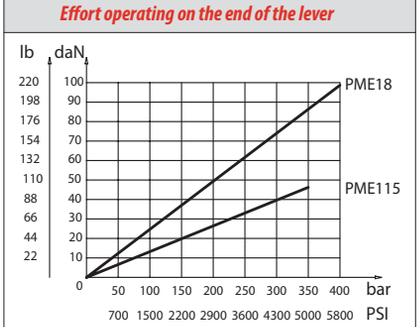


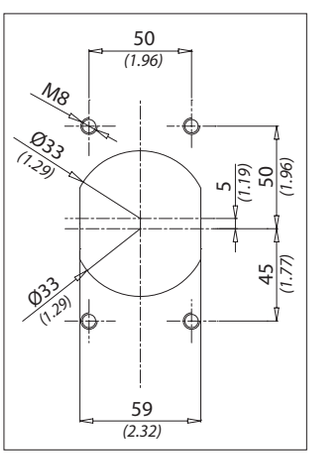




Valvola di massima *(Relief valve)* **Molla 40/350 bar** *Spring 580/5075 PSI* **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*

Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever





PME2 Pompa a mano semplice effetto
Single acting hand pump

La pompa viene fornita con guarnizione sagomata + viti di fissaggio + leva di azionamento L=500 mm
La mandata la si ottiene solamente azionando la leva verso il basso

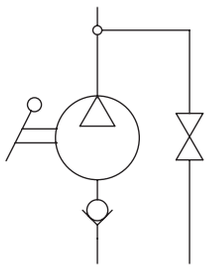
The pump is supplied with shaped seal, fixing screws and acting lever 19 in. long
Oil flow lever action downwards only

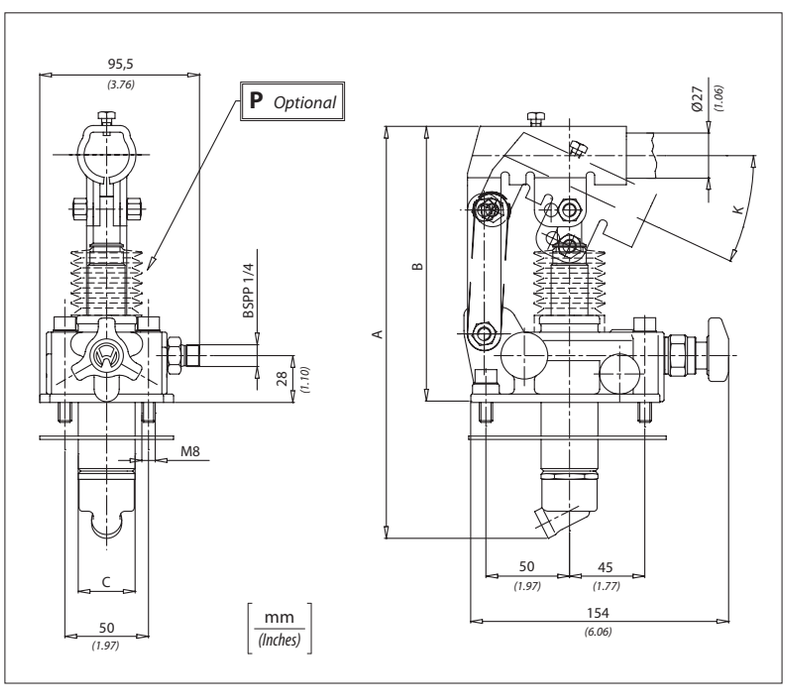
Dati tecnici
Technical data

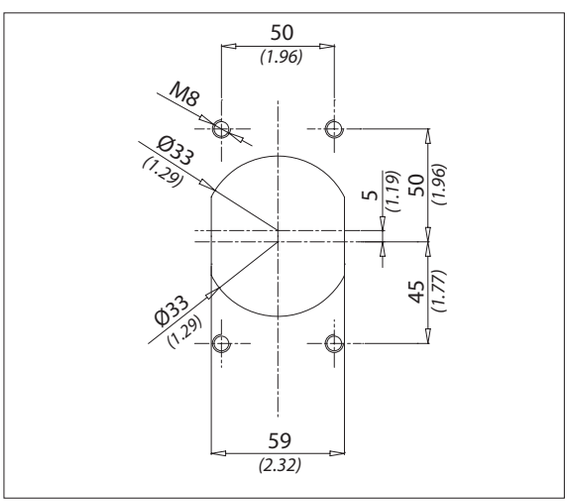
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)







Codice ordinazione / *Ordering code*

PME2 - X - Y

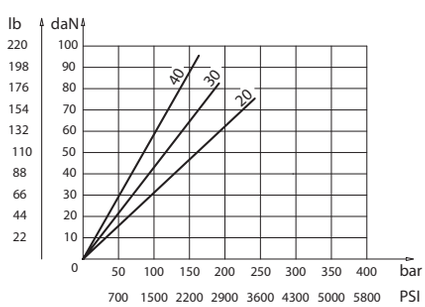
X	Optional
P	**Soffietto** / *With rubber protection*
WRV	**Senza rubinetto di scarico con valvola di massima** / *Without unloading valve with relief valve*
W	**Senza rubinetto di scarico** / *Without unloading valve*
L	**Con leva di scarico** / *With unloading lever*
RV	**Con valvola di massima pressione** / *With relief valve*
LRV	**Con leva di scarico e valvola di massima pressione** / *With unloading lever and relief valve*

Y	Cilindrata / *Displacement*	K	A	B	C
20	**20** cm^3 *(1.22 in^3)*	**29°**	**249** *(9.80)*	**167** *(6.57)*	**34** *(1.33)*
30	**30** cm^3 *(1.83 in^3)*	**26°**	**252** *(9.92)*	**167** *(6.57)*	**34** *(1.33)*
40	**40** cm^3 *(2.44 in^3)*	**26°**	**252** *(9.92)*	**167** *(6.57)*	**40** *(1.57)*

Caratteristiche tecniche
Technical performances

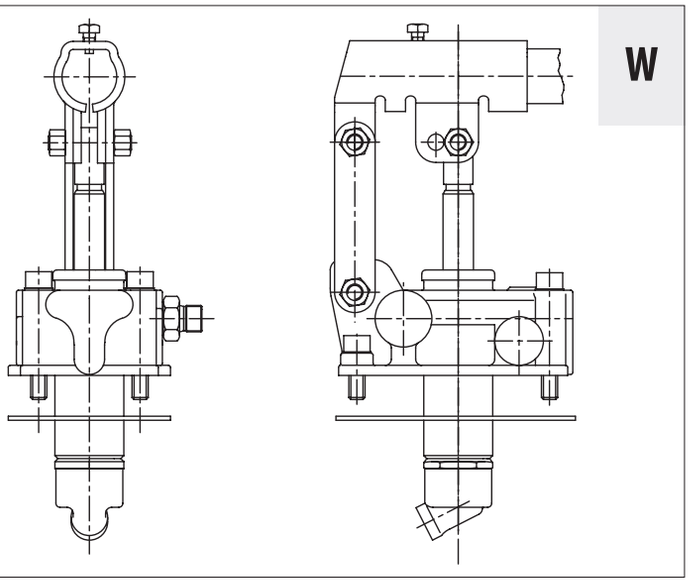
Codice *Code*	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/*lb*	Peso approssimativo *Approx weight* Kg/*lb*
PME220	**380** *(5500)*	**4,2** *(9.2)*	**20** *(1.22)*
PME230	**350** *(5000)*		**30** *(1.83)*
PME240	**280** *(4000)*		**40** *(2.44)*

Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever

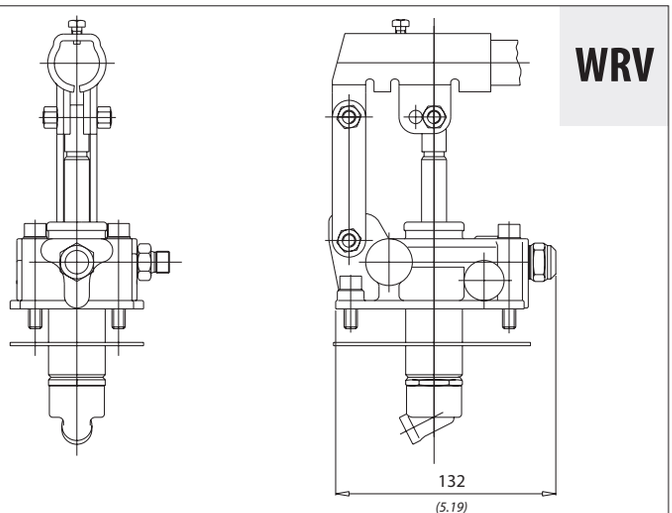


PME2 Pompa a mano semplice effetto
Single acting hand pump

W

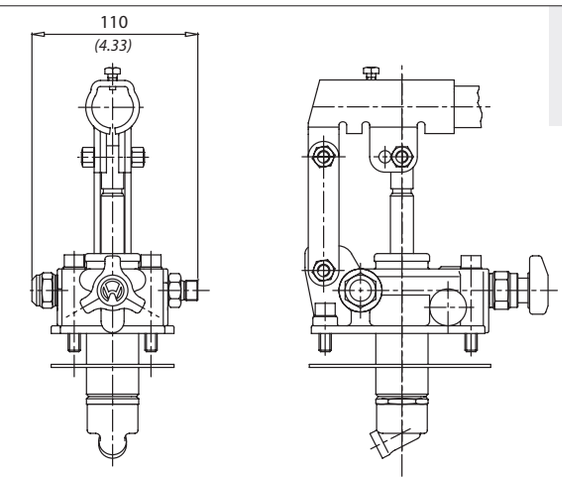


WRV



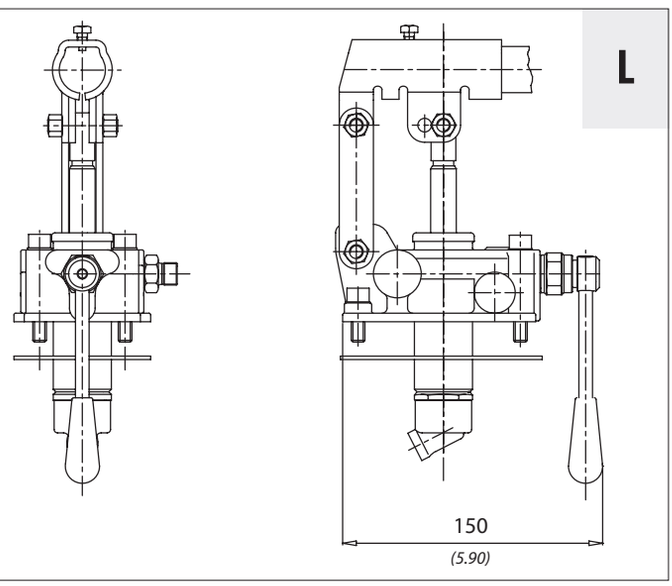
Valvola di massima *(Relief valve)* **Molla 40/350 bar** *Spring 580/5075 PSI* **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*

RV

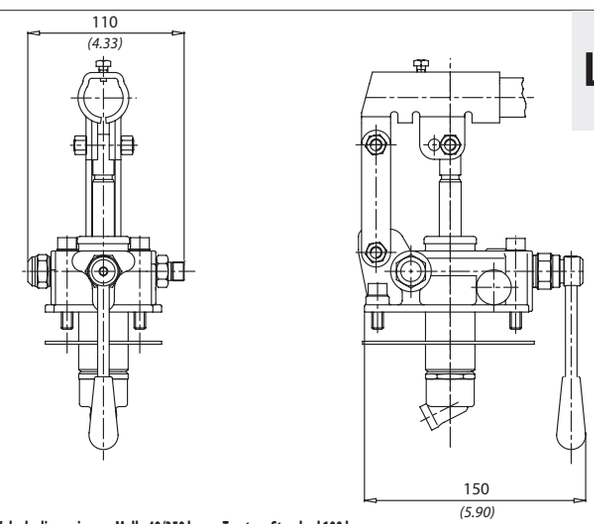


Valvola di massima *(Relief valve)* **Molla 40/350 bar** *Spring 580/5075 PSI* **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*

L



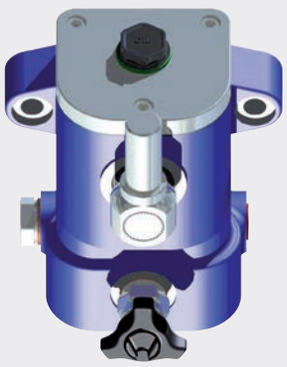
LRV



Valvola di massima *(Relief valve)* **Molla 40/350 bar** *Spring 580/5075 PSI* **Taratura Standard 100 bar** *(Standard Setting) 1500 psi*

PMD

Pompa a mano semplice effetto doppio pompante
Single acting hand pump with double cylinder



La pompa viene fornita con guarnizione sagomata + viti di fissaggio + leva di azionamento L=500 mm

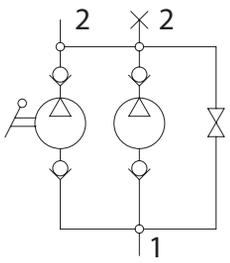
The pump is supplied with shaped seal, fixing screws and acting lever 19 in. long

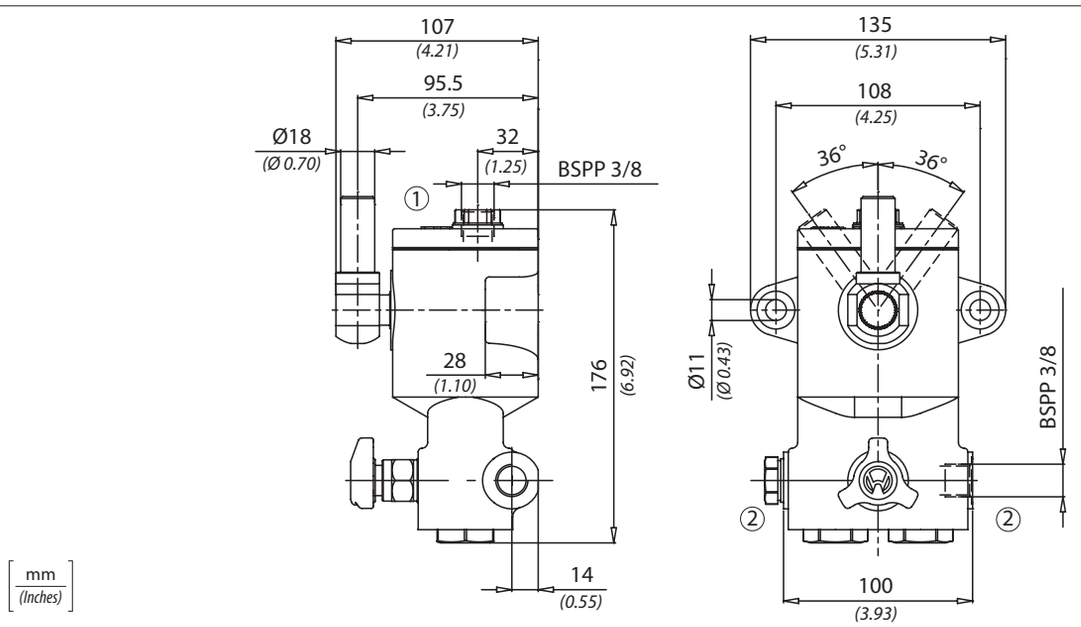
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





Caratteristiche tecniche / *Technical performances*

Codice *Code*	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*	Cilindrata *Displacement* cm^3 / *in3*
PMD5	**500** *(7250)*	**4,2** *(9.2)*	**5** *(0.30)*
PMD10	**250** *(3600)*		**10** *(0.61)*
PMD17	**150** *(2100)*		**17** *(1.03)*

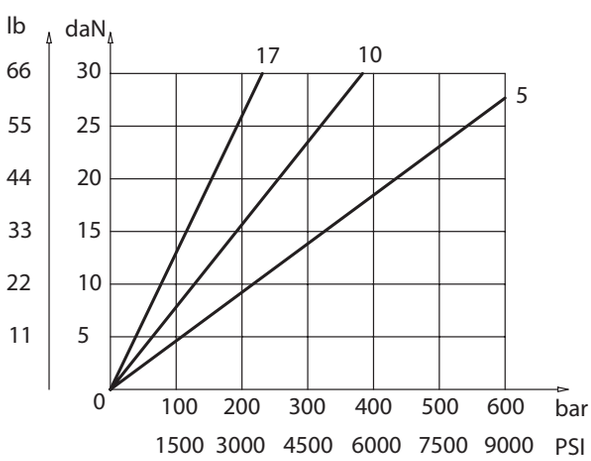
Codice ordinazione / *Ordering code*

PMD - Y - X

X	Optional
W	**Senza rubinetto di scarico** *Without unloading valve*

Y	Cilindrata / *Displacement*
5	**5 cm^3** *(0.30 in^3)*
10	**10 cm^3** *(0.61 in^3)*
17	**17 cm^3** *(1.03 in^3)*

Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever



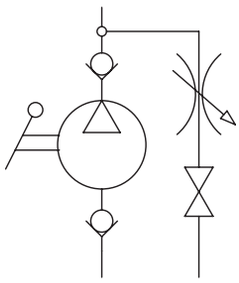
PME3 Pompa a pedale
Foot pump

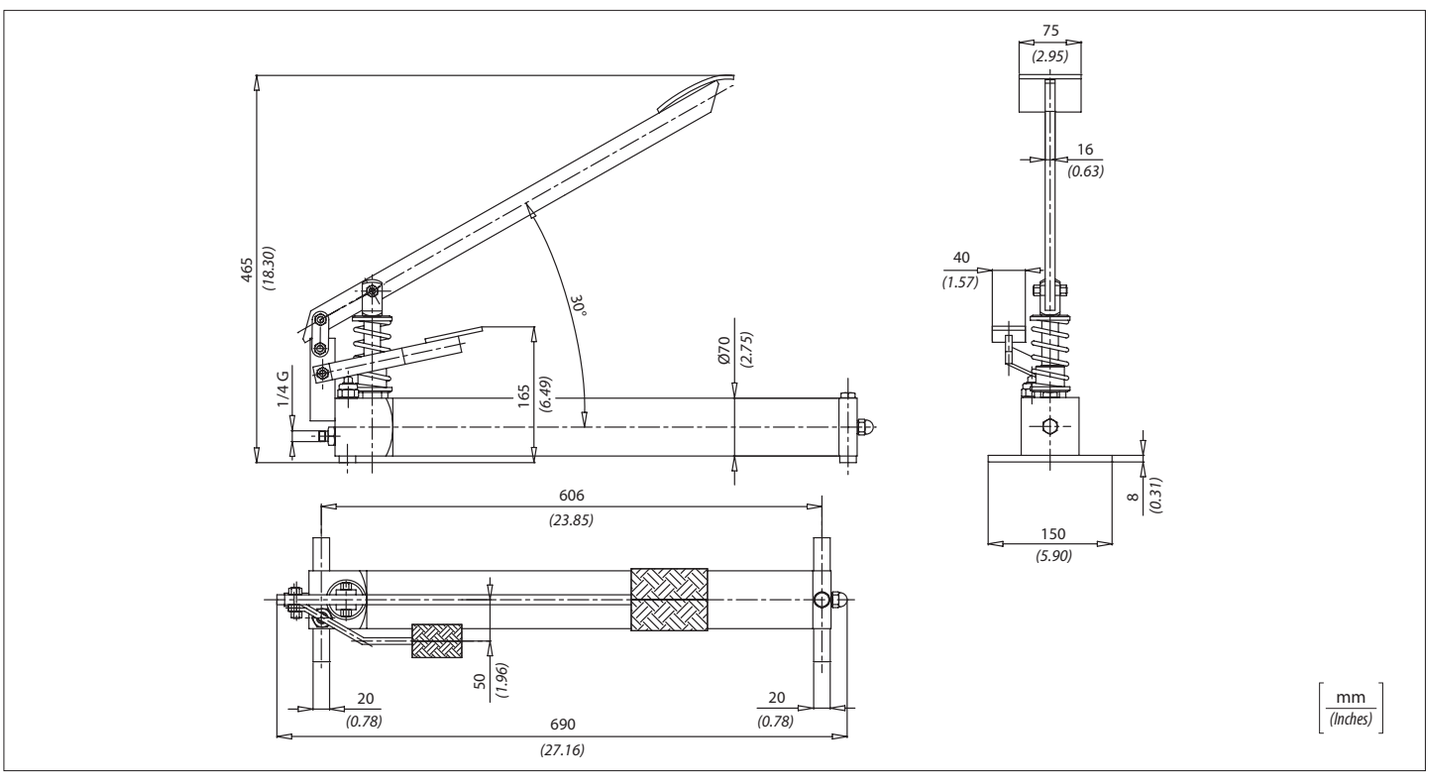
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



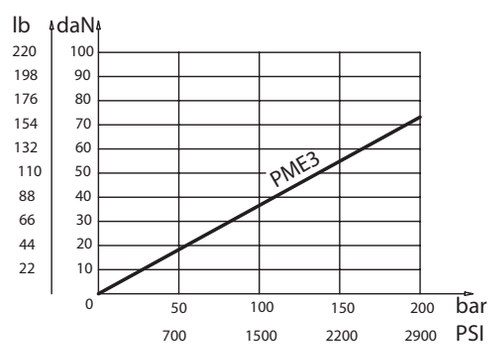


Serbatoio lt. 1,5
Reservoir lt. 1.5

Codice ordinazione
Ordering code

PME3

Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever

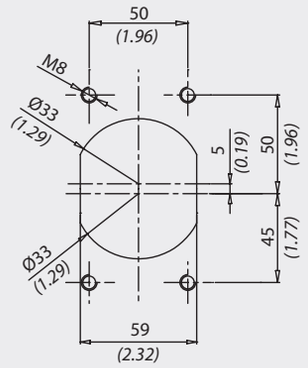


Caratteristiche tecniche
Technical performances

Codice *Code*	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/ *lb*	Cilindrata *Displacement* cm^3 / *in3*
PME3	**200** *(2900)*	**10** *(22)*	**14** *(0.85)*

PME580

Pompa a mano 2 velocità per cilindro a semplice effetto
Two speed hand pump with single alting cylinder



La pompa viene fornita con guarnizione sagomata + viti di fissaggio + leva di azionamento L=600 mm

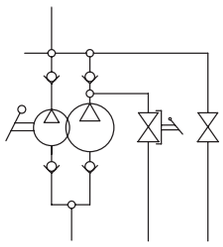
The pump is supplied with shaped seal, fixing screws and acting lever 23 in. long

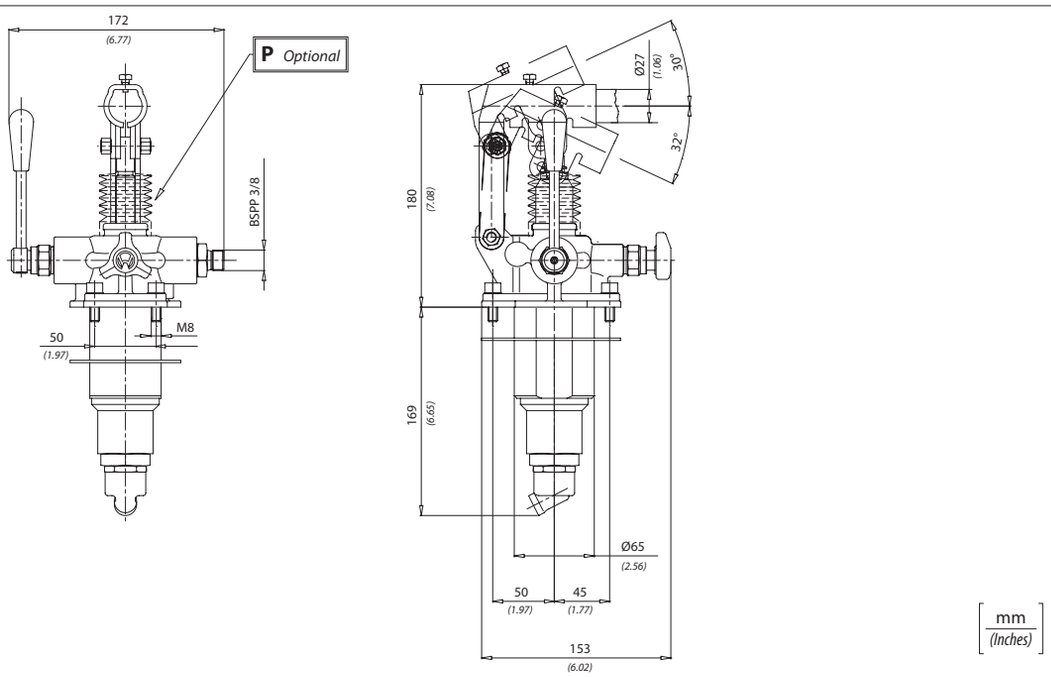
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



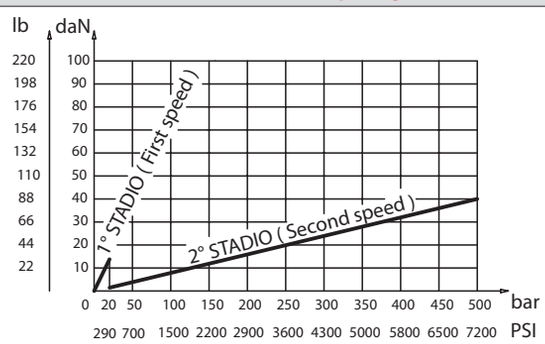


Codice ordinazione / *Ordering code*

PME580 - X

X	Optional
P	**Soffietto** / *With rubber protection*
18	**Con predisposizione manometro** / *With arrangement for gauge*
X18	**Con valvola di massima e predisposizione manometro** *With relief valve and arrangement for gauge*
CA	**Con comando automatico** / *With automatic device*
CA18	**Con comando automatico e predisposizione manometro** *With automatic device and arrangement for gauge*
CARV	**Con comando automatico e valvola di massima** *With automatic device and relief valve*
CARV18	**Con comando automatico, valvola di massima e predisposizione manometro** *With automatic device, relief valve and arrangement for gauge*

Sforzo esercitato all'estremità della leva / *Effort operating on the end of the lever*



Caratteristiche tecniche / *Technical performances*

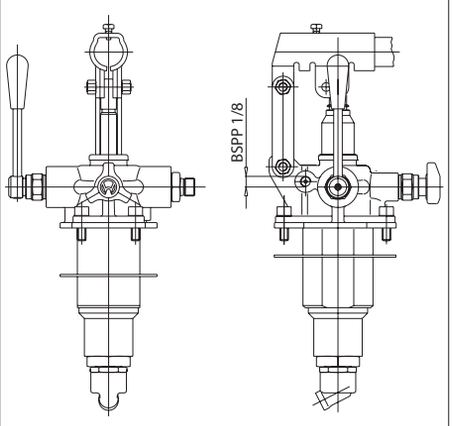
Codice *Code*	Pressione Max 1 stadio *Max pressure 1 stage* bar/*PSI*	Pressione Max 2 stadio *Max pressure 1 stage* bar/*PSI*	Cilindrata 1 stadio *Displacement 1 stage* cm^3 / *in3*	Cilindrata 2 stadio *Displacement 2 stage* cm^3 / *in3*	Peso approssimativo *Approx weight* Kg / *lb*
PME580	**20** *(290)*	**500** *(7250)*	**80** *(4.9)*	**5** *(0.30)*	**7,1** *(15.6)*

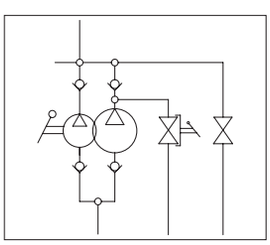
PME580

Pompa a mano 2 velocità per cilindro a semplice effetto

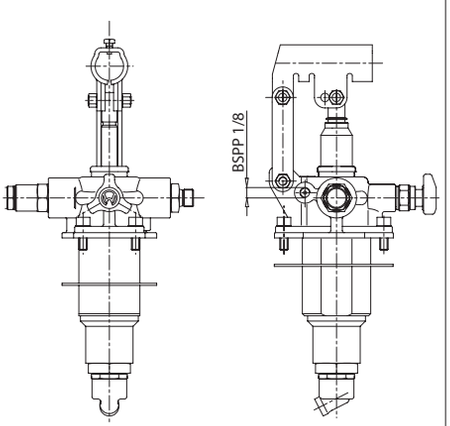
Two speed hand pump with single alting cylinder

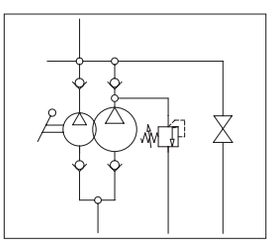
18



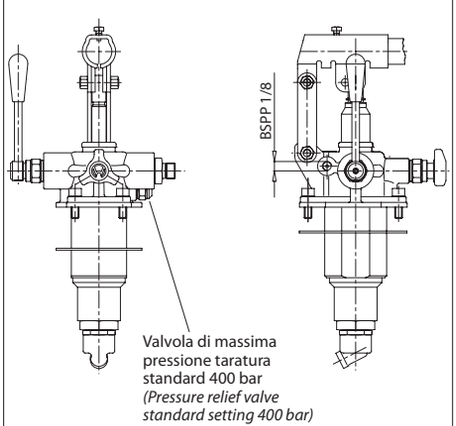


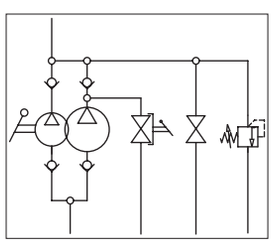
CA18



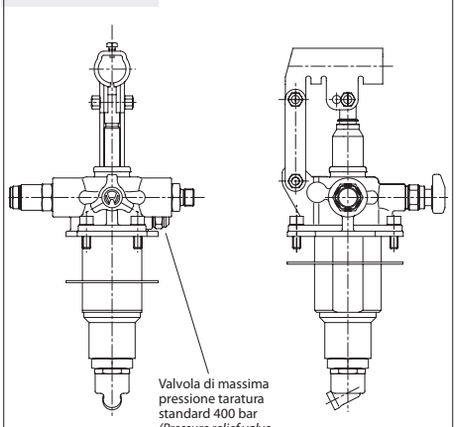


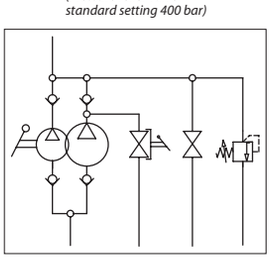
X18





CARV





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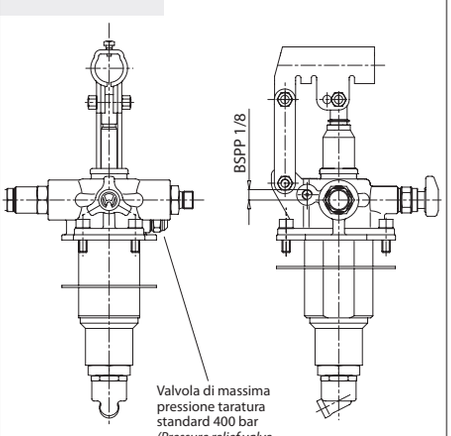

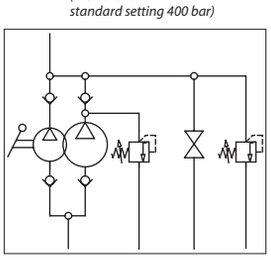

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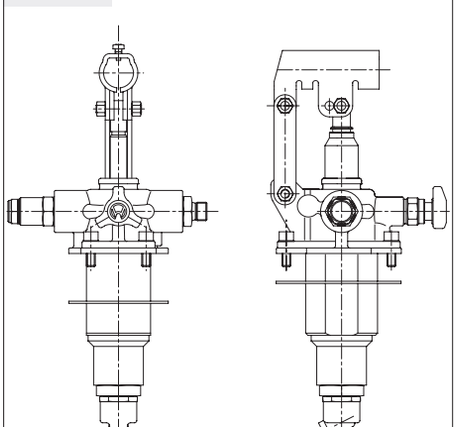
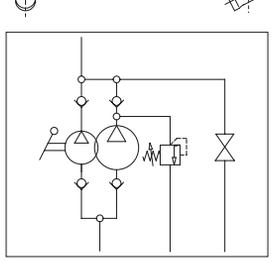
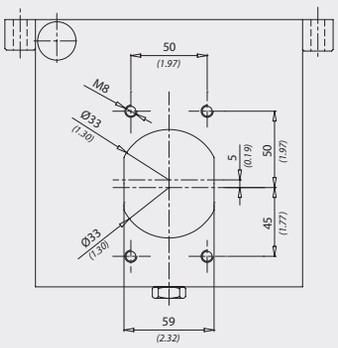






Serbatoio in acciaio, Verniciatura RAL9005 antiolio-nero,
Il serbatoio è comprensivo di tappo sfiato e tappo scarico

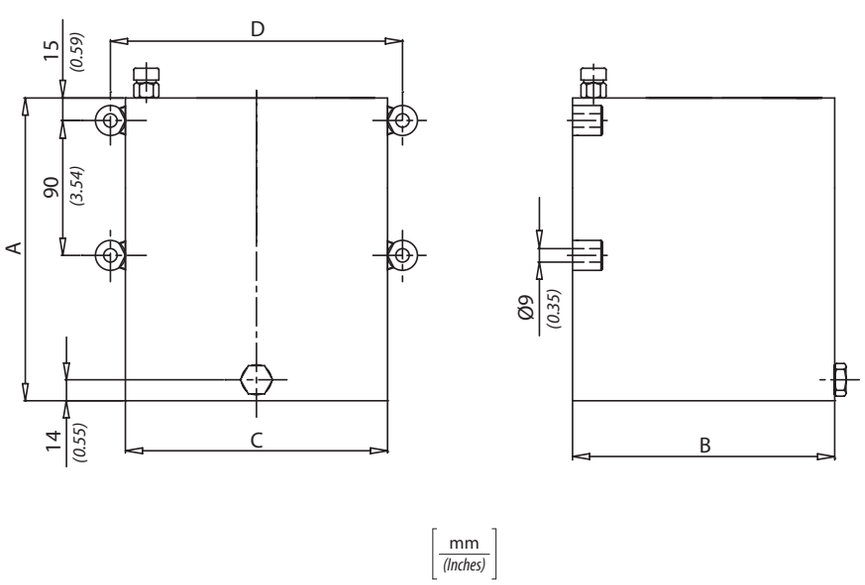
Steel reservoir, RAL9005 black oil proof painting,
The reservoir is including the breather plug

Dati tecnici
Technical data

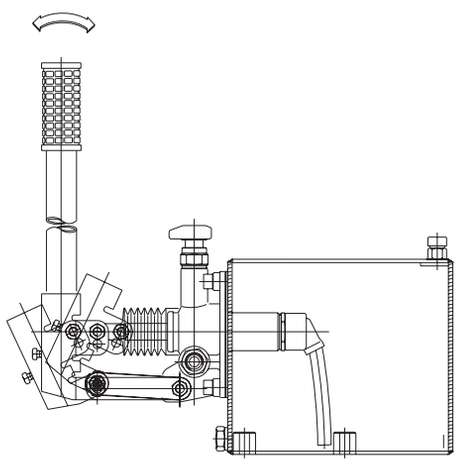
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

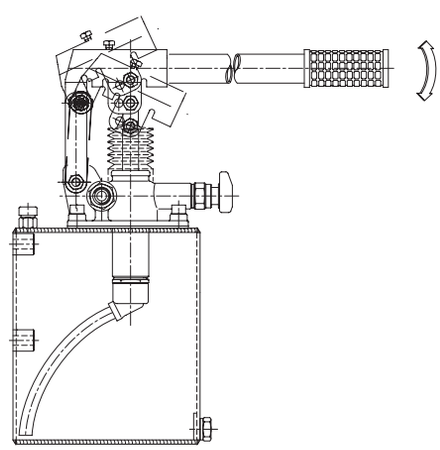
It is necessary a filter use to protect the valve (advised filtration 15 micron)



Montaggio orizzontale
Horizontal mounting



Montaggio verticale
Vertical mounting



Codice ordinazione / *Ordering code* **Caratteristiche tecniche / *Technical performances***

Codice *Code*	Capacità *Capacity*	A	B	C	D	Peso approssimativo *Approx weight* Kg / lb
17900001	**1 Lt. - 61 in.³**	**120** *(4.72)*	**150** *(5.90)*	**100** *(4.72)*	**120** *(4.72)*	**2,2** *(5)*
17900002	**2 Lt. - 122 in.³**	**185** *(7.28)*				**2,7** *(6)*
17900003	**3 Lt. - 183 in.³**	**255** *(10.03)*				**3,7** *(8)*
17900006	**5 Lt. - 305 in.³**	**200** *(7.87)*	**175** *(6.88)*		**195** *(7.67)*	**5,3** *(11.5)*
17900004	**7 Lt. - 427 in.³**	**275** *(10.82)*				**6,6** *(14.5)*
17900005	**10 Lt. - 610 in.³**	**380** *(14.96)*				**8,3** *(18)*
17900014	**13 Lt. - 793 in.³**	**485** *(19.09)*				**10,75** *(23.7)*
17900015	**15 Lt. - 915 in.³**	**600** *(23.62)*				**12,10** *(26.67)*
17900016	**20 Lt. - 1220 in.³**	**780** *(30.70)*				**16** *(35.26)*

Caratteristiche tecniche / *Technical performances*

Codice *Code*	Capacità *Capacity*	Peso approssimativo *Approx weight* Kg / *lb*
TNA1	**1**	**1,5** *(3.3)*
TNA1,5	**1,5**	**1,8** *(4)*

Codice ordinazione / *Ordering code*

TNA - X

X	Capacità / *Capacity*	A	H
1	**1 Lt. - 61 in.^{3}**	**40** *(1.57)*	
1,5	**1,5 Lt. - 90 in.^{3}**	**160** *(6.30)*	
2	**2 Lt. - 122 in.^{3}**		**25** *(0.98)*
3	**3 Lt. - 183 in.^{3}**		**70** *(2.75)*
5	**5 Lt. - 305 in.^{3}**		**180** *(7.08)*

Il serbatoio è comprensivo di guarnizione, tappo sfiato e tappo scarico
The reservoir is including the gasket and breather plug

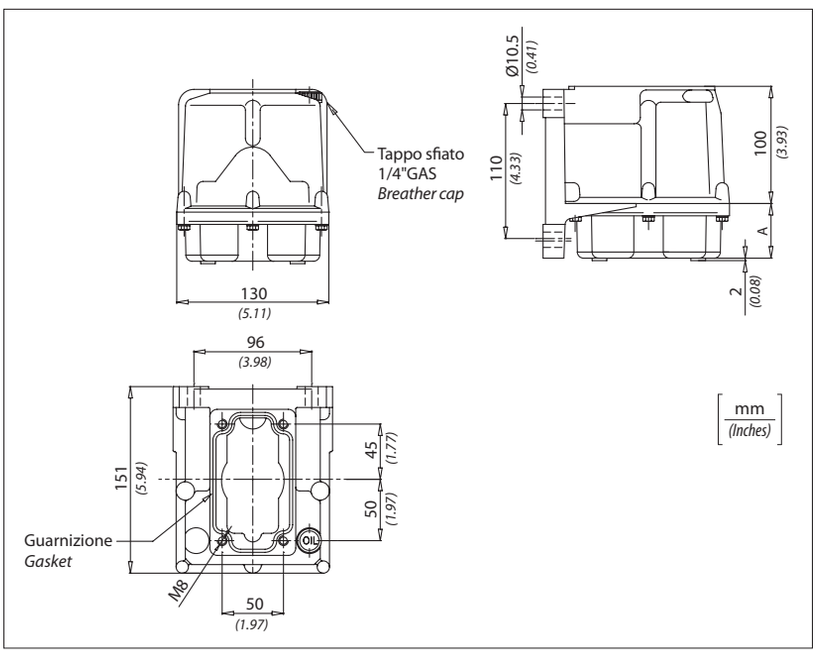
Caratteristiche tecniche / *Technical performances*

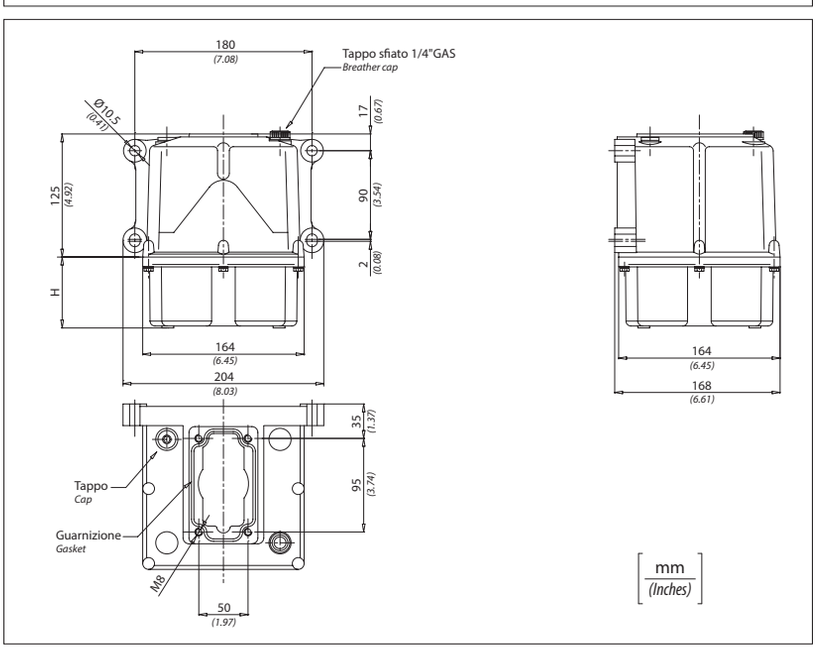
Codice *Code*	Capacità *Capacity*	Peso approssimativo *Approx weight* Kg / *lb*
TNA2	**2**	**1,5** *(3.3)*
TNA3	**3**	**1,6** *(3.5)*
TNA5	**5**	**1,8** *(4)*

Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/ s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola
It is necessary a filter use to protect the valve (advised filtration 15 micron)





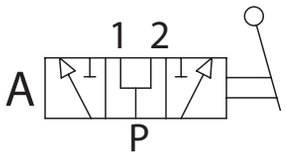
DDFA3 Deviatori di flusso a 3 vie alta pressione
High pressure 3 ways flow diverters

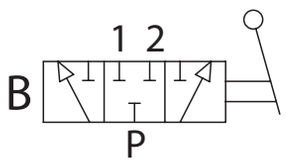
Dati tecnici / *Technical data*

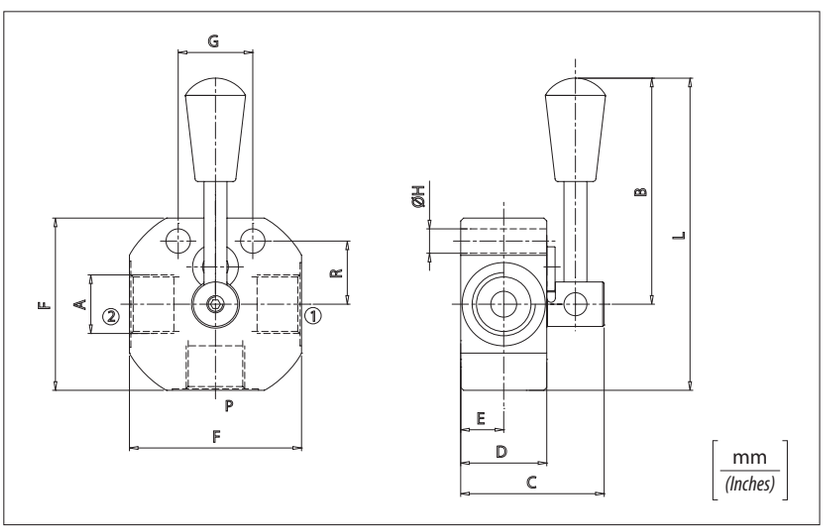
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)







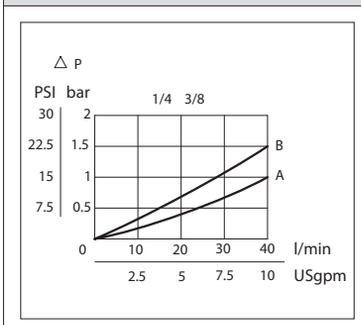
Codice ordinazione / *Ordering code*

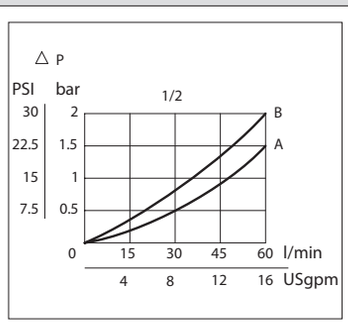
DDFA3 - X - Y - S

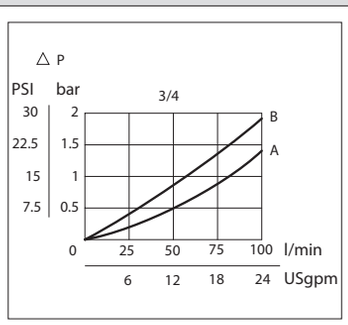
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**

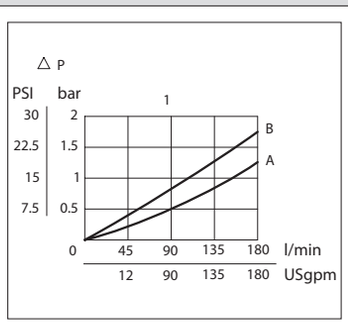
Y	Schema / *Circuit*
A	**Centro aperto** *Open centre*
B	**Centro chiuso** *Closed centre*

Perdite di carico / *Pressure drops*









Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	H	L	R	Peso approssimativo *Approx weight* Kg/ *lb*
DDFA3140	**BSPP 1/4**	**40** *(10)*	**500** *(7250)*	**80** *(3.15)*	**50** *(1.97)*	**30** *(1.18)*	**15** *(0.59)*	**60** *(2.36)*	**26** *(1.02)*	**8,5** *(0.33)*	**110** *(4.33)*	**22** *(0.87)*	**0,75** *(1.65)*
DDFA3380	**BSPP 3/8**												
DDFA3120	**BSPP 1/2**	**60** *(15)*											
DDFA3340	**BSPP 3/4**	**100** *(25)*		**102** *(4.01)*	**67** *(2.64)*	**45** *(1.77)*	**22,5** *(0.88)*	**80** *(3.15)*	**32** *(1.26)*	**11** *(0.43)*	**142** *(4.60)*	**26** *(1.02)*	**1,8** *(4)*
DDFA3100	**BSPP 1**	**180** *(47)*						**85** *(3.47)*			**145** *(5.71)*	**31,5** *(1.24)*	

FCT

Valvole di fine corsa a trazione
Tug end-stroke valves

Dati tecnici
Technical data

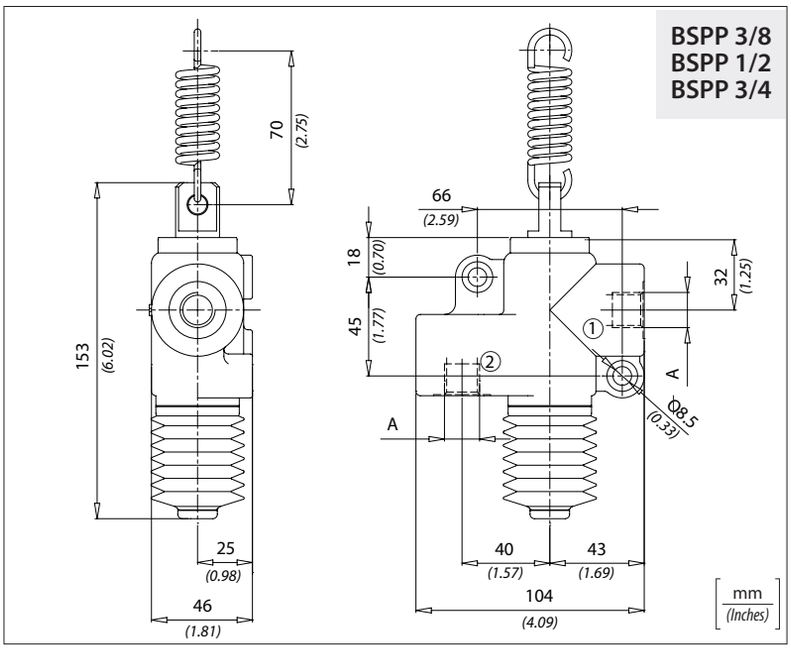
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

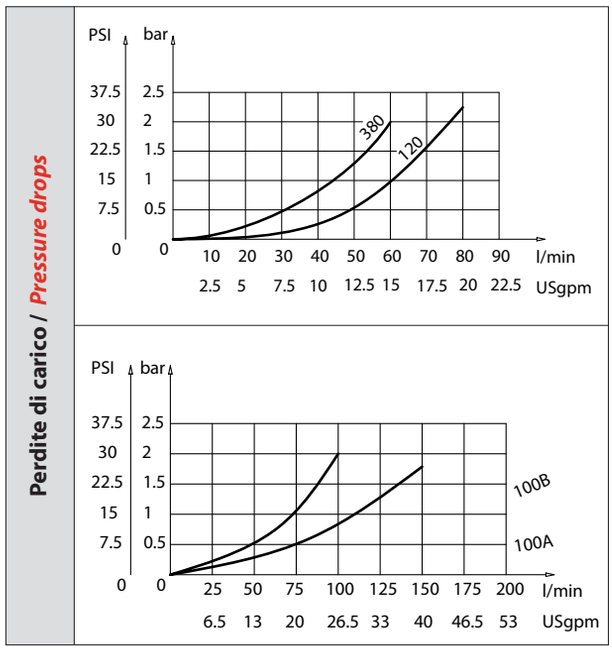
È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg/*lb*
FCT380	**BSPP 3/8**	**60** *(16)*	**250** *(3600)*	**1,7** *(3.7)*
FCT120	**BSPP 1/2**	**80** *(21)*		**1,8** *(4)*
FCT340	**BSPP 3/4**	**100** *(26)*		**1,9** *(4.1)*
FCT100	**BSPP 1**	**140** *(37)*	**200** *(2900)*	**2,5** *(5.5)*



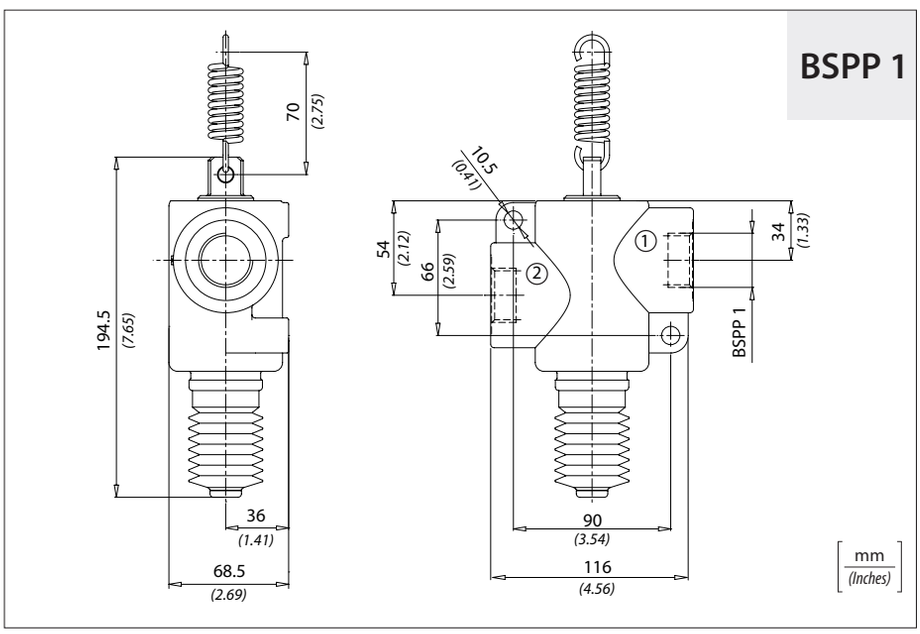


Codice ordinazione / *Ordering code*

FCT - X - Y

X	Dimensione / *Size*
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**

Y	Schema / *Circuit*
A	**Centro chiuso** *Closed centre*
B	**Centro aperto** *Open centre*



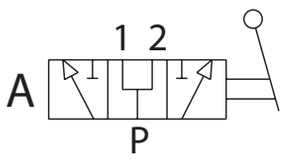
DDF3 Deviatori di flusso a 3 vie
3 ways flow diverters

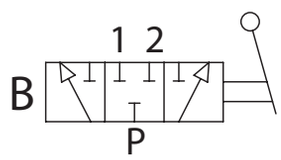
Dati tecnici
Technical data

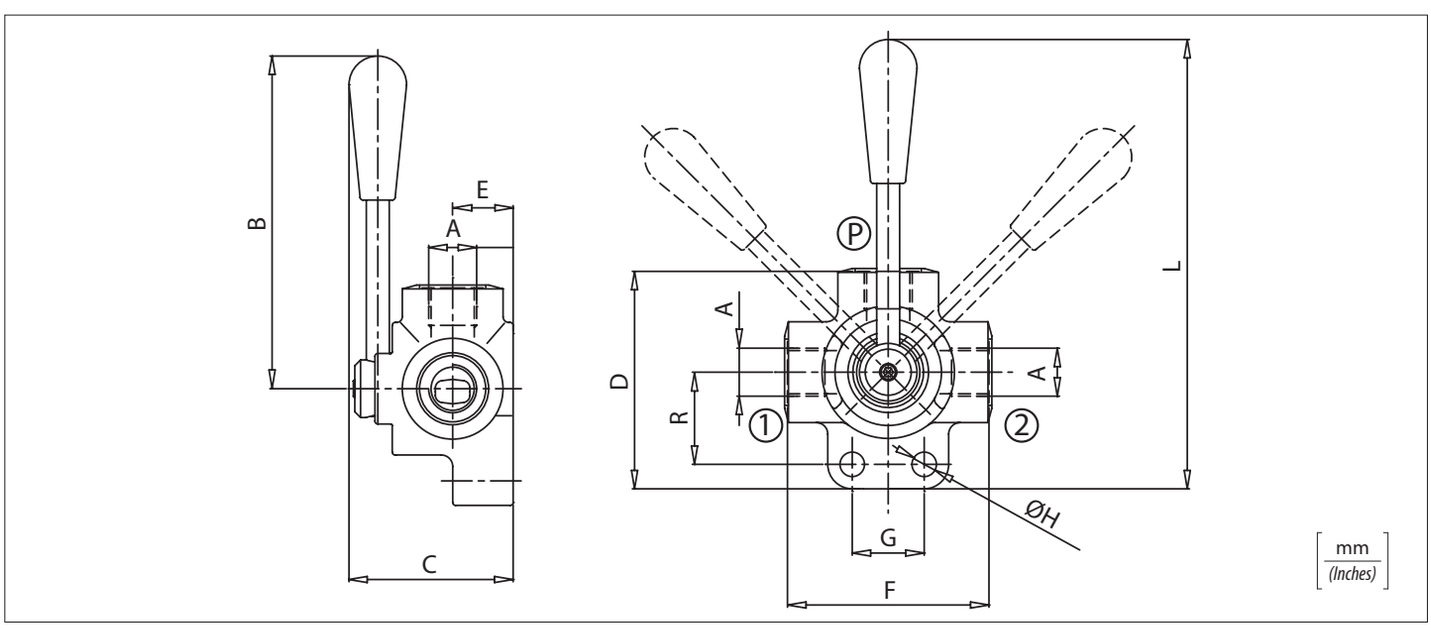
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

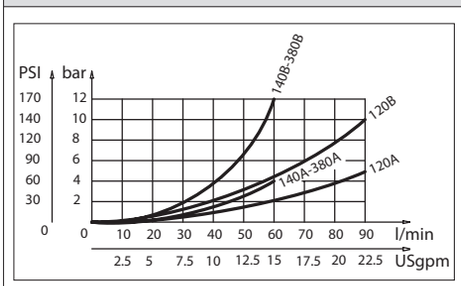
It is necessary a filter use to protect the valve (advised filtration 15 micron)

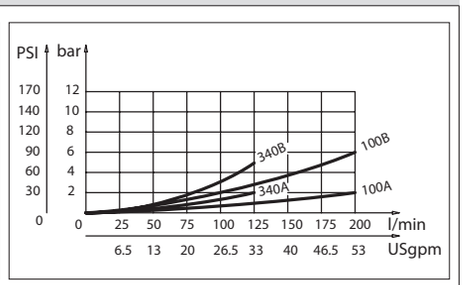






Perdite di carico / *Pressure drops*





Codice ordinazione / *Ordering code*

DDF3 - X - Y

X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**

Y	Schema / *Circuit*
A	**Centro aperto** *Open centre*
B	**Centro chiuso** *Closed centre*

Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	H	L	R	Peso approssimativo *Approx weight* Kg/ *lb*
DDF3140	**BSPP 1/4**	**60** *(16)*	**350** *(5000)*	**115** *(4.53)*	**57** *(2.25)*	**75,5** *(2.97)*	**21** *(0.83)*	**70** *(2.76)*	**25** *(0.98)*	**8,5** *(0.33)*	**155,5** *(6.12)*	**32** *(1.26)*	**0,8** *(1.8)*
DDF3380	**BSPP 3/8**												
DDF3120	**BSPP 1/2**	**90** *(23)*			**63** *(2.48)*	**86** *(3.38)*	**24** *(0.95)*	**80** *(3.15)*	**32** *(0.13)*		**161** *(6.34)*	**36** *(1.42)*	**1,2** *(2.7)*
DDF3340	**BSPP 3/4**	**120** *(30)*			**67** *(2.64)*	**98,5** *(3.88)*	**26** *(1.02)*	**90** *(3.54)*		**10,5** *(0.41)*	**168,5** *(6.63)*	**42** *(1.65)*	**1,8** *(4)*
DDF3100	**BSPP 1**	**200** *(50)*	**300** *(4000)*		**77** *(3.03)*	**110** *(4.33)*	**31** *(1.22)*	**98** *(3.86)*			**176,5** *(6.95)*	**150** *(1.97)*	**2,7** *(6)*

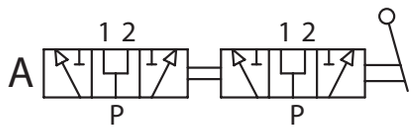
DDF6 Deviatori di flusso a 6 vie
6 ways flow diverters

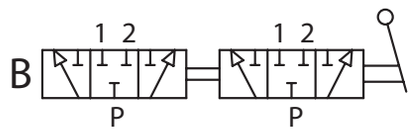
Dati tecnici
Technical data

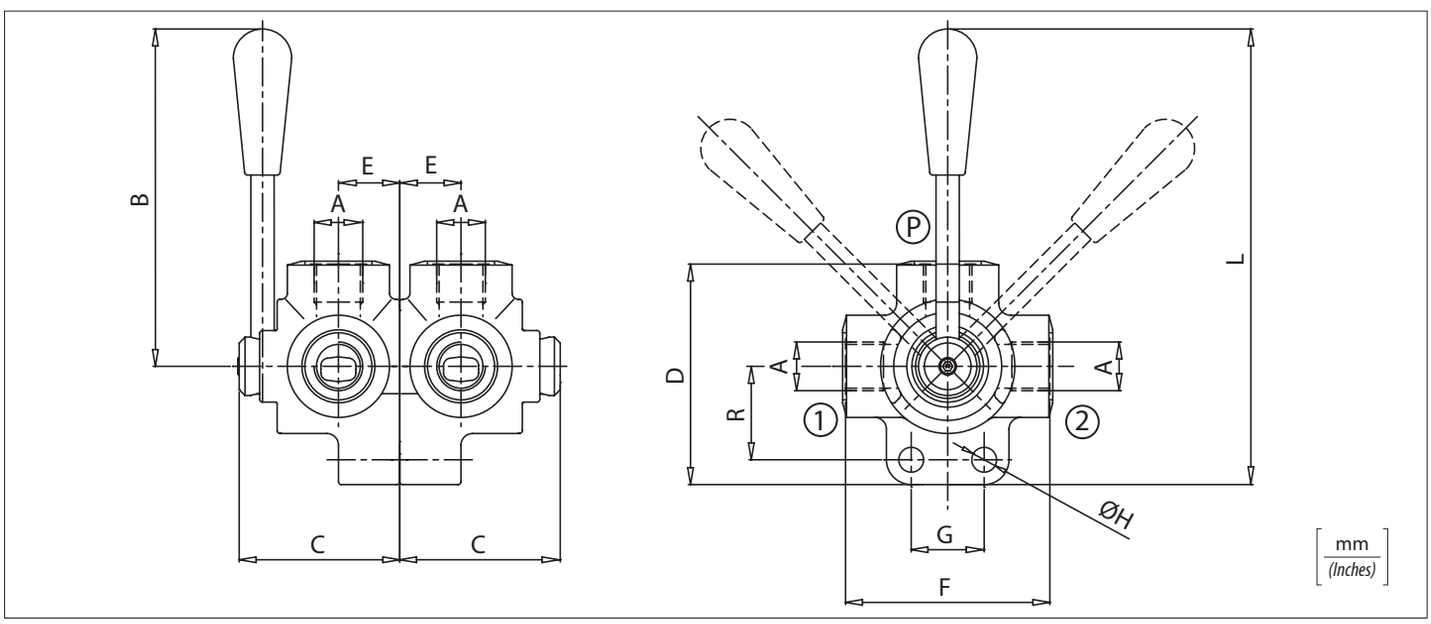
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

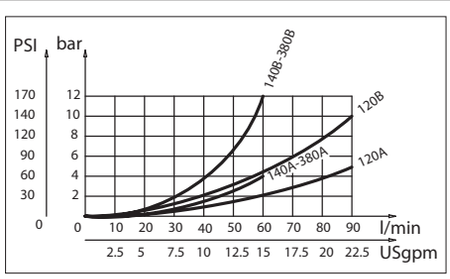
It is necessary a filter use to protect the valve (advised filtration 15 micron)

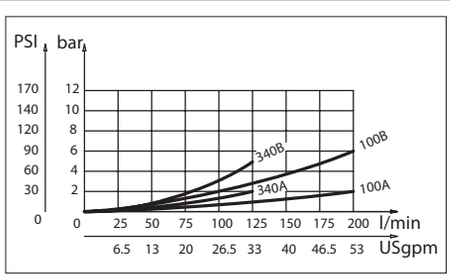






Perdite di carico / *Pressure drops*





Codice ordinazione / *Ordering code*

DDF6 - X - Y

X	Dimensione / *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4
100	BSPP 1

Y	Schema / *Circuit*
A	**Centro aperto** *Open centre*
B	**Centro chiuso** *Closed centre*

Caratteristiche tecniche / *Technical performances*

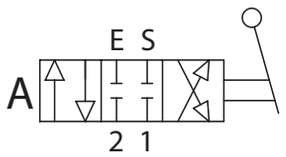
Codice *Code*	A	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	H	L	R	Peso approssimativo *Approx weight* Kg/ lb
DDF6140	**BSPP 1/4**	**60+60** *(16+16)*	**350** *(5000)*	**115** *(4.53)*	**57** *(2.25)*	**75,5** *(2.97)*	**21** *(0.83)*	**70** *(2.76)*	**25** *(0.98)*	**8,5** *(0.33)*	**155,5** *(6.12)*	**32** *(1.26)*	**1,5** *(3.3)*
DDF6380	**BSPP 3/8**												
DDF6120	**BSPP 1/2**	**90+90** *(23+23)*			**63** *(2.48)*	**86** *(3.38)*	**24** *(0.95)*	**80** *(3.15)*	**32** *(0.13)*		**161** *(6.34)*	**36** *(1.42)*	**2,3** *(5)*
DDF6340	**BSPP 3/4**	**120+120** *(30+30)*			**67** *(2.64)*	**98,5** *(3.88)*	**26** *(1.02)*	**90** *(3.54)*		**10,5** *(0.41)*	**168,5** *(6.63)*	**42** *(1.65)*	**3,5** *(8)*
DDF6100	**BSPP 1**	**200+200** *(50+50)*	**300** *(4000)*		**77** *(3.03)*	**110** *(4.33)*	**31** *(1.22)*	**98** *(3.86)*			**176,5** *(6.95)*	**150** *(1.97)*	**5,3** *(12)*

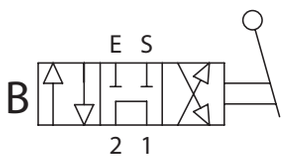
IDF4 Deviatori di flusso a 4 vie
4 ways flow diverters

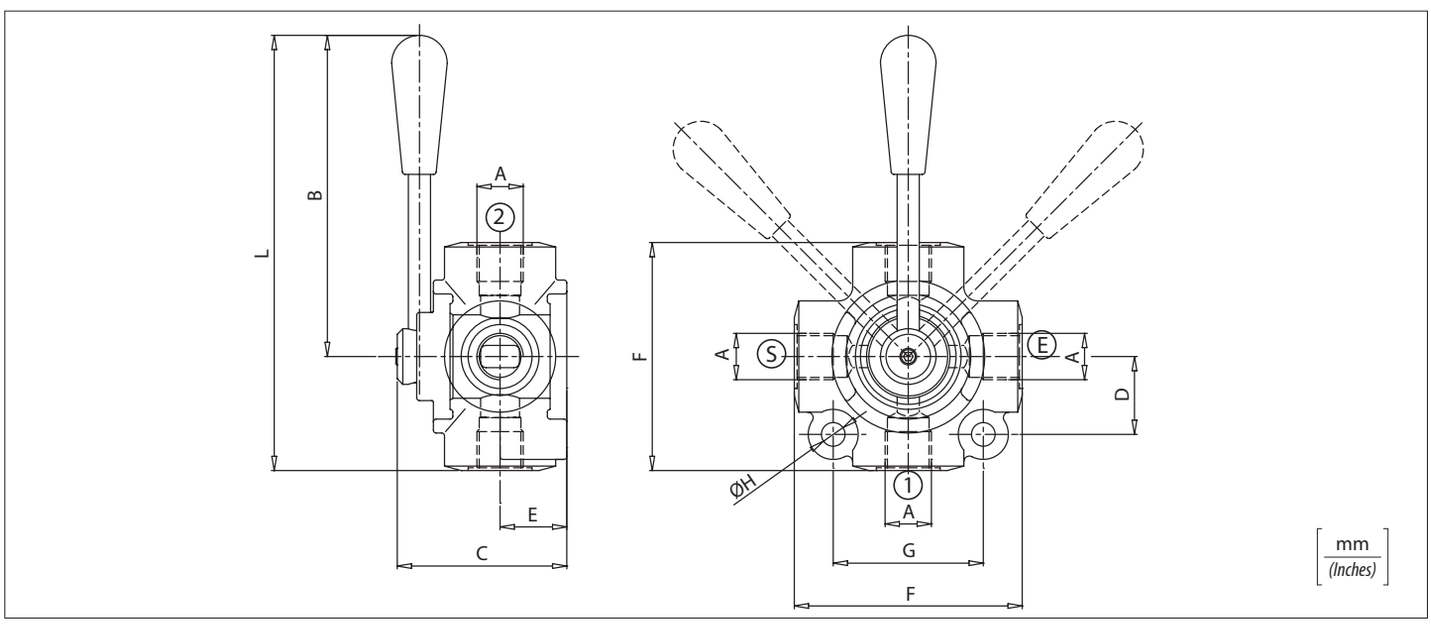
Dati tecnici *Technical data*		
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

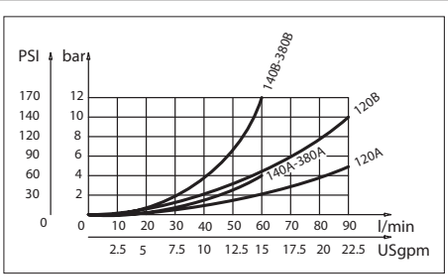
It is necessary a filter use to protect the valve (advised filtration 15 micron)

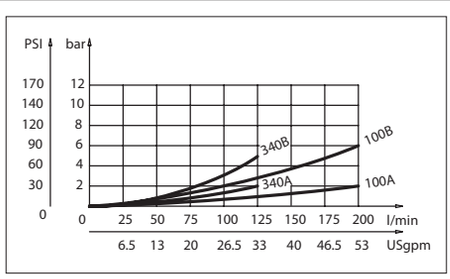






Perdite di carico / *Pressure drops*





Codice ordinazione / *Ordering code*

IDF4 - X - Y

X	Dimensione / *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4
100	BSPP 1

Y	Schema / *Circuit*
A	**Centro chiuso** *Closed centre*
B	**Centro aperto** *Open centre*

Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	H	L	Peso approssimativo *Approx weight* Kg/lb
IDF4140	**BSPP 1/4**	**60** *(16)*	**350** *(5000)*	**115** *(4.53)*	**63** *(2.48)*	**28** *(1.10)*	**24** *(0.95)*	**80** *(3.15)*	**54** *(2.12)*	**8,5** *(0.33)*	**155** *(6.10)*	**1,2** *(2.6)*
IDF4380	**BSPP 3/8**											
IDF4120	**BSPP 1/2**	**90** *(23)*										
IDF4340	**BSPP 3/4**	**120** *(30)*			**77** *(3.03)*	**38** *(1.50)*	**31** *(1.22)*	**94** *(3.70)*	**74** *(2.91)*	**10,5** *(0.41)*	**162** *(6.38)*	**2,2** *(4.8)*
IDF4100	**BSPP 1**	**200** *(50)*	**300** *(4000)*									**2** *(4.4)*

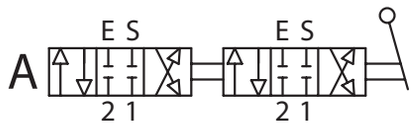
IDF8 Deviatori di flusso a 8 vie
8 ways flow diverters

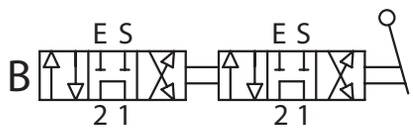
Dati tecnici
Technical data

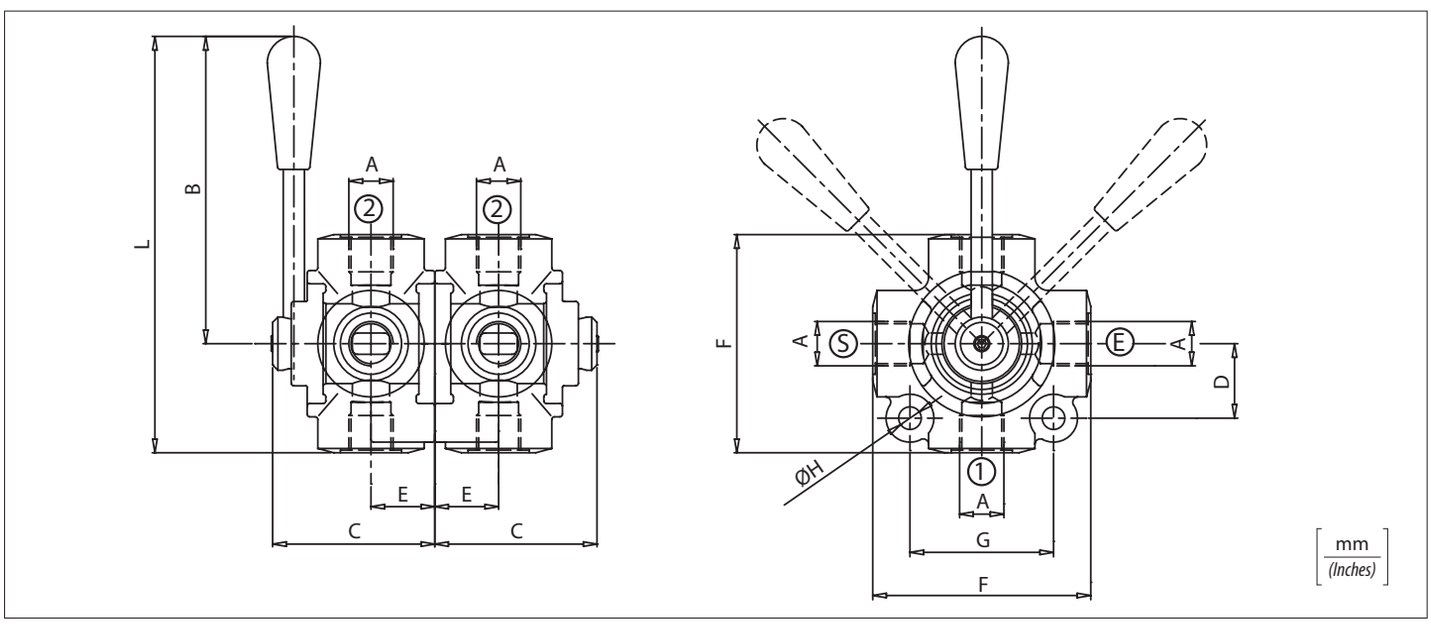
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

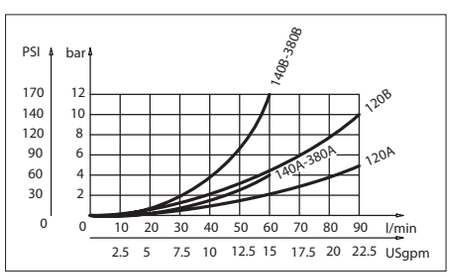
It is necessary a filter use to protect the valve (advised filtration 15 micron)

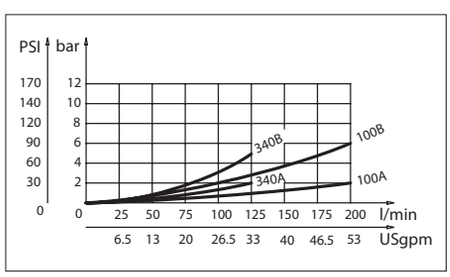






Perdite di carico / *Pressure drops*





Codice ordinazione / *Ordering code*

IDF8 - X - Y

X	Dimensione / *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4
100	BSPP 1

Y	Schema / *Circuit*
A	**Centro chiuso** *Closed centre*
B	**Centro aperto** *Open centre*

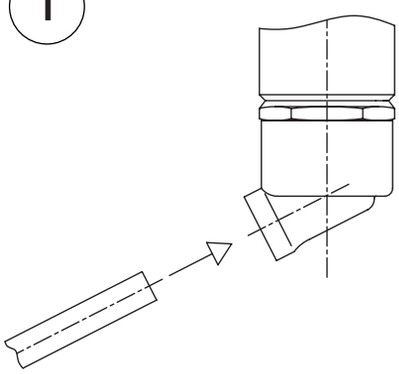
Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	B	C	D	E	F	G	H	L	Peso approssimativo *Approx weight* Kg/ lb
IDF8140	**BSPP 1/4**	**60** *(16)*	**350** *(5000)*	**115** *(4.53)*	**63** *(2.48)*	**28** *(1.10)*	**24** *(0.95)*	**80** *(3.15)*	**54** *(2.12)*	**8,5** *(0.33)*	**155** *(6.10)*	**2,3** *(5)*
IDF8380	**BSPP 3/8**											
IDF8120	**BSPP 1/2**	**90** *(23)*										**2,1** *(4.6)*
IDF8340	**BSPP 3/4**	**120** *(30)*			**77** *(3.03)*	**38** *(1.50)*	**31** *(1.22)*	**94** *(3.70)*	**74** *(2.91)*	**10,5** *(0.41)*	**162** *(6.38)*	**4,3** *(9.5)*
IDF8100	**BSPP 1**	**200** *(50)*	**300** *(4000)*									**4** *(8.8)*

Manuale d'uso e manutenzione Pompe a Mano

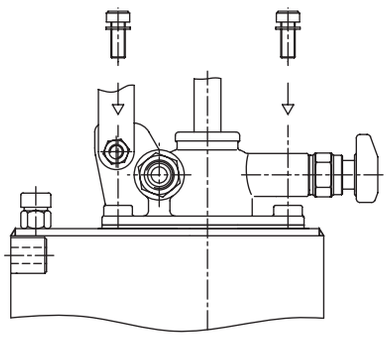
MONTAGGIO DEL TUBO ASPIRAZIONE

1



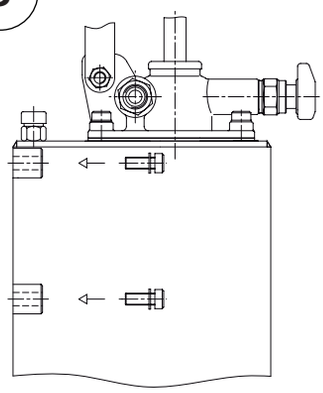
Introdurre il tubo di aspirazione nell'apposito raccordo.

2



Appoggiare la guarnizione in gomma sul serbatoio, posizionare la pompa, assemblare la pompa sul serbatoio mediante kit viti di fissaggio.

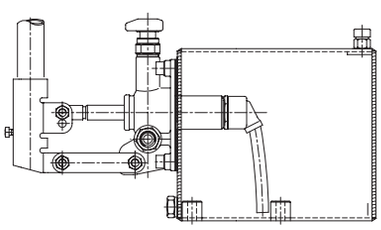
3



Collocare pompa e serbatoio nella posizione desiderata fissando con 4 viti.
Avvitate per minimo 20 mm.

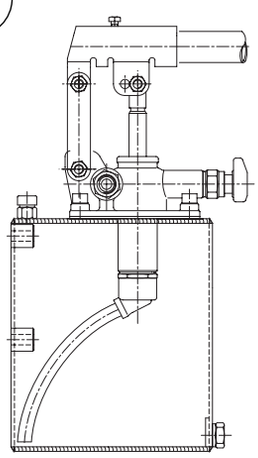
Collegare la mandata della pompa al circuito a semplice o doppio effetto.

4



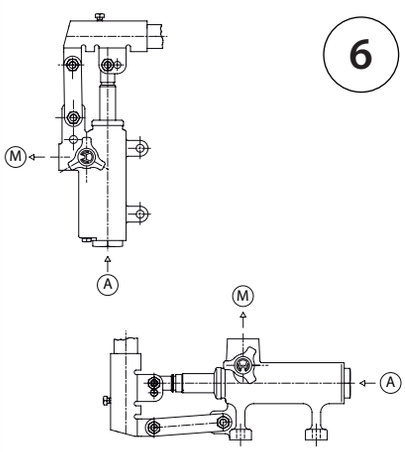
Montaggio orizzontale

5



Montaggio verticale

6



Posizionare la pompa in orizzontale o verticale fissandola con apposite viti.

Collegare aspirazione (A) e mandata (M) della pompa al circuito.

USO

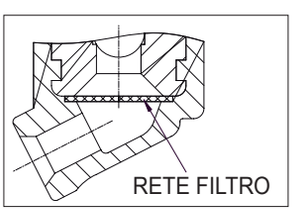
Per un corretto funzionamento, dopo aver montato la pompa nel o sul serbatoio in modo appropriato, utilizzare esclusivamente olio idraulico a base minerale ISO6743/4 (DIN 51524), viscosità secondo i parametri ISO 3448 (DIN51519).

Viscosità consigliata:	46 mm2/s (cSt)
Filtrazione consigliata:	15 micron
Classe di contaminazione:	18/14 ISO4406 (9 NAS 1638)

MANUTENZIONE

Per un corretto funzionamento, si consiglia di seguire le seguenti procedure periodiche:

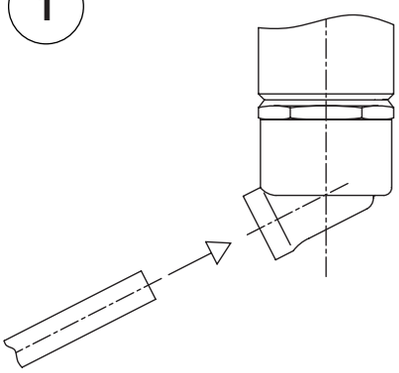
- **Pulizia della RETE FILTRO**
- **Sostituzione olio**



Hand Pumps use and maintenance booklet

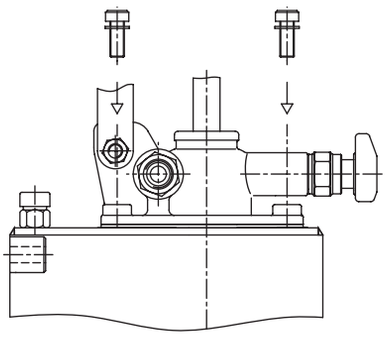
MOUNTING THE SUCTION HOSE

1



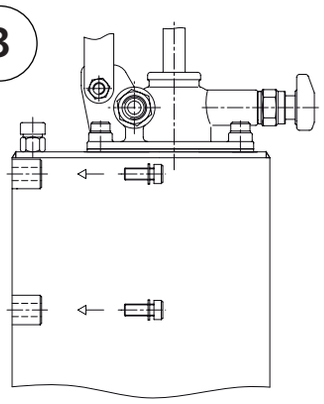
Insert the suction hose in the proper fitting.

2



Put the rubber seal on the tank, position the pump, assemble the pump to the tank by means of the fixing screws kit.

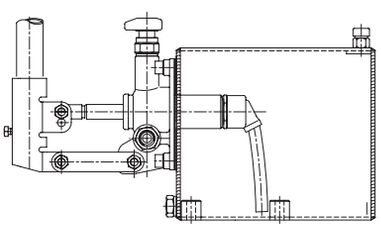
3



Place pump and tank in the position you need and fix them with nr.4 screws. You have to screw for at least 20 mm.

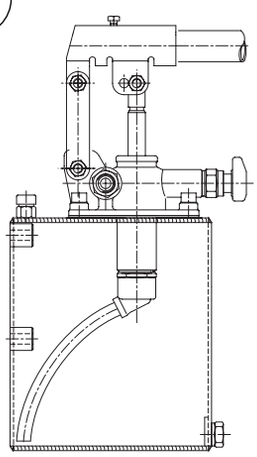
Connect pump delivery to the single or double acting circuit.

4



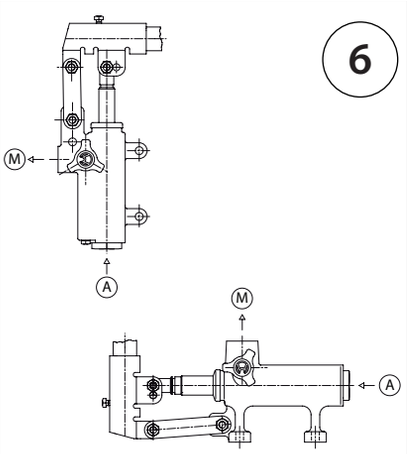
Horizontal mounting

5



Vertical mounting

6



Place pump horizontally or vertically and fix with proper screws.

Connect pump suction (A) and delivery (M) to the circuit.

USE

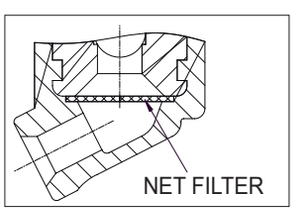
For a good service of the pump, after having assembled the pump inside or on the tank in the proper way, please use only ISO6743/4 (DIN 51524), hydraulic mineral oil, viscosity according to ISO 3448 (DIN51519) standards.

Advised viscosity:	46 mm2/s (cSt)
Advised filtration:	15 micron
Contamination class:	18/14 ISO4406 (9 NAS 1638)

MAINTENANCE

For a good service, we advise following periodical operations:

- **NET FILTER cleaning**
- **Oil replacement**



Accessori

Accessories

Oleoweb

HYDRAULIC VALVES AND COMPONENTS

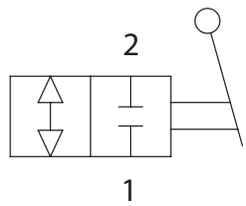
RAS2 Valvole a sfera a 2 vie
2 ways ball valves

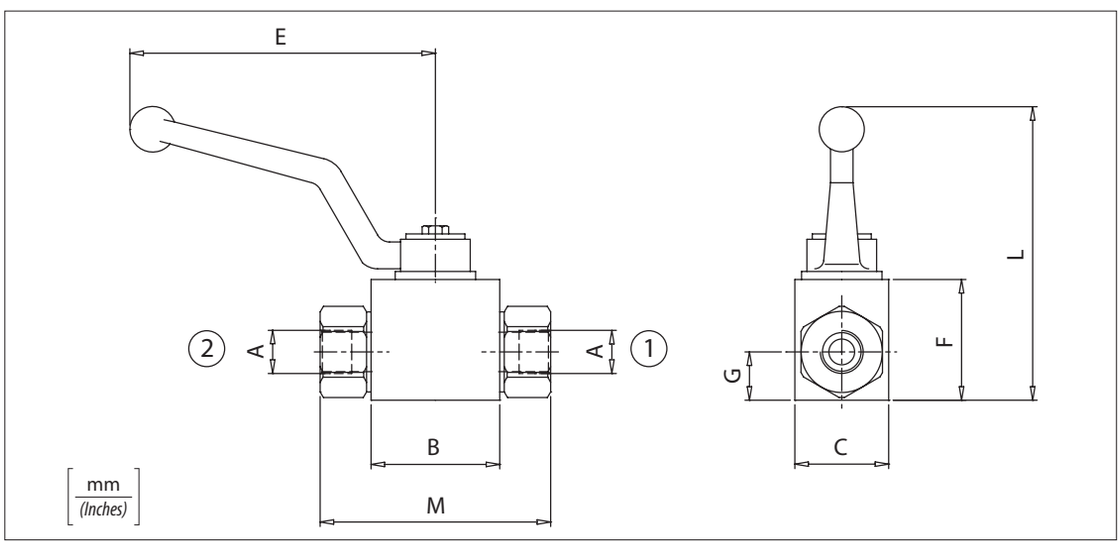
Dati tecnici
Technical data

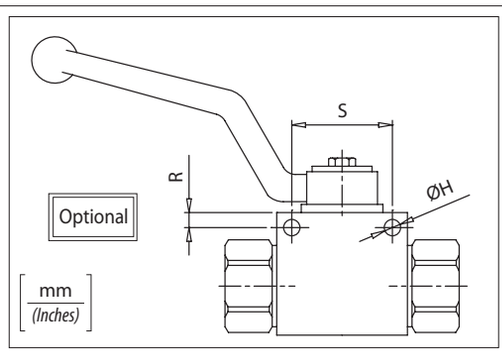
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)







Codice ordinazione
Ordering code

RAS2 - X - Y

X	Dimensione / *Size*
180	**BSPP 1/8**
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**
114	**BSPP 1-1/4**
112	**BSPP 1-1/2**

Y	Optional
P	**Fori di fissaggio** *Fixing ports*

Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	B	C	E	F	G	H	L	M	R	S	Peso approssimativo *Approx weight* Kg/ lb
RAS2180	**BSPP 1/8**	**15** *(4)*	**500** *(7250)*	**42** *(1.65)*	**30** *(1.18)*	**110** *(4.33)*	**35** *(1.38)*	**14,5** *(0.57)*	**5,2** *(0.20)*	**91,5** *(3.60)*	**71** *(2.80)*	**4,5** *(0.18)*	**34** *(1.34)*	**0,5** *(1.1)*
RAS2140	**BSPP 1/4**	**25** *(6.5)*												
RAS2380	**BSPP 3/8**	**35** *(9)*		**44** *(1.73)*	**35** *(1.38)*		**40** *(1.57)*	**17,5** *(0.69)*		**96,5** *(3.80)*	**73** *(2.87)*	**5** *(0.20)*		**0,7** *(1.5)*
RAS2120	**BSPP 1/2**	**60** *(15)*		**48** *(1.89)*	**37** *(1.46)*		**43** *(1.69)*	**18** *(0.71)*		**99,5** *(3.91)*	**83** *(3.27)*		**36** *(1.42)*	**0,8** *(1.8)*
RAS2340	**BSPP 3/4**	**100** *(25)*	**400** *(5800)*	**62,5** *(2.46)*	**45** *(1.77)*	**180** *(7.08)*	**55** *(2.16)*	**23,5** *(0.93)*	**6,2** *(0.24)*	**106,5** *(4.19)*	**95** *(3.74)*	**6** *(0.24)*	**50** *(1.97)*	**1,5** *(3.3)*
RAS2100	**BSPP 1**	**150** *(40)*	**350** *(5000)*	**66,5** *(2.62)*	**55** *(2.16)*		**65** *(2.56)*	**29,5** *(1.16)*		**116,5** *(4.59)*	**112** *(4.41)*			**2,3** *(5)*
RAS2114	**BSPP 1-1/4**										**120** *(4.72)*			
RAS2112	**BSPP 1-1/2**										**124** *(4.88)*			**2,5** *(5.5)*

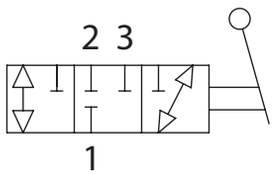
RAS3 Valvole a sfera a 3 vie
3 ways ball valves

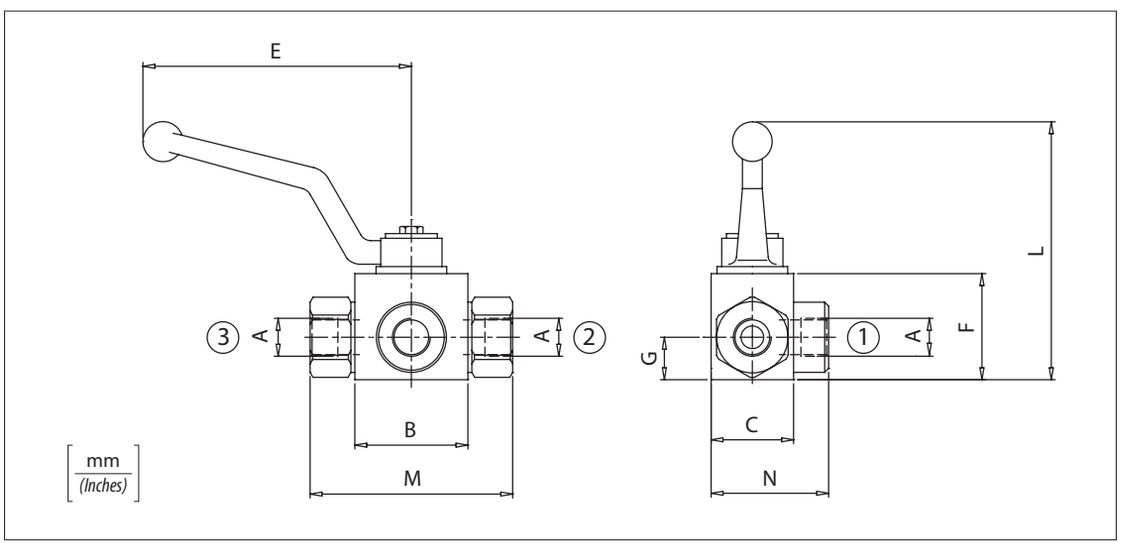
Dati tecnici
Technical data

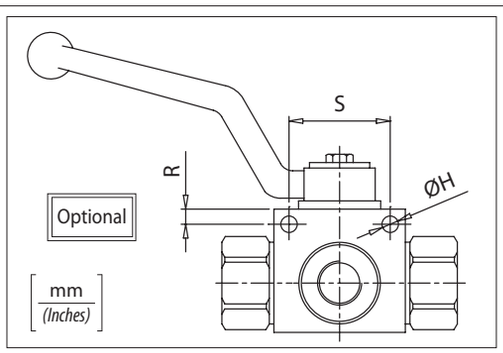
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)







Codice ordinazione
Ordering code

RAS3 - X - Y

X	Dimensione / *Size*
180	**BSPP 1/8**
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**
114	**BSPP 1-1/4**
112	**BSPP 1-1/2**

Y	Optional
P	**Fori di fissaggio** *Fixing ports*

Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	B	C	E	F	G	H	L	M	N	R	S	Peso approssimativo *Approx weight* Kg/ lb
RAS3180	**BSPP 1/8**	**15** *(4)*	**400** *(5800)*	**42** *(1.65)*	**30** *(1.18)*	**110** *(4.33)*	**35** *(1.38)*	**14,5** *(0.57)*	**5,2** *(0.20)*	**91,5** *(3.60)*	**71** *(2.80)*	**48,5** *(1.90)*	**4,5** *(0.18)*	**34** *(1.34)*	**0,6** *(1.3)*
RAS3140	**BSPP 1/4**	**25** *(6.5)*													
RAS3380	**BSPP 3/8**	**35** *(9)*		**44** *(1.73)*	**35** *(1.38)*		**40** *(1.57)*	**17,5**(0.69)		**96,5** *(3.80)*	**73** *(2.87)*	**54,5** *(2.14)*	**5** *(0.20)*	**36** *(1.42)*	**0,7**(1.5)
RAS3120	**BSPP 1/2**	**60** *(15)*	**350** *(5000)*	**48** *(1.89)*	**37** *(1.46)*		**43** *(1.69)*	**18** *(0.71)*		**99,5** *(3.91)*	**83** *(3.27)*	**58,5** *(2.30)*	**6** *(0.24)*	**50** *(1.97)*	**0,8** *(1.8)*
RAS3340	**BSPP 3/4**	**100** *(25)*		**62,5** *(2.46)*	**45** *(1.77)*	**180** *(7.08)*	**55** *(2.16)*	**23,5** *(0.93)*	**6,2** *(0.24)*	**106,5** *(4.19)*	**95** *(3.74)*	**75** *(2.95)*			**1,6** *(3.5)*
RAS3100	**BSPP 1**	**150** *(40)*		**66,5** *(2.62)*	**55** *(2.16)*		**65** *(2.56)*	**29,5** *(1.16)*		**116,5** *(4.59)*	**112** *(4.41)*	**87,5** *(3.15)*			**2,4** *(5.3)*
RAS3114	**BSPP 1-1/4**										**120** *(4.72)*				**2,6** *(5.7)*
RAS3112	**BSPP 1-1/2**										**124** *(4.88)*				**2,8** *(6)*

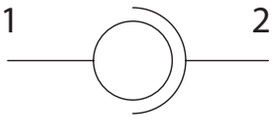
GGIL Giunti girevoli in linea
In line rotating coupling

Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

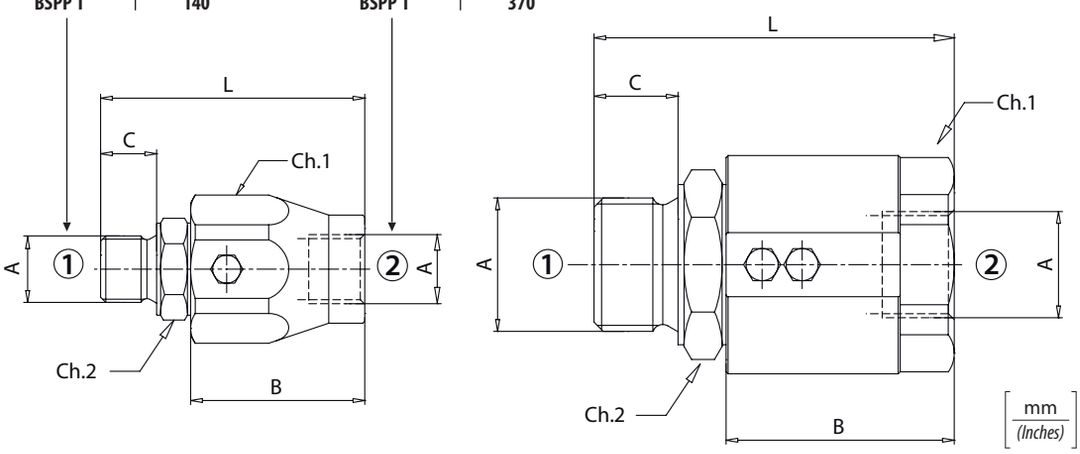


Coppie di serraggio femmina girevole 60°
60° female swivel ends torque values

①	Nm
BSPP 1/4	20
BSPP 3/8	35
BSPP 1/2	60
BSPP 3/4	115
BSPP 1	140

Coppie di serraggio raccordo
Tightening torques for stud

②	Nm
BSPP 1/4	40
BSPP 3/8	90
BSPP 1/2	120
BSPP 3/4	210
BSPP 1	370



Codice ordinazione
Ordering code

GGIL - X

X	Dimensione / *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4
100	BSPP 1

Caratteristiche tecniche / *Technical performances*

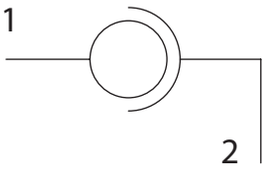
Codice *Code*	A	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	Pressione max in rotazione *Max rotation pressure* bar/*PSI*	Velocità max di rotazione *Max rotation speed* rev/min	B	C	Ch.1	Ch.2	L	Peso approssimativo *Approx weight* Kg/ *lb*
GGIL140	**BSPP 1/4**	**25** *(6.5)*	**400** *(5800)*	**200** *(2900)*	**212**	**42** *(1.65)*	**11** *(0.43)*	**30** *(1.18)*	**19** *(0.75)*	**61** *(2.40)*	**0,21** *(0.46)*
GGIL380	**BSPP 3/8**	**35** *(9)*			**173**	**44** *(1.73)*	**14** *(0.55)*	**34** *(1.34)*	**24** *(0.95)*	**66** *(2.60)*	**0,27** *(0.60)*
GGIL120	**BSPP 1/2**	**60** *(15)*	**300** *(4000)*	**150** *(2200)*	**160**	**47** *(1.85)*	**15** *(0.59)*	**36** *(1.42)*	**27** *(1.06)*	**71** *(2.79)*	**0,34** *(0.75)*
GGIL340	**BSPP 3/4**	**100** *(26)*			**120**	**50** *(1.97)*	**19** *(0.75)*	**45** *(1.77)*	**34** *(1.34)*	**80** *(3.15)*	**0,55** *(1.2)*
GGIL100	**BSPP 1**	**180** *(47)*		**100** *(1450)*	**100**	**57** *(2.24)*	**21** *(0.82)*	**50** *(1.97)*	**41** *(1.61)*	**90** *(3.54)*	**0,91** *(2)*

GG90 Giunti girevoli a 90°
90° rotating coupling

Dati tecnici *Technical data*		
Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)

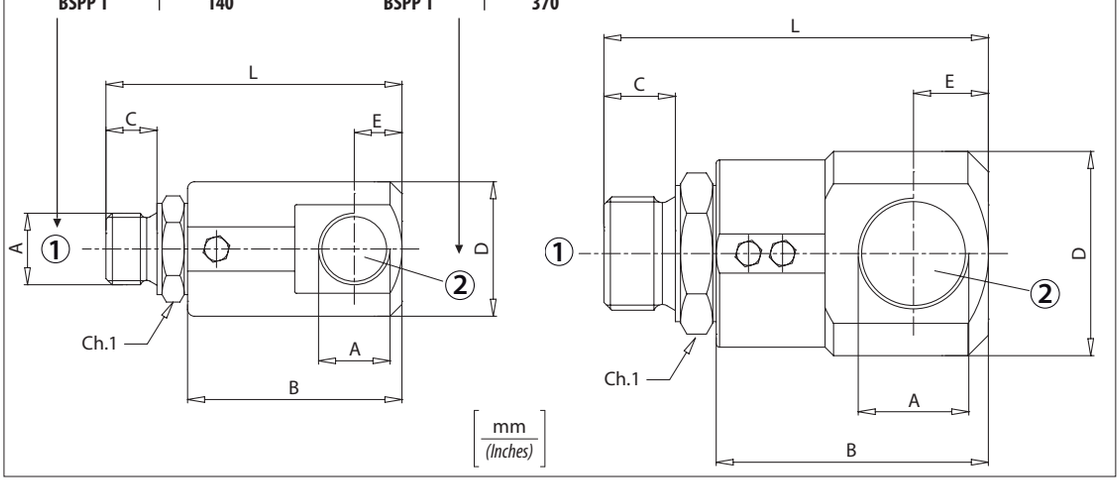


Coppie di serraggio femmina girevole 60°
60° female swivel ends torque values

①	Nm
BSPP 1/4	20
BSPP 3/8	35
BSPP 1/2	60
BSPP 3/4	115
BSPP 1	140

Coppie di serraggio raccordo
Tightening torques for stud

②	Nm
BSPP 1/4	40
BSPP 3/8	90
BSPP 1/2	120
BSPP 3/4	210
BSPP 1	370



Codice ordinazione
Ordering code

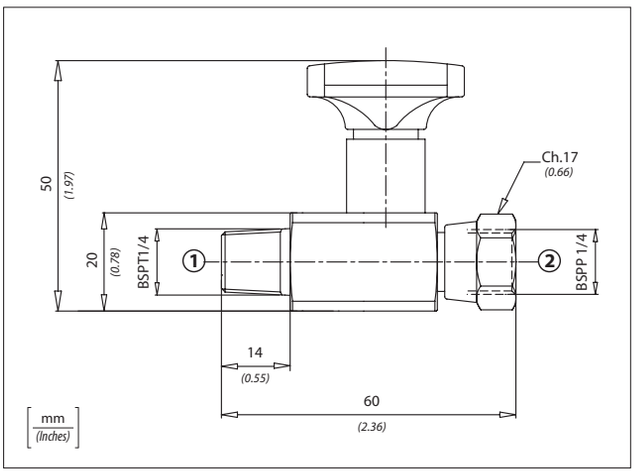
GG90 - X

X	Dimensione / *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4
100	BSPP 1

Caratteristiche tecniche / *Technical performances*

Codice *Code*	A	Portata Max *Max flow* l/min - USgpm	Pressione Max *Max pressure* bar/PSI	Pressione max in rotazione *Max rotation pressure* bar/*PSI*	Velocità max di rotazione *Max rotation speed* rev/*min*	B	C	D	E	L	Ch.1	Peso approssimativo *Approx weight* Kg/*lb*
GG90140	**BSPP 1/4**	**25** *(6.5)*	**400** *(5800)*	**200** *(2900)*	**212**	**50** *(1.97)*	**11** *(0.43)*	**33,5** *(1.32)*	**11** *(0.43)*	**69** *(2.71)*	**19** *(0.75)*	**0,31** *(0.68)*
GG90380	**BSPP 3/8**	**35** *(9)*			**173**	**54** *(2.13)*	**14** *(0.55)*	**37,5** *(1.48)*	**13** *(0.51)*	**76** *(2.99)*	**24** *(0.95)*	**0,41** *(0.90)*
GG90120	**BSPP 1/2**	**60** *(15)*	**300** *(4000)*	**150** *(2200)*	**160**	**63** *(2.48)*	**15** *(0.59)*	**39,5** *(1.55)*	**14** *(0.55)*	**87** *(3.42)*	**27** *(1.06)*	**0,52** *(1.15)*
GG90340	**BSPP 3/4**	**100** *(26)*			**120**	**70** *(2.76)*	**19** *(0.75)*	**54,5** *(2.15)*	**18** *(0.71)*	**100** *(3.93)*	**34** *(1.34)*	**0,90** *(2)*
GG90100	**BSPP 1**	**180** *(47)*		**100** *(1450)*	**100**	**80** *(3.15)*	**21** *(0.82)*	**59** *(2.32)*	**25** *(0.98)*	**113** *(4.45)*	**41** *(1.61)*	**1,12** *(2.5)*

SOV1400 Rubinetto esclusore in linea protezione manometro
Pressure gauge in-line shut-off valve

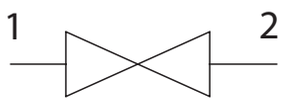


Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



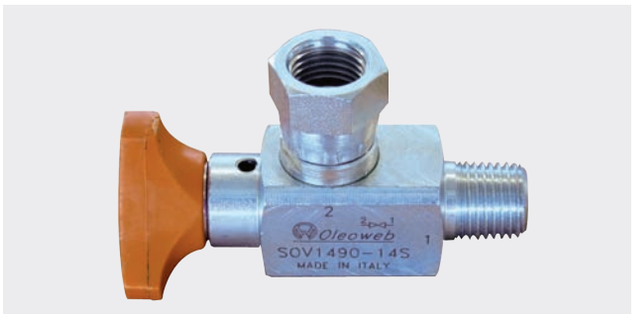
Caratteristiche tecniche
Technical performances

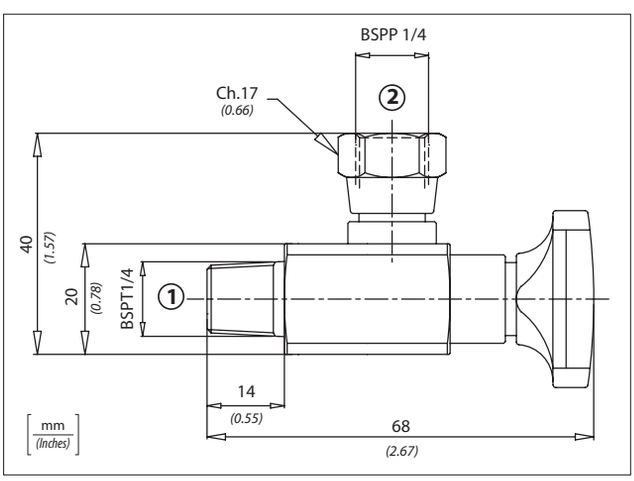
Codice *Code*	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg / *lb*
SOV1400	**400** *(5800)*	**0,15** *(0.33)*

Codice ordinazione
Ordering code

SOV1400

SOV1490 Rubinetto esclusore 90° protezione manometro
Pressure gauge 90° shut-off valve



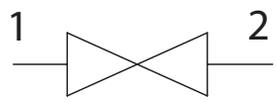


Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)



Caratteristiche tecniche
Technical performances

Codice *Code*	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg / *lb*
SOV1490	**400** *(5800)*	**0,15** *(0.33)*

Codice ordinazione
Ordering code

SOV1490

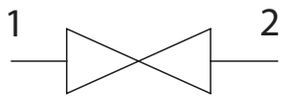
MNP140 Miniprese prova pressione
Test couplings for pressure checking

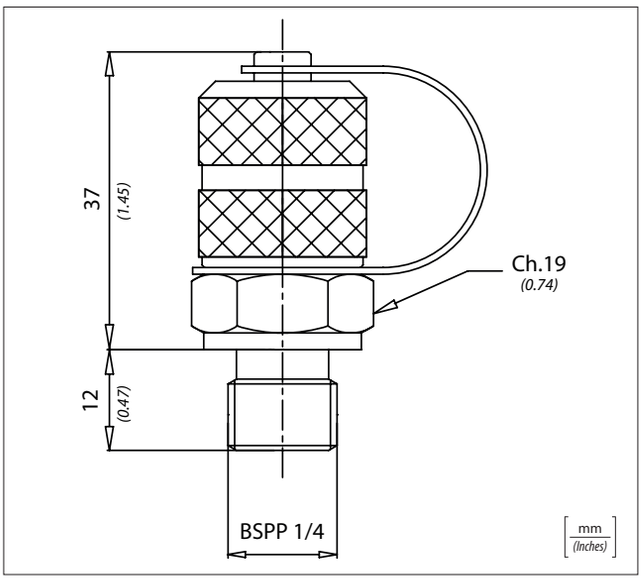
Dati tecnici
Technical data

Olio idraulico *Mineral oil*	ISO 6743/4 *DIN 51524*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*	
Classe di contaminazione max con filtro *Max contamination index with filter*	ISO 4406:1999 Classe 19/17/14	
Temperatura del fluido *Fluid temperature*	-20°C *-4°F*	+80°C *+ 176°F*
Temperatura ambiente *Ambient temperature*	-20°C *-4°F*	+50°C *+ 122°F*

È indispensabile l'utilizzo di un filtro (filtrazione consigliata 15 micron) per proteggere la valvola

It is necessary a filter use to protect the valve (advised filtration 15 micron)





Caratteristiche tecniche / *Technical performances*

Codice *Code*	Pressione Max *Max pressure* bar/PSI	Coppia di serraggio *Tightening torque* Nm/*lbf ft*	Peso approssimativo *Approx weight* Kg / *lb*
MNP	**630** *(9000)*	**30** *(22)*	**0,08** *(0.18)*

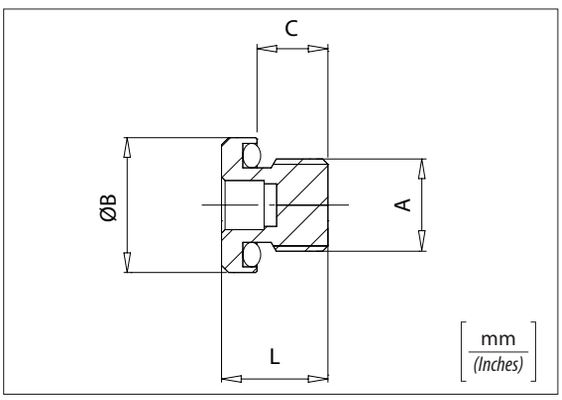
Codice ordinazione
Ordering code

MNP140

Tappi *Plugs*

Caratteristiche tecniche / *Technical performances*

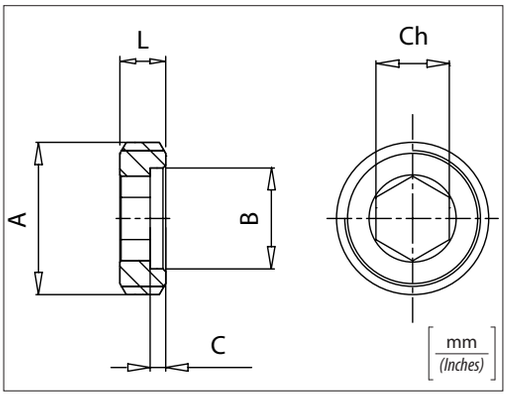
Codice *Code*	A	B	C	L
83500001	**BSPP 1/8**	**15** *(0.59)*	**9** *(0.35)*	**13** *(0.51)*
83500002	**BSPP 1/4**	**19** *(0.75)*	**11** *(0.43)*	**16** *(0.63)*
83500003	**BSPP 3/8**	**22** *(0.87)*	**11** *(0.43)*	**17** *(0.67)*
83500004	**BSPP 1/2**	**27** *(1.06)*	**14** *(0.55)*	**20** *(0.79)*
12000160	**BSPP 3/4**	**32** *(1.26)*		



Ghiere filettate *Threaded rings*

Caratteristiche tecniche / *Technical performances*

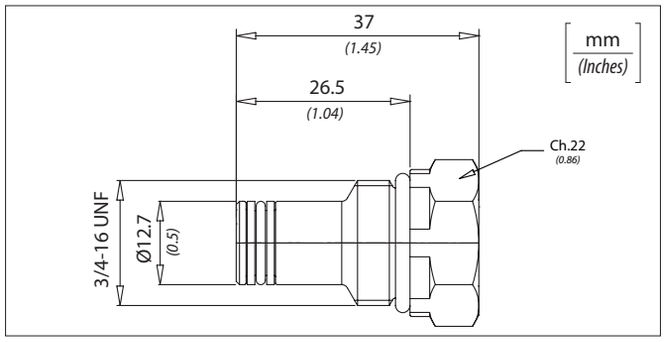
Codice *Code*	A	B	C	L	Ch
61300301	**M9x1**	**5,5** *(0.22)*	**1,7** *(0.07)*	**4** *(0.16)*	**4** *(0.16)*
61300171	**M12x1**	**8,1** *(0.32)*			**5** *(0.20)*
61300008	**BSPP 1/4**				
61300110	**BSPP 3/8**			**5** *(0.20)*	
61300009		**11** *(0.43)*			**8** *(0.32)*
61300005	**BSPP 1/2**	**14,5** *(0.57)*	**2** *(0.08)*	**6** *(0.24)*	**12** *(0.47)*
61300021	**BSPP 3/4**	**20** *(0.79)*	**3** *(0.12)*	**7** *(0.27)*	**16** *(0.63)*
61300026	**BSPP 1**	**24** *(0.95)*	**4** *(0.16)*	**9** *(0.35)*	**18** *(0.71)*



Tappi *Plugs*

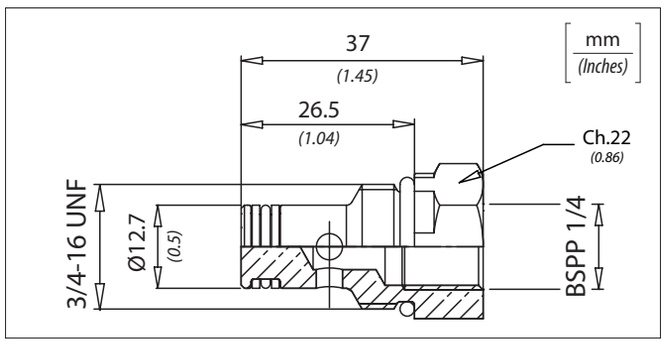
TAPPO A / *PLUG A*

Cod. **11200001**



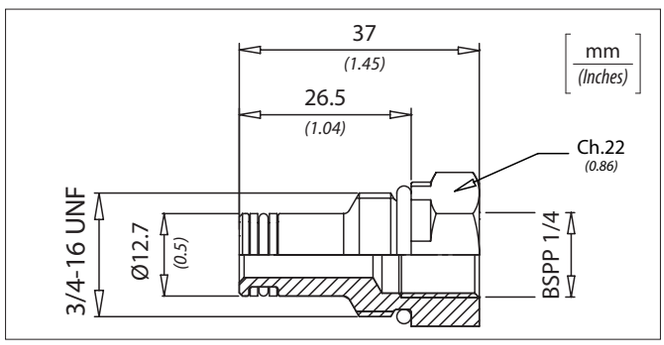
TAPPO B / *PLUG B*

Cod. **12000162**



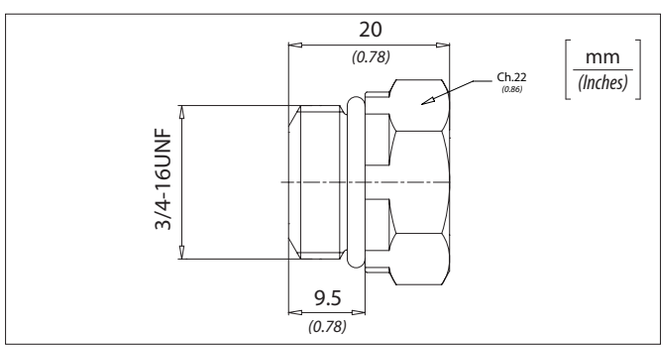
TAPPO C / *PLUG C*

Cod. **12000182**



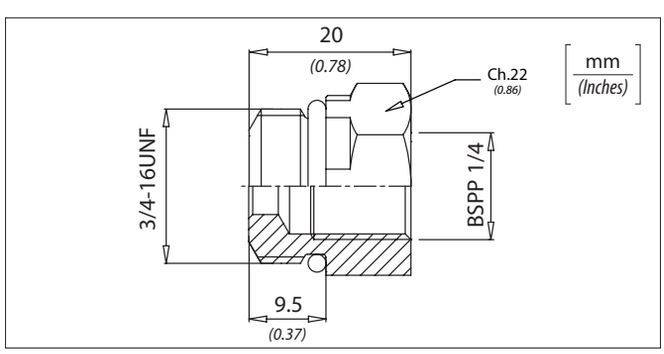
TAPPO D / *PLUG D*

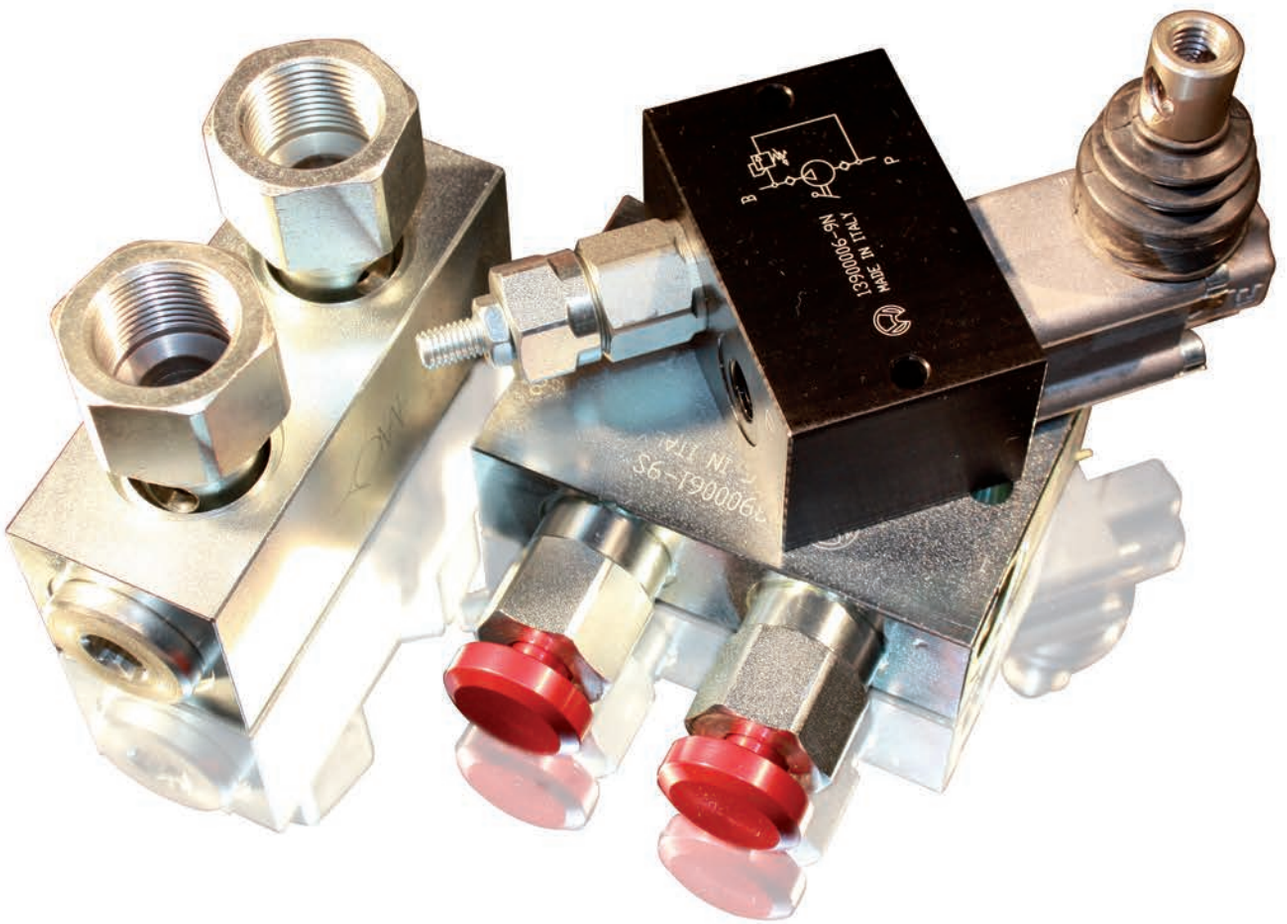
Cod. **12000184**



TAPPO E / *PLUG E*

Cod. **12000183**





Applicazioni speciali

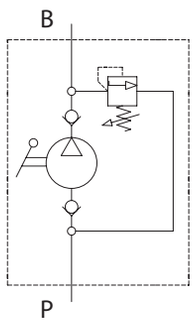
Special applications

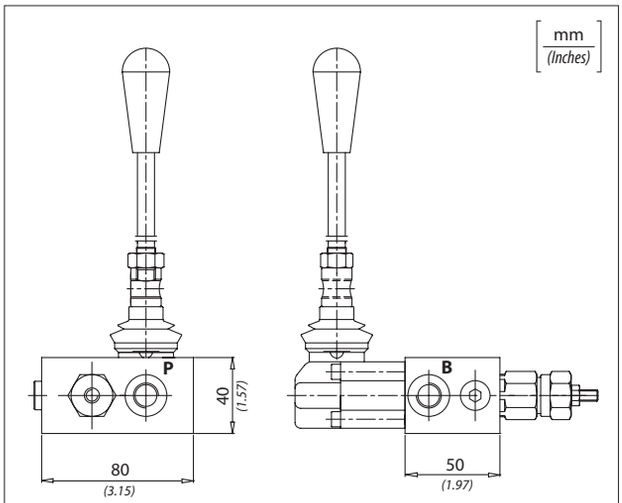
Oleoweb

HYDRAULIC VALVES AND COMPONENTS

BLOCCO 53
(Manifold 53)

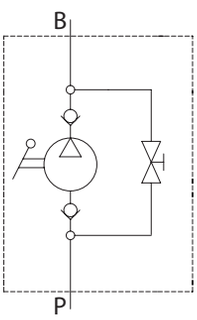
Cod. **13900006**

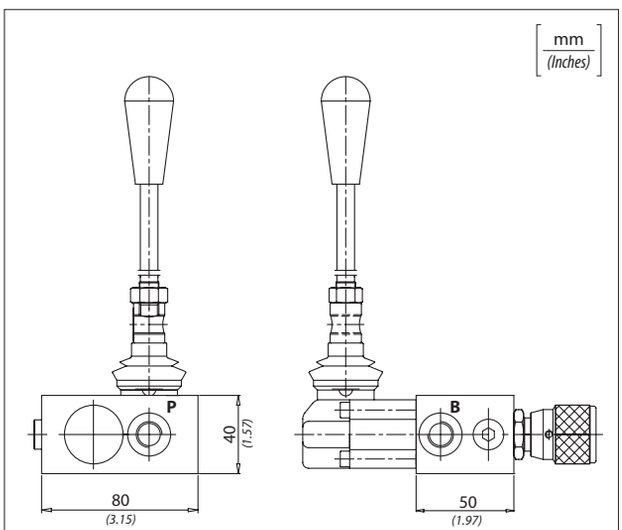




BLOCCO 54
(Manifold 54)

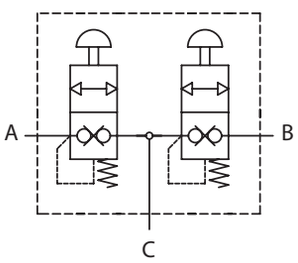
Cod. **13900008**

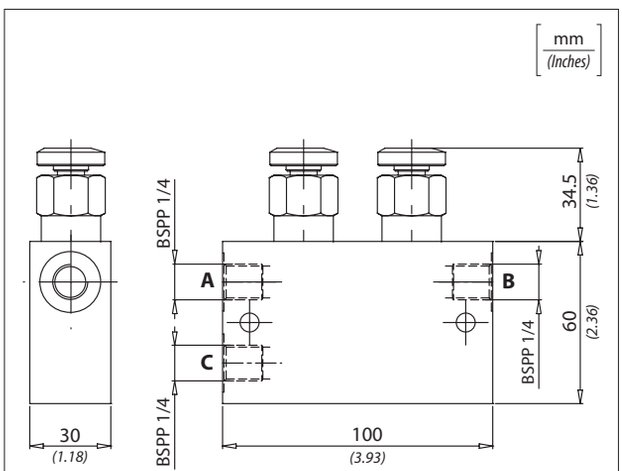




BLOCCO 57
(Manifold 57)

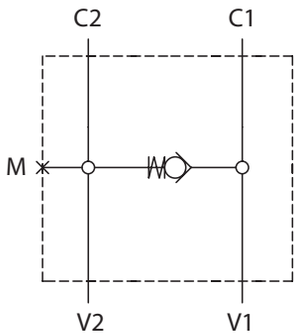
Cod. **13900003**

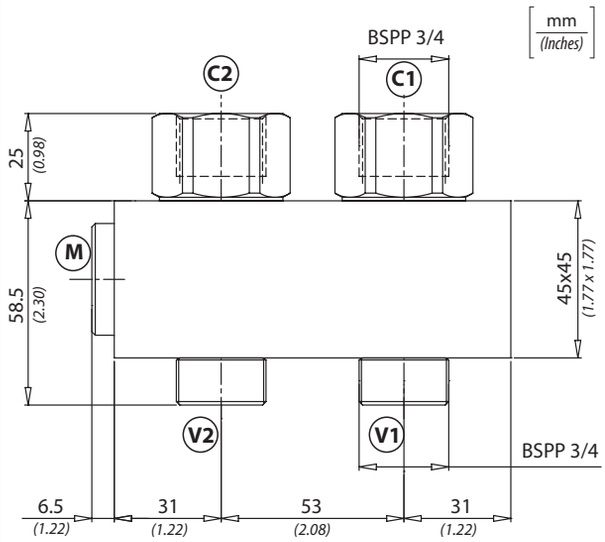




BLOCCO 58
(Manifold 58)

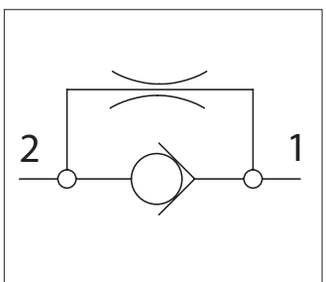
Cod. **13900047**

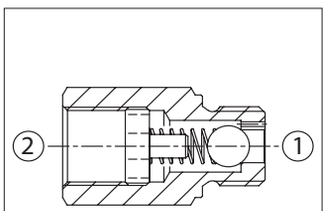


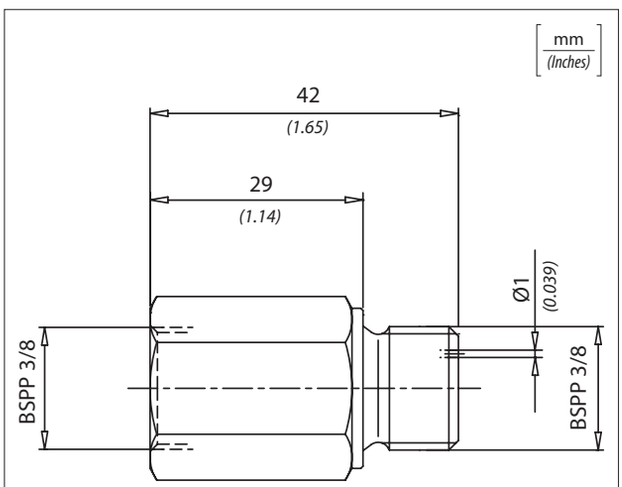


Valvola unidirezionale con trafilamento
(Check valve with gap)

Cod. **13900041**

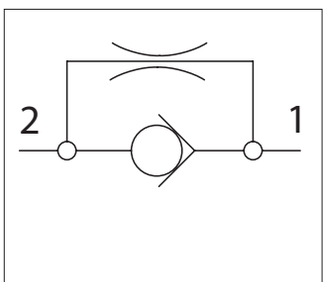


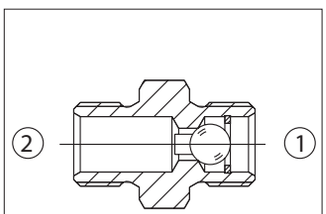


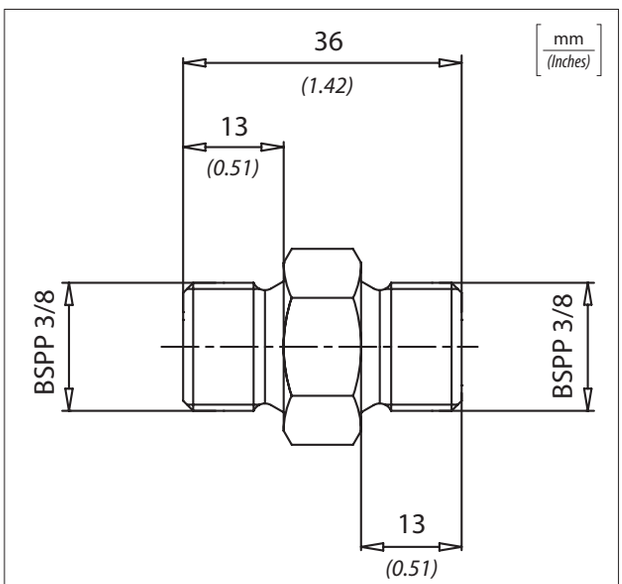


Valvola unidirezionale con trafilamento
(Check valve with gap)

Cod. **13900010**





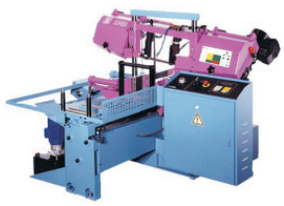


Typical Applications

LIFTING TABLES

STAKERS

BANDSAW MACHINES



SECTIONAL IND.DOORS

PRESSES

TYRE CHANGER

DUMP TRUCKS

LONG SPLITTER

CAR LIFTERS

HYDRAULIC GANGWAYS

PARKING SYSTEMS

LIGHT TOWERS

HYDRAULIC CRANES

AUTOMARKETS

AUTOMARKETS

BENDING MACHINES

TAIL-LIFTS

DOCK LEVELLERS

Notes

Notes

Notes

Notes

HYDRAULIC VALVES MAINTENANCE BOOKLET

This handbook is directed to specialized and competent staff that may not replace in any case the knowledge and competence of the installer. The Producer disclaims any responsability for damage to persons and objects due to a bad or improper installation of the valves. *OLEOWEB SRL* is geared to a continuos reserch and development of its products and therefore reservers the right to change at any time and without notice all the technical characteristics deemed necessary. This manual will undergo changes and additions, but shall in no circumstances be regarded as outdated. This manual and the technical documentation of *OLEOWEB SRL* are intended to provide additional technical information to competet users of the departement and/or employees.

COMPETENT PERSON

It's a person that has sufficient knowledge of the field due to technical worth of training and experience. The User, however, is the only responsible for the choice of the product and its accessories. It is therefore important that the user analyses the problems of its application, running adequate tests. The same user is also responsible for the implementation of security and warnings required by existing laws.

ENGRAVING

Oleoweb's valves can be simply identified through the stamp placed on the valve:
- Corporate Logo
- Hydraulic circuit
- Article code
- Month and year of manufacture (extension code)

MANUFACTURE MONTH	MANUFACTURE YEAR									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
JANUARY	0M	1M	12M	13M	14M	15M	16M	17M	18M	19M
FEBRUARY	0N	1N	12N	13N	14N	15N	16N	17N	18N	19N
MARCH	0P	1P	12P	13P	14P	15P	16P	17P	18P	19P
APRIL	0Q	1Q	12Q	13Q	14Q	15Q	16Q	17Q	18Q	19Q
MAY	0R	1R	12R	13R	14R	15R	16R	17R	18R	19R
JUNE	0S	1S	12S	13S	14S	15S	16S	17S	18S	19S
JULY	0T	1T	12T	13T	14T	15T	16T	17T	18T	19T
AUGUST	0U	1U	12U	13U	14U	15U	16U	17U	18U	19U
SEPTEMBER	0V	1V	12V	13V	14V	15V	16V	17V	18V	19V
OCTOBER	0Z	1Z	12Z	13Z	14Z	15Z	16Z	17Z	18Z	19Z
NOVEMBER	0X	1X	12X	13X	14X	15X	16X	17X	18X	19X
DICEMBER	0Y	1Y	12Y	13Y	14Y	15Y	16Y	17Y	18Y	19Y

USE OF THE VALVES

OLEOWEB valves are destined from *OLEOWEB* to manufacturers of hydraulic power equipment.
Given the wide application of hydraulic valves and given the fact that it's not always possible to know the final destination of the product, this manual has been produced only on the basis of know generic application.

LIMITATIONS OF USE

OLEOWEB SRL warns each user/customer or manufacturer not to employ valves in the following applications:
- environments where there is danger of explosion and fire;
- vehicles and aeronautical or space equipment;
- steering systems and equipment for vehicles due to carry person, things and animals;
- brake systems, blocking and deadlock in general;
- Equipment and installation of application in the military, nuclear, medical and hospital department

HOWEVER, THE TECHNICAL DEPARTMENT IN OLEOWEB SRL, AFTER REQUEST OF THE USER, MAY EVALUATE CASE-BY-CASE APPLICATIONS AND GIVE IT'S AUTHORIZATION.

MECHANICAL SPECIFICATIONS

- Do not tamper with any type of valve: a simple loosing of valve could cause the free fall of loads or failure of structures.
- All operations of installation, assembly, maintenance and removal of valves and components applied to it must be executed with the utmost respect of safety standars. During these operations, within the hydraulic circuit there must never be pressure (pressure zero) and there should not be any type of cargo on the structures of the equipment or the machinery to which the valve is applied (load zero).

ELECTRICAL SPECIFICATION

- All electrical connections and disconnections must be carried out by skilled and competent staff.
- Before making any action or intervention on the valve, this must be disconnected from its power source.

SECURITY SPECIFICATION

- Use safety protection;
- Work under very clean conditions;
- Work under maximum security conditions;
- Use tools and service desks always in suitable and clean conditions;
- During the start-up operations, normal work, maintenance, adjustment, leaking, intervention and drive of valves and various elements of control, SUDDEN SPILLS AND LEAKS OF HYDRAULIC FLUID MAY OCCUR, WHICH CAN REACH TEMPERATURES SUCH AS TO CAUSE BURNS TO THE SKIN.

Hydraulic fluid may be dangerous to health as in contact with skin and eyes and can cause serious damage.Follow scrupulously the protection and security provisions imposed by the manufacturer of the hydraulic fluid listed on the technical and toxicological schedule of the product. Hydraulic fluid may be a pollutant product. It's good practice therefore to avoid loss of hydraulic fluid using tanks to collect and protect against accidental spills and leakage of hydraulic fluid using also oil-absorbing products. Quick changes in temperature may affect both the characteristics and the duration of the product, so it is essential to protect it from these situations.

MOUNTING

A fitting and proper installation are essential factors for the smooth functioning of an hydraulic plant. Dust and dirt are the worst enemies of hydraulic.
During installation you have to concentrate on the utmost clean by conducting the main operations in a clean and non-dusty room. Valves must be mounted in such a way as to allow easy access to controls, inspections, maintenance and repair, it is also equally essential that they are mounted in an accidental bumps protected area and repaired by random physical contact, as the temperature reached during the operation can cause burns.

HANDLING

Hydraulic valves are products to handle with care and attention. Characteristic of those valve is to have protuberances subject to breakage.

STORAGE

Hydraulic valves must be stored in a protected place, possibly closed, away from dust, dirt, humidity and bad weather conditions, with a minimum temperature of -15°C and not exceeding +50°C. In addition, valves are provided with protective plastic caps into their holes routes to avoid the loss of hydraulic fluid left in the valve after testing and not allow access to foreign bodies, which could be very dangerous for the smooth functioning and for the duration of the valve. It is therefore essential not remove these caps if not before mounting the valve.

DISPOSAL OF THE VALVES

Hydraulic valves are constructed primarily of aluminum alloy, steel alloy and plastic; therefore they can be disposed of as normal materials sending them for recycling with the only advice to make a complete emptying of the hydraulic fluid they may contain.

DISPOSAL OF THE HYDRAULIC FLUID

Hydraulic fluids are subject to special disposal requirements: therefore comply with the directions and instructions of producers and abide by the laws in force in the country of use.

DO NOT THROW THE REPLACED FLUID IN THE ENVIROMENT

MAINTENANCE

The good installation and care during installation and putting into operation ensures a long duration of the oilhydraulic plant without drawbacks or need of special care maintenance. The principle basic is the need to frenquently monitor the quality and status of the fluid that transmits power and ensure that there are no impurities in the circuit: the good condition of the fluid is reported the reliability of any oilhydraulic machine. Indeed, among the leading causes of out of service or fault, you can report the equipment block as a result of seizing or braking due to wear and aging of the fluid that transmits power, with consequent loss of its chemical and physical properties. It's now certain that the main cause of all these drawbacks is due to the presence of hosts and microparticles circulating continuously in the fluid and which constitute grounds for wear. A large quantity of these microparticles, if left circulating in the system, acts as an abrasive mixture scraping the surfaces with which it comes into contact and dragging in cycle further contaminant particles; damage are, of course, the more severe the more sophisticated the installed equipment is.
From the putting in motion of the installation, maintenance is basically made of small operations that, to be truly effective, must be carried out with regularity. It is therefore extremely important that these operations of control and verification are planned and reported on sheets of machinery or plant.

EXTERIOR CLEANING

It allows easy location of any losses and therefore immediate intervention.

CONTINUOUS MONITORING OF THE TEMPERATURE

Alteration of the fluid because of the temperature is a cause of pollution and degradation of the plant. The creation of particles inside the oil is particularly favoured by the heat: the rate of oxidation can be considered almost constant up to 60°C, doubling starting from this point to each increment of 10°C. The presence of sludge and sediment in the oil, because of a roiled appearance, reports it's degradation.

REPLACEMENT OF THE FLUID

Ensure over time better working conditions, with frequent monitoring of the fluid and its periodic replacement. On average, after the first 100 hours of work, then every 2000 hours or once a year. For each exchange replace also the filters and clean the tank. Before running the exchange of hydraulic fluid, completely clear the plant from it.

GUARANTEE

GUARANTEE TERMS

The products we manufacture are guaranteed against possible failures due to manufacturing defects or materials used. The duration of the guarantee will be 12 months after the shipment from our premises. Any intervention of revision within the guarantee period must be carried out by Technical Assistance authorized by us, or at our establishment where products must be sent in free port with appropriate packaging. It will be considered lapsed in case of inproper use, tampering, amendment and/or repair carried out by non authorized staff.

TECHNICAL ASSISTANCE AFTER GUARANTEE PERIOD

OLEOWEB SRL is available for repairs of their products even when the period of guarantee has already run out.
OLEOWEB SRL will carry out the repair also after several years of use (provided it is still cost convenient). The availability of spare parts made on OLEOWEB drawing is guaranteed up to 5 years by ceased production.
The cost of repair of our no longer under warranty products is normally calculated on the actual cost.
Any price request must be made expressly on delivery of the goods that have to be repaired. If the estimate will not be accepted, we will be anyway charging the costs we incurred for its formulation.

Every product sent back for the revision must be accompanied by:
1. Law Regular and complete transport document.
2. Defect identifying letter and reference of a Technical Manager for any clarifications.

Oleoweb

HYDRAULIC VALVES AND COMPONENTS

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