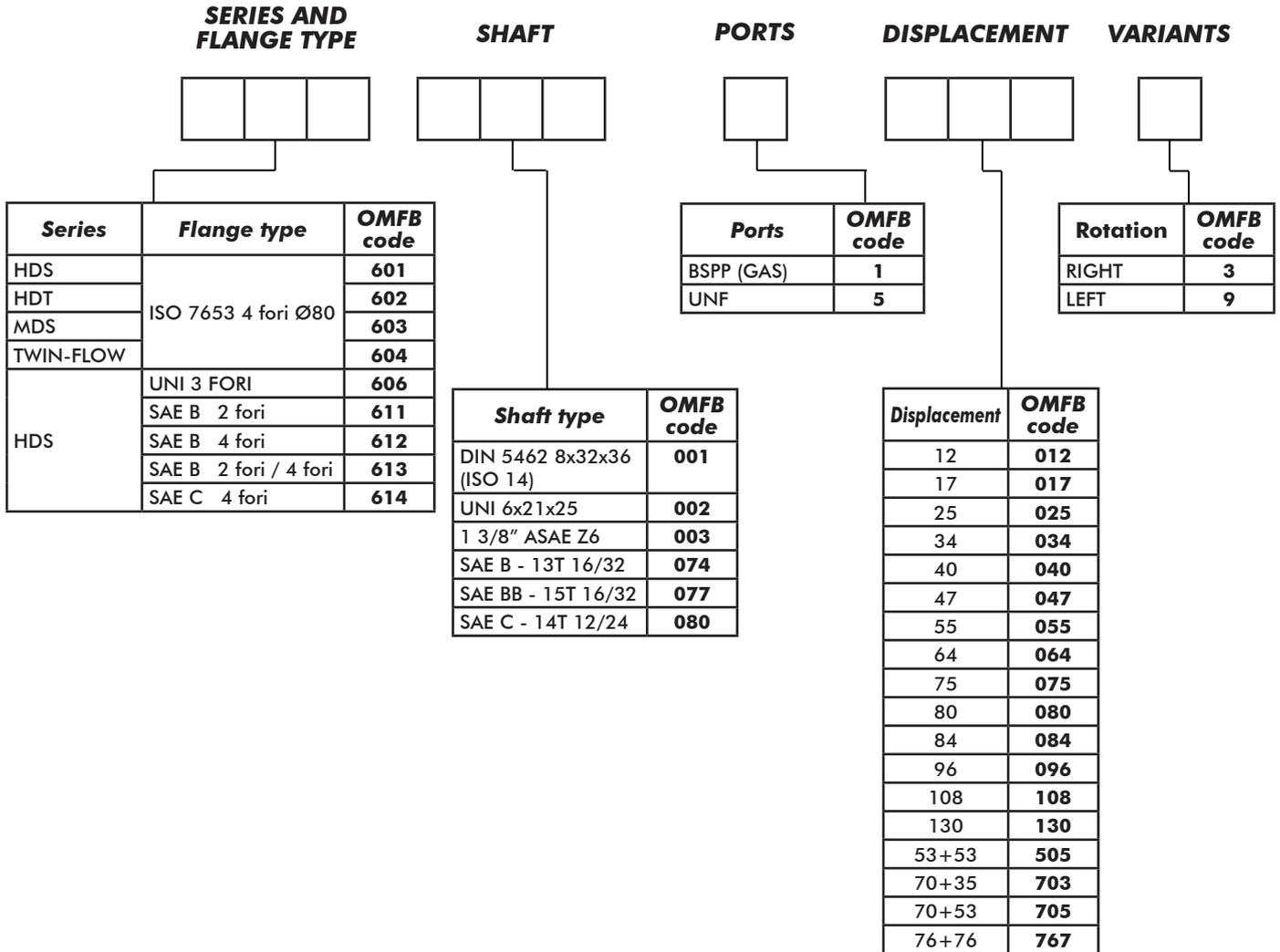


PISTON PUMPS RANGE

"HDS" "MDS"
"HDT"

VERSIONS CODING



99740060010

POMPE A PISTONI AD ASSE INCLINATO BENT AXIS PISTON PUMPS

CODICE FAMIGLIA
FAMILY CODE

601001

"HDS"

Flangia/Flange
Albero/Shaft
Cilin./Displ.

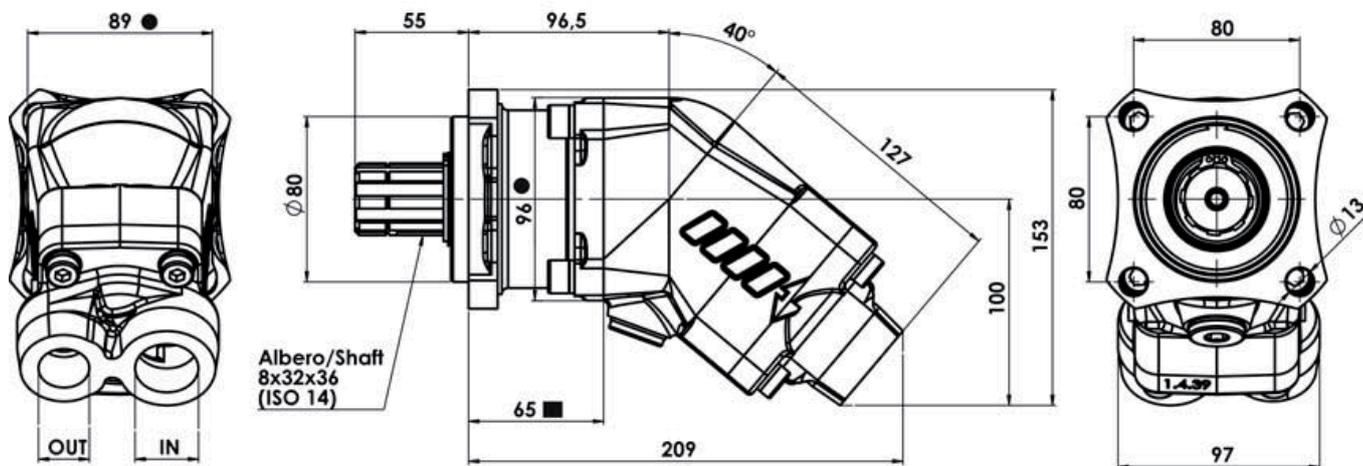
ISO
ISO14 8x32x36
12-17-25-34



99740060010

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 = mm ² /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

30/03/2016

99760101510 Rev. //

Tipo pompa Pump type	Rotazione Rotation		IN	OUT	IN	OUT
	Destra Right	Sinistra Left				
HDS-12	60100110123	60100110129	ISO 228 G 1	ISO 228 G 3/4	SAE	SAE
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		

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

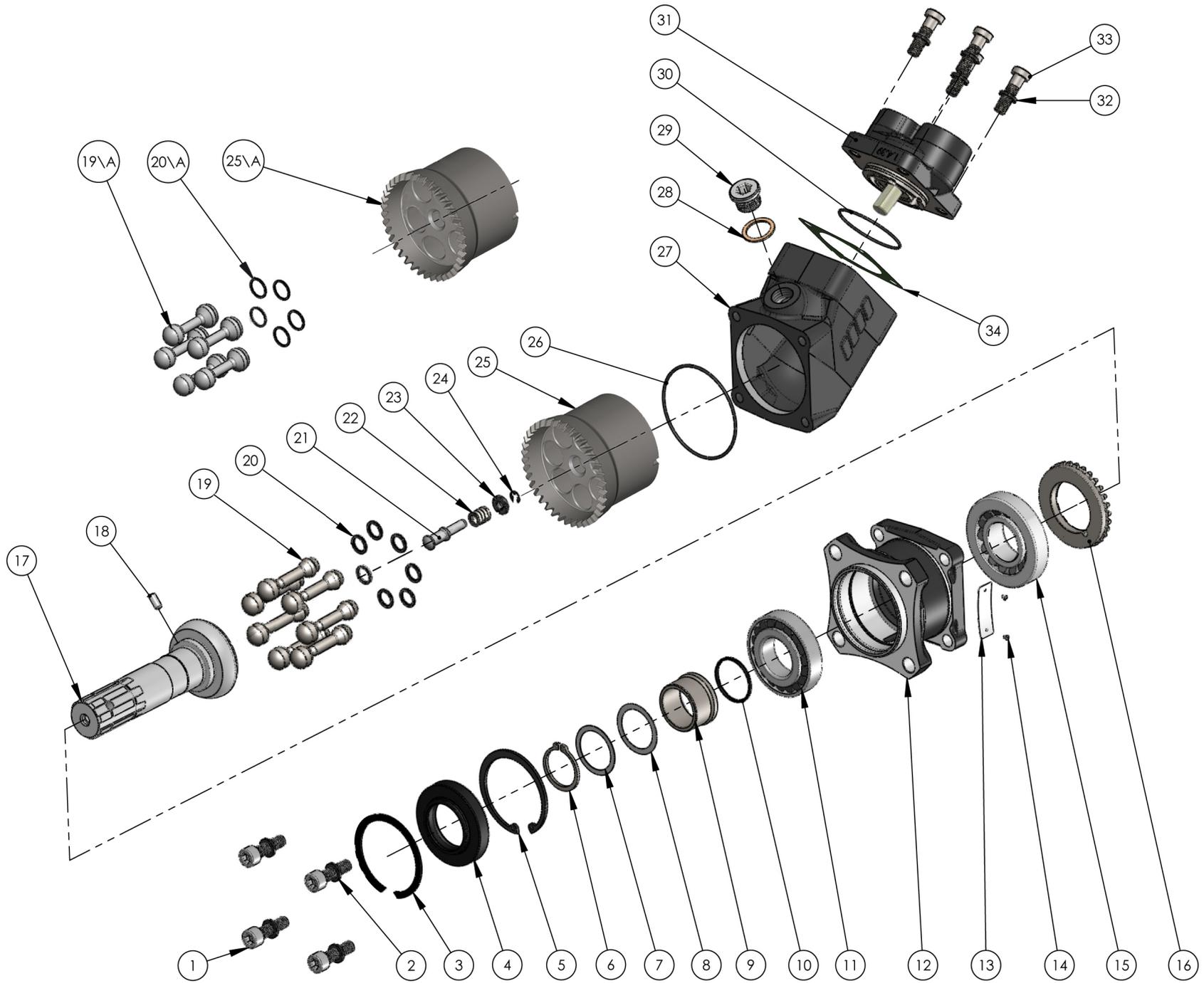
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COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= IATF 16949 =





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COMPANY WITH
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COMPANY WITH
 QUALITY SYSTEM
 CERTIFIED BY DNV GL
 = IATF-16949 =

N° 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	Socket head capscrew	4
2	•	•	•	•	50100800054	Rosetta elastica	Washer	4
3	•	•	•	•	50100002729	Anello elastico	Circlip	1
4	•	•	•	•	50600024272	Paraolio	Oil seal	1
5	•	•	•	•	50100100677	Anello elastico	Circlip	1
6	•	•	•	•	50100001355	Anello seeger rinforzato	Retaining ring	1
7	•	•	•	•	52900701127	Rondella	Spacers	2
8	•	•	•	•	52900700226	Rondella	Spacers	2
9	•	•	•	•	51100200200	Bussola	Bushing	1
10	•	•	•	•	50600013137	Guarnizione OR	O-ring	1
11	•	•	•	•	51000200211	Cuscinetto a rulli conici	Tapered roller bearing	1
12	•	•	•	•	51700201154	Corpo anteriore	Front housing	1
13	•	•	•	•	513	Targhetta completa	Plate	1
14	•	•	•	•	51300000011	Chiodino fiss. targhetta	Plate nail	2
15	•	•	•	•	51000200373	Cuscinetto a rulli conici	Tapered roller bearing	1
16	•	•	•	•	52501100264	Corona dentata	Crown	1
17	•	•	•	•	52200500357	Albero	Shaft	1
18	•	•	•	•	52200500268	Albero	Shaft	1
19	•	•	•	•	50100306142	Spina UNI 6364	Pin UNI 6364	1
19A	•	•	•	•	53200500061	Pistone sferico	Piston	7
20	•	•	•	•	53200500052	Pistone sferico	Piston	5
20A	•	•	•	•	53200500061	Pistone sferico	Piston	5
21	•	•	•	•	53200500052	Pistone sferico	Piston	7
22	•	•	•	•	50102300064	Fasce elastiche	Spring rings	21
23	•	•	•	•	50102300073	Fasce elastiche	Spring rings	15
24	•	•	•	•	50102300064	Fasce elastiche	Spring rings	15
25	•	•	•	•	50102300073	Fasce elastiche	Spring rings	15
26	•	•	•	•	54200100313	Perno sferico con guida albero	Shaft guide pin	1
27	•	•	•	•	54200100162	Perno sferico con guida albero	Shaft guide pin	1
28	•	•	•	•	51200501651	Molla di carico corpo cilindri	Spring	1
29	•	•	•	•	51200500812	Molla di carico corpo cilindri	Spring	1
30	•	•	•	•	54200100322	Anello guida molla	Spring guide ring	1
31	•	•	•	•	54200100171	Anello guida molla	Spring guide ring	1
32	•	•	•	•	50101500046	Anello seeger	Retaining ring	1
33	•	•	•	•	50101500028	Anello seeger	Retaining ring	1
34	•	•	•	•	50002916034	Gruppo corpo cilindri sede pistoni	Piston barrel assembly	1
35	•	•	•	•	50002916025	Gruppo corpo cilindri sede pistoni	Piston barrel assembly	1
36	•	•	•	•	50002916017	Gruppo corpo cilindri sede pistoni	Piston barrel assembly	1
37	•	•	•	•	50002916012	Gruppo corpo cilindri sede pistoni	Piston barrel assembly	1
38	•	•	•	•	50600018020	Guarnizione OR	O-ring	1
39	•	•	•	•	51700200717	Corpo intermedio	Int. housing	1
40	•	•	•	•	11600910129	Rondella rame	Copper washer	1
41	•	•	•	•	11500600135	Tappo cieco	Blank plug	1
42	•	•	•	•	50600012224	Guarnizione OR	O-ring	1
43	•	•	•	•	50002980340	Gruppo corpo posteriore	Rear cover assembly	1
44	•	•	•	•	50002980251	Gruppo corpo posteriore	Rear cover assembly	1
45	•	•	•	•	50002980171	Gruppo corpo posteriore	Rear cover assembly	1
46	•	•	•	•	50002980126	Gruppo corpo posteriore	Rear cover assembly	1
47	•	•	•	•	50102000101	Rosetta elastica	Washer	4
48	•	•	•	•	50200400556	Vite TCE M10x30	Socket head capscrew	4
49	A	A	A	A	50700000256	Guarnizione piatta	Gasket	1
50	A	A	A	A	50700000523	Guarnizione piatta	Gasket	1

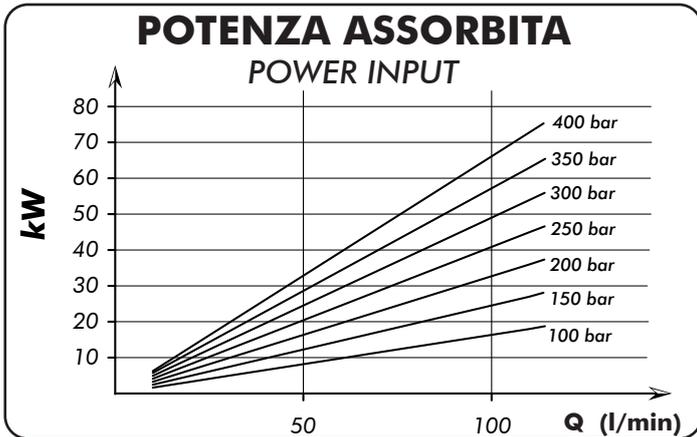
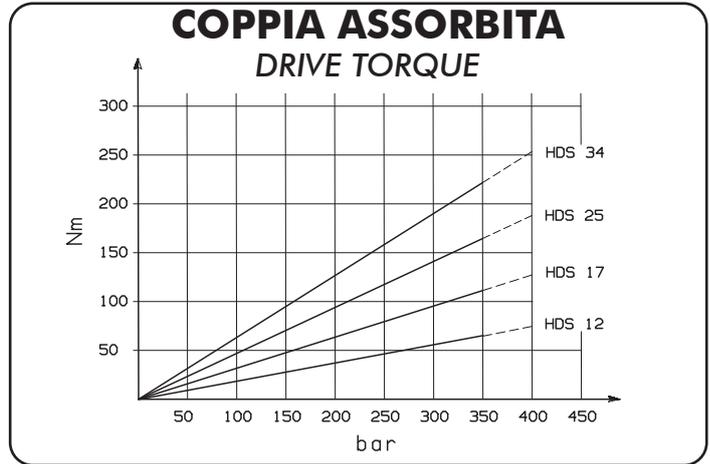
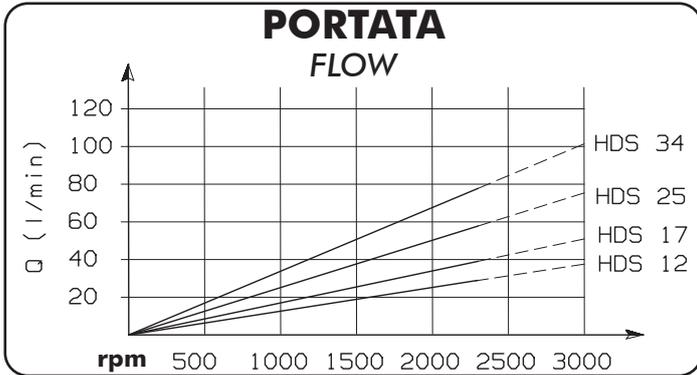
A = alternative

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)

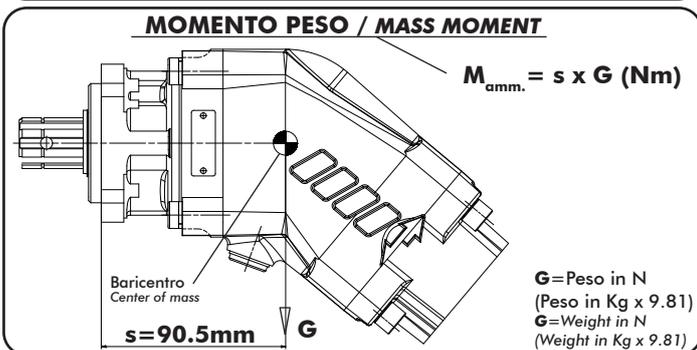
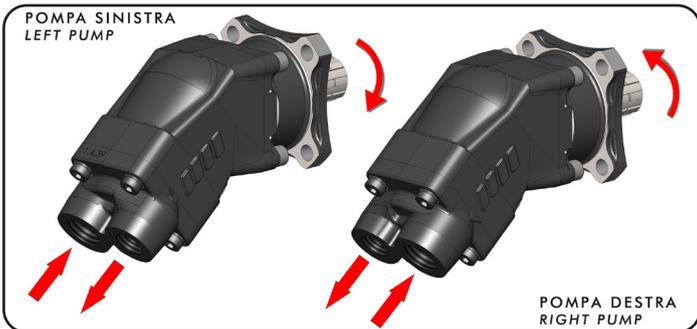
V0=Massima continua vuoto Max. continuous speed without load
V1=Massima continua Max. continuous speed
V2=Massima intermittente Max. intermittent speed



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.



Kit guarnizioni / Seal Kit
10890325340

POMPE A PISTONI AD ASSE INCLINATO BENT AXIS PISTON PUMPS

CODICE FAMIGLIA
FAMILY CODE

601001
603001

"HDS"
"MDS"

Flangia/Flange
Albero/Shaft
Cilin./Displ.

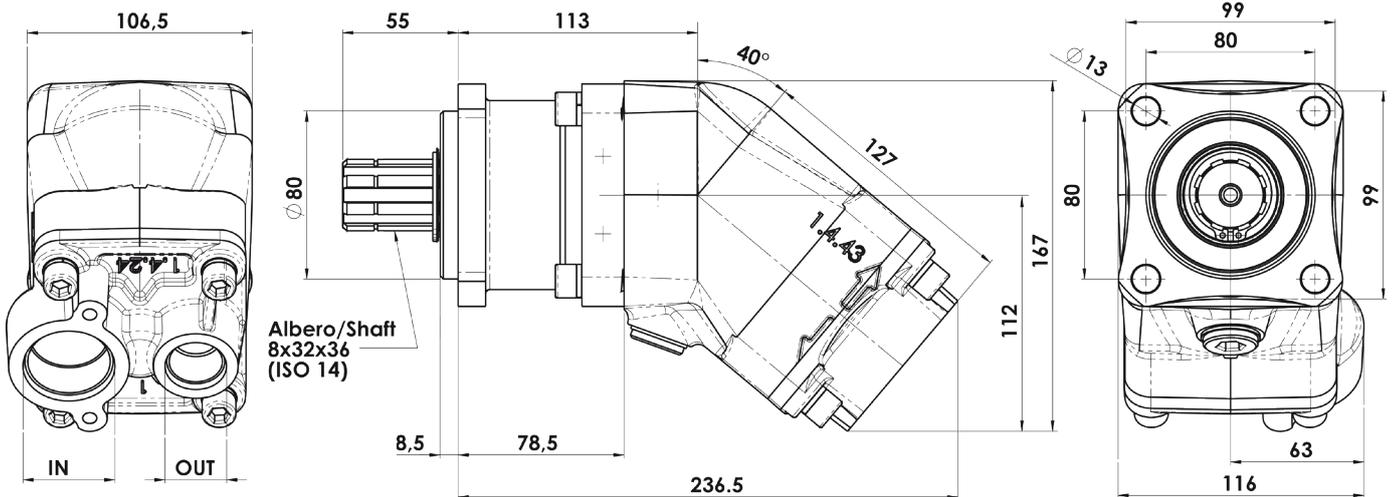
ISO
ISO14 8x32x36
40-47-55-64-80

99740060010



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 = mm ² /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



07/03/2017

99760101515 Rev. AA

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

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

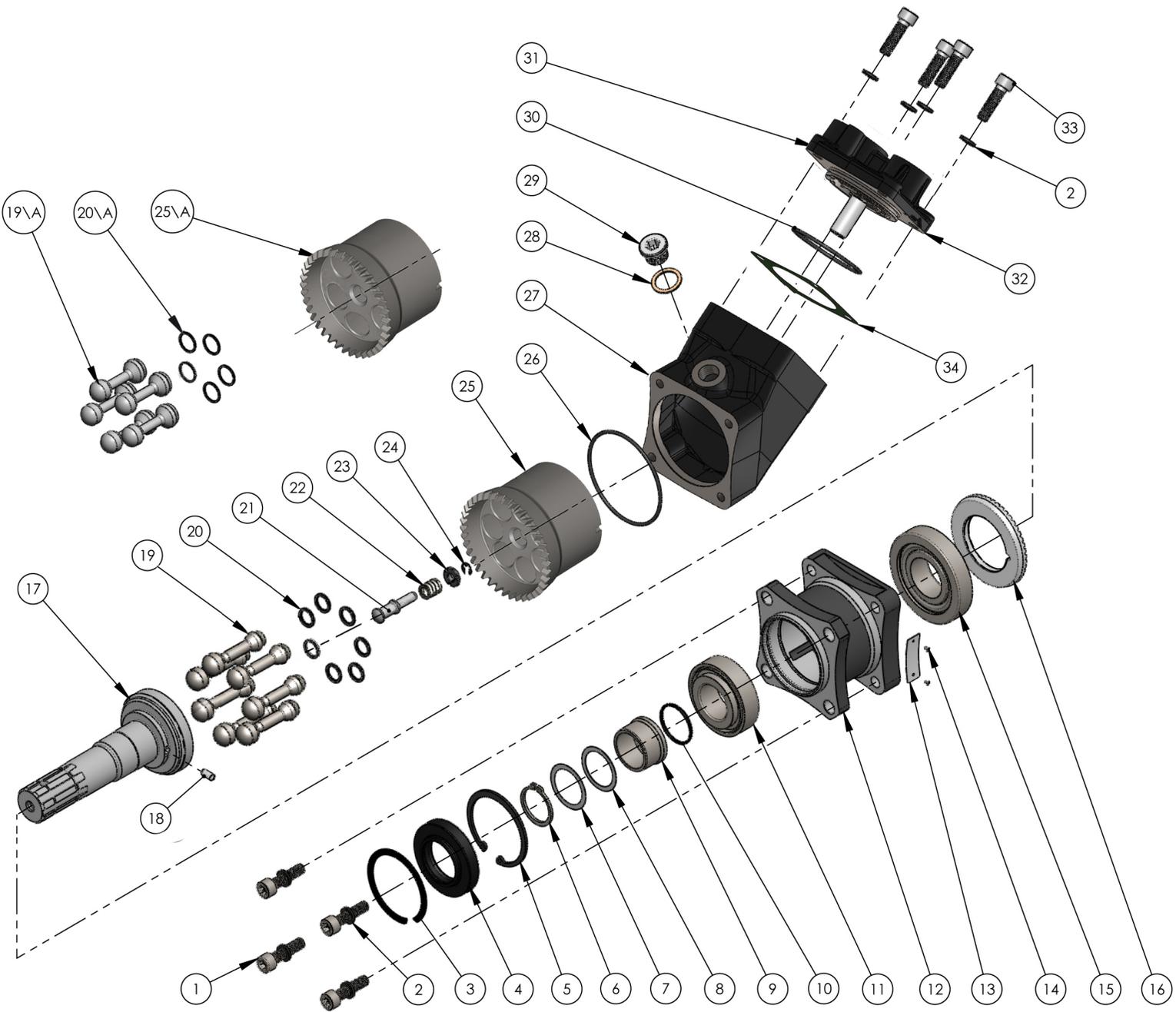
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**COMPANY WITH
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N°	HDS 40		HDS 47		HDS 55		HDS 64		MDS 80		Codice P. Number	Descrizione Description	Q.tà Q.ty	
	GAS	SAE												
1	50200400574	Vite TCE M 10x40 UNI 5931	Socket head capscrew M 10x40 UNI 5931	4
2	50100800054	Rosetta elastica x M10 DIN 7980	Washer x M10 DIN 7980	4
3	50100002729	Anello elastico E-SB 72x2	Circlip E-SB 72x2	1
4	50600024272	Paraolio HNBR	Oil seal HNBR	1
5	50100100677	Anello elastico Ø72 I	Circlip Ø72 I	1
6	50100001355	Anello seeger rinforzato AS UNI 7436	Retaining ring AS UNI 7436	1
7	52900701127	Rondella 44x35x0.2	Washer 44x35x0.2	1
8	52900700226	Rondella 44x35x0.1	Washer 44x35x0.1	1
9	51100200200	Bussola	Bushing	1
10	50600013137	Guarnizione OR 3137 HNBR	O-ring 3137 HNBR	1
11	51000200220	Cuscinetto a rulli conici	Tapered roller bearing	1
12	51700201163	Corpo anteriore	Front housing	1
13	513	Targhetta completa	Plate	1
14	51300000011	Chiodino fissaggio targhetta	Plate nail	2
15	51000200275	Cuscinetto a rulli conici	Tapered roller bearing	1
16	52501100255	Corona dentata	Crown	1
17	52200500231	Albero	Shaft	1
18	52200500204	Albero	Shaft	1
19	50100306142	Spina UNI 6364-A Ø6x14	Pin UNI 6364-A Ø6x14	1
19	53200500285	Pistone sferico	Piston	7
19	53200500025	Pistone sferico	Piston	7
19	53200500114	Pistone sferico	Piston	7
19	53200500016	Pistone sferico	Piston	7
19a	53200500043	Pistone sferico	Piston	5
20	50102300064	Fasce elastiche	Spring rings	21
20	50102300046	Fasce elastiche	Spring rings	21
20	50102300126	Fasce elastiche	Spring rings	21
20a	50102300019	Fasce elastiche	Spring rings	15
20a	50102300082	Fasce elastiche	Spring rings	15
21	54200100162	Perno sferico con guida albero	Shaft guide pin	1
22	51200500812	Molla di carico corpo cilindri	Spring	1
23	54200100171	Anello guida molla	Spring guide ring	1
24	50101500028	Anello seeger RS 6 DIN 6799	Retaining ring RS 6 DIN 6799	1
25	50002916040	Gruppo corpo cilindri sede pistoni	Piston barrel assembly	1
25	50002916047	Gruppo corpo cilindri sede pistoni	Piston barrel assembly	1
25	50002916055	Gruppo corpo cilindri sede pistoni	Piston barrel assembly	1
25	50002916064	Gruppo corpo cilindri sede pistoni	Piston barrel assembly	1
25a	50002916080	Gruppo corpo cilindri sede pistoni	Piston barrel assembly	1
26	50600013350	Guarnizione OR 3350 HNBR	O-Ring 3350 HNBR	1
27	51700201421	Corpo intermedio	Intern. housing	1
28	11600910129	Rondella acciaio/gomma 1/2"	Washer 1/2"	1
29	11500600135	Tappo cieco 1/2" DIN 908	Blank plug 1/2" DIN 908	1
30	50600013275	Guarnizione OR 3275 HNBR	O-ring OR 3275 HNBR	1
31	50002990400	Gruppo corpo posteriore	Rear cover assembly	1
31	50002990419	Gruppo corpo posteriore	Rear cover assembly	1
31	50002990473	Gruppo corpo posteriore	Rear cover assembly	1
31	50002990482	Gruppo corpo posteriore	Rear cover assembly	1
31	50002990553	Gruppo corpo posteriore	Rear cover assembly	1
31	50002990562	Gruppo corpo posteriore	Rear cover assembly	1
31	50002990642	Gruppo corpo posteriore	Rear cover assembly	1
31	50002990651	Gruppo corpo posteriore	Rear cover assembly	1
31	50002990802	Gruppo corpo posteriore	Rear cover assembly	1
31	50002990811	Gruppo corpo posteriore	Rear cover assembly	1
32	50100800054	Rosetta elastica x M10 DIN 7980	Washer x M10 DIN 7980	4
33	50200400565	Vite TCE M10x35 UNI 5931	Socket head capscrew M10x35 UNI 5931	4
34	A	A	A	A	A	A	A	A	A	A	50700000229	Guarnizione piatta	Gasket	1
34	A	A	A	A	A	A	A	A	A	A	50700000532	Guarnizione piatta	Gasket	1

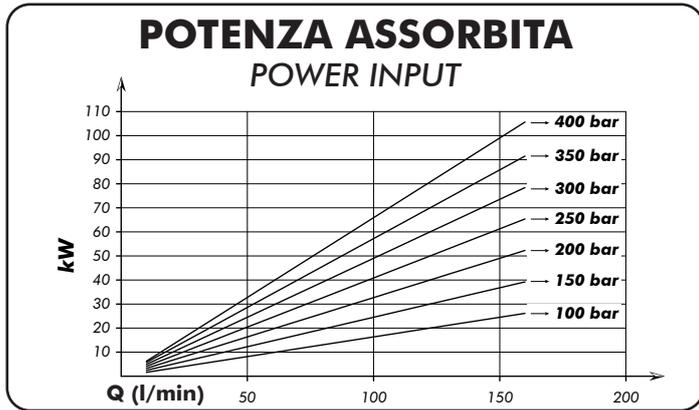
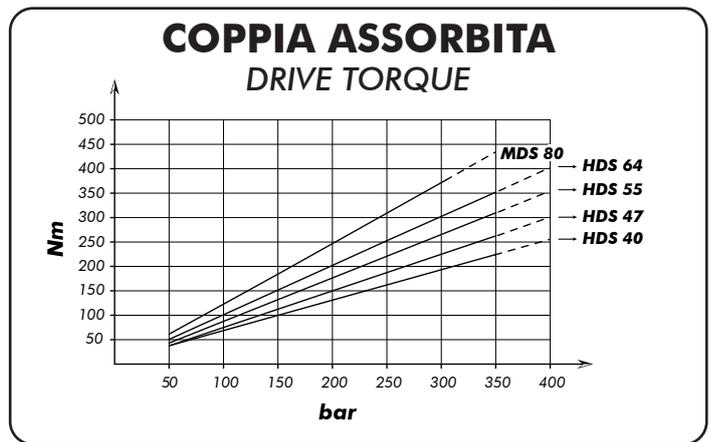
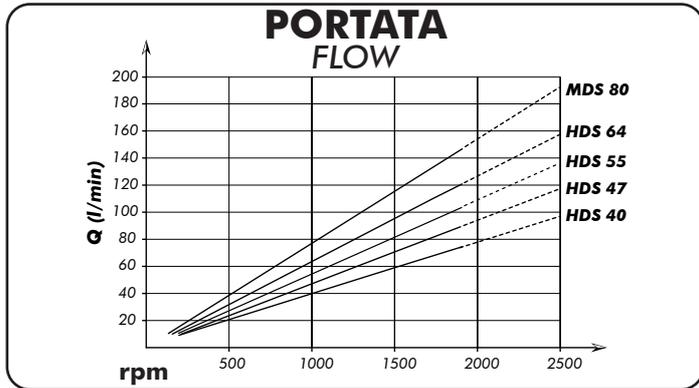
A = alternative

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

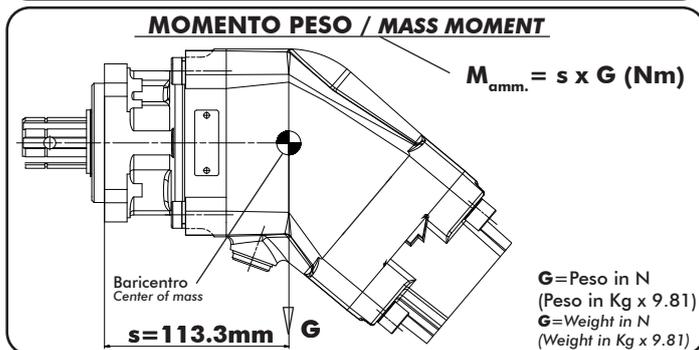
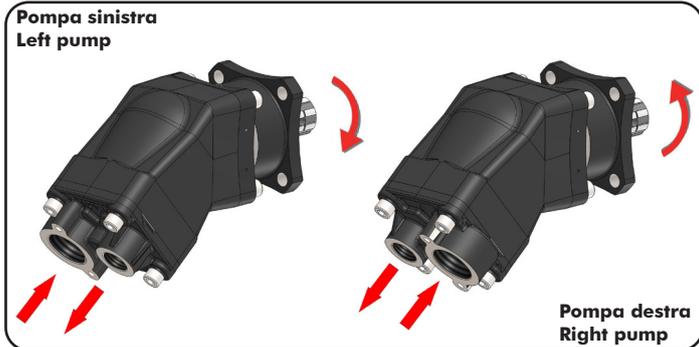
V0=Max. continua vuoto Max. continuous speed without load
V1=Max. continua Max. continuous speed
V2=Max. intermittente Max. intermittent speed



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	1" 1/4	0,83
50	38	1" 1/2	0,74
60	38	1" 1/2	0,88
70	40	1" 9/16	0,93
80	45	1" 3/4	0,84
90	45	1" 3/4	0,94
100	50	2"	0,85
110	50	2"	0,93
120	60	2" 3/8	0,71
130	60		0,77
140	60		0,83
150	60	2" 1/2	0,88
160	63		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.



POMPE A PISTONI AD ASSE INCLINATO BENT AXIS PISTON PUMPS

CODICE FAMIGLIA
FAMILY CODE

601001
603001

"HDS"
"MDS"

Flangia/Flange
Albero/Shaft
Cilin./Displ.

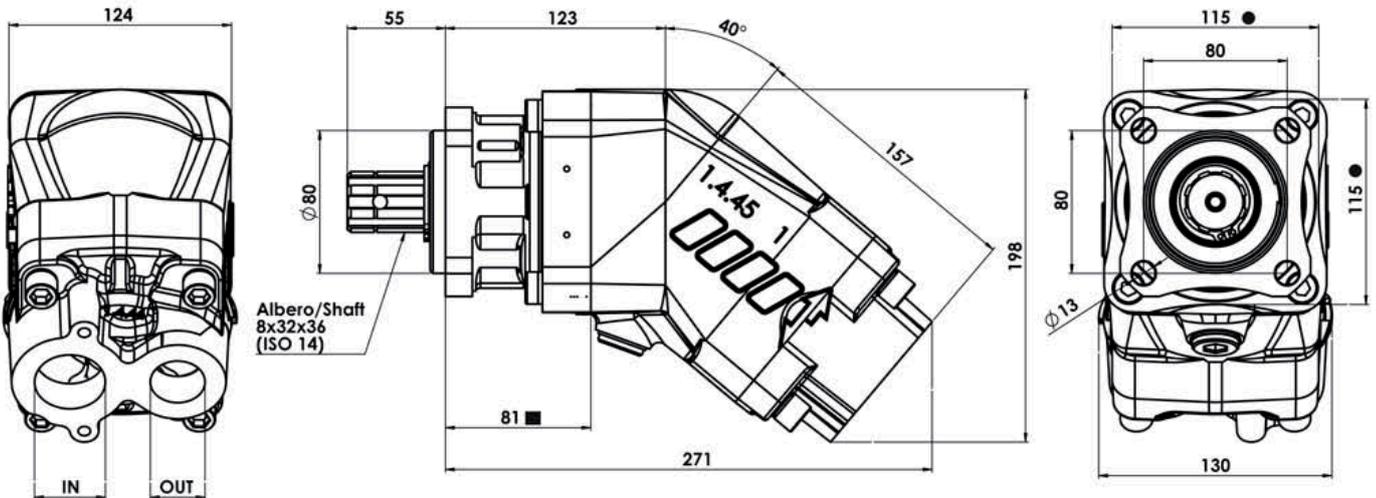
ISO
ISO14 8x32x36
84-108-120-130



99740060010

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 = mm ² /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 ISO 228 G 1 1/4"	OUT ISO 228 G 1"
	Destra / Right	Sinistra / Left		
HDS-84	60100110843	60100110849	G 1 1/2"	G 1"
HDS-108	60100111083	60100111089		
HDS-130	60100111303	60100111309		
MDS-120	60300111203	60300111209		
MDS-130	60300111303	60300111309		
			ISO 725	ISO 725
HDS-84	60100150843	60100150849	1 7/8-12 UN-2B SAE 24	1 5/16-12 UN-2B SAE 16
HDS-108	60100151083	60100151089		
HDS-130	60100151303	60100151309		
MDS-120	60300151203	60300151209		
MDS-130	60300151303	60300151309		

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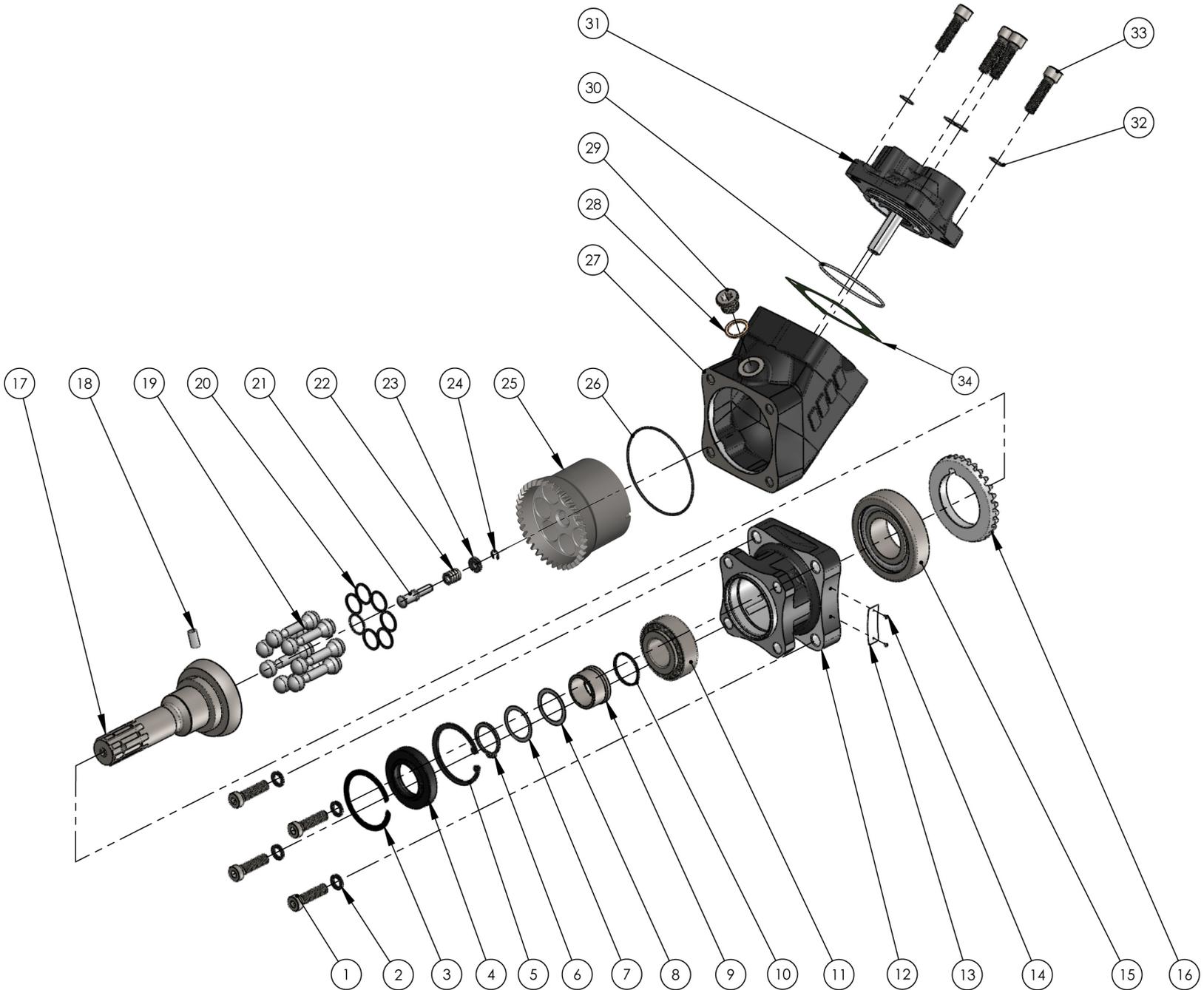
COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
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HYDRAULIC COMPONENTS

11/05/2021

99760101520 Rev. AD





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COMPANY WITH
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601001
 603001

SCHEMA RICAMBI POMPE A PISTONI HDS 84-108-130 E MDS 120-130
 HDS PISTON PUMP 84-108-130 AND MDS 120-130 SERIES SPARE PARTS

"HDS"
 "MDS"

N°	HDS 84		HDS 108		HDS 130		MDS 120		MDS 130		Codice/Code	Descrizione / Description		Q.tà/Q.ty
	GAS	SAE	GAS	SAE	GAS	SAE	GAS	SAE	GAS	SAE				
1	•	•	•	•	•	•	•	•	•	•	50200500573	Vite TCE M12x45	Socket head capscrew	4
2	•	•	•	•	•	•	•	•	•	•	50102000129	Rosetta elastica	Washer	4
3	•	•	•	•	•	•	•	•	•	•	50100002729	Anello elastico	Circlip	1
4	•	•	•	•	•	•	•	•	•	•	50600024272	Paraolio	Oil seal	1
5	•	•	•	•	•	•	•	•	•	•	50100100677	Anello elastico	Circlip	1
6	•	•	•	•	•	•	•	•	•	•	50100001355	Anello seeger rinforzato	Retaining ring	1
7	•	•	•	•	•	•	•	•	•	•	52900701127	Rondella	Spacers	2
8	•	•	•	•	•	•	•	•	•	•	52900700226	Rondella	Spacers	2
9	•	•	•	•	•	•	•	•	•	•	51100200200	Bussola	Bushing	1
10	•	•	•	•	•	•	•	•	•	•	50600013137	Guarnizione OR	O-ring	1
11	•	•	•	•	•	•	•	•	•	•	51000200364	Cuscinetto a rulli conici	Tapered roller bearing	1
12	•	•	•	•	•	•	•	•	•	•	51700201172	Corpo anteriore	Front housing	1
13	•	•	•	•	•	•	•	•	•	•	513	Targhetta completa	Plate	1
14	•	•	•	•	•	•	•	•	•	•	51300000011	Chiodino fissaggio targhetta	Plate nail	2
15	•	•	•	•	•	•	•	•	•	•	51000200355	Cuscinetto a rulli conici	Tapered roller bearing	1
16	•	•	•	•	•	•	•	•	•	•	51000200357	Cuscinetto a rulli conici	Tapered roller bearing	1
17	•	•	•	•	•	•	•	•	•	•	52501100273	Corona dentata	Crown	1
18	•	•	•	•	•	•	•	•	•	•	52200500562	Albero	Shaft	1
19	•	•	•	•	•	•	•	•	•	•	52200500955	Spina UNI 6364	Pin UNI 6364	1
20	•	•	•	•	•	•	•	•	•	•	50100306142	Pistone sferico	Piston	7
21	•	•	•	•	•	•	•	•	•	•	53200500034	Pistone sferico	Piston	7
22	•	•	•	•	•	•	•	•	•	•	53200500105	Pistone sferico	Piston	7
23	•	•	•	•	•	•	•	•	•	•	50102300037	Fasce elastiche	Spring rings	21
24	•	•	•	•	•	•	•	•	•	•	50102300055	Fasce elastiche	Spring rings	21
25	•	•	•	•	•	•	•	•	•	•	50102300117	Fasce elastiche	Spring rings	21
26	•	•	•	•	•	•	•	•	•	•	54200100162	Perno sferico con guida albero	Shaft guide pin	1
27	•	•	•	•	•	•	•	•	•	•	51200500812	Molla di carico corpo cilindri	Spring	1
28	•	•	•	•	•	•	•	•	•	•	54200100171	Anello guida molla	Spring guide ring	1
29	•	•	•	•	•	•	•	•	•	•	50101500028	Anello seeger	Retaining ring	1
30	•	•	•	•	•	•	•	•	•	•	50002916084	Gruppo corpo cilindri sede pistoni	Piston barrel assembly	1
31	•	•	•	•	•	•	•	•	•	•	50002916108	Gruppo corpo cilindri sede pistoni	Piston barrel assembly	1
32	•	•	•	•	•	•	•	•	•	•	50002916130	Gruppo corpo cilindri sede pistoni	Piston barrel assembly	1
33	•	•	•	•	•	•	•	•	•	•	50600012412	Guarnizione OR	O-Ring	1
34	•	•	•	•	•	•	•	•	•	•	51700201412	Corpo intermedio	Int. housing	1
35	•	•	•	•	•	•	•	•	•	•	11500600135	Tappo cieco	Blank plug	1
36	•	•	•	•	•	•	•	•	•	•	11600910129	Rondella rame	Copper washer	1
37	•	•	•	•	•	•	•	•	•	•	50600018520	Guarnizione OR	O-ring	1
38	•	•	•	•	•	•	•	•	•	•	50002990848	Gruppo corpo posteriore	Rear cover assembly	1
39	•	•	•	•	•	•	•	•	•	•	50002990857	Gruppo corpo posteriore	Rear cover assembly	1
40	•	•	•	•	•	•	•	•	•	•	50002991089	Gruppo corpo posteriore	Rear cover assembly	1
41	•	•	•	•	•	•	•	•	•	•	50002991098	Gruppo corpo posteriore	Rear cover assembly	1
42	•	•	•	•	•	•	•	•	•	•	50002991301	Gruppo corpo posteriore	Rear cover assembly	1
43	•	•	•	•	•	•	•	•	•	•	50002991310	Gruppo corpo posteriore	Rear cover assembly	1
44	•	•	•	•	•	•	•	•	•	•	50102000129	Rosetta elastica	Washer	4
45	•	•	•	•	•	•	•	•	•	•	50200500573	Vite TCE M12x45	Socket head capscrew	4
46	A	A	A	A	A	A	A	A	A	A	50700000247	Guarnizione piatta	Gasket	1
47	A	A	A	A	A	A	A	A	A	A	50700000541	Guarnizione piatta	Gasket	1

A = alternative

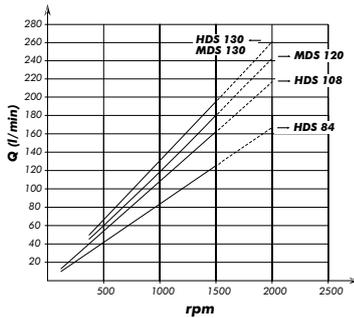
CARATTERISTICHE TECNICHE DI FUNZIONAMENTO / TECHNICAL FEATURES

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-84	84.33	350	400	2300	1500	2000	300	19.2
HDS-108	107				1500			18.6
HDS-130	131.62				1750			18.3
MDS-120	122.1	260	280		1500			18.4
MDS-130	131.62	250	270		1500			18.7

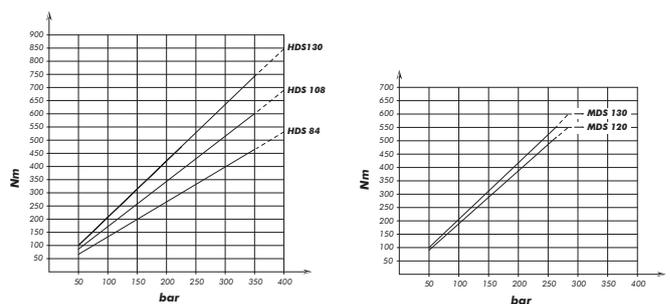
P1=Pressione massima continua Max. continuous pressure (100%)
P3=Pressione massima di punta Max. peak pressure (6 sec.max)

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

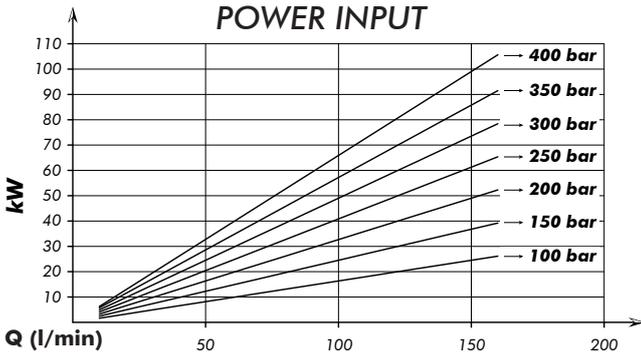
PORTATA / FLOW



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	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	2" 1/2	0,88
160	63		0,86
170	63		0,91
180	63	0,96	

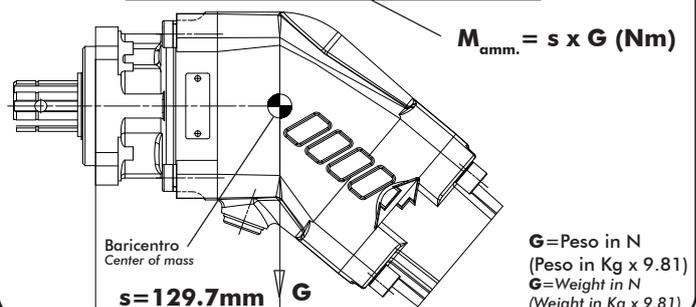
Per garantire corrette condizioni di aspirazione la velocità del flusso non deve superare 1 m/sec.
To ensure the proper suction pipe size the flow speed should not exceed 1mt/sec.

POMPA SINISTRA
LEFT PUMP

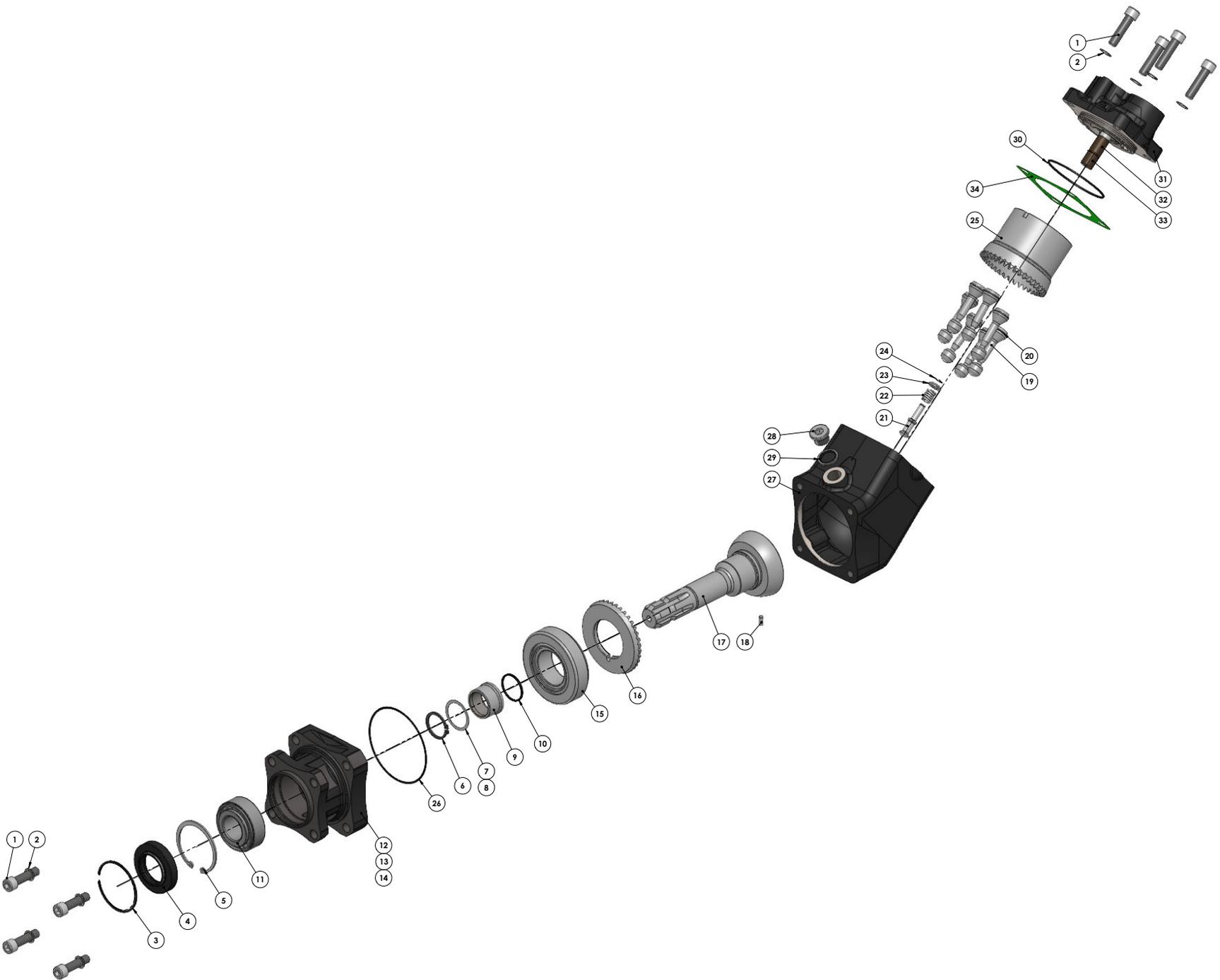


POMPA DESTRA
RIGHT PUMP

MOMENTO PESO / MASS MOMENT



Kit guarnizioni / Seal Kit
10890384009



N°	HDS 130	Codice/Code	Descrizione / Description		Q.
1	•	50200500573	Vite TCE M12x45	Socket head capscrew	8
2	•	50102000129	Rosetta elastica	Washer	8
3	•	50100002729	Anello elastico	Circlip	1
4	•	50600024272	Paraolio	Oil seal	1
5	•	50100100677	Anello elastico	Circlip	1
6	•	50100001355	Anello seeger rinforzato	Retaining ring	1
7	•	52900701127	Rondella	Spacers	1
8	•	52900700226	Rondella	Spacers	1
9	•	51100200200	Bussola	Bushing	1
10	•	50600013137	Guarnizione OR	O-ring	1
11	•	51000200364	Cuscinetto a rulli conici	Tapered roller bearing	1
12	•	51700201172	Corpo anteriore	Front housing	1
13	•	513	Targhetta completa	Plate	1
14	•	51300000011	Chiodino fissaggio targhetta	Plate nail	2
15	•	51000200357	Cuscinetto a rulli conici	Tapered roller bearing	1
16	•	52501100273	Corona dentata	Crown	1
17	•	52200500455	Albero	Shaft	1
18	•	50100306142	Spina UNI 6364	Pin UNI 6364	1
19	•	53200500105	Pistone sferico	Piston	7
20	•	50102300117	Fasce elastiche	Spring rings	21
21	•	54200100162	Perno sferico con guida albero	Shaft guide pin	1
22	•	51200500812	Molla di carico corpo cilindri	Spring	1
23	•	54200100171	Anello guida molla	Spring guide ring	1
24	•	50101500028	Anello seeger	Retaining ring	1
25	•	51700300716	Corpo cilindri sede pistoni	Piston barrel	1
26	•	50600012412	Guarnizione OR	O-Ring	1
27	•	51700201412	Corpo intermedio	Int. housing	1
28	•	11500600135	Tappo cieco	Blank plug	1
29	•	11600910129	Rondella rame	Copper washer	1
30	•	50600018520	Guarnizione OR	O-ring	1
31	•	51700202242	Corpo posteriore (sinistro)	Rear cover (left)	1
32	•	53300400328	Boccola DU 16x18x25	Bushing	1
33	•	53300400337	Boccola DU 16x18x20	Bushing	1
34	A	50700000247	Guarnizione piatta 0,3mm	Gasket	1
	A	50700000541	Guarnizione piatta 0,5mm		

A = alternative

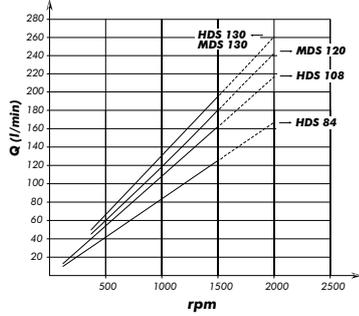
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Tipo pompa Pump type	Cilindrata Displacement cm ³ /rev	Pressione Pressure		Velocità / Speed			Velocità min. Min. speed rpm	Peso Weight kg
		P1 bar	P3 bar	V0 rpm	V1 rpm	V2 rpm		
HDS-130	131.62	350	400	2300	1750	2000	300	18,7

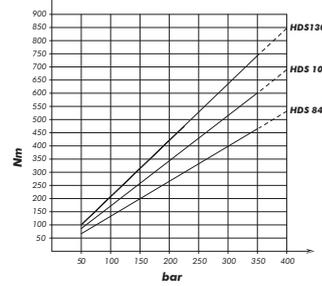
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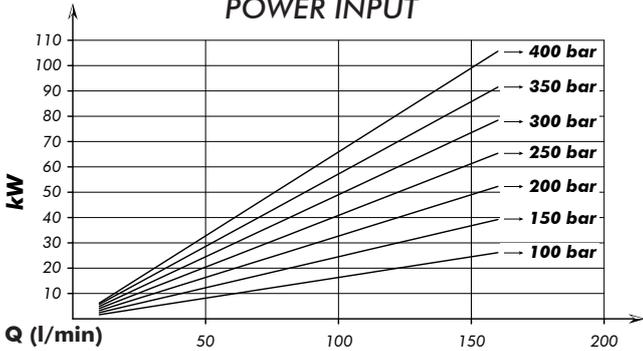
PORTATA / FLOW



**COPPIA ASSORBITA
DRIVE TORQUE**



**POTENZA ASSORBITA
POWER INPUT**

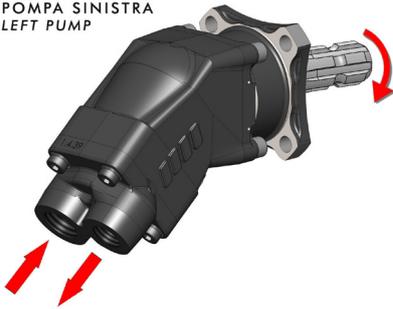


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HOW TO CHOOSE THE SUCTION PIPE SIZE**

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	mm	inch	
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50	38	1" 1/2	0,74
60	38	1" 9/16	0,88
70	40		0,93
80	45	1" 3/4	0,84
90	45	2"	0,94
100	50		0,85
110	50	2" 3/8	0,93
120	60		0,71
130	60	2" 1/2	0,77
140	60		0,83
150	60	2" 1/2	0,88
160	63		0,86
170	63	2" 1/2	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.

POMPA SINISTRA
LEFT PUMP



Kit guarnizioni / Seal Kit
10890384009

MOMENTO PESO / MASS MOMENT

