

POMPE A PISTONI AD ASSE INCLINATO BENT AXIS PISTON PUMPS

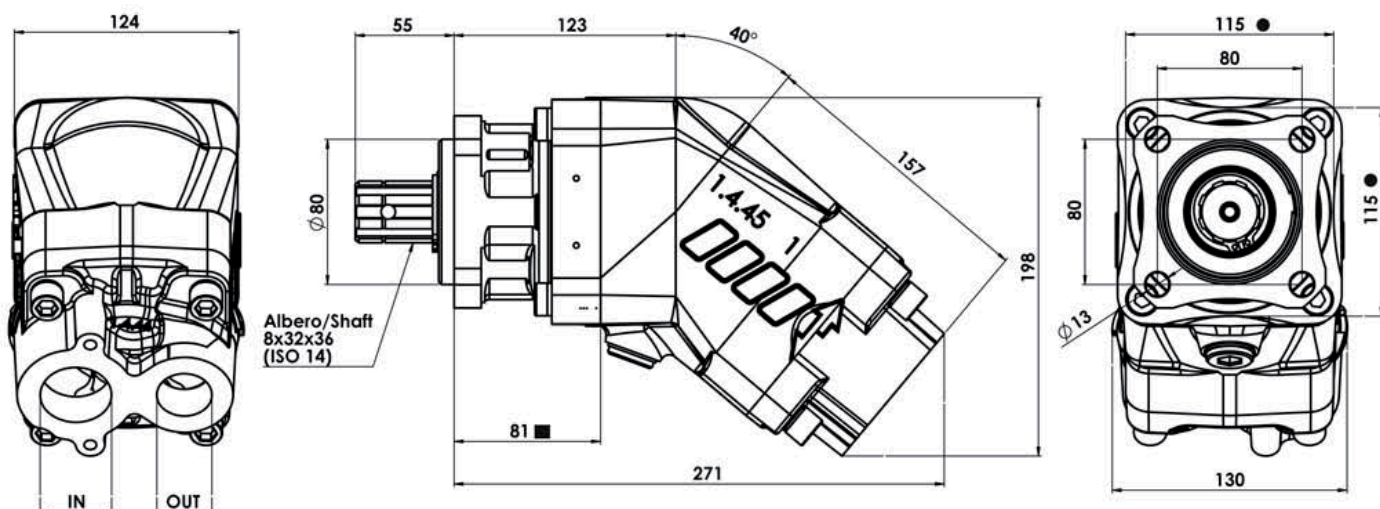
CODICE FAMIGLIA
FAMILY CODE

108-015
108-016
108-907

"HDS" 84-108
"MDS" 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		
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.					



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

Dimensions in mm

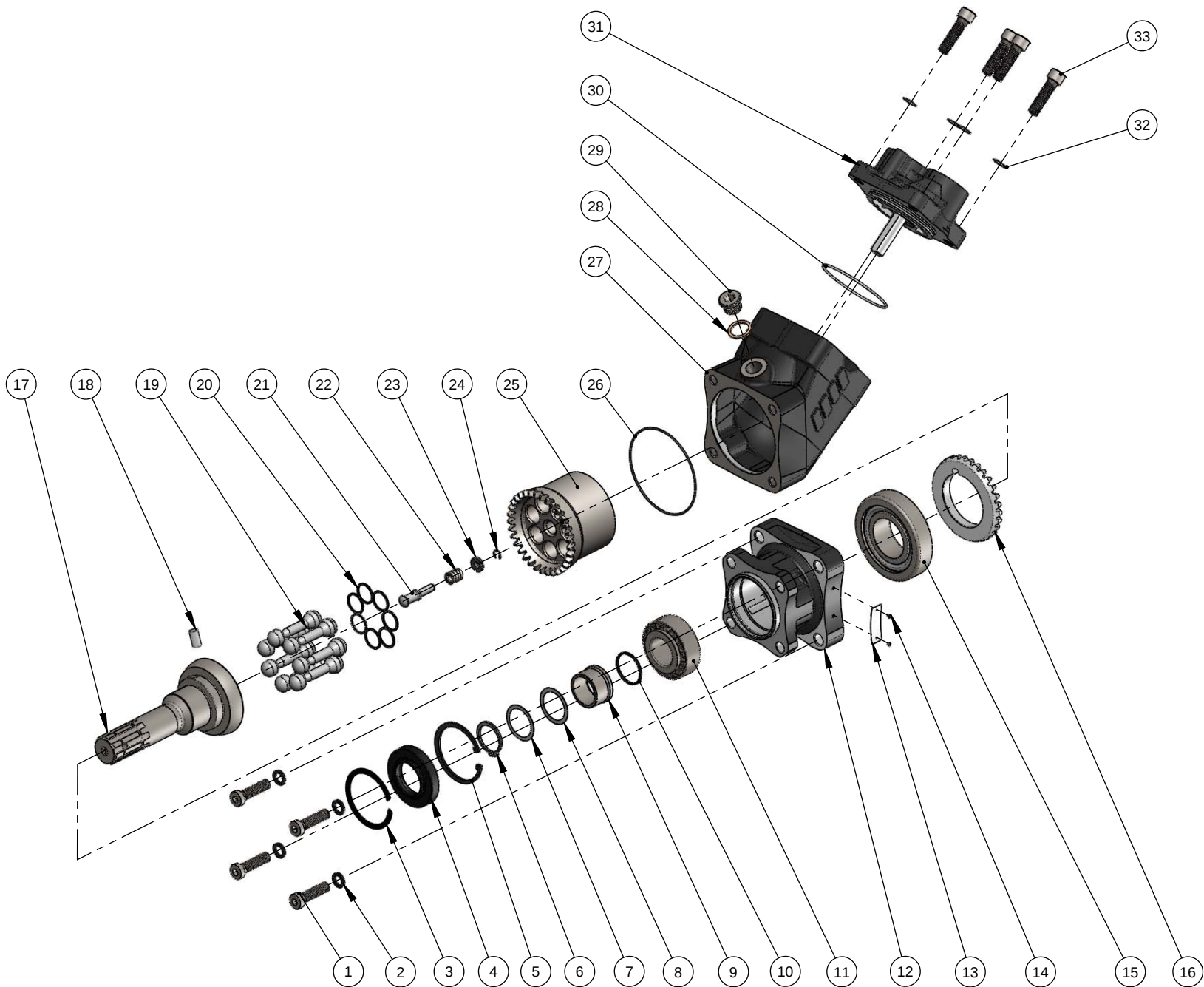
Tipo pompa Pump type	Rotazione Rotation		IN	OUT	IN	OUT
	Destra Right	Sinistra Left				
HDS-84	108-015-08033	108-015-08042	ISO 228 G 1 1/4	ISO 228 G 1	SAE 24	SAE 16
	108-907-00845	108-907-00854			1 7/8-12	1 5/16-12
HDS-108	108-015-10833	108-015-10842	G 1 1/2	G 1		
	108-907-01086	108-907-01095			1 7/8-12	1 5/16-12
MDS-130	108-016-01306	108-016-01315	G 1 1/2	G 1		
	108-907-11306	108-907-11315			1 7/8-12	1 5/16-12

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HYDRAULIC COMPONENTS

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

N° N°	HDS 84		HDS 108		MDS 130		Codice P. Number	Descrizione Description		Quantità Quantity
	GAS	SAE	GAS	SAE	GAS	SAE				
1	•	•	•	•	•	•	502-000-00318	Vite TCE M 12x45	Socket head capscrew	4
2	•	•	•	•	•	•	501-008-00063	Rosetta elastica	Washer	4
3	•	•	•	•	•	•	501-000-02729	Anello elastico	Circlip	1
4	•	•	•	•	•	•	506-000-24272	Paraolio	Oil seal	1
5	•	•	•	•	•	•	501-001-00677	Anello elastico	Circlip	1
6	•	•	•	•	•	•	501-000-01355	Anello seeger rinforzato	Retaining ring	1
7	•	•	•	•	•	•	529-007-01127	Rondella	Spacers	2
8	•	•	•	•	•	•	529-007-00226	Rondella	Spacers	2
9	•	•	•	•	•	•	511-002-00200	Bussola	Bushing	1
10	•	•	•	•	•	•	506-000-13137	Guarnizione OR	O-ring	1
11	•	•	•	•	•	•	510-002-00364	Cuscinetto a rulli conici	Tapered roller bearing	1
12	•	•	•	•	•	•	517-002-01172	Corpo anteriore	Front housing	1
13	•	•	•	•	•	•	513	Targhetta completa	Plate	1
14	•	•	•	•	•	•	513-000-00011	Chiodino fissaggio targhetta	Plate nail	2
15	•	•	•	•	•	•	510-002-00355	Cuscinetto a rulli conici	Tapered roller bearing	1
16	•	•	•	•	•	•	525-011-00111	Corona dentata	Crown	1
17	•	•	•	•	•	•	522-005-00179	Albero	Shaft	1
18	•	•	•	•	•	•	501-003-10208	Spina UNI 6364	Pin UNI 6364	1
19	•	•					532-005-00034	Pistone sferico	Piston	7
			•	•			532-005-00070			
					•	•	532-005-00105			
20	•	•					501-023-00037	Fasce elastiche	Spring rings	21
			•	•			501-023-00055			
					•	•	501-023-00117			
21	•	•	•	•	•	•	542-001-00162	Perno sferico con guida albero	Shaft guide pin	1
22	•	•	•	•	•	•	512-005-00812	Molla di carico corpo cilindri	Spring	1
23	•	•	•	•	•	•	542-001-00171	Anello guida molla	Spring guide ring	1
24	•	•	•	•	•	•	501-015-00028	Anello seeger	Retaining ring	1
25	•	•					500-029-15084	Gruppo corpo cilindri sede pistoni	Piston barrel assembly	1
			•	•			500-029-15108			
					•	•	500-029-15130			
26	•	•	•	•	•	•	506-000-12412	Guarnizione OR	O-Ring	1
27	•	•	•	•	•	•	517-002-01412	Corpo intermedio	Int. housing	1
28	•	•	•	•	•	•	115-006-00135	Tappo cieco	Blank plug	1
29	•	•	•	•	•	•	116-009-01200	Rondella rame	Copper washer	1
30	•	•	•	•	•	•	506-000-18520	Guarnizione OR	O-ring	1
31	•						500-029-90848	Gruppo corpo posteriore	Rear cover assembly	1
		•					500-029-90857			
			•				500-029-91089			
				•			500-029-91098			
					•		500-029-91301			
						•	500-029-91310			
32	•	•	•	•	•	•	501-020-00129	Rosetta elastica	Washer	4
33	•	•	•	•	•	•	502-005-00573	Vite TCE M12x45	Socket head capscrew	4

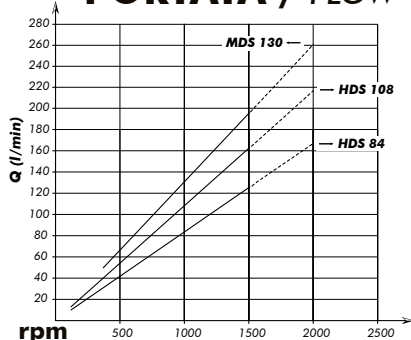
CARATTERISTICHE TECNICHE DI FUNZIONAMENTO / TECHNICAL FEATURES

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	18,2
HDS-108	107							
MDS-130	131.62	250	270					

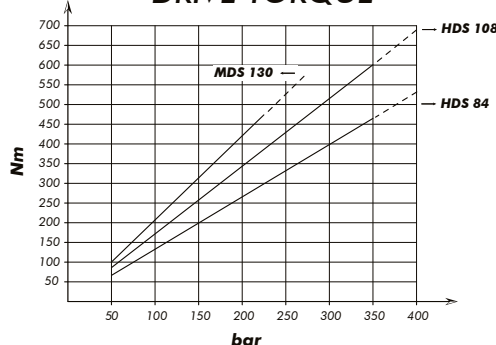
P1=Pressione massima continua Max. continuous pressure (100%)
P3=Pressione massima di punta Max. peak pressure (6 sec.max)

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

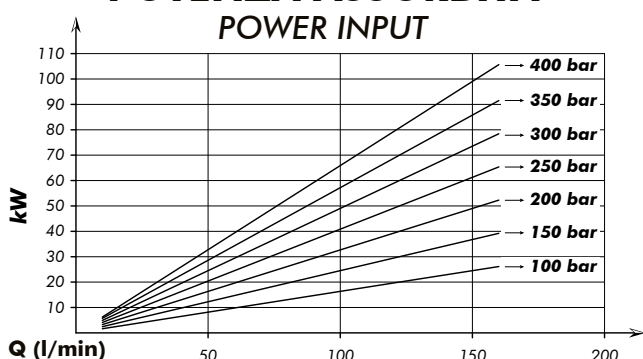
PORTATA / FLOW



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.		Velocità flusso Flow speed (m/s)
	mm	inch	
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.

Kit guarnizioni / Seal Kit 108-903-84009



MOMENTO PESO / MASS MOMENT

