VERSIONS CODING

SERIES AND FLANGE TYPE			SHAFT			PORTS	DISPLACEMENT			VARIANTS

Series	Flange type	OMFB code
HDS	ISO 7653 4 fori Ø80	601
HDT		602
MDS		603
TWIN-FLOW		604
HDS	UNI 3 FORI	606
	SAE B 2 fori	611
	SAE B 4 fori	612
	SAE B 2 fori / 4 fori	613
	SAE C 4 fori	614

Shaft type	OMFB code
DIN 5462 8x32x36 (ISO 14)	001
UNI 6x21x25	002
1 3/8" ASAE Z6	003
SAE B - 13T 16/32	074
SAE BB - 15T 16/32	077
SAE C - 14T 12/24	080

Ports	OMFB code
BSPP (GAS)	1
UNF	5

Displacement	OMFB code
12	012
17	017
25	025
34	034
40	040
47	047
55	055
64	064
75	075
80	080
84	084
96	096
108	108
130	130
53+53	505
70+35	703
70+53	705
76+76	767

Rotation	OMFB code
RIGHT	3
LEFT	9

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

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OMFB HYDRAULIC COMPONENTS

POMPE A PISTONI AD ASSE INCLINATO
BENT AXIS PISTON PUMPS

"HDT"

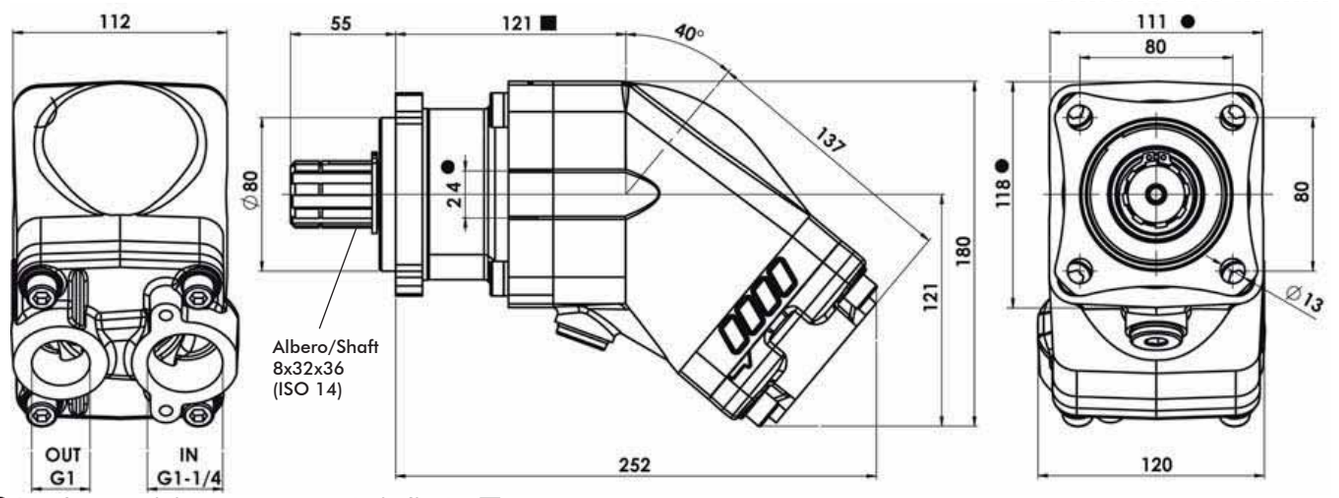
CODICE FAMIGLIA *FAMILY CODE* **602001**

Flangia/*Flange* **ISO**
Albero/*Shaft* **ISO14 8x32x36**
Cilin./*Displ.* **75-84-96-108**

Fluido idraulico *Fluid*	Minerale o sintetico compatibile con guarnizioni: *Mineral or synthetic compatible with the following seals:* HNBR				
Temp. consentita *Allowed temperature*	-40 +140 °C				
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				
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	OUT
			ISO 228	ISO 228
HDT-75	60200110753	60200110759	G 1 1/4"	G 1"
HDT-84	60200110843	60200110849		
HDT-96	60200110963	60200110969		
HDT-108	60200111083	60200111089		
			ISO 725	ISO 725
HDT-75	60200150753	60200150759	1 5/8-12 UN-2B *SAE 20*	1 5/16-12 UN-2B *SAE 16*
HDT-84	60200150843	60200150849		
HDT-96	60200150963	60200150969		
HDT-108	60200151083	60200151089		

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99760201301 Rev: AA

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

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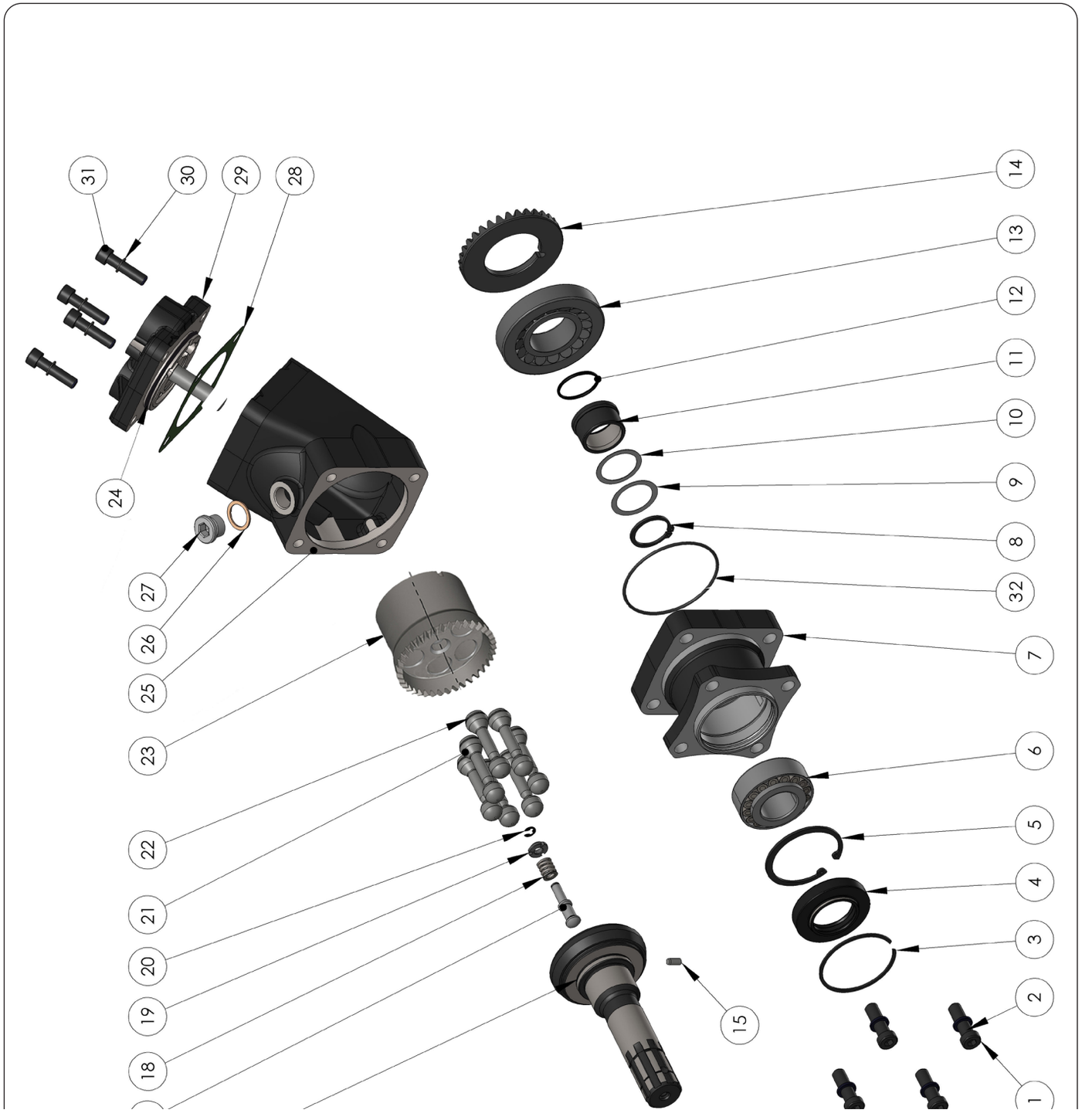
Fax: +39.030.9839207-208 Internet:www.omfb.it e-mail:contatti@omfb.it

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



HDT 96 GAS	HDT 96 SAE	HDT 108 GAS	HDT 108 SAE	Codice / *Code*	Descrizione / *Description*		Q.
•	•	•	•	*50200500564*	Vite TCE M 12x40	*Socket head capscrew*	4
•	•	•	•	*50102000129*	Rosetta elastica	*Washer*	4
•	•	•	•	*50100002729*	Anello elastico	*Circlip*	1
•	•	•	•	*50600024272*	Paraolio	*Oil seal*	1
•	•	•	•	*50100100677*	Anello elastico	*Circlip*	1
•	•	•	•	*51000200220*	Cuscinetto a rulli conici	*Tapered roller bearing*	1
•	•	•	•	*51700201707*	Corpo anteriore	*Front housing*	1
•	•	•	•	*50100001355*	Anello seeger	*Retaining ring*	1
•	•	•	•	*52900700226*	Rondella	*Washer*	1
•	•	•	•	*52900701127*	Rondella	*Washer*	1
•	•	•	•	*51100200200*	Bussola	*Bushing*	1
•	•	•	•	*50600013137*	Guarnizione OR 3137 HNBR	*O-ring* 3137 HNBR	1
•	•	•	•	*51000200294*	Cuscinetto a rulli conici	*Tapered roller bearing*	1
•	•	•	•	*52501100282*	Corona dentata	*Crown*	1
•	•	•	•	*50100306142*	Spina UNI 6364-A	*Pin UNI 6364-A*	1
•	•	•	•	*52200500375*	Albero	*Shaft*	1
•	•	•	•	*54200100162*	Perno sferico con guida albero	*Shaft guide pin*	1
•	•	•	•	*51200500812*	Molla di carico corpo cilindri	*Spring*	1
•	•	•	•	*54200100171*	Anello guida molla	*Spring guide ring*	1
•	•	•	•	*50101500028*	Anello seeger	*Retaining ring*	1
				53200500294	Pistone sferico	*Piston*	7
				53200500034			
•	•			*53200500276*			
		•	•	*53200500070*			
				50102300019	Fasce elastiche	*Spring rings*	21
				50102300037			
•	•			*50102300091*			
		•	•	*50102300055*			
				50002916075	Gruppo corpo cilindri sede pistoni	*Piston barrel assembly*	1
				50002916085			
•	•			*50002916096*			
		•	•	*50002916109*			
•	•	•	•	*50600013300*	Guarnizione OR 3300 HNBR	*O-Ring* 3300 HNBR	1
•	•	•	•	*51700201458*	Corpo intermedio	*Int. housing*	1
•	•	•	•	*11600910129*	Rondella acciao/gomma 1/2	*Steel/rubber washer 1/243*	1
•	•	•	•	*11500600135*	Tappo cieco	*Blank plug*	1
A	A	A	A	*50700000381*	Guarnizione piatta	*Gasket*	1
A	A	A	A	*50700000489*			
				50002980751	Gruppo corpo posteriore	*Rear cover assembly*	1
				50002980760			
				50002980859			
				50002980868			
•				*50002980966*			
	•			*50002980975*			
		•		*50002981107*			
			•	*50002981116*			
•	•	•	•	*50102000101*	Rosetta SCHNORR	SCHNORR *Washer*	4
•	•	•	•	*50200400574*	Vite TCE M10x45	*Socket head capscrew*	4
•	•	•	•	*50600012387*	Guarnizione OR 2387 HNBR	*O-ring* 2387 HNBR	1

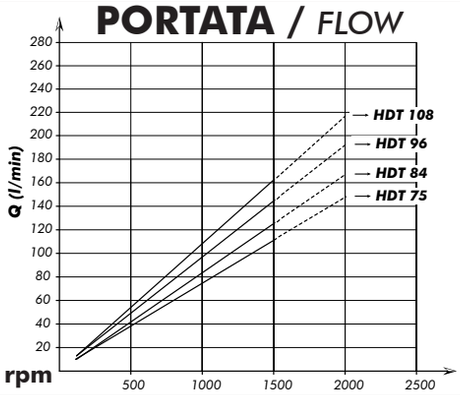
CARATTERISTICHE TECNICHE DI FUNZIONAMENTO / *TECHNICAL FEATURES*

Tipo pompa *Pump type*	Cilindrata *Displacement*	Pressione *Pressure*		Velocità / *Speed*			Velocità min. *Min. speed*	Peso *Weight*
	cm³/rev	P1 bar	P3 bar	V0 rpm	V1 rpm	V2 rpm	rpm	kg
HDT-75	75,5	350	370	2300	1500	2000	300	14,9
HDT-84	84,2							14,7
HDT-96	95.5							14,7
HDT-108	107							14,5

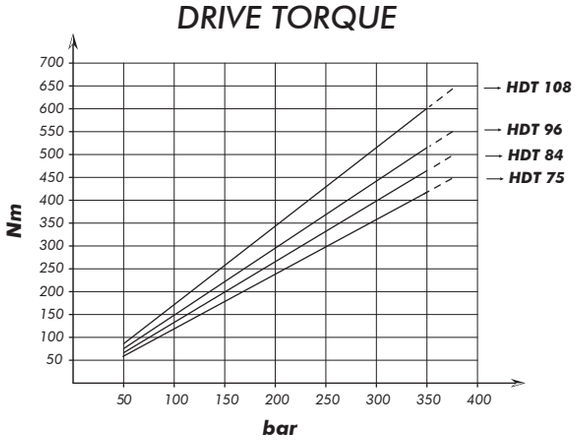
P1=Pressione massima continua *Max. continuous pressure* (100%)
P3=Pressione massima di punta *Max. peak pressure* (6 sec.max)

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

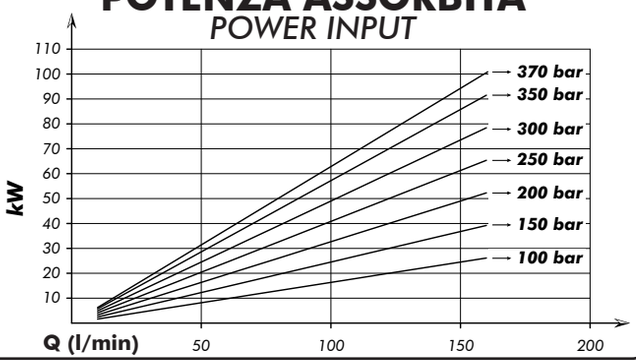
PORTATA / *FLOW*



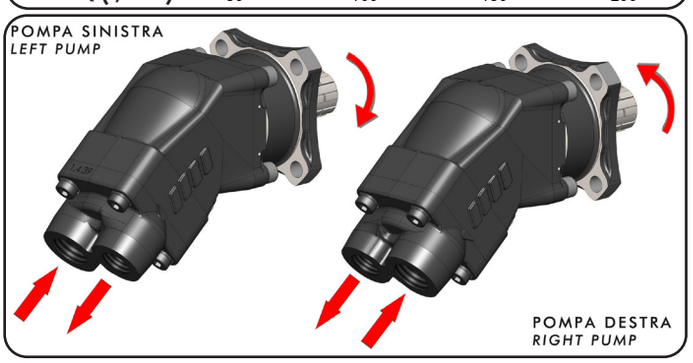
COPPIA ASSORBITA
DRIVE TORQUE



POTENZA ASSORBITA
POWER INPUT



Kit guarnizioni / *Seal Kit*
10890385008

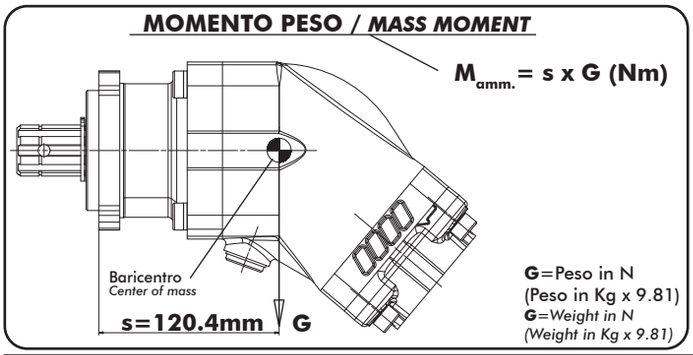


SCELTA DEL TUBO DI ASPIRAZIONE
HOW TO CHOOSE THE SUCTION PIPE SIZE

Q Portata *Flow*	Ø 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*



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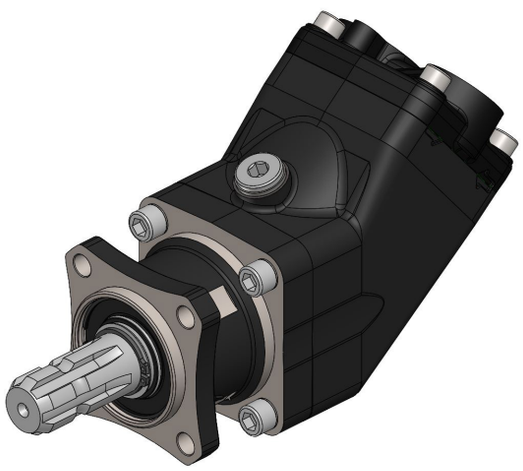
POMPE A PISTONI AD ASSE INCLINATO
BENT AXIS PISTON PUMPS

"HDT"

CODICE FAMIGLIA *FAMILY CODE* **602003.....F**

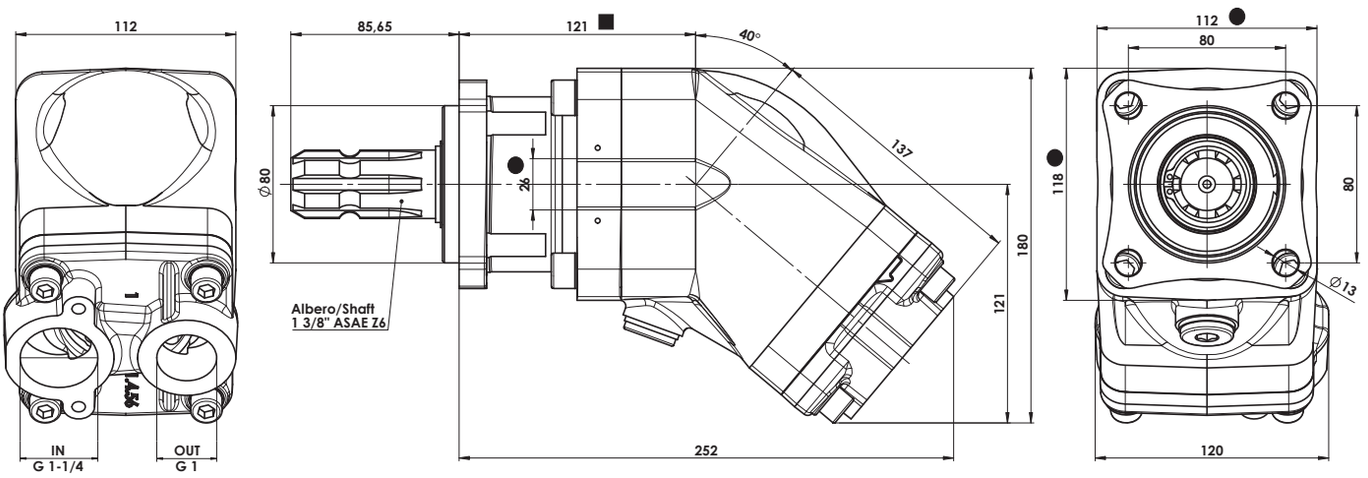
Flangia/*Flange* **ISO**
Albero/*Shaft* **ASAE 1"3/8**
Cilindrata/*Displacement* **84-108**



Fluido idraulico *Fluid*	Minerale o sintetico compatibile con guarnizioni: *Mineral or synthetic compatible with the following seals:* HNBR				
Temp. consentita *Allowed temperature*	-40 +140 °C				
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				
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 sinistra *Unidirectional 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 sinistra *Left rotation*	IN ISO 228	OUT ISO 228
HDT-84	60200310849F	G 1-1/4	G 1
HDT-108	60200311089F		

Nota: la pompa ha senso di rotazione fisso (suffisso F nel codice). Non è possibile invertire il senso di rotazione ruotando il corpo posteriore.

***ATTENTION**: the pump has fixed sense of rotation (suffix F on part number). It is **NOT POSSIBLE** to change pump rotation by turning rear-body as in standard version!*

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

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

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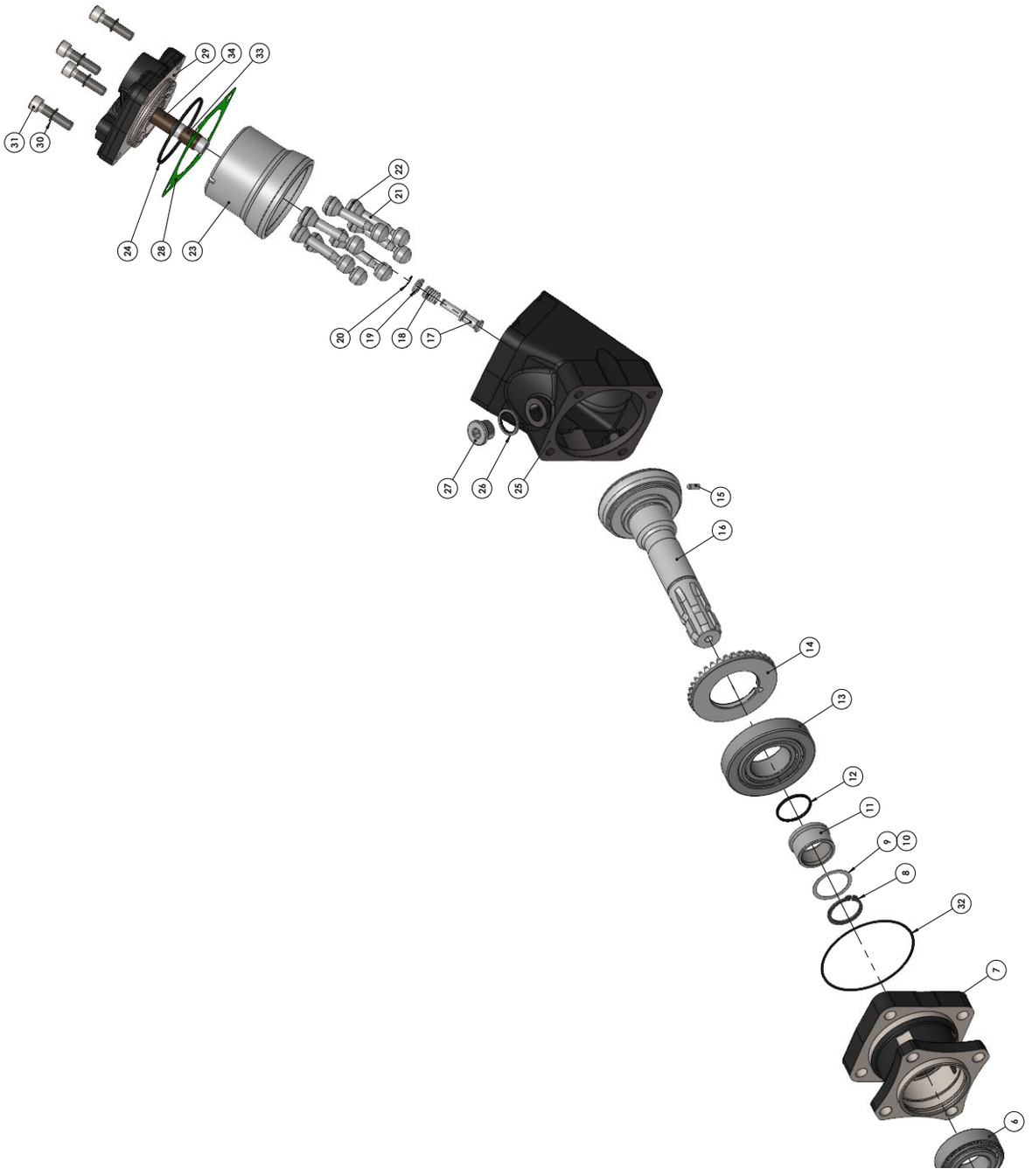
99760200310 Rev: AA



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31/05/2023

T 84	**HDT 108**	**Codice** / *Code*	**Descrizione** / *Description*		**Q.**
•	•	50200500564	Vite TCE M 12x40	*Socket head capscrew*	4
•	•	50102000129	Rosetta elastica	*Washer*	4
•	•	50100002729	Anello elastico	*Circlip*	1
•	•	50600024272	Paraolio	*Oil seal*	1
•	•	50100100677	Anello elastico	*Circlip*	1
•	•	51000200220	Cuscinetto a rulli conici	*Tapered roller bearing*	1
•	•	51700201707	Corpo anteriore	*Front housing*	1
•	•	50100001355	Anello seeger	*Retaining ring*	1
•	•	52900700226	Rondella	*Washer*	1
•	•	52900701127	Rondella	*Washer*	1
•	•	51100200200	Bussola	*Bushing*	1
•	•	50600013137	Guarnizione OR 3137 HNBR	*O-ring 3137 HNBR*	1
•	•	51000200294	Cuscinetto a rulli conici	*Tapered roller bearing*	1
•	•	52501100282	Corona dentata	*Crown*	1
•	•	50100306142	Spina UNI 6364-A	*Pin UNI 6364-A*	1
•	•	52200500446	Albero	*Shaft*	1
•	•	54200100162	Perno sferico con guida albero	*Shaft guide pin*	1
•	•	51200500812	Molla di carico corpo cilindri	*Spring*	1
•	•	54200100171	Anello guida molla	*Spring guide ring*	1
•	•	50101500028	Anello seeger	*Retaining ring*	1
•		53200500034	Pistone sferico	*Piston*	7
	•	53200500070			
•		50102300037	Fasce elastiche	*Spring rings*	21
	•	50102300055			
•		51700300734	Gruppo corpo cilindri sede pistoni	*Piston barrel assembly*	1
	•	51700300752			
•	•	50600013300	Guarnizione OR 3300 HNBR	*O-Ring 3300 HNBR*	1
•	•	51700201458	Corpo intermedio	*Int. housing*	1
•	•	11600910129	Rondella acciao/gomma 1/2	*Steel/rubber washer 1/243*	1
•	•	11500600135	Tappo cieco	*Blank plug*	1
A	A	50700000381	Guarnizione piatta 0,3mm	*Gasket*	1
A	A	50700000489	Guarnizione piatta 0,5mm		
•		50002980877	Gruppo corpo posteriore (sinistro)	*Rear cover assembly (left)*	1
	•	50002981125			
•	•	50102000101	Rosetta SCHNORR	*SCHNORR Washer*	4
•	•	50200400574	Vite TCE M10x45	*Socket head capscrew*	4
•	•	50600012387	Guarnizione OR 2387 HNBR	*O-ring 2387 HNBR*	1
•	•	53300400328	Boccola DU 16x18x25	*Bushing*	1
•	•	53300400337	Boccola DU 16x18x20	*Bushing*	1

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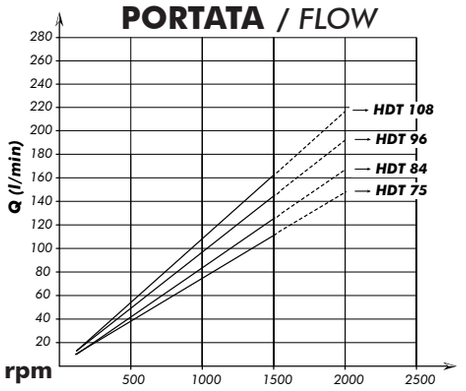
CARATTERISTICHE TECNICHE DI FUNZIONAMENTO / *TECHNICAL FEATURES*

Tipo pompa *Pump type*	Cilindrata *Displacement*	Pressione *Pressure*		Velocità / *Speed*			Velocità min. *Min. speed*	Peso *Weight*
	cm³/rev	P1 bar	P3 bar	V0 rpm	V1 rpm	V2 rpm	rpm	kg
HDT-84	84,2	350	370	2300	1500	2000	300	15
HDT-108	107							

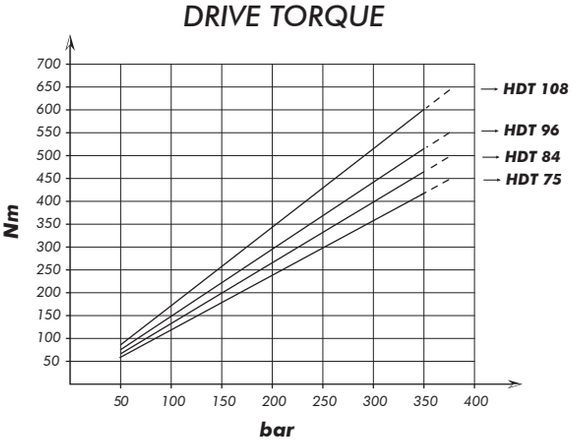
P1=Pressione massima continua *Max. continuous pressure* (100%)
P3=Pressione massima di punta *Max. peak pressure* (6 sec.max)

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

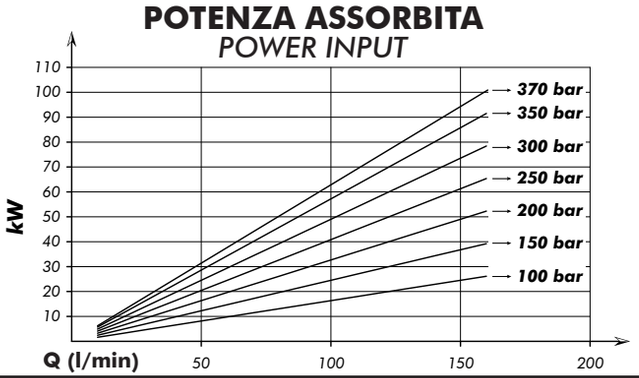
PORTATA / *FLOW*



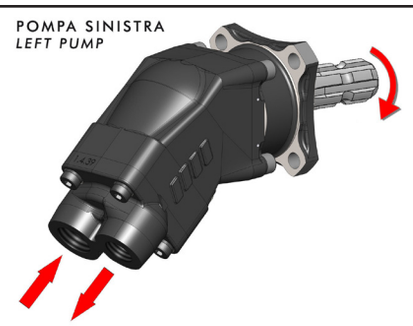
COPPIA ASSORBITA
DRIVE TORQUE



POTENZA ASSORBITA
POWER INPUT



Kit guarnizioni / *Seal Kit*
10890385008

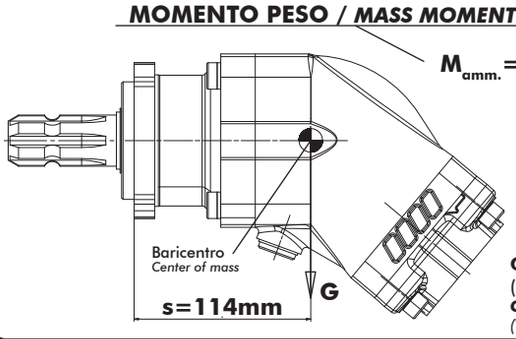


SCELTA DEL TUBO DI ASPIRAZIONE
HOW TO CHOOSE THE SUCTION PIPE SIZE

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 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)

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31/05/2023
9976020031O Rev: AA