

POMPE A PISTONI AD ASSE INCLINATO BENT AXIS PISTON PUMPS

CODICE FAMIGLIA
FAMILY CODE

606-002

"HDS"

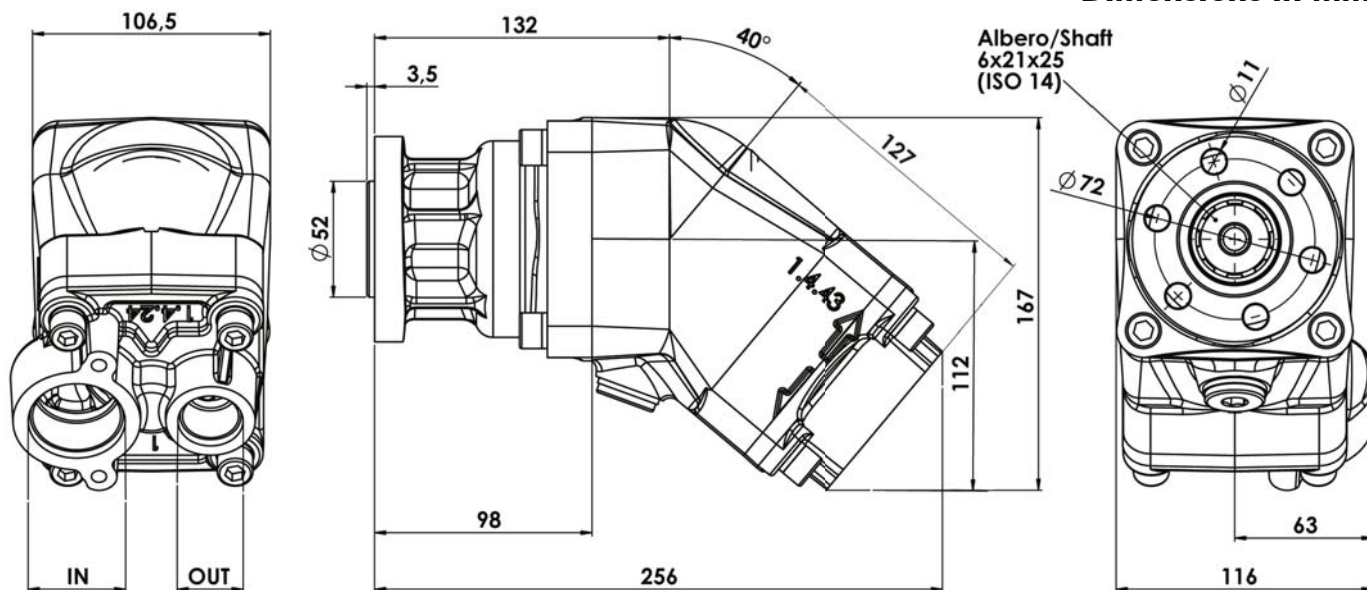
Flangia/Flange
Albero/Shaft
Cilin./Displ.

UNI
ISO14 6x21x25
40-47-55-64



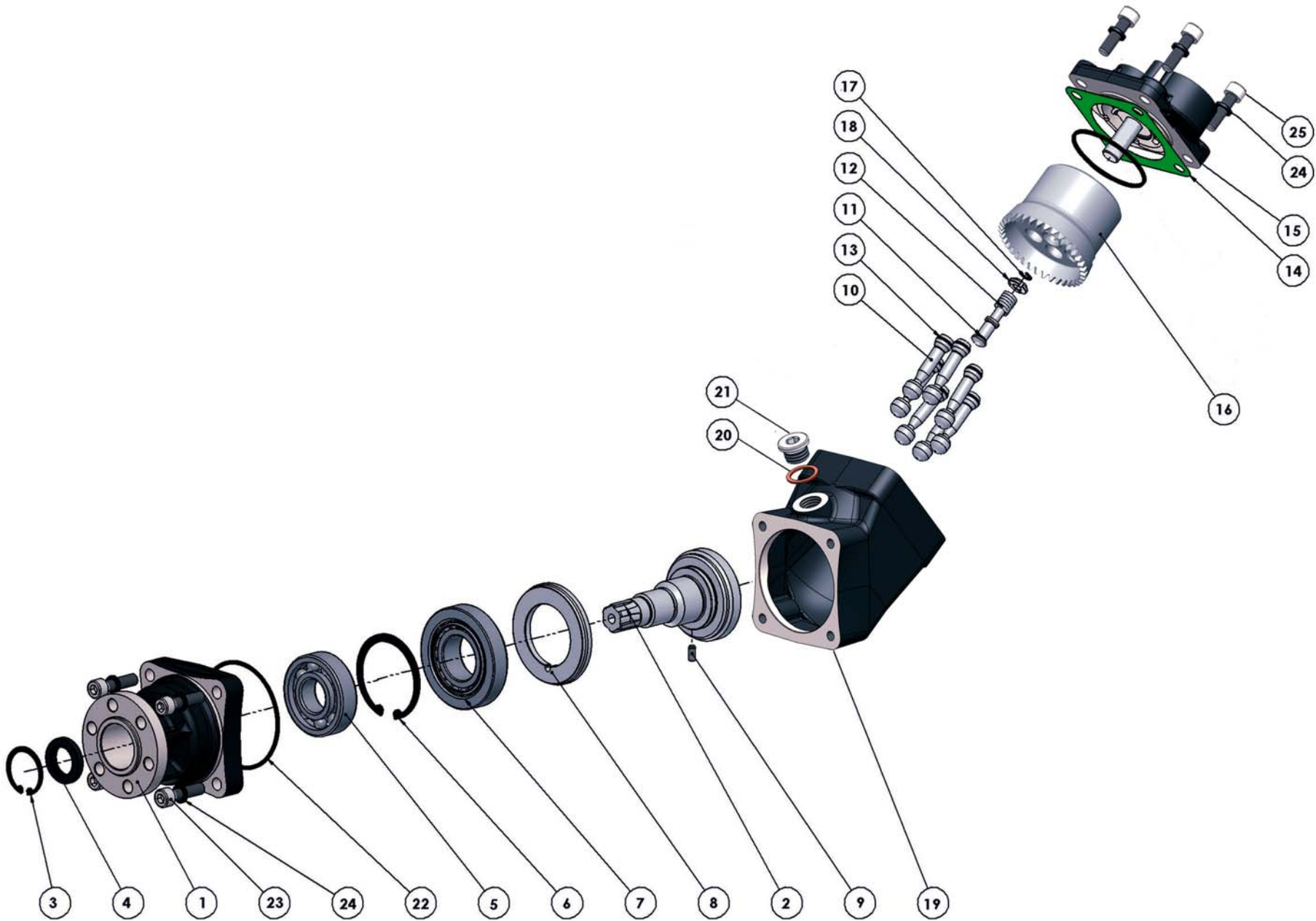
Fluido idraulico Fluid	Minerale o sintetico compatibile con guarnizioni: Mineral or synthetic compatible with the following seals: FKM, FPM, HNBR				
Viscosità cinematica consigliata Kinematic viscosity suggested	T media ambiente (°C) Average ambient temp. (°C)	< -40	-40 ÷ 10	10 ÷ 35	> 35
	VG (cSt = 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		
			-15°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



Tipo pompa Pump type	Rotazione Rotation		IN ISO 228	OUT ISO 228	IN SAE	OUT SAE
	Destra Right	Sinistra Left				
HDS-40	606-002-10403	606-002-10409	G 1 1/4"	G 3/4"		
HDS-47	606-002-10473	606-002-10479				
HDS-55	606-002-10553	606-002-10559				
HDS-64	606-002-10643	606-002-10649				

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

O.M.F.B. S.p.A. Hydraulic Components
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N°	HDS 40	HDS 47	HDS 55	HDS 64	Codice P. Number	Descrizione Description	Q.
1	•	•	•	•	517-002-01752	Corpo anteriore Front housing	1
2	•	•	•	•	522-005-00400	Albero Shaft	1
3	•	•	•	•	501-001-00373	Anello seeger 40l Seeger 40l	1
4	•	•	•	•	506-024-25401	Paraolio GAP 25x40x7 Oil seal GAP 25x40x7	1
5	•	•	•	•	510-001-00221	Cuscinetto a sfere Ball bearing	1
6	•	•	•	•	501-001-00677	Anello seeger 72l Seeger 72l	1
7	•	•	•	•	510-002-00275	Cuscinetto a rulli conici Tapered roller bearing	1
8	•	•	•	•	525-011-00255	Corona dentata Crown	1
9	•	•	•	•	501-003-06142	Spina UNI 6364-A Ø6x14 Pin UNI 6364-A Ø6x14	1
10	•				532-005-00285	Pistone sferico Piston	7
		•			532-005-00025		
			•		532-005-00114		
				•	532-005-00016		
11	•	•	•	•	542-001-00162	Perno sferico con guida albero Shaft guide pin	1
12	•	•	•	•	512-005-00812	Molla di carico corpo cilindri Spring	1
13	•				501-023-00064	Fasce elastiche Spring rings	21
		•			501-023-00046		
			•		501-023-00126		
				•	501-023-00019		
14	A	A	A	A	507-000-00229	Guarnizione piatta Gasket	1
	A	A	A	A	507-000-00532		
15	•				500-029-90400	Gruppo corpo posteriore Rear cover assembly	1
		•			500-029-90473		
			•		500-029-90553		
				•	500-029-90642		
16	•				500-029-16040	Gruppo corpo cilindri sede pistoni Piston barrel assembly	1
		•			500-029-16047		
			•		500-029-16055		
				•	500-029-16064		
17	•	•	•	•	501-015-00028	Anello seeger RS 6 DIN 6799 Retaining ring RS 6 DIN 6799	1
18	•	•	•	•	542-001-00171	Anello guida molla Spring guide ring	1
19	•	•	•	•	517-002-01421	Corpo intermedio Interm. housing	1
20	•	•	•	•	116-009-10129	Rondella acciaio/gomma 1/2" Washer 1/2"	1
21	•	•	•	•	115-006-00135	Tappo cieco 1/2" DIN 908 Blank plug 1/2" DIN 908	
22	•	•	•	•	506-000-13350	Guarnizione OR 3350 HNBR O-Ring 3350 HNBR	1
23	•	•	•	•	502-004-00574	Vite TCE M 10x40 UNI 5931 Socket head capscrew M 10x40 UNI 5931	4
24	•	•	•	•	501-008-00054	Rosetta elastica x M10 DIN 7980 Washer x M10 DIN 7980	8
25	•	•	•	•	502-004-00565	Vite TCE M10x35 UNI 5931 Socket head capscrew M10x30 UNI 5931	4

A = alternative

606-002

SCHEMA RICAMBI POMPE A PISTONI HDS UNI 40-47-55-64
HDS UNI PISTON PUMP 40-47-55-64 SERIES SPARE PARTS

"HDS"

CARATTERISTICHE TECNICHE DI FUNZIONAMENTO / TECHNICAL FEATURES

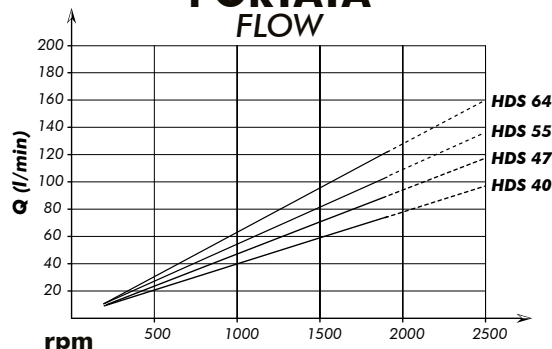
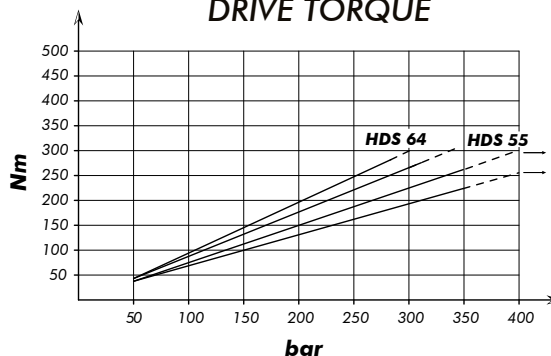
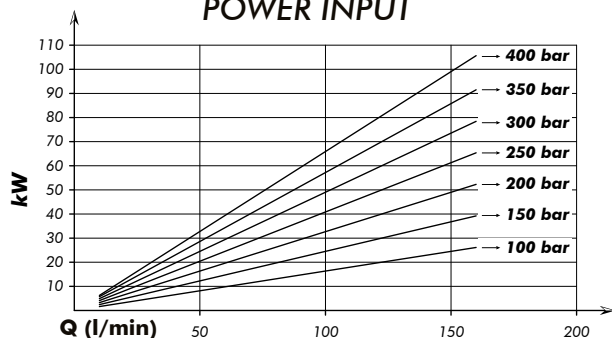
Tipo pompa Pump type	Cilindrata Displacement cm ³ /rev	Pressione Pressure		Velocità / Speed			Velocità min. Min. speed rpm	Peso Weight kg
		P1 bar	P3 bar	V0 rpm	V1 rpm	V2 rpm		
HDS-40	41.25	350	400	2700	1900	2500	300	11,3
HDS-47	47.13							11,7
HDS-55	56.70	320	340					11,6
HDS-64	63.56	280	300					11,4

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

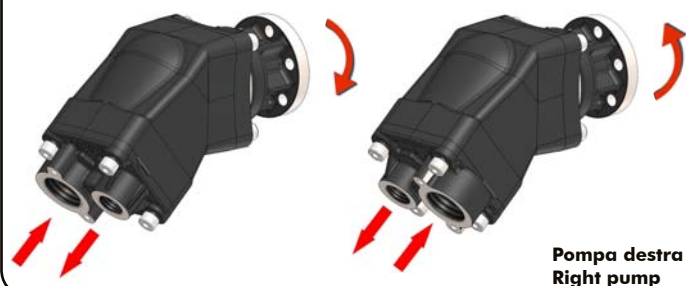
Max. continuous pressure (100%)
Max. peak pressure (6 sec.max)

V0=Massima continua vuoto
V1=Massima continua
V2=Massima intermittente

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

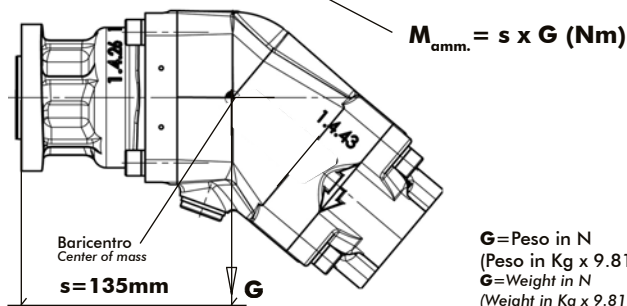
PORTATA
FLOWCOPPIA ASSORBITA
DRIVE TORQUEPOTENZA ASSORBITA
POWER INPUT

Pompa sinistra
Left pump



Pompa destra
Right pump

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	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

GAS

108-903-48647