

POMPE A PISTONI AD ASSE INCLINATO BENT AXIS PISTON PUMPS

CODICE FAMIGLIA 108-015/915
FAMILY CODE 108-016/916
108-907

"HDS" 84-108
"MDS" 130

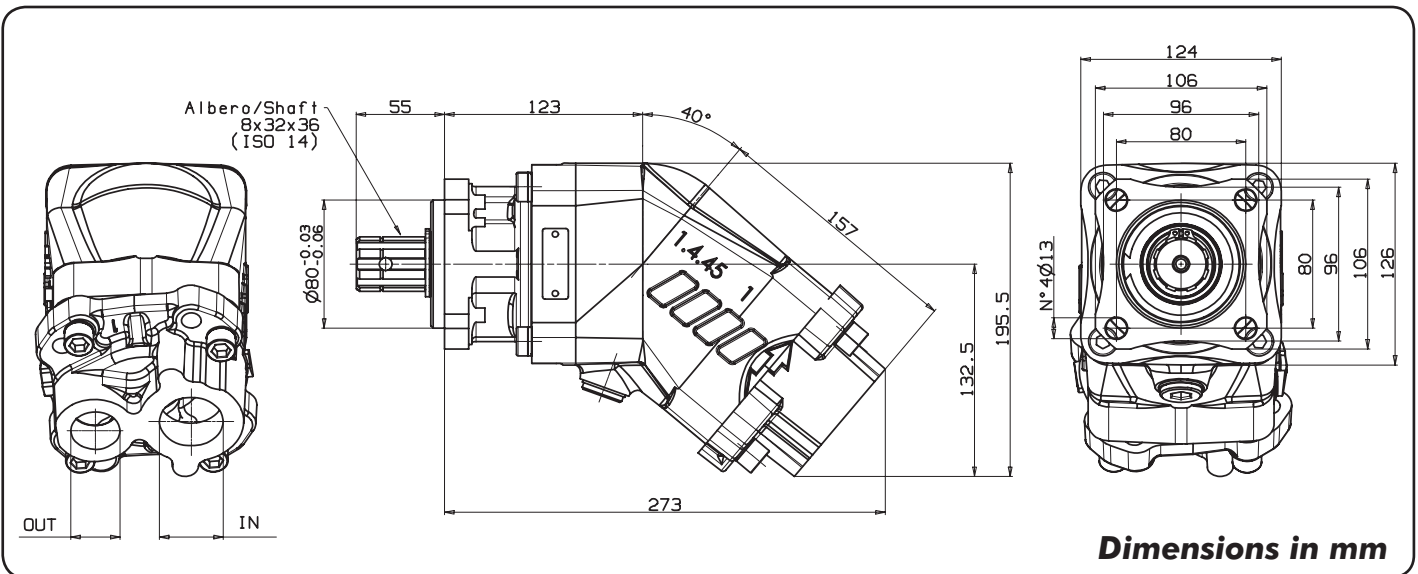
Codice foglio: 997-108-01520 Rev: AH



Fluido idraulico <i>Fluid</i>	Minerale o sintetico compatibile con guarnizioni: <i>Mineral or synthetic compatible with the following seals:</i> FKM, FPM, HNBR				
Viscosità cinematica consigliata <i>Kinematic viscosity suggested</i>	T media ambiente (°C) <i>Average ambient temp. (°C)</i>	< -40	-40 ÷ 10	10 ÷ 35	> 35
	VG (cSt = mm ² /s)	16	22	32	46
Viscosità cinematica ottimale di esercizio <i>Optimale kinematic viscosity</i>		VG = 10 cSt ÷ 100 cSt			
Viscosità cinematica max consentita all'avviamento <i>Max kinematic viscosity suggested at the start-up</i>		VG = 750 cSt			
Indice di viscosità consigliato <i>Viscosity index suggested</i>		VI > 100			
Grado di filtrazione <i>Oil filtering</i>		> 200 bar: 10 µm < 200 bar: 25 µm			
Pres. di aspirazione <i>Inlet pressure</i>		0,85 ÷ 2 bar assoluti/absolut			
Senso di rotazione <i>Pump rotation</i>		Unidirezionale (Dx o Sx) <i>Unidirectional (Right or Left)</i>			

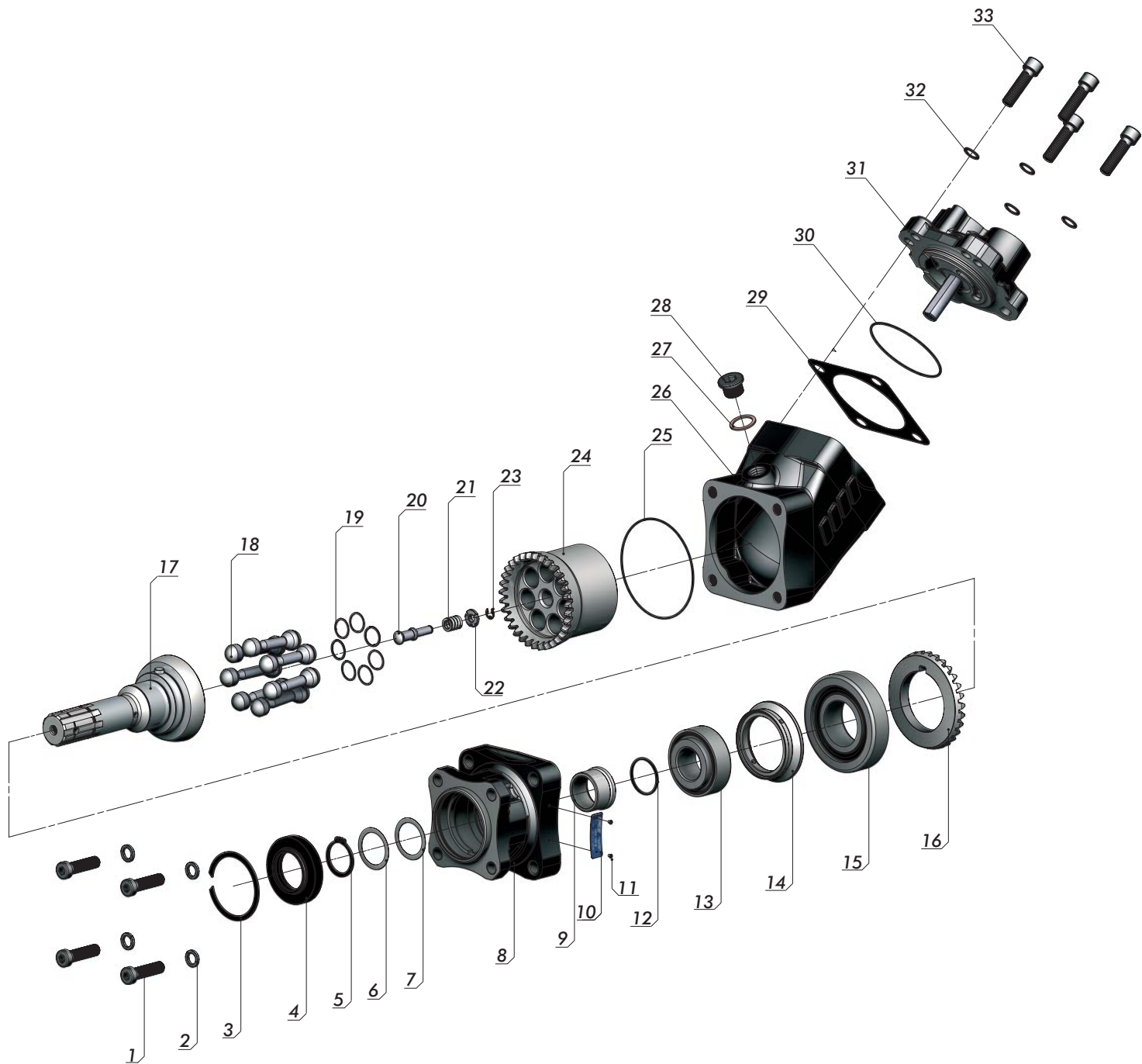
Verificare che la pompa sia posizionata almeno 100 mm sotto il livello minimo del serbatoio olio. Prima di avviare la pompa effettuare spurgo aria.
Verify that pump is, at least, 100 mm under the minimum level of the tank. Before starting the pump bleed the air.

Codice fascicolo: 997-400-10810 Rev: AN



Data: Giovedì 2 novembre 2006

Tipo pompa <i>Pump type</i>	Rotazione <i>Rotation</i>		IN	OUT	IN	OUT	Temp. di funzionamento <i>Working temperature</i>	
	Destra <i>Right</i>	Sinistra <i>Left</i>					min	max
HDS-84	108-015-08033	108-015-08042	ISO 228	ISO 228	SAE 24	SAE 16	-15°C	200°C
	108-915-08034	108-915-08043	G 1 1/4	G 1			-40°C	140°C
	108-907-00845	108-907-00854			1 7/8-12	1 5/16-12	-15°C	200°C
HDS-108	108-015-10833	108-015-10842	G 1 1/2	G 1			-15°C	200°C
	108-915-10834	108-915-10843					-40°C	140°C
	108-907-01086	108-907-01095			1 7/8-12	1 5/16-12	-15°C	200°C
MDS-130	108-016-01306	108-016-01315	G 1 1/2	G 1			-15°C	200°C
	108-916-01307	108-916-01316					-40°C	140°C
	108-907-11306	108-907-11315			1 7/8-12	1 5/16-12	-15°C	200°C



COMPANY
WITH QUALITY SYSTEM
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ISO 9001/2000

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O.M.F.B. S.p.A. Hydraulic Components
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N° N°	HDS 84			HDS 108			MDS 130			Codice P. Number	Descrizione Description	Quantità Quantity	
	GAS	SAE	GAS -40°C	GAS	SAE	GAS -40°C	GAS	SAE	GAS -40°C				
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	•		•	•	•	•	•		•	506-021-42726	Paraolio	Oil seal	1
			•	•	•	•	•		•	506-000-24272			
5	•		•	•	•	•	•		•	501-000-01355	Anello seeger rinforzato	Retaining ring	1
6	•		•	•	•	•	•		•	529-007-00217	Rondella	Spacers	2
7	•		•	•	•	•	•		•	529-007-00226	Rondella	Spacers	2
8	•		•	•	•	•	•		•	517-002-00628	Corpo anteriore	Front body	1
9	•		•	•	•	•	•		•	511-002-00200	Bussola	Bushing	1
10	•		•	•	•	•	•		•	513	Targhetta completa	Plate	1
11	•		•	•	•	•	•		•	513-000-00011	Chiodino fissaggio targhetta	Plate nail	2
12	•		•	•	•	•	•		•	506-006-03137	Guarnizione OR	O-ring	1
			•	•	•	•	•		•	506-000-13137			
13	•		•	•	•	•	•		•	510-002-00364	Cuscinetto	Ball bearing	1
14	•		•	•	•	•	•		•	530-004-00182	Anello distanziale cuscinetti	Bearing spacer ring	1
15	•		•	•	•	•	•		•	510-002-00355	Cuscinetto	Ball bearing	1
16	•		•	•	•	•	•		•	525-011-00111	Corona dentata	Crown	1
17	•		•	•	•	•	•		•	522-005-00179	Albero	Shaft	1
			•	•	•	•	•		•	532-005-00034			
18	•		•	•	•	•	•		•	532-005-00070	Pistone sferico	Piston	7
			•	•	•	•	•		•	532-005-00105			
			•	•	•	•	•		•	501-023-00037			
19	•		•	•	•	•	•		•	501-023-00055	Fasce elastiche	Spring rings	21
			•	•	•	•	•		•	501-023-00117			
			•	•	•	•	•		•	542-001-00162			
20	•		•	•	•	•	•		•	542-001-00162	Perno sferico con guida albero	Shaft guide pin	1
21	•		•	•	•	•	•		•	512-005-00812	Molla di carico corpo cilindri	Spring	1
22	•		•	•	•	•	•		•	542-001-00171	Anello guida molla	Spring guide ring	1
23	•		•	•	•	•	•		•	501-015-00028	Anello seeger	Retaining ring	1
24	•		•	•	•	•	•		•	517-003-00092	Corpo cilindri sede pistoni	Piston barrel	1
			•	•	•	•	•		•	517-003-00145			
			•	•	•	•	•		•	517-003-00172			
25	•		•	•	•	•	•		•	506-006-00305	Guarnizione	Gasket	1
			•	•	•	•	•		•	506-000-12412			
26	•		•	•	•	•	•		•	517-002-00806	Corpo intermedio	Int. body	1
27	•		•	•	•	•	•		•	116-009-01200	Rondella rame	Copper washer	1
28	•		•	•	•	•	•		•	115-006-00135	Tappo cieco	Blank plug	1
29	•		•	•	•	•	•		•	507-000-00274	Guarnizione compensazione gioco	Backlash gasket	1
30	•		•	•	•	•	•		•	506-006-08521	Guarnizione OR	O-ring	1
			•	•	•	•	•		•	506-000-18520			
31	•		•	•	•	•	•		•	517-002-00780	Corpo posteriore	Rear cover	1
			•	•	•	•	•		•	517-002-00842			
			•	•	•	•	•		•	517-002-00799			
			•	•	•	•	•		•	517-002-00851			
			•	•	•	•	•		•	517-002-00897			
		•	•	•	•	•		•	517-002-00904				
32	•		•	•	•	•	•		•	501-008-00063	Rosetta elastica	Washer	4
33	•		•	•	•	•	•		•	502-005-00573	Vite TCE M12x45	Socket head capscrew	4

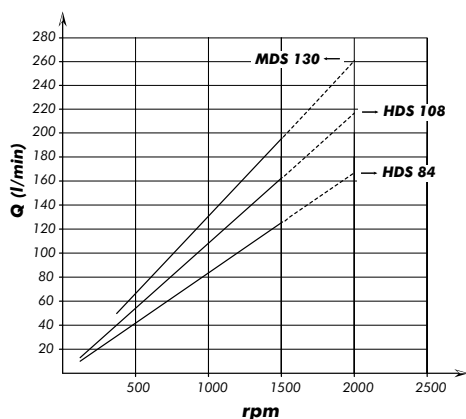
CARATTERISTICHE TECNICHE DI FUNZIONAMENTO

TECHNICAL FEATURES

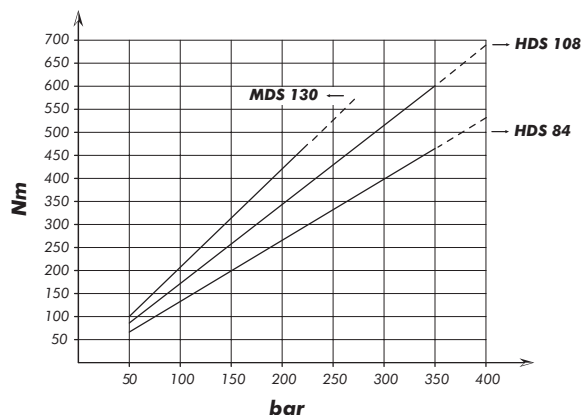
Tipo pompa Pump type	Cilindrata Displacement cm ³ /rev	Pressione Pressure			Velocità max. continua Max. continuous speed rpm	Velocità max. intermittente Max. intermittent speed rpm	Velocità min. Min. speed rpm	Peso Weight kg
		P1 bar	P2 bar	P3 bar				
HDS-84	84,33	350	370	400	1500	2000	300	
HDS-108	107							
MDS-130	131,62	250	260	270	1500	2000	300	

P1=Pressione max.continua Max. continuous pressure (100%)
P2=Pressione max. intermittente Max. Intermittent pressure (20 sec.max.)
P3=Pressione max. di punta Max. peak pressure (6 sec.max.)

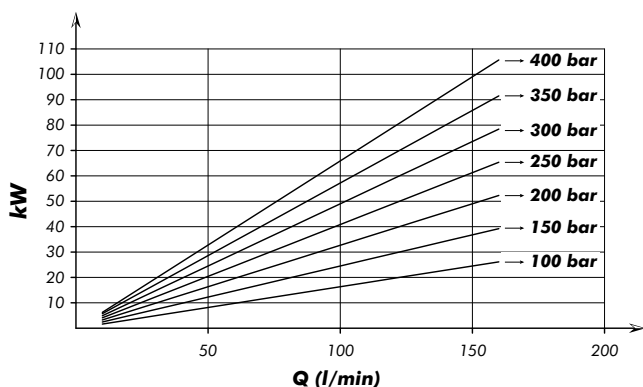
PORTATA FLOW



COPPIA ASSORBITA DRIVE TORQUE



POTENZA ASSORBITA POWER INPUT



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

Q	Ø interno min. tubo Min pipe diam.		Velocità flusso Flow speed (m/s)
	mm	inch	
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

GAS	108-903-84009
SAE	
GAS -40°	108-903-84018