

**POMPE A PISTONI  
AD ASSE INCLINATO  
BENT AXIS PISTON PUMPS**

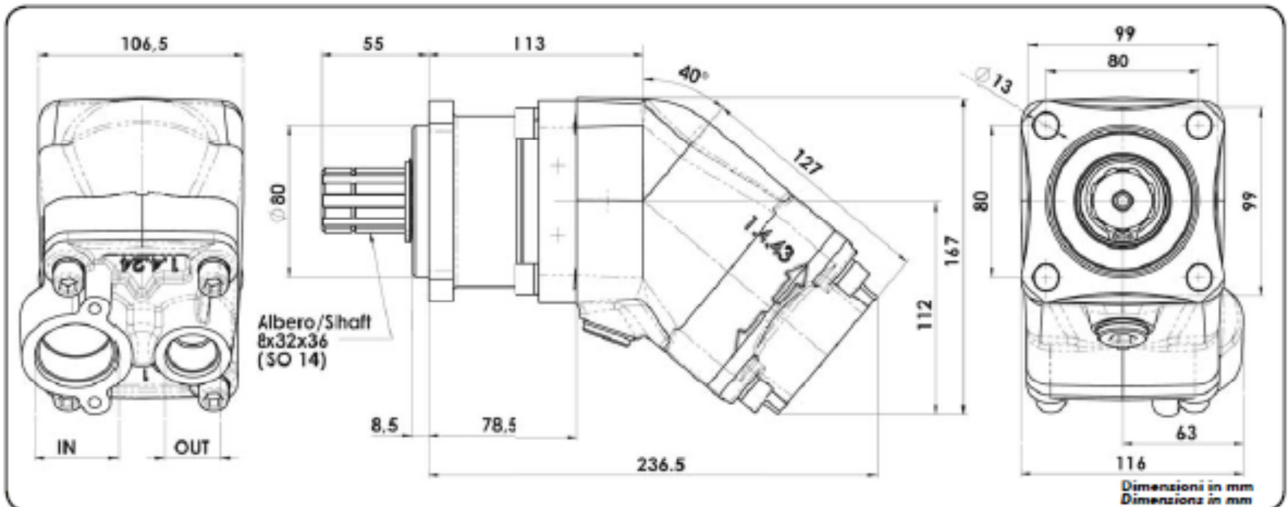
**CODICE FAMIGLIA**  
FAMILY CODE

**108-015  
108-016  
108-907**

**"HDS" 40-47-55-64  
"MDS" 80**



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 <sup>2</sup> /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.					



Tipo pompa Pump type	Rotazione Rotation		IN ISO 228	OUT ISO 228	IN SAE 20	OUT SAE 12
	Destra Right	Sinistra Left				
HDS-40	108-015-04037	108-015-04046	G 1 1/4"	G 3/4"		
	108-907-00407	108-907-00416			1 5/8-12	1 1/16-12
HDS-47	108-015-04733	108-015-04742	G 1 1/4"	G 3/4"		
	108-907-00470	108-907-00489			1 5/8-12	1 1/16-12
HDS-55	108-015-05536	108-015-05545	G 1 1/4"	G 3/4"		
	108-907-00550	108-907-00569			1 5/8-12	1 1/16-12
HDS-64	108-015-06035	108-015-06044	G 1 1/4"	G 3/4"		
	108-907-00649	108-907-00658			1 5/8-12	1 1/16-12
MDS-80	108-016-00807	108-016-00816	G 1 1/4"	G 3/4"		
	108-907-00809	108-907-00818			1 5/8-12	1 1/16-12

HDS: 40-47-55-64  
MDS: 80

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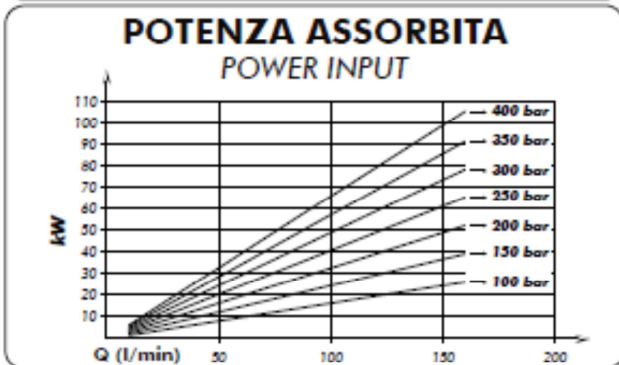
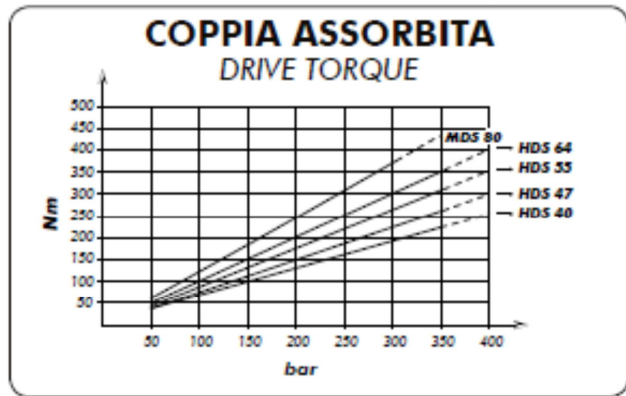
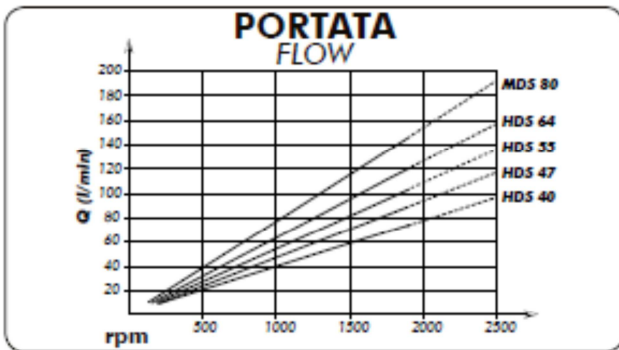
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**CARATTERISTICHE TECNICHE DI FUNZIONAMENTO / TECHNICAL FEATURES**

Tipo pompa Pump type	Cilindrata Displacement cm <sup>3</sup> /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	13,2
HDS-47	47.13							
HDS-55	56.70							
HDS-64	63.56							
MDS-80	77.25	250	300	2300	1800	2100		

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

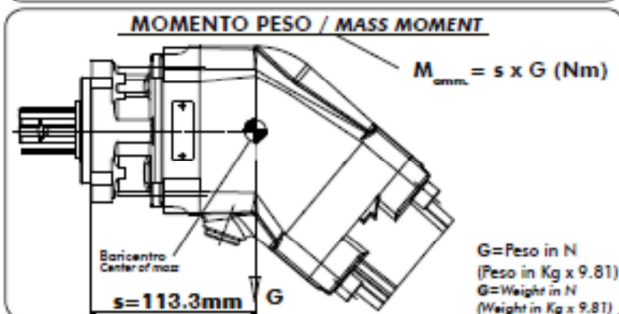
V0 = Max. continua vuoto    Max. continuous speed without load  
V1 = Max. continua    Max. continuous speed  
V2 = Max. intermittente    Max. intermittent speed



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

Q Portata Flow l/min	∅ 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**  
108-903-47648