

POMPE A PISTONI AD ASSE INCLINATO BENT AXIS PISTON PUMPS

CODICE FAMIGLIA
FAMILY CODE

601001

"HDS"

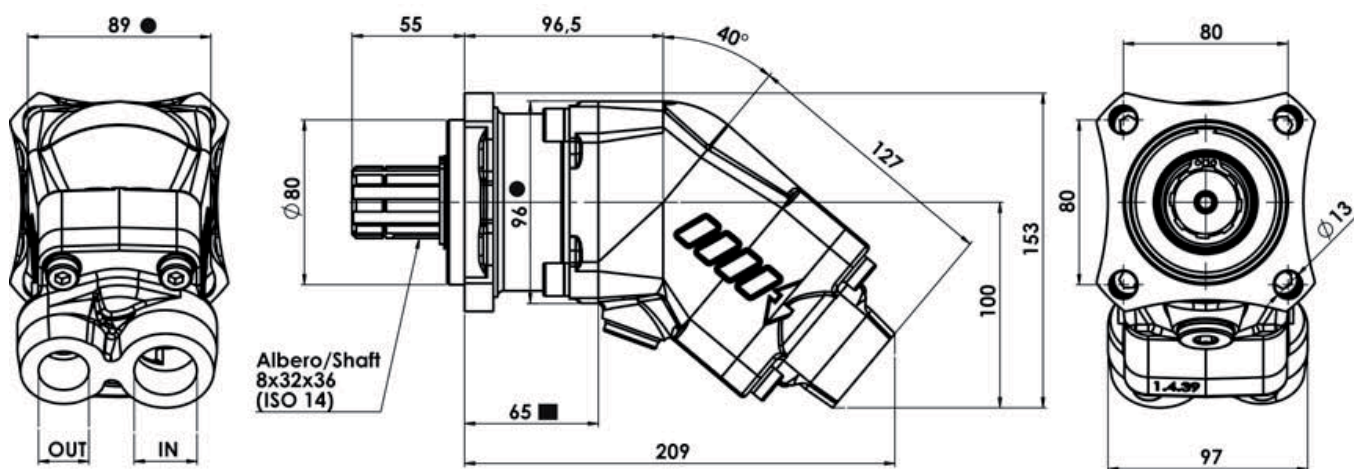
Flangia/Flange
Albero/Shaft
Cilin./Displ.

ISO
ISO 14 8x32x36
12-17-25-34



Fluido idraulico Fluid	Minerale o sintetico compatibile con guarnizioni: Mineral or synthetic compatible with the following seals: FKM, FPM, HNBR				
Viscosità cinematica consigliata Kinematic viscosity suggested	T media ambiente (°C) Average ambient temp. (°C)	< -40	-40÷10	10÷35	> 35
	VG (cSt = mm²/s)	16	22	32	46
Viscosità cinematica ottimale di esercizio Optimale kinematic viscosity			VG= 10 cSt ÷ 100 cSt		
Viscosità cinematica max consentita all'avviamento Max kinematic viscosity suggested at the start-up			VG= 750 cSt		
Indice di viscosità consigliato Viscosity index suggested		VI > 100	Temperatura di esercizio Working temperature		
			-40°C ÷ 140°C		
Grado di filtrazione Oil filtering			> 200 bar: 10 µm < 200 bar: 25 µm		
Pres. di aspirazione Inlet pressure			0,85 ÷ 2 bar assoluti/absolut		
Senso di rotazione Pump rotation			Unidirezionale (Dx o Sx) Unidirectional (Right or Left)		
Verificare che la pompa sia posizionata almeno 100 mm sotto il livello minimo del serbatoio olio. Prima di avviare la pompa effettuare spurgo aria. Verify that pump is, at least, 100 mm under the minimum level of the tank. Before starting the pump bleed the air.					

Dimensions in mm



● Larghezza minima corpo a quota indicata ■
Minimum bodywidth at indicated measurement

Tipo pompa Pump type	Rotazione Rotation		IN	OUT	IN	OUT
	Destra Right	Sinistra Left				
			ISO 228	ISO 228	SAE	SAE
HDS-12	60100110123	60100110129	G 1	G 3/4		
HDS-17	60100110173	60100110179	G 1	G 3/4		
HDS-25	60100110253	60100110259	G 1	G 3/4		
HDS-34	60100110343	60100110349	G 1	G 3/4		

pag.27

OMFB

HYDRAULIC COMPONENTS

O.M.F.B. S.p.A. Hydraulic Components

We reserve the right to make any changes without notice.

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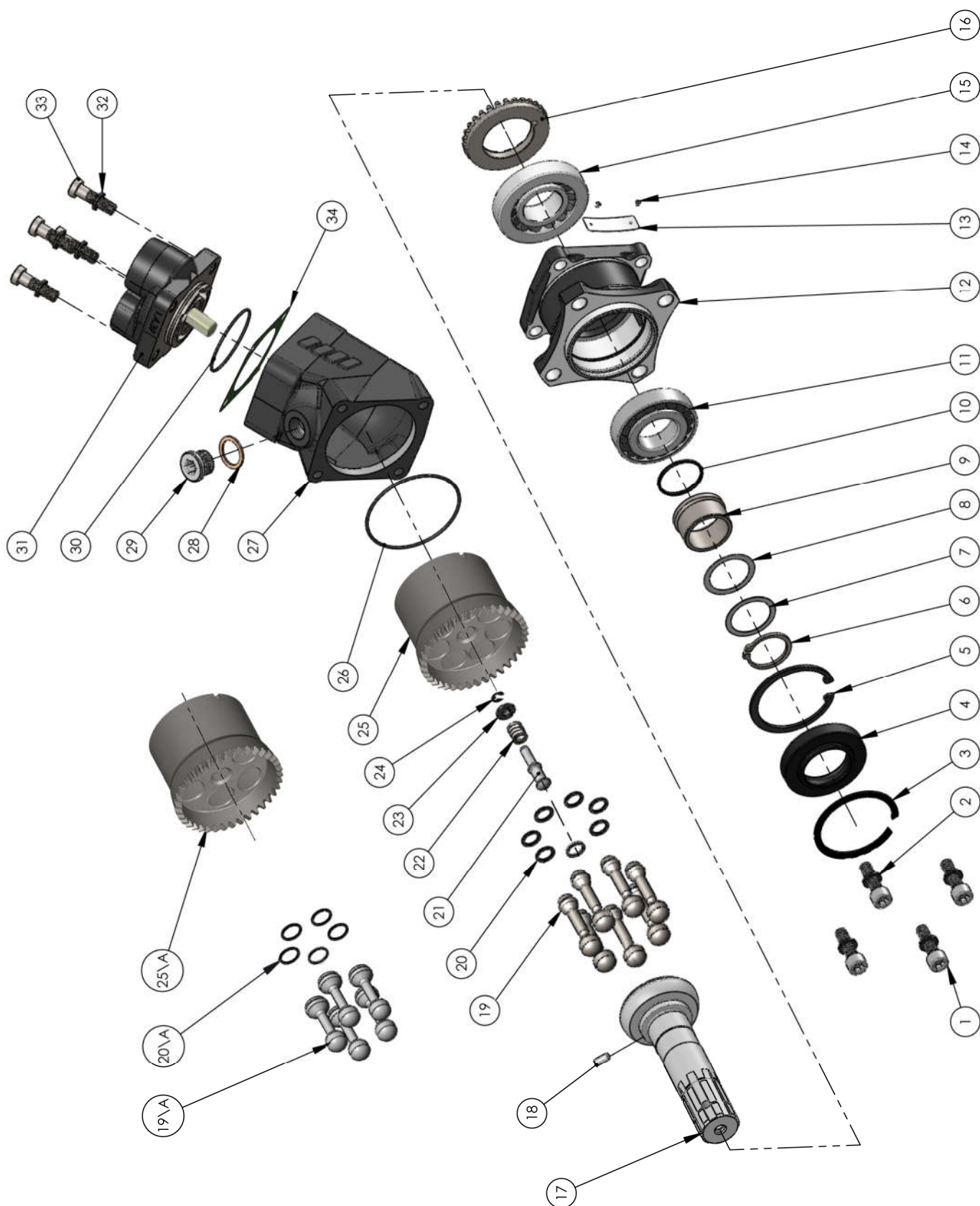
Via Cave, 7/9 25050 Provaglio d'Iseo (Brescia) Italy Tel.: +39.030.9830611
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**COMPANY WITH
QUALITY SYSTEM
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= IATF 16949 =**

99740060010

30/03/2016

99760101510 Rev: //



99740060010

30/03/2016

99760101510 Rev: //

99740060010

30/03/2016

99760101510 Rev: //

N°	HDS 12 GAS	HDS 17 GAS	HDS 25 GAS	HDS 34 GAS	Codice P. Number	Descrizione Description	Q.tà Q.ty
1	•	•	•	•	50200400565	Vite TCE M 10x35	4
2	•	•	•	•	50100800054	Rosetta elastica	4
3	•	•	•	•	50100002729	Anello elastico	1
4	•	•	•	•	50600024272	Paraolio	1
5	•	•	•	•	50100100677	Anello elastico	1
6	•	•	•	•	50100001355	Anello seeger rinforzato	1
7	•	•	•	•	52900701127	Rondella	2
8	•	•	•	•	52900700226	Rondella	2
9	•	•	•	•	51100200200	Bussola	1
10	•	•	•	•	50600013137	Guarnizione OR	1
11	•	•	•	•	51000200211	Cuscinetto a rulli conici	1
12	•	•	•	•	51700201154	Corpo anteriore	1
13	•	•	•	•	513	Targhetta completa	1
14	•	•	•	•	51300000011	Chiodino fiss. targhetta	2
15	•	•	•	•	51000200373	Cuscinetto a rulli conici	1
16	•	•	•	•	52501100264	Corona dentata	1
17	•	•	•	•	52200500357	Albero	1
18	•	•	•	•	52200500268	Spina UNI 6364	1
19	•	•	•	•	53200500061	Pistone sferico	7
19A	•	•	•	•	53200500052	Fasce elastiche	5
20	•	•	•	•	50102300064	Perno sferico con guida albero	21
20A	•	•	•	•	50102300073	Molla di carico corpo cilindri	15
21	•	•	•	•	54200100313	Anello guida molla	1
22	•	•	•	•	54200100162	Anello seeger	1
23	•	•	•	•	51200501651	Gruppo corpo cilindri	1
24	•	•	•	•	51200500812	sede pistoni	1
25	•	•	•	•	54200100322	Guarnizione OR	1
25A	•	•	•	•	50101500046	Corpo intermedio	1
26	•	•	•	•	50101500028	Rondella rame	1
27	•	•	•	•	50002916034	Tappo cieco	1
28	•	•	•	•	50002916025	Guarnizione OR	1
29	•	•	•	•	50002916017	Gruppo corpo posteriore	1
30	•	•	•	•	50002916012	Rosetta elastica	1
31	•	•	•	•	50600018020	Vite TCE M10x30	1
32	•	•	•	•	51700200717	Guarnizione piattina	4
33	•	•	•	•	11600910129	Washer	4
34	A	A	A	A	11500600135	Socket head capscrew	1
	A	A	A	A	50600012224	Gasket	1

A = alternative

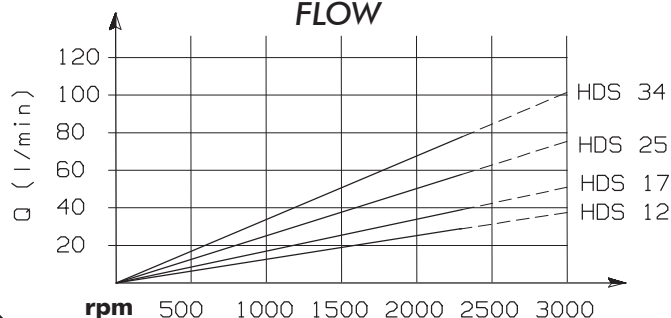
CARATTERISTICHE TECNICHE DI FUNZIONAMENTO / TECHNICAL FEATURES

Tipo pompa Pump type	Cilindrata Displacement cm ³ /rev	Pressione Pressure		Velocità / Speed			Velocità min. Min. speed rpm	Peso Weight kg
		P1 bar	P3 bar	V0 rpm	V1 rpm	V2 rpm		
HDS-12	12.62	350	400	3000	2300	3000	300	8.8
HDS-17	16.98							8.6
HDS-25	25.12							8,8
HDS-34	33.80							8,6

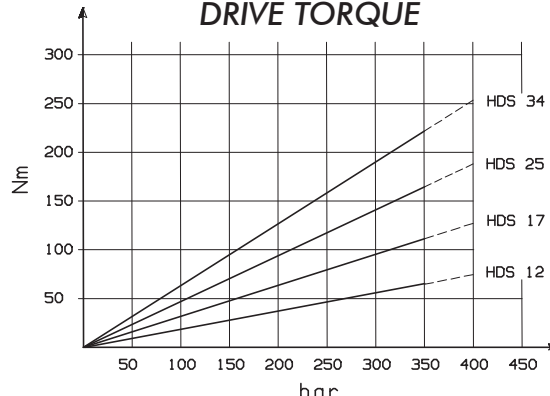
P1=Pressione massima continua Max. continuous pressure (100%)
P3=Pressione massima di punta Max. peak pressure (6 sec.max)

V0=Massima continua vuoto Max. continuous speed without load
V1=Massima continua Max. continuous speed
V2=Massima intermittente Max. intermittent speed

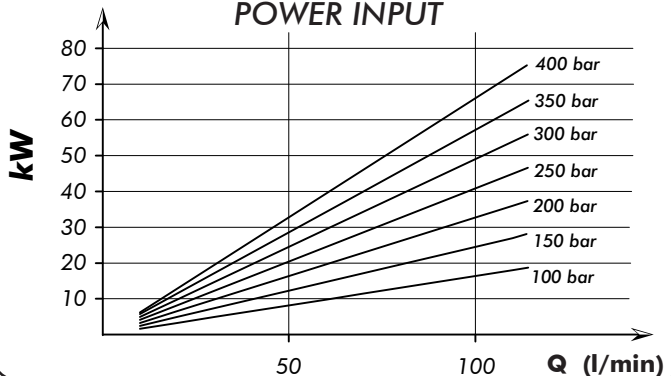
PORTATA FLOW



COPPIA ASSORBITA DRIVE TORQUE



POTENZA ASSORBITA POWER INPUT



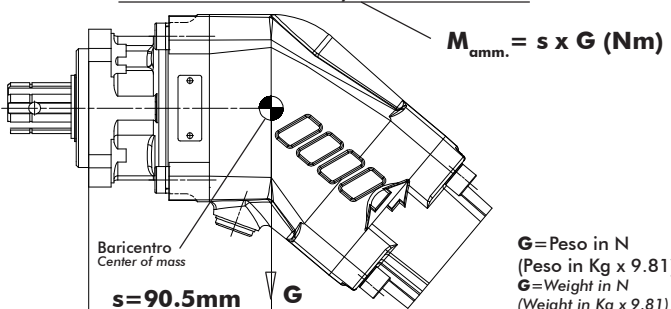
SCELTA DEL TUBO DI ASPIRAZIONE HOW TO CHOOSE THE SUCTION PIPE SIZE

Q Portata Flow l/min	Ø interno min. tubo Min pipe diam. mm	inch	Velocità flusso Flow speed (m/s)
20	25	1"	0,68
30	32	1" 1/4	0,62
40	32		0,83
50	38	1" 1/2	0,74
60	38		0,88
70	40	1" 9/16	0,93
80	45	1" 3/4	0,84
90	45		0,94
100	50	2"	0,85
110	50		0,93
120	60	2" 3/8	0,71
130	60		0,77
140	60		0,83
150	60		0,88
160	63	2" 1/2	0,86
170	63		0,91
180	63		0,96

Per garantire corrette condizioni di aspirazione la velocità del flusso non deve superare 1 m/sec.
To ensure the proper suction pipe size the flow speed should not exceed 1mt/sec.



MOMENTO PESO / MASS MOMENT



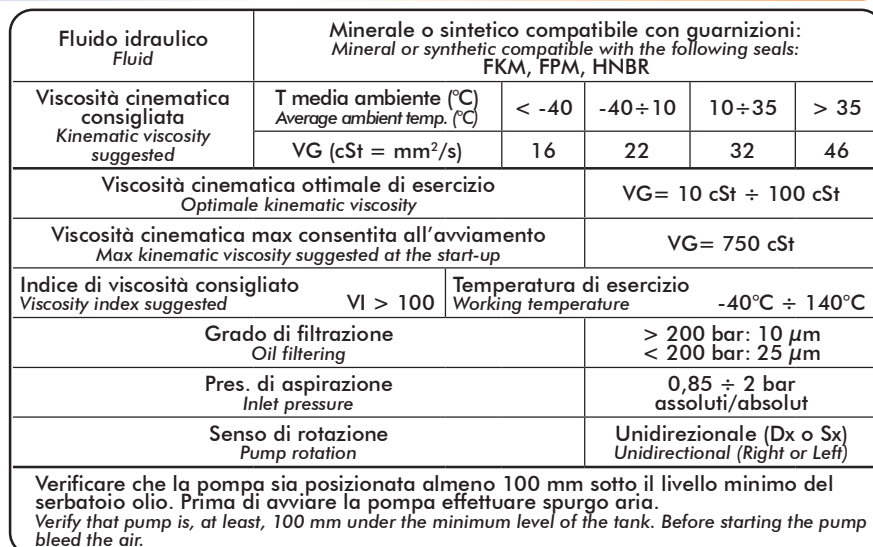
Kit guarnizioni / Seal Kit
10890325340

601001
603001

ISO

ISO14 8x32x36

40-47-55-64-80



Verificare che la pompa sia posizionata almeno 100 mm sotto il livello minimo del serbatoio olio. Prima di avviare la pompa effettuare spurgo aria.
Verify that pump is, at least, 100 mm under the minimum level of the tank. Before starting the pump bleed the air.

Technical drawing of the 1000 series hydraulic pump, showing four views with dimensions in mm.

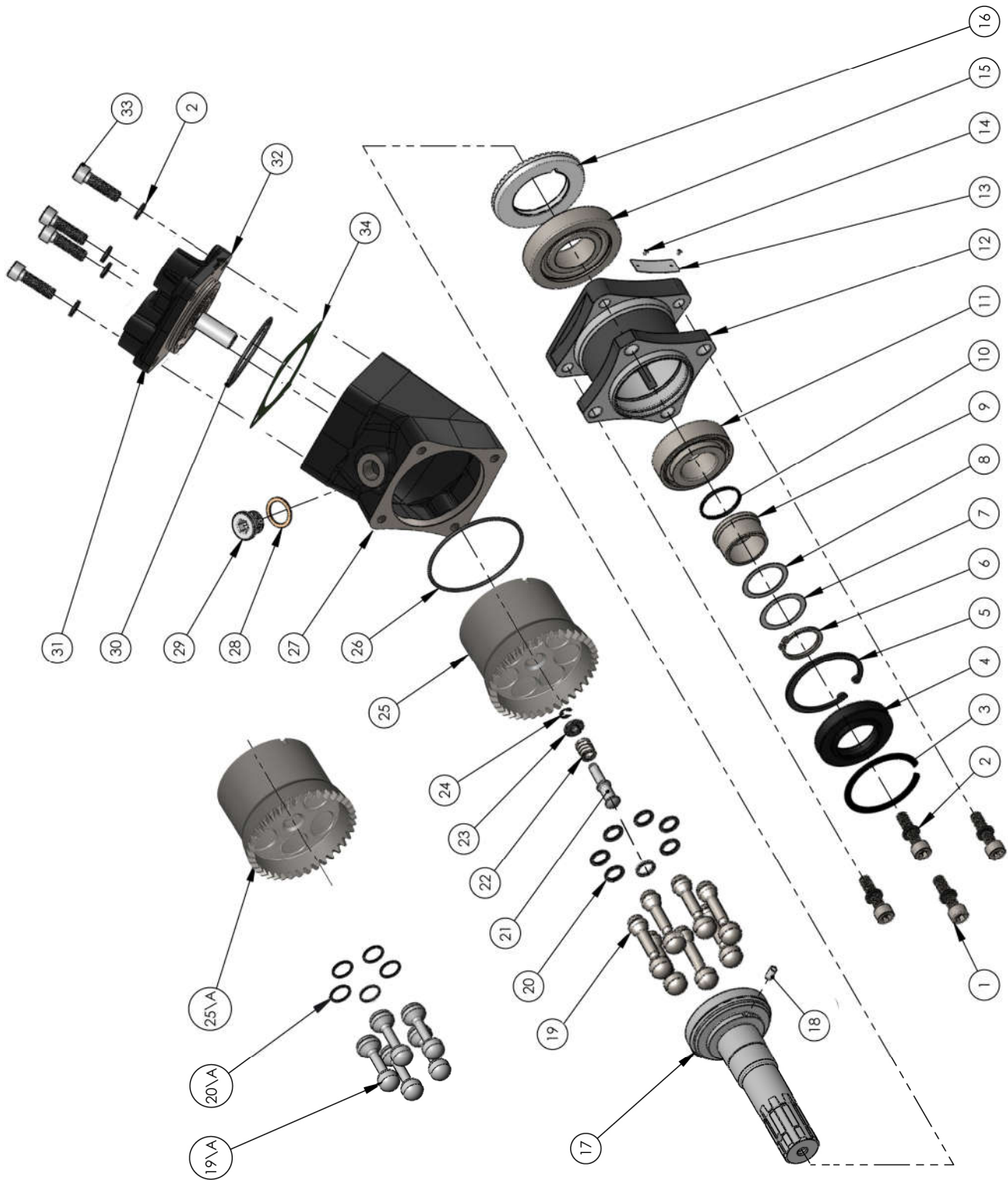
Front View: Overall width 106.5, height 80. Ports labeled IN and OUT. Internal label 1000.

Side View: Overall width 236.5, height 167. Dimensions include 55, 113, 80, 8.5, 78.5, 112, and a 40° angle. Label: Albero/Shaft 8x32x36 (ISO 14).

Isometric View: Dimensions include 127, 14.43, and 112.

Top View: Overall width 116, height 99. Dimensions include 80, 63, and 80. Label: 1000.

Tipo pompa Pump type	Rotazione Rotation		IN ISO 228	OUT ISO 228
	Destra Right	Sinistra Left		
HDS-40	60100110403	60100110409	G 1 1/4"	G 3/4"
HDS-47	60100110473	60100110479		
HDS-55	60100110553	60100110559		
HDS-64	60100110643	60100110649		
MDS-80	60300110803	60300110809		
			ISO 725	ISO 725
HDS-40	60100150403	60100150409	1 5/8-12 UN-2B SAE 20	1 1/16-12 UN-2B SAE 12
HDS-47	60100150473	60100150479		
HDS-55	60100150553	60100150559		
HDS-64	60100150643	60100150649		
MDS-80	60300150803	60300150809		



99740060010

07/03/2017

99760101515 Rev: AA

N°	HDS 40	HDS 47	HDS 55	HDS 64	MDS 80	Codice	Descrizione	Q.tà
	GAS	SAE	GAS	SAE	GAS	P. Number	Description	Q.ty
1	•	•	•	•	•	50200400574	Vite TCE M 10x40 UNI 5931	4
2	•	•	•	•	•	50100800054	Rosetta elastica x M10 DIN 7980	4
3	•	•	•	•	•	50100002729	Anello elastico E-SB 72x2	1
4	•	•	•	•	•	50600024272	Paraolio HNBR	1
5	•	•	•	•	•	50100100677	Anello elastico Ø72.1	1
6	•	•	•	•	•	50100001355	Anello seeger rinforzato AS UNI 7436	1
7	•	•	•	•	•	52900701127	Rondella 44x35x0.2	1
8	•	•	•	•	•	52900700226	Rondella 44x35x0.1	1
9	•	•	•	•	•	51100200200	Bussola	1
10	•	•	•	•	•	50600013137	Guarnizione OR 3137 HNBR	1
11	•	•	•	•	•	51000200220	Cuscinetto a rulli conici	1
12	•	•	•	•	•	51700201163	Corpo anteriore	1
13	•	•	•	•	•	513	Targhetta completa	1
14	•	•	•	•	•	51300000011	Chiodino fissaggio targhetta	2
15	•	•	•	•	•	51000200275	Cuscinetto a rulli conici	1
16	•	•	•	•	•	52501100255	Corona dentata	1
17	•	•	•	•	•	52200500231	Albero	1
18	•	•	•	•	•	52200500204	Spina UNI 6364-A Ø6x14	1
19	•	•	•	•	•	53200500285	Pistone sferico	7
19a	•	•	•	•	•	53200500025	Fasce elastiche	5
20	•	•	•	•	•	53200500114	Spring rings	21
20a	•	•	•	•	•	53200500016	Shaft guide pin	15
21	•	•	•	•	•	54200100162	Spring	1
22	•	•	•	•	•	51200500812	Spring guide ring	1
23	•	•	•	•	•	54200100171	Retaining ring RS 6 DIN 6799	1
24	•	•	•	•	•	50101500028	Piston barrel assembly	1
25	•	•	•	•	•	50002916040	Guarnizione OR 3350 HNBR	1
25a	•	•	•	•	•	50002916055	Interm. housing	1
26	•	•	•	•	•	50002916064	Washer 1/2"	1
27	•	•	•	•	•	50002916080	Blank plug 1/2" DIN 908	1
28	•	•	•	•	•	51700201421	O-ring OR 3275 HNBR	1
29	•	•	•	•	•	11600910129	Rear cover assembly	1
30	•	•	•	•	•	11500600135	Groupo corpo posteriore	1
31	•	•	•	•	•	50600013275	Rosetta elastica x M10 DIN 7980	4
32	•	•	•	•	•	50002990400	Vite TCE M10x35 UNI 5931	4
33	•	•	•	•	•	50002990419	Guarnizione piastra	1
34	•	•	•	•	•	50002990473	Gasket	1

A = alternative

CARATTERISTICHE TECNICHE DI FUNZIONAMENTO / TECHNICAL FEATURES

Tipo pompa Pump type	Cilindrata Displacement cm ³ /rev	Pressione Pressure		Velocità / Speed			Velocità min. Min. speed rpm	Peso Weight kg
		P1 bar	P3 bar	V0 rpm	V1 rpm	V2 rpm		
HDS-40	41.25	350	400	2700	1900	2500	300	12,3
HDS-47	47.13							
HDS-55	56.70							
HDS-64	63.56							
MDS-80	77.25	250	300	2300	1800	2100		12

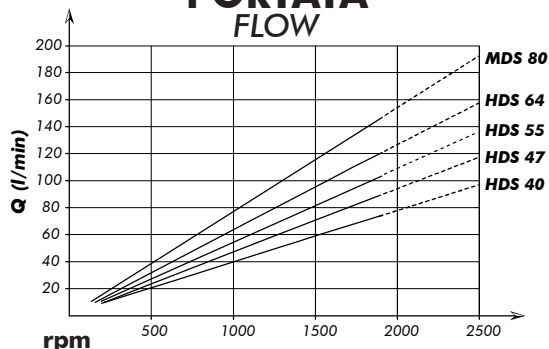
P1=Pressione max.continua
P3=Pressione max. di punta

Max. continuous pressure (100%)
Max. peak pressure (6 sec.max)

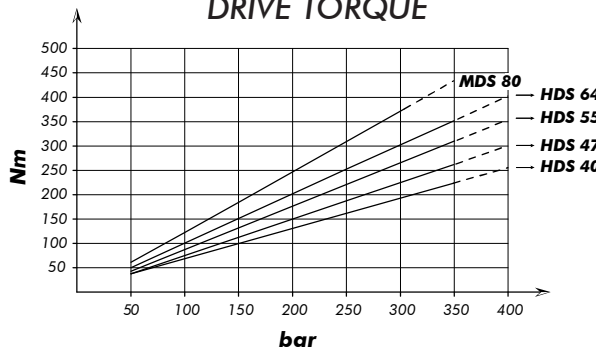
V0=Max. continua vuoto
V1=Max. continua
V2=Max. intermittente

Max. continuous speed without load
Max. continuous speed
Max. intermittent speed

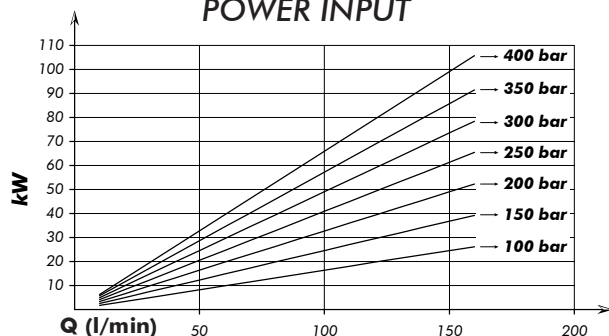
PORTATA FLOW



COPPIA ASSORBITA DRIVE TORQUE



POTENZA ASSORBITA POWER INPUT

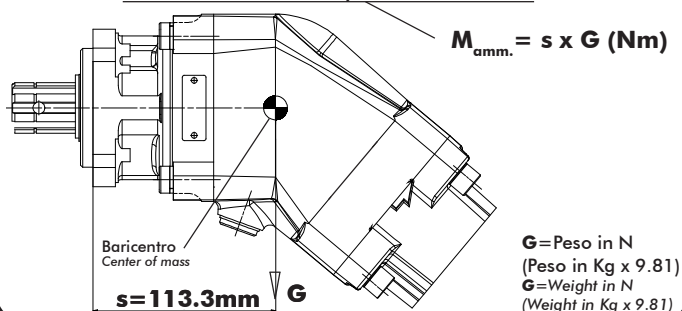


Pompa sinistra
Left pump



Pompa destra
Right pump

MOMENTO PESO / MASS MOMENT



SCELTA DEL TUBO DI ASPIRAZIONE HOW TO CHOOSE THE SUCTION PIPE SIZE

Q Portata Flow l/min	Ø interno min. tubo Min pipe diam. mm inch		Velocità flusso Flow speed (m/s)
20	25	1"	0,68
30	32	1" 1/4	0,62
40	32		0,83
50	38	1" 1/2	0,74
60	38		0,88
70	40	1" 9/16	0,93
80	45	1" 3/4	0,84
90	45		0,94
100	50	2"	0,85
110	50		0,93
120	60	2" 3/8	0,71
130	60		0,77
140	60		0,83
150	60		0,88
160	63	2" 1/2	0,86
170	63		0,91
180	63		0,96

Per garantire corrette condizioni di aspirazione la velocità del flusso non deve superare 1 m/sec.

To ensure the proper suction pipe size the flow speed should not exceed 1m/sec.

Kit guarnizioni / Seal Kit
10890347648



Flangia/Flange

Albero/Shaft

Cilindrata/Displacement

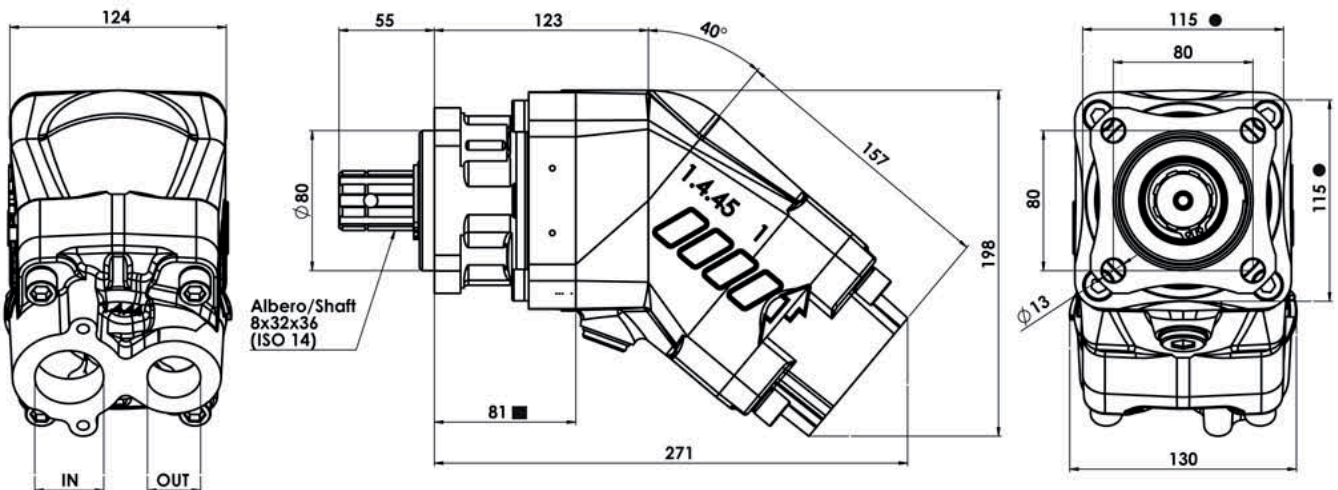
ISO

ISO14 8x32x36

84-96-108-120-130

Fluido idraulico Fluid	Minerale o sintetico compatibile con guarnizioni: Mineral or synthetic compatible with the following seals: FKM, FPM, HNBR				
Viscosità cinematica consigliata Kinematic viscosity suggested	T media ambiente (°C) Average ambient temp. (°C)	< -40	-40÷10	10÷35	> 35
	VG (cSt = mm²/s)	16	22	32	46
Viscosità cinematica ottimale di esercizio Optimale kinematic viscosity			VG= 10 cSt ÷ 100 cSt		
Viscosità cinematica max consentita all'avviamento Max kinematic viscosity suggested at the start-up			VG= 750 cSt		
Indice di viscosità consigliato Viscosity index suggested	VI > 100	Temperatura di esercizio Working temperature -40°C +140°C			
Grado di filtrazione Oil filtering			> 200 bar: 10 µm < 200 bar: 25 µm		
Pressione di aspirazione Inlet pressure			0,85 ÷ 2 bar assoluti/absolut		
Senso di rotazione Pump rotation			Unidirezionale (Dx o Sx) Unidirectional (Right or Left)		
Verificare che la pompa sia posizionata almeno 100 mm sotto il livello minimo del serba- toio olio. Prima di avviare la pompa effettuare spurgo aria. Verify that pump is, at least, 100 mm under the minimum level of the tank. Before starting the pump bleed the air.					

Ingombro / Dimensions

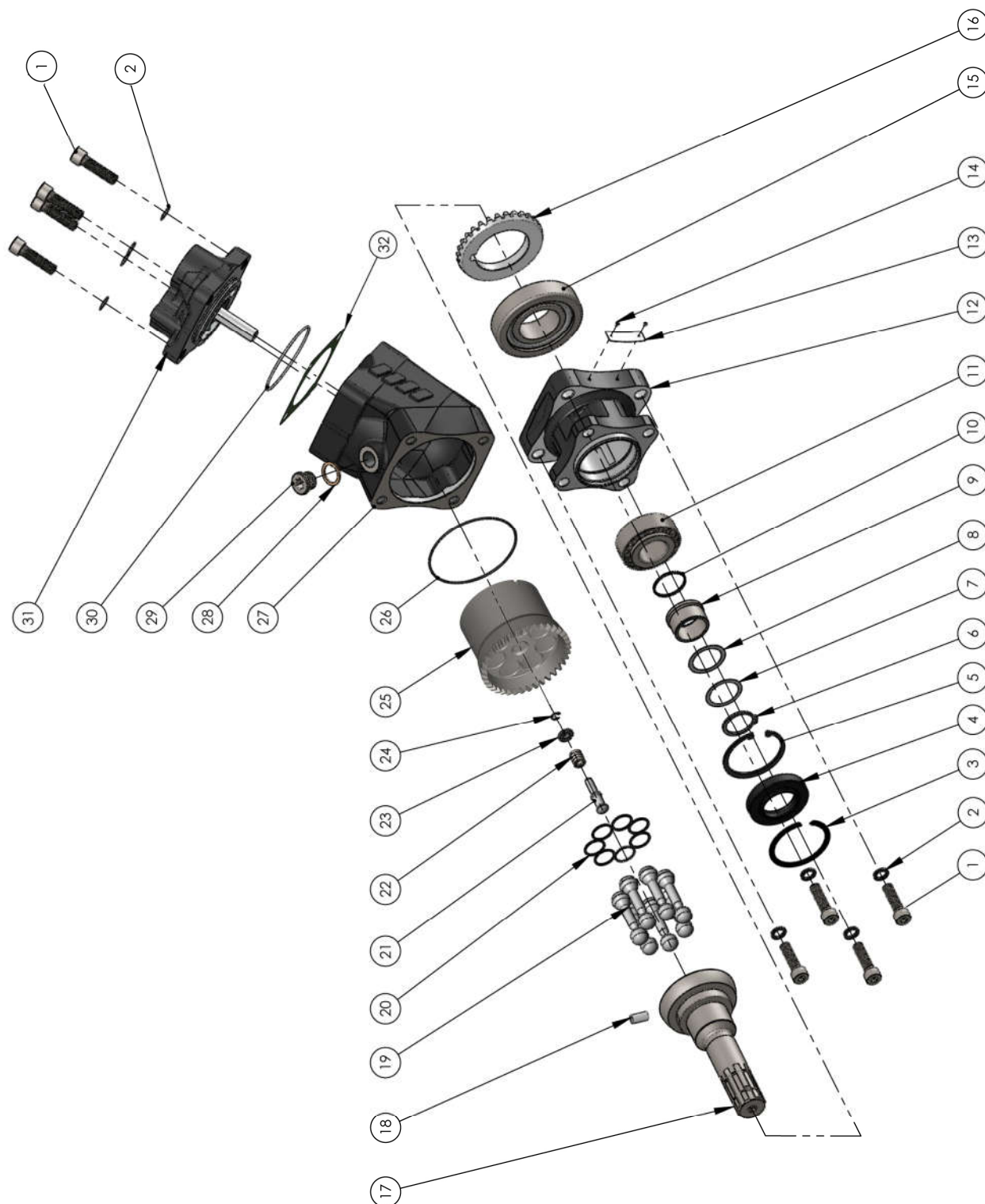


● Larghezza minima corpo a quota indicata
Minimum body width at indicated measurement

Dimensioni in mm
Dimensions in mm

Dati tecnici / Technical data

Tipo pompa <i>Pump type</i>	Rotazione / <i>Rotation</i>		IN	OUT	Peso <i>Weight</i>
	<i>Destra / Right</i>	<i>Sinistra / Left</i>			
HDS-84	60100110843	60100110849	G 1 1/4"	G 1"	19.2
HDS-96	60100110963	60100110969			19
HDS-108	60100111083	60100111089	G 1 1/2"		18.6
HDS-130	60100111303	60100111309			18.3
MDS-120	60300111203	60300111209			18.4
MDS-130	60300111303	60300111309			18.7
			ISO 725	ISO 725	
HDS-84	60100150843	60100150849	1 7/8-12 UN-2B SAE 24	1 5/16-12 UN-2B SAE 16	19.2
HDS-96	60100150963	60100150969			19
HDS-108	60100151083	60100151089			18.6
HDS-130	60100151303	60100151309			18.3
MDS-120	60300151203	60300151209			18.4
MDS-130	60300151303	60300151309			18.7



N°	HDS 84		HDS 96		HDS 108		HDS 130		MDS 120		MDS 130		Codice/Code	Descrizione / Description	Q.
	GAS	SAE	GAS	SAE	GAS	SAE	GAS	SAE	GAS	SAE	GAS	SAE			
1	.	.	.	.	.	.	.	.	.	.	.	.	50200500573	Vite TCE M12x45	8
2	.	.	.	.	.	.	.	.	.	.	.	.	50102000129	Washer	8
3	.	.	.	.	.	.	.	.	.	.	.	.	50100002729	Circlip	1
4	.	.	.	.	.	.	.	.	.	.	.	.	50600024272	Oil seal	1
5	.	.	.	.	.	.	.	.	.	.	.	.	50100100677	Circlip	1
6	.	.	.	.	.	.	.	.	.	.	.	.	50100001355	Retaining ring	1
7	.	.	.	.	.	.	.	.	.	.	.	.	52900701127	Spacers	2
8	.	.	.	.	.	.	.	.	.	.	.	.	52900700226	Spacers	2
9	.	.	.	.	.	.	.	.	.	.	.	.	51100200200	Bushing	1
10	.	.	.	.	.	.	.	.	.	.	.	.	50600013137	O-ring	1
11	.	.	.	.	.	.	.	.	.	.	.	.	51000200364	Tapered roller bearing	1
12	.	.	.	.	.	.	.	.	.	.	.	.	51700201172	Front housing	1
13	.	.	.	.	.	.	.	.	.	.	.	.	513	Plate	1
14	.	.	.	.	.	.	.	.	.	.	.	.	51300000011	Plate nail	2
15	.	.	.	.	.	.	.	.	.	.	.	.	51000200355	Tapered roller bearing	1
16	.	.	.	.	.	.	.	.	.	.	.	.	51000200357	Crown	1
17	.	.	.	.	.	.	.	.	.	.	.	.	52501100273	Shaft	1
18	.	.	.	.	.	.	.	.	.	.	.	.	52200500955	Pin UNI 6364	1
19	.	.	.	.	.	.	.	.	.	.	.	.	53200500034	Piston	7
20	.	.	.	.	.	.	.	.	.	.	.	.	53200500276		
21	.	.	.	.	.	.	.	.	.	.	.	.	53200500070		
22	.	.	.	.	.	.	.	.	.	.	.	.	53200500105		
23	.	.	.	.	.	.	.	.	.	.	.	.	50102300037		
24	.	.	.	.	.	.	.	.	.	.	.	.	50102300091		
25	.	.	.	.	.	.	.	.	.	.	.	.	50102300055		
26	.	.	.	.	.	.	.	.	.	.	.	.	50102300117		
27	.	.	.	.	.	.	.	.	.	.	.	.	54200100162		
28	.	.	.	.	.	.	.	.	.	.	.	.	51200500812		
29	.	.	.	.	.	.	.	.	.	.	.	.	54200100171		
30	.	.	.	.	.	.	.	.	.	.	.	.	50101500028		
31	.	.	.	.	.	.	.	.	.	.	.	.	50002916084		
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A = alternative

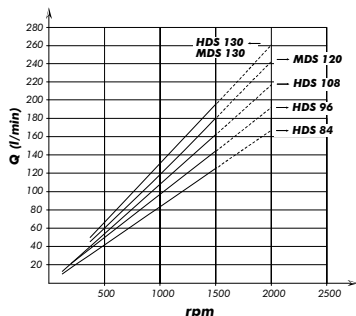
Caratteristiche tecniche di funzionamento / Technical features

Tipo pompa Pump type	Cilindrata Displacement cm ³ /rev	Pressione Pressure P1 P3 bar bar		Velocità / Speed V0 V1 V2 rpm rpm rpm			Velocità min. Min. speed rpm
HDS-84	84,33	350	400	2300	1500	2000	300
HDS-96	95,5				1500		
HDS-108	107				1500		
HDS-130	131,62				1750		
MDS-120	122,1	260	280	1500			
MDS-130	131,62	250	270	1500			

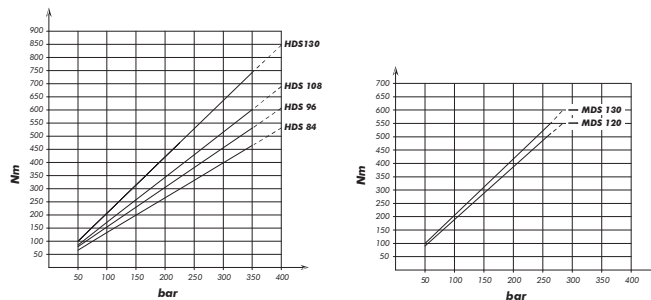
P1=Pressione massima continua Max. continuous pressure (100%)
P3=Pressione massima di punta Max. peak pressure (6 sec.max)

V0=Massima continua vuoto Max. continuous speed without load
V1=Massima continua Max. continuous speed
V2=Massima intermittente Max. intermittent speed

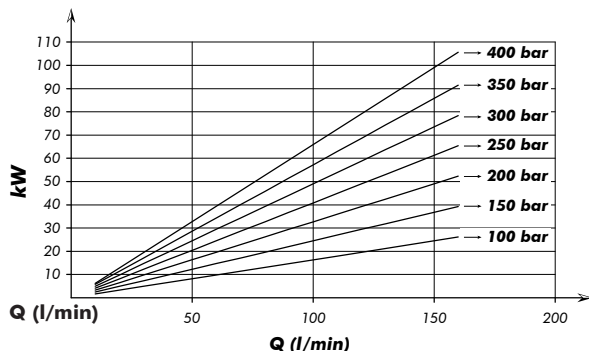
Portata / Flow



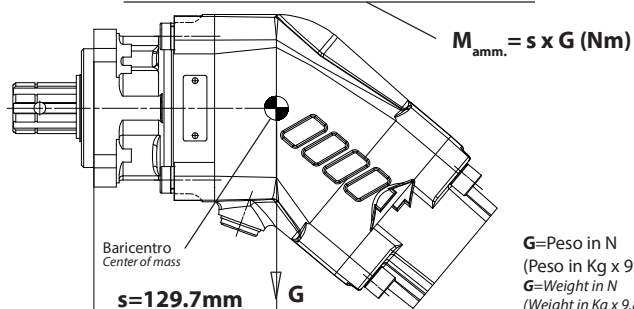
Coppia assorbita / Drive torque



Potenza assorbita / Power input



MOMENTO PESO / MASS MOMENT



G=Peso in N
(Peso in Kg x 9,81)
G=Weight in N
(Weight in Kg x 9,81)

SCELTA DEL TUBO DI ASPIRAZIONE

HOW TO CHOOSE THE SUCTION PIPE SIZE

Q Portata Flow l/min	Ø interno min. tubo Min pipe diam. mm inch		Velocità flusso Flow speed (m/s)
20	25	1"	0,68
30	32	1" 1/4	0,62
40	32		0,83
50	38	1" 1/2	0,74
60	38		0,88
70	40	1" 9/16	0,93
80	45		0,84
90	45	1" 3/4	0,94
100	50		0,85
110	50	2"	0,93
120	60		0,71
130	60	2" 3/8	0,77
140	60		0,83
150	60		0,88
160	63	2" 1/2	0,86
170	63		0,91
180	63		0,96

Per garantire corrette condizioni di aspirazione la velocità del flusso non deve superare 1 m/sec.
To ensure the proper suction pipe size the flow speed should not exceed 1mt/sec.

Kit guarnizioni / Seal Kit 10890384009

POMPE A PISTONI AD ASSE INCLINATO BENT AXIS PISTON PUMPS

CODICE FAMIGLIA
FAMILY CODE

601003....F

"HDS"

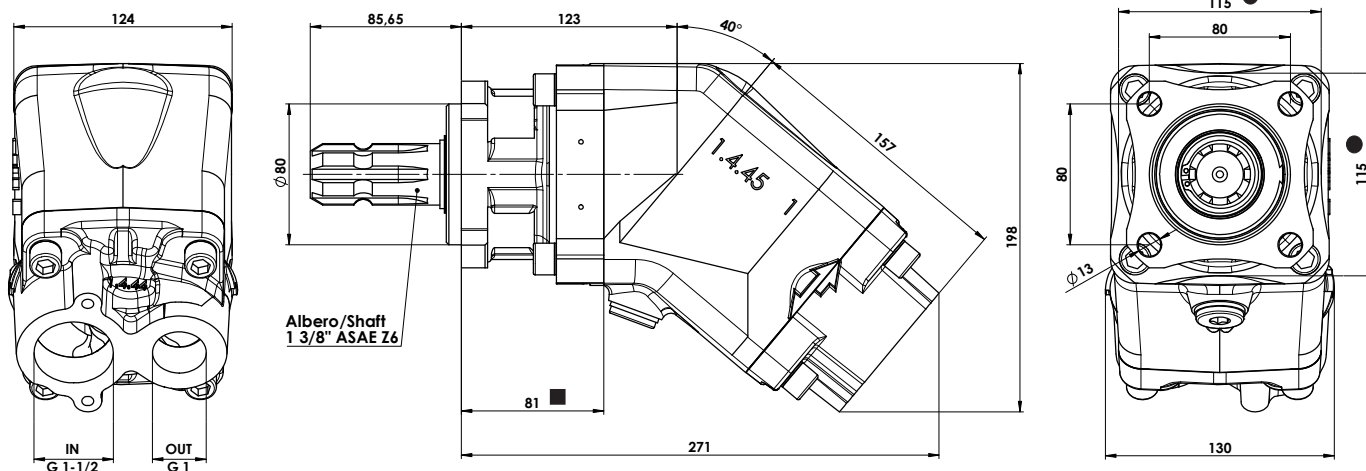
Flangia/Flange
Albero/Shaft
Cilindrata/Displacement

ISO
ASAE 1"3/8
130



Fluido idraulico Fluid	Minerale o sintetico compatibile con guarnizioni: Mineral or synthetic compatible with the following seals: HNBR				
Temp. consentita Allowed temperature	-40 +140 °C				
Viscosità cinematica consigliata Kinematic viscosity suggested	T media ambiente (°C) Average ambient temp. (°C)	< -40	-40÷10	10÷35	> 35
	VG (cSt = mm²/s)	16	22	32	46
Viscosità cinematica ottimale di esercizio Optimale kinematic viscosity			VG= 10 cSt ÷ 100 cSt		
Viscosità cinematica max consentita all'avviamento Max kinematic viscosity suggested at the start-up			VG= 750 cSt		
Indice di viscosità consigliato Viscosity index suggested			VI > 100		
Grado di filtrazione Oil filtering			> 200 bar: 10 µm < 200 bar: 25 µm		
Pres. di aspirazione Inlet pressure			0,85 ÷ 2 bar assoluti/absolut		
Senso di rotazione Pump rotation			Unidirezionale sinistra Unidirectional left		
Verificare che la pompa sia posizionata almeno 100 mm sotto il livello minimo del serbatoio olio. Prima di avviare la pompa effettuare spurgo aria. Verify that pump is, at least, 100 mm under the minimum level of the tank. Before starting the pump bleed the air.					

Dimensions in mm



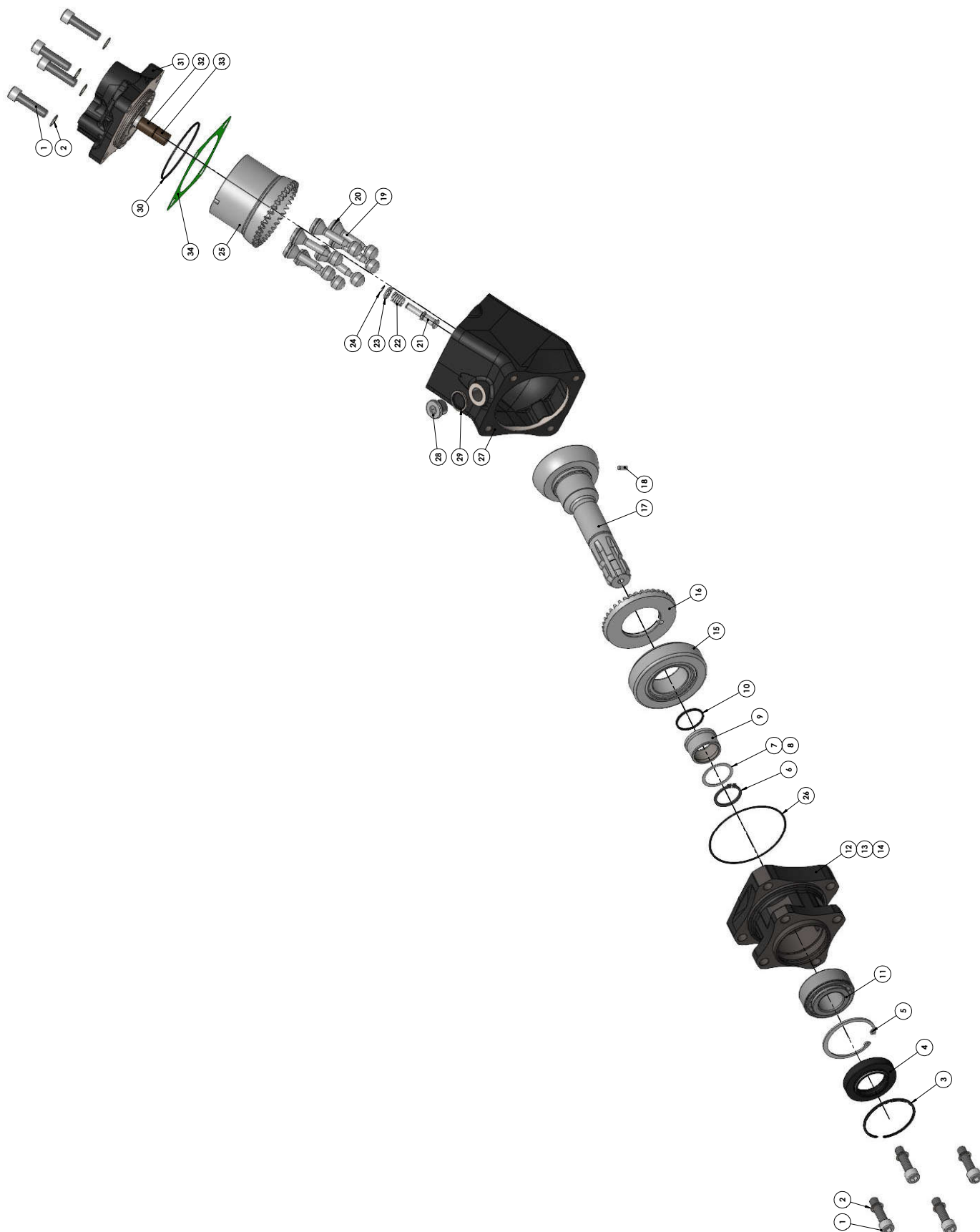
● Larghezza minima corpo a quota indicata ■
Minimum bodywidth at indicated measurement

Tipo pompa Pump type	Rotazione sinistra Left rotation	IN ISO 228	OUT ISO 228
HDS-130	60100311309F	G 1-1/2	G 1



Nota: la pompa ha senso di rotazione fisso (suffisso F nel codice). Non è possibile invertire il senso di rotazione ruotando il corpo posteriore.

ATTENTION: the pump has fixed sense of rotation (suffix F on part number). It is NOT POSSIBLE to change pump rotation by turning rear-body as in standard version!



99740060010

13/01/2022

99760100310 Rev: //

N°	HDS 130	Codice/Code	Descrizione / Description	Q.
1	•	50200500573	Vite TCE M12x45	8
2	•	50102000129	Rosetta elastica	8
3	•	50100002729	Anello elastico	1
4	•	50600024272	Paraolio	1
5	•	50100100677	Anello elastico	1
6	•	50100001355	Anello seeger rinforzato	1
7	•	52900701127	Rondella	1
8	•	52900700226	Rondella	1
9	•	51100200200	Bussola	1
10	•	50600013137	Guarnizione OR	1
11	•	51000200364	Cuscinetto a rulli conici	1
12	•	51700201172	Corpo anteriore	1
13	•	513	Targhetta completa	1
14	•	51300000011	Chiodino fissaggio targhetta	2
15	•	51000200357	Cuscinetto a rulli conici	1
16	•	52501100273	Corona dentata	1
17	•	52200500455	Albero	1
18	•	50100306142	Spina UNI 6364	1
19	•	53200500105	Pistone sferico	7
20	•	50102300117	Fasce elastiche	21
21	•	54200100162	Perno sferico con guida albero	1
22	•	51200500812	Molla di carico corpo cilindri	1
23	•	54200100171	Anello guida molla	1
24	•	50101500028	Anello seeger	1
25	•	51700300716	Corpo cilindri sede pistoni	1
26	•	50600012412	Guarnizione OR	1
27	•	51700201412	Corpo intermedio	1
28	•	11500600135	Tappo cieco	1
29	•	11600910129	Rondella rame	1
30	•	50600018520	Guarnizione OR	1
31	•	51700202242	Corpo posteriore (sinistro)	1
32	•	53300400328	Boccola DU 16x18x25	1
33	•	53300400337	Boccola DU 16x18x20	1
34	A	50700000247	Guarnizione piastra 0,3mm	1
	A	50700000541	Guarnizione piastra 0,5mm	

A = alternative

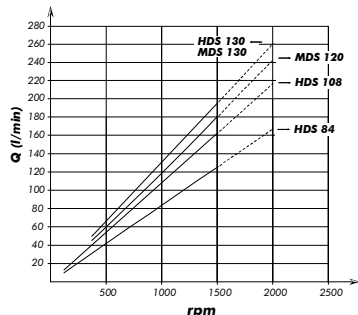
CARATTERISTICHE TECNICHE DI FUNZIONAMENTO / TECHNICAL FEATURES

Tipo pompa Pump type	Cilindrata Displacement cm ³ /rev	Pressione Pressure		Velocità / Speed			Velocità min. Min. speed rpm	Peso Weight kg
		P1 bar	P3 bar	V0 rpm	V1 rpm	V2 rpm		
HDS-130	131.62	350	400	2300	1750	2000	300	18,7

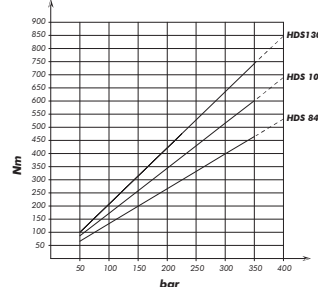
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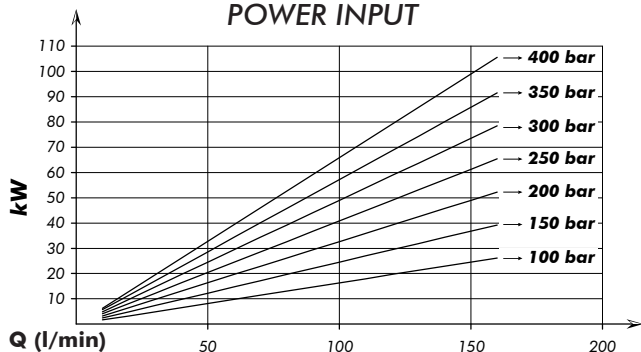
PORTATA / FLOW



**COPPIA ASSORBITA
DRIVE TORQUE**



**POTENZA ASSORBITA
POWER INPUT**



**SCELTA DEL TUBO DI ASPIRAZIONE
HOW TO CHOOSE THE SUCTION PIPE SIZE**

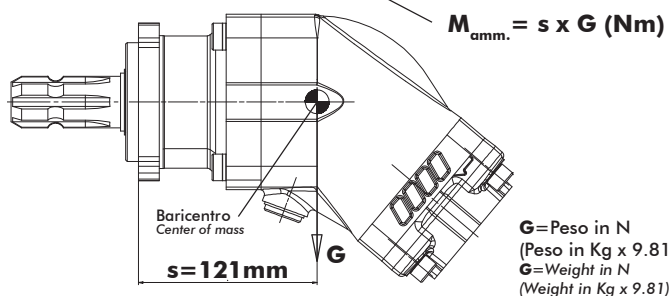
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180	63		0,96

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To ensure the proper suction pipe size the flow speed should not exceed 1m/sec.

POMPA SINISTRA
LEFT PUMP



MOMENTO PESO / MASS MOMENT



Kit guarnizioni / Seal Kit
10890384009