POMPE A PISTONI AD ASSE INCLINATO
BENT AXIS PISTON PUMPS

CODICE FAMIGLIA / *FAMILY CODE* **601001 603001**

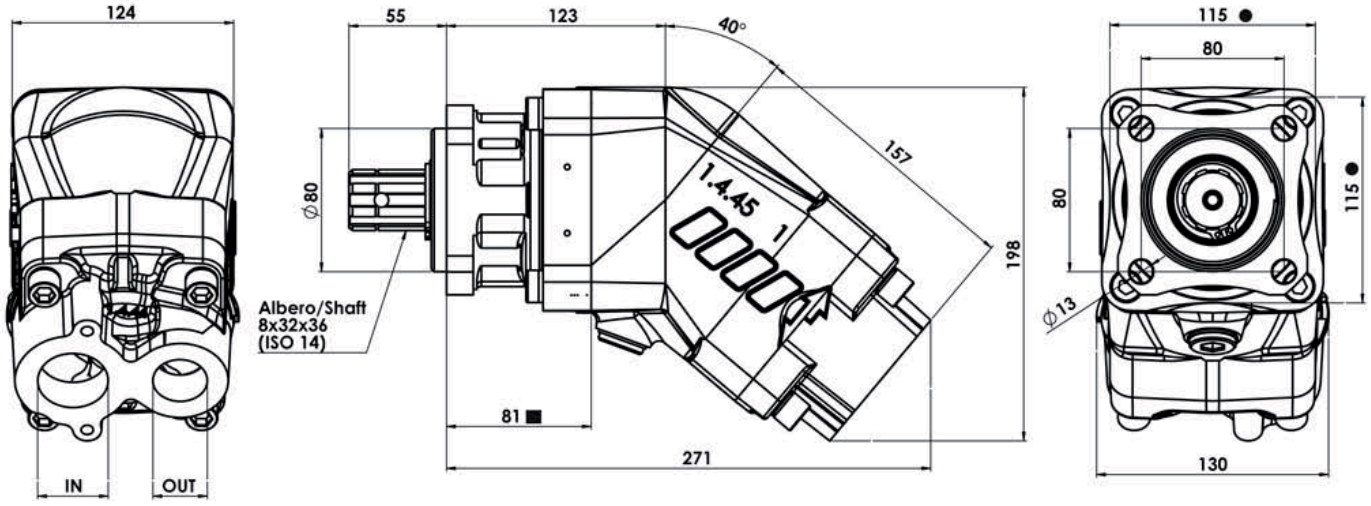
"HDS" **"MDS"**

Flangia/*Flange* **ISO**
Albero/*Shaft* **ISO14 8x32x36**
Cilin./*Displ.* **84-108-120-130**

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.

Dimensions in mm



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

Tipo pompa *Pump type*	Rotazione / *Rotation* Destra / *Right*	Rotazione / *Rotation* Sinistra / *Left*	IN ISO 228	OUT ISO 228
HDS-84	60100110843	60100110849	G 1 1/4"	G 1"
HDS-108	60100111083	60100111089	G 1 1/2"	
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 = IATF 16949 =

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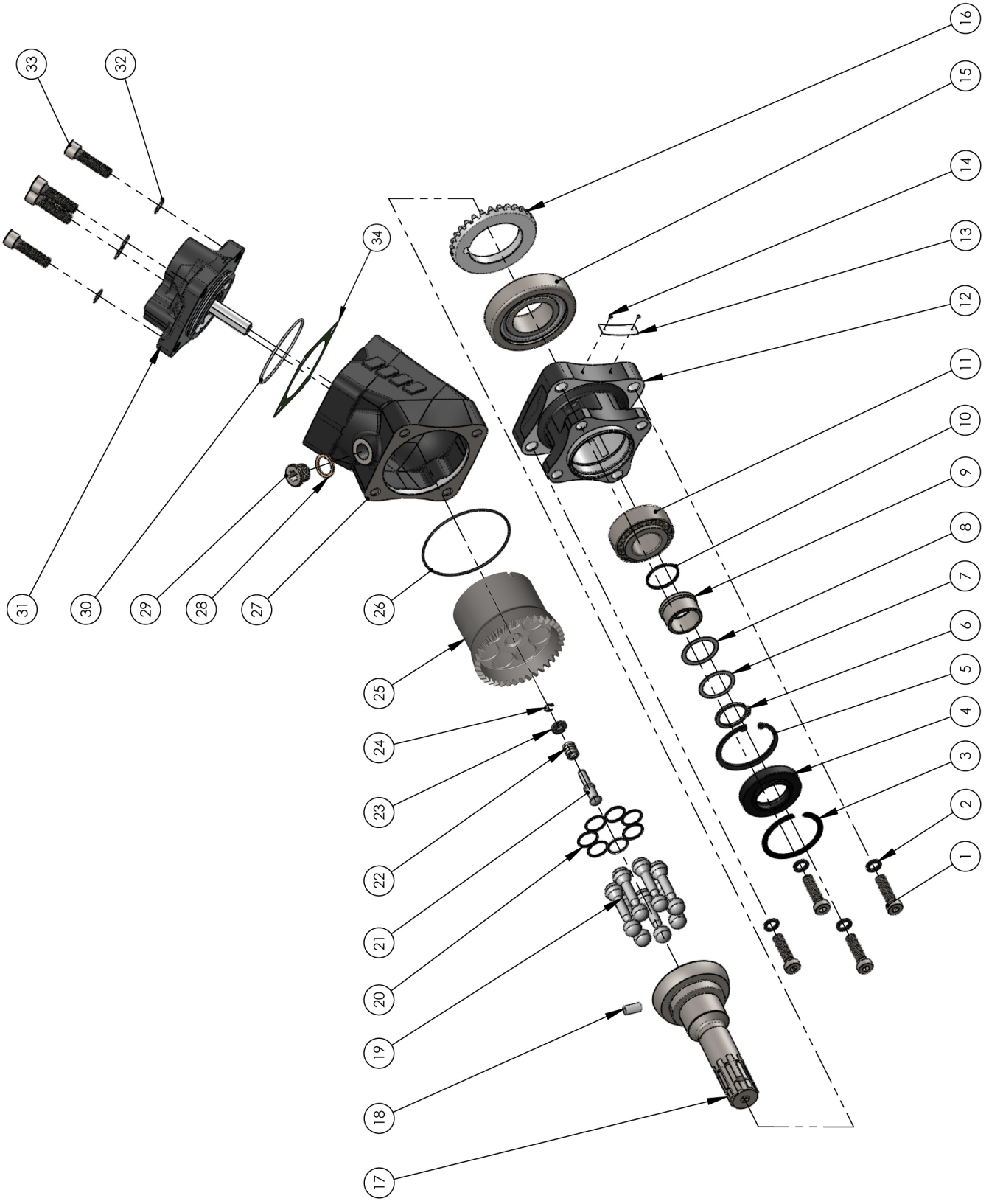
11/05/2021
99760101520 Rev: AD



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OMFB HYDRAULIC COMPONENTS

N°	HDS 84 GAS	HDS 84 SAE	HDS 108 GAS	HDS 108 SAE	HDS 130 GAS	HDS 130 SAE	MDS 120 GAS	MDS 120 SAE	MDS 130 GAS	MDS 130 SAE	Codice/*Code*	Descrizione / *Description*		Q.tà/*Q.ty*
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
					•	•					*51000200357*			
16	•	•	•	•	•	•	•	•	•	•	*52501100273*	Corona dentata	*Crown*	1
17	•	•	•	•	•	•			•	•	*52200500562*	Albero	*Shaft*	1
							•	•			*52200500955*			
18	•	•	•	•	•	•	•	•	•	•	*50100306142*	Spina UNI 6364	*Pin UNI 6364*	1
19	•	•									*53200500034*	Pistone sferico	*Piston*	7
			•	•							*53200500070*			
					•	•	•	•	•	•	*53200500105*			
20	•	•									*50102300037*	Fasce elastiche	*Spring rings*	21
			•	•							*50102300055*			
					•	•	•	•	•	•	*50102300117*			
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	•	•									*50002916084*	Gruppo corpo cilindri sede pistoni	*Piston barrel assembly*	1
			•	•							*50002916108*			
					•	•	•	•	•	•	*50002916130*			
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	•										*50002990848*	Gruppo corpo posteriore	*Rear cover assembly*	1
		•									*50002990857*			
			•								*50002991089*			
				•							*50002991098*			
					•		•		•		*50002991301*			
						•		•		•	*50002991310*			
32	•	•	•	•	•	•	•	•	•	•	*50102000129*	Rosetta elastica	*Washer*	4
33	•	•	•	•	•	•	•	•	•	•	*50200500573*	Vite TCE M12x45	*Socket head capscrew*	4

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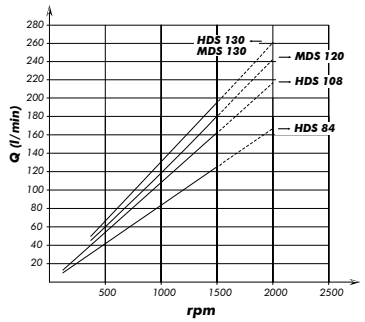
CARATTERISTICHE TECNICHE DI FUNZIONAMENTO / *TECHNICAL FEATURES*

Tipo pompa *Pump type*	Cilindrata *Displacement*	Pressione *Pressure*		Velocità / *Speed*			Velocità min. *Min. speed*	Peso *Weight*
		P1	P3	V0	V1	V2		
	cm^3/rev	bar	bar	rpm	rpm	rpm	rpm	kg
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

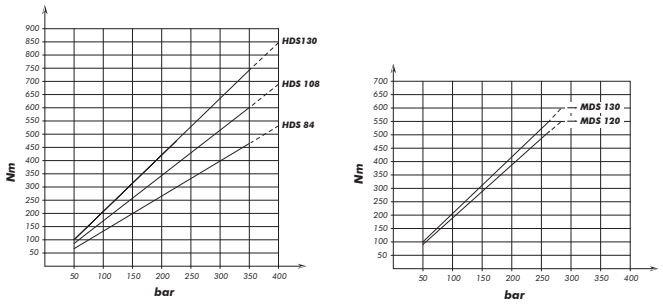
P1=Pressione massima continua *Max. continuous pressure* (100%)
P3=Pressione massima di punta *Max. peak pressure* (6 sec.max)

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

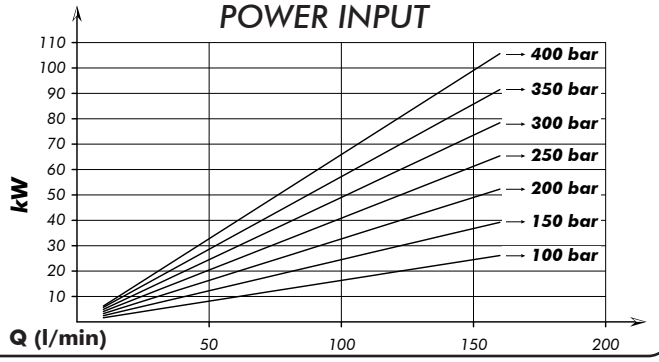
PORTATA / *FLOW*

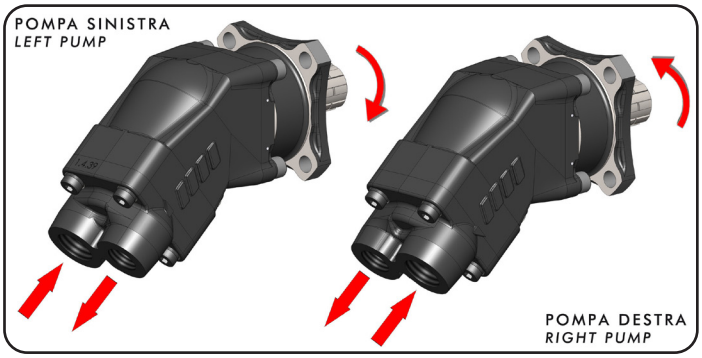


COPPIA ASSORBITA / *DRIVE TORQUE*



POTENZA ASSORBITA
POWER INPUT



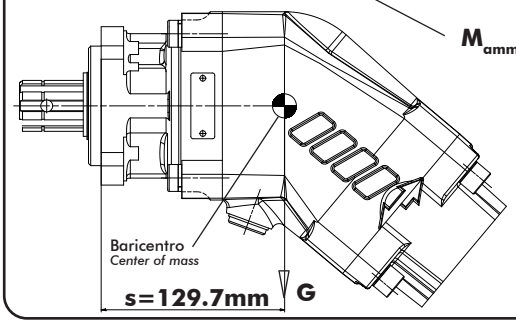


SCELTA DEL TUBO DI ASPIRAZIONE
HOW TO CHOOSE THE SUCTION PIPE SIZE

Q Portata *Flow*	interno min. tubo *Min pipe diam.*		Velocità flusso *Flow speed*
l/min	mm	inch	(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.

MOMENTO PESO / *MASS MOMENT*



G=Peso in N
(Peso in Kg x 9.81)
G=*Weight in N*
(Weight in Kg x 9.81)

Kit guarnizioni / *Seal Kit*
10890384009

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9974006001O 11/05/2021 Rev: AD
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