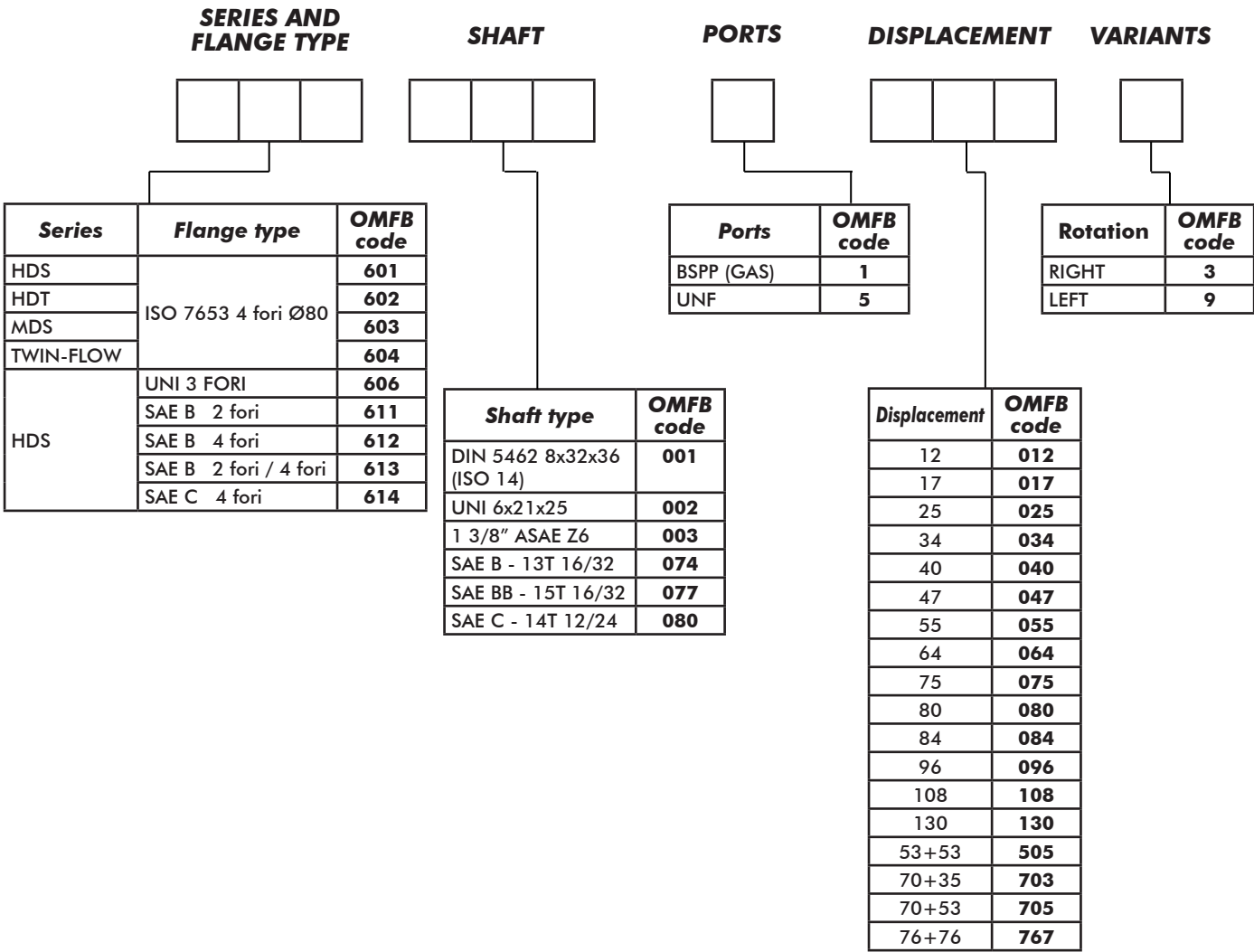


PISTON PUMPS
RANGE

"HDS" "MDS"
"HDT"

VERSIONS CODING



99740060010

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

CODICE FAMIGLIA
FAMILY CODE

601001

"HDS"

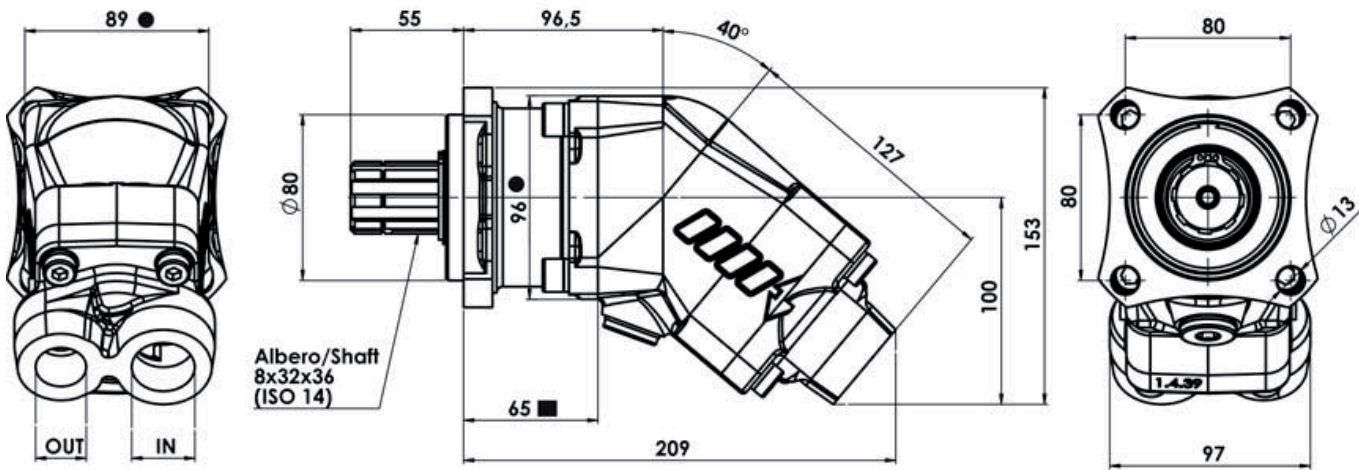
Flangia/Flange
Albero/Shaft
Cilin./Displ.

ISO
ISO14 8x32x36
12-17-25-34



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

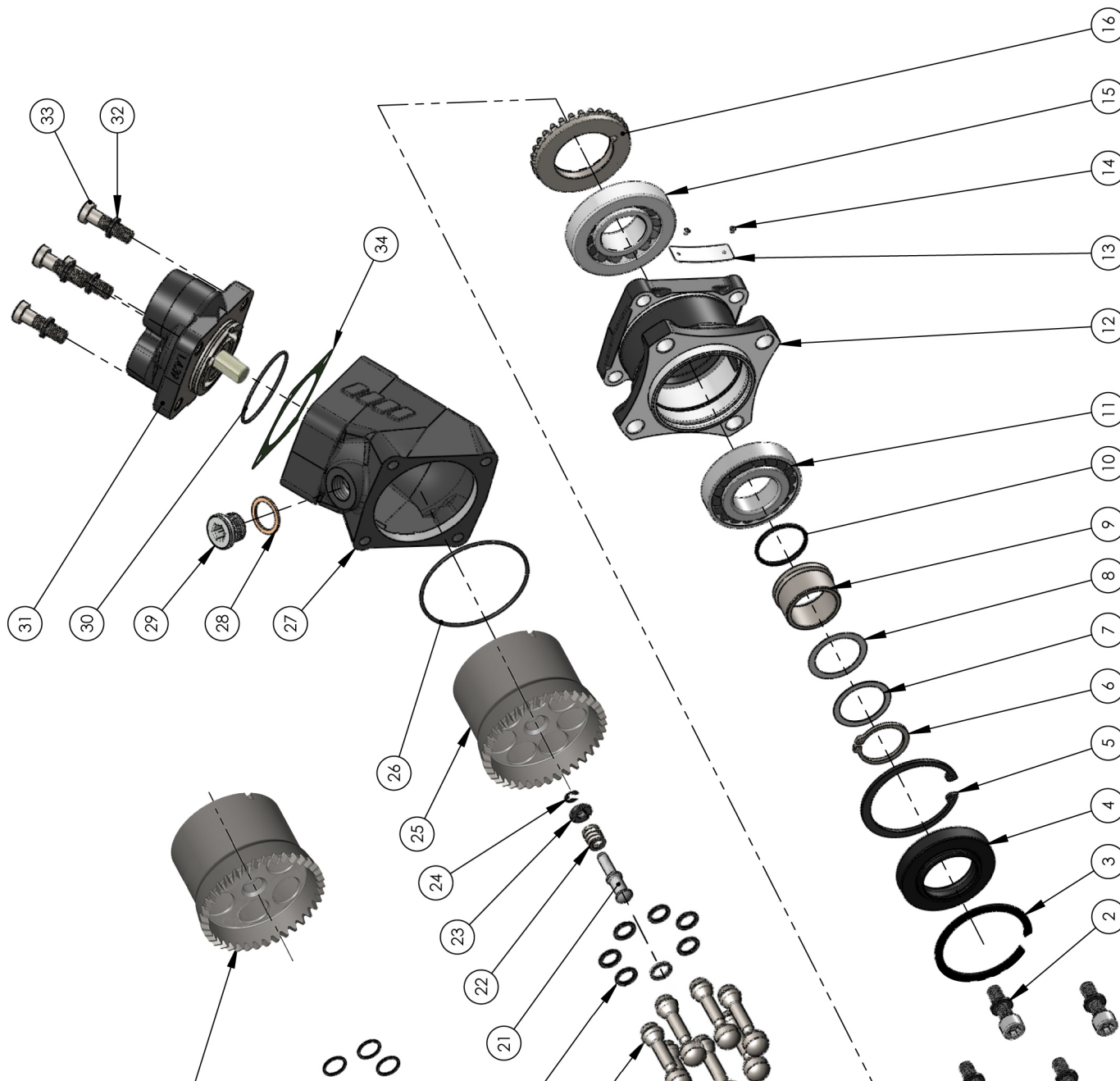
Tipo pompa Pump type	Rotazione Rotation		IN	OUT	IN	OUT
	Destra Right	Sinistra Left				
HDS-12	60100110123	60100110129	ISO 228 G 1	ISO 228 G 3/4	SAE	SAE
HDS-17	60100110173	60100110179	G 1	G 3/4		
HDS-25	60100110253	60100110259	G 1	G 3/4		
HDS-34	60100110343	60100110349	G 1	G 3/4		

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QUALITY SYSTEM
CERTIFIED BY DNV GL
= IATF 16949 =**



99740060010

30/03/2016

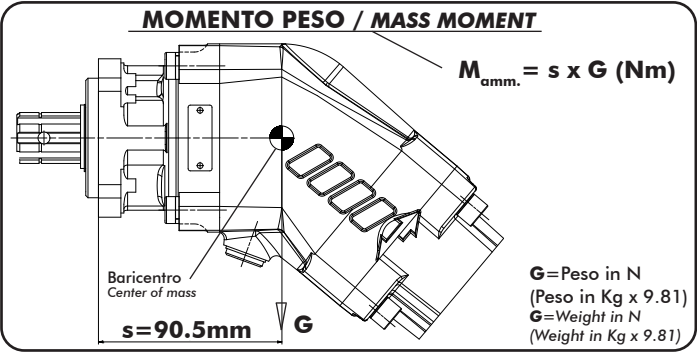
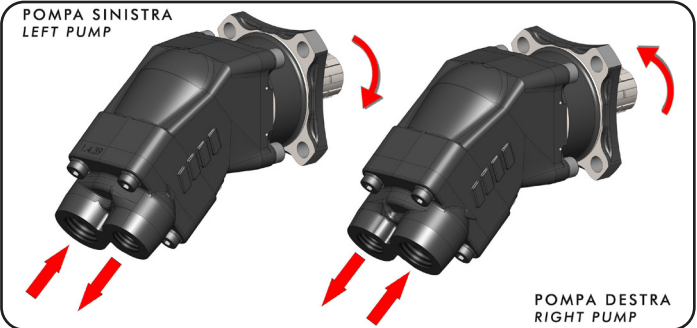
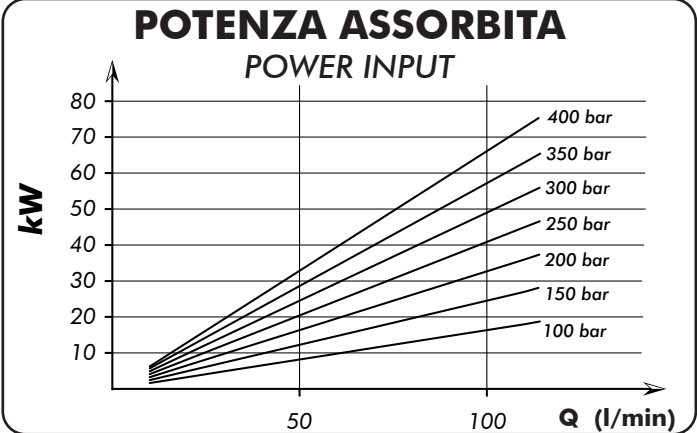
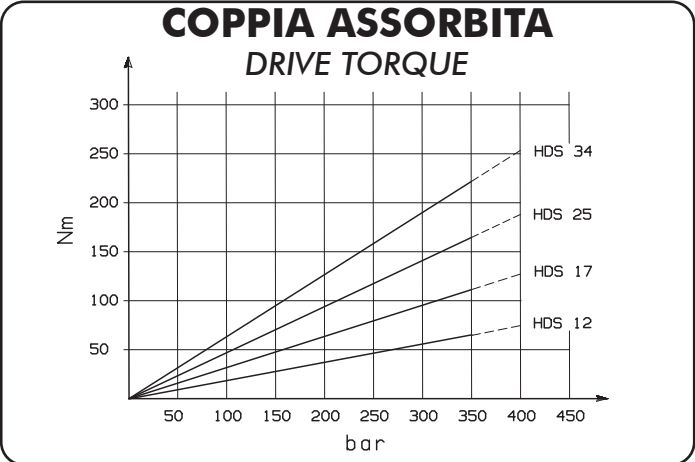
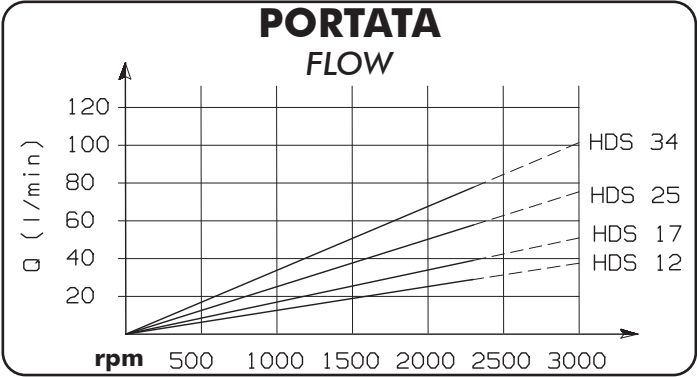
HDS 25 GAS	HDS 34 GAS	Codice P. Number	Descrizione Description	Q.tà Q.ty
•	•	50200400565	Vite TCE M. 10x35	4
•	•	50100800054	Rosetta elastica	4
•	•	50100002729	Anello elastico	1
•	•	50600024272	Paraolio	1
•	•	50100100677	Anello elastico	1
•	•	50100001355	Anello seeger rinforzato	1
•	•	52900701127	Rondella	2
•	•	52900700226	Rondella	2
•	•	51100200200	Bussola	1
•	•	50600013137	Guarnizione OR	1
•	•	51000200211	Cuscinetto a rulli conici	1
•	•	51700201154	Corpo anteriore	1
•	•	513	Targhetta completa	1
•	•	51300000011	Chiodino fiss. targhetta	2
•	•	51000200373	Cuscinetto a rulli conici	1
•	•	52501100264	Corona dentata	1
•	•	52200500357	Albero	1
•	•	52200500268	Albero	1
•	•	50100306142	Spina UNI 6364	1
•	•	53200500061	Pistone sferico	7
•	•	53200500052	Pistone sferico	5
•	•	53200500061	Pistone sferico	5
•	•	50102300064	Fasce elastiche	21
•	•	50102300073	Fasce elastiche	15
•	•	50102300064	Fasce elastiche	15
•	•	50102300073	Fasce elastiche	15
•	•	54200100313	Perno sferico con guida albero	1
•	•	54200100162	Perno sferico con guida albero	1
•	•	51200501651	Molla di carico corpo cilindri	1
•	•	51200500812	Molla di carico corpo cilindri	1
•	•	54200100322	Anello guida molla	1
•	•	54200100171	Anello guida molla	1
•	•	50101500046	Anello seeger	1
•	•	50101500028	Anello seeger	1
•	•	50002916034	Gruppo corpo cilindri	1
•	•	50002916025	sede pistoni	1
•	•	50002916017	sede pistoni	1
•	•	50002916012	sede pistoni	1
•	•	50600018020	Guarnizione OR	1
•	•	51700200717	Corpo intermedio	1
•	•	11600910129	Rondella rame	1
•	•	11500600135	Tappo cieco	1
•	•	50600012224	Guarnizione OR	1
•	•	50002980340	Guarnizione OR	1
•	•	50002980251	Guarnizione OR	1
•	•	50002980171	Gruppo corpo posteriore	1
•	•	50002980126	Gruppo corpo posteriore	1
•	•	50102000101	Rosetta elastica	4
•	•	50200400556	Vite TCE M10x30	4
A	A	50700000256	Guarnizione piastra	1
A	A	50700000523	Guarnizione piastra	1

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-12	12.62	350	400	3000	2300	3000	300	8.8
HDS-17	16.98							8.6
HDS-25	25.12							8,8
HDS-34	33.80							8,6

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



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.

Kit guarnizioni / Seal Kit
10890325340

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POMPE A PISTONI
AD ASSE INCLINATO
BENT AXIS PISTON PUMPS

CODICE FAMIGLIA
FAMILY CODE

601001
603001

"HDS"
"MDS"

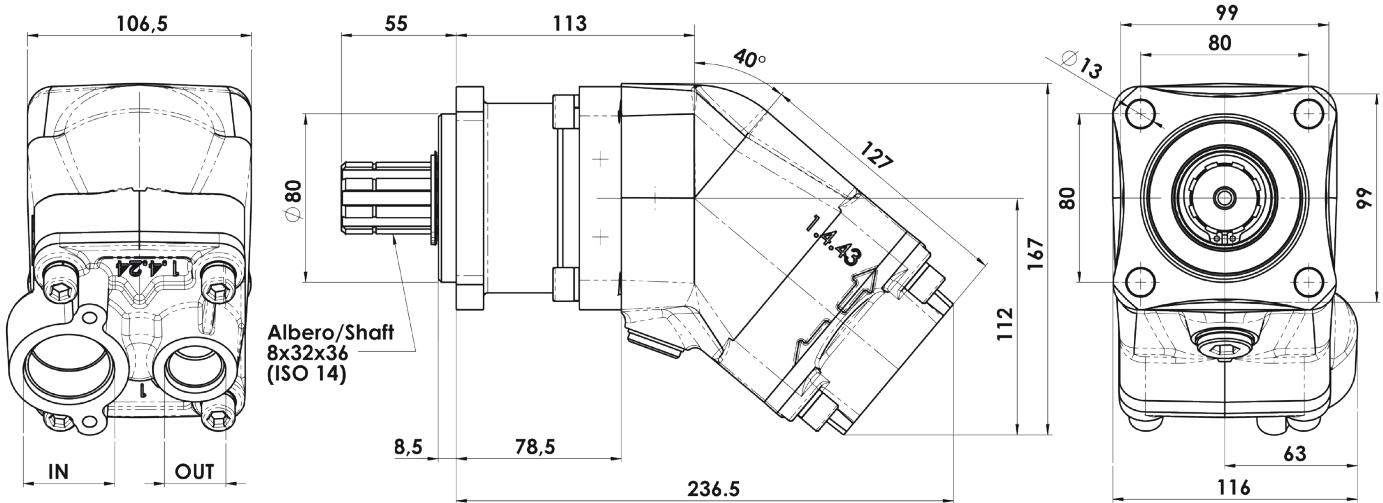
Flangia/Flange
Albero/Shaft
Cilin./Displ.

ISO
ISO14 8x32x36
40-47-55-64-80



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 = 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



Tipo pompa Pump type	Rotazione Rotation		IN	OUT
	Destra Right	Sinistra Left		
HDS-40	60100110403	60100110409	ISO 228 G 1 1/4"	ISO 228 G 3/4"
HDS-47	60100110473	60100110479		
HDS-55	60100110553	60100110559		
HDS-64	60100110643	60100110649		
MDS-80	60300110803	60300110809		
			ISO 725	ISO 725
HDS-40	60100150403	60100150409	1 5/8-12 UN-2B SAE 20	1 1/16-12 UN-2B SAE 12
HDS-47	60100150473	60100150479		
HDS-55	60100150553	60100150559		
HDS-64	60100150643	60100150649		
MDS-80	60300150803	60300150809		

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HYDRAULIC COMPONENTS

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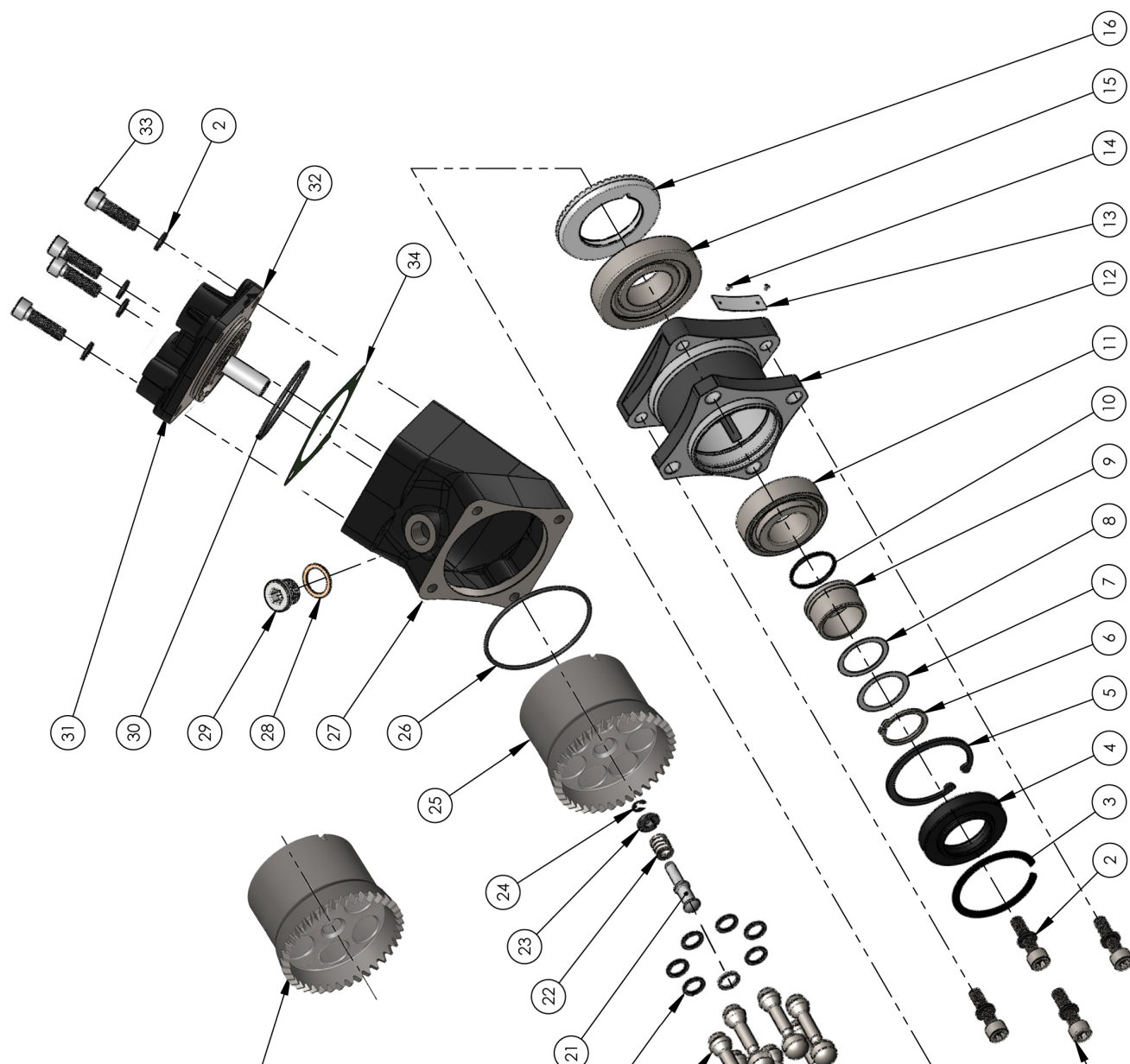
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99740060010

07/03/2017

601001
603001SCHEMA RICAMBI POMPE A PISTONI **HDS 40-47-55-64 E MDS 80**
HDS PISTON PUMP 40-47-55-64 AND MDS 80 SERIES SPARE PARTS**"HDS"**
"MDS"

IS 55	HDS 64	MDS 80	Codice	Descrizione	Q.tà
SAE	GAS	SAE	P. Number	Description	Q.ty
•	•	•	50200400574	Vite TCE M 10x40 UNI 5931	4
•	•	•	50100800054	Rosetta elastica x M10 DIN 7980	4
•	•	•	50100002729	Anello elastico E-SB 72x2	1
•	•	•	50600024272	Paralio HNB	1
•	•	•	50100100677	Anello elastico Ø72 I	1
•	•	•	50100001355	Anello seeger rinforzato AS UNI 7436	1
•	•	•	52900701127	Rondella 4x35x0.2	1
•	•	•	52900700226	Rondella 4x35x0.1	1
•	•	•	51100200200	Bussola	1
•	•	•	50600013137	Guarnizione OR 3137 HNBR	1
•	•	•	51000200220	Cuscinetto a rulli conici	1
•	•	•	51700201163	Corpo anteriore	1
•	•	•	513	Targhetta completa	1
•	•	•	51300000011	Chiodino fissaggio targhetta	2
•	•	•	51000200275	Cuscinetto a rulli conici	1
•	•	•	52501100255	Corona dentata	1
•	•	•	52200500231	Albero	1
•	•	•	52200500204	Spina UNI 6364-A Ø6x14	1
•	•	•	50100306142		1
•	•	•	53200500285		7
•	•	•	53200500025	Pistone sferico	5
•	•	•	53200500016		21
•	•	•	53200500043		15
•	•	•	50102300064		1
•	•	•	50102300046		1
•	•	•	50102300126		1
•	•	•	50102300019		1
•	•	•	50102300082		1
•	•	•	54200100162		1
•	•	•	51200500812		1
•	•	•	54200100171		1
•	•	•	50101500028		1
•	•	•	50002916040		1
•	•	•	50002916047		1
•	•	•	50002916055		1
•	•	•	50002916064		1
•	•	•	50002916080		1
•	•	•	50600013350		1
•	•	•	51700201421		1
•	•	•	11600910129		1
•	•	•	11500600135		1
•	•	•	50600013275		1
•	•	•	50002990400		1
•	•	•	50002990419		1
•	•	•	50002990473		1
•	•	•	50002990482		1
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•	•	•	50002990562		1
•	•	•	50002990642		1
•	•	•	50002990651		1
•	•	•	50002990802		1
•	•	•	50002990811		1
•	•	•	50100800054		4
•	•	•	50200400565		4
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A	A	A	50700000532		1

ТОВ "Промислова Гідравліка": <https://promhydraulic.com.ua/ua/>

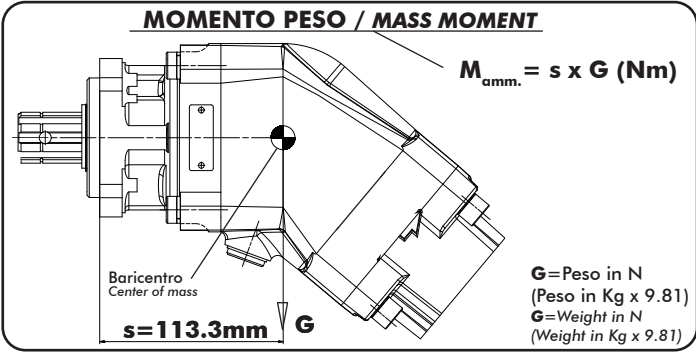
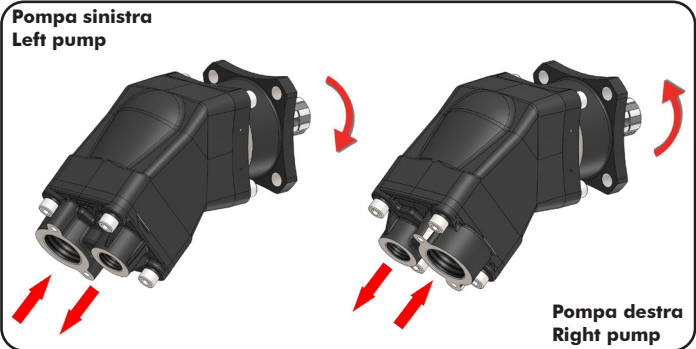
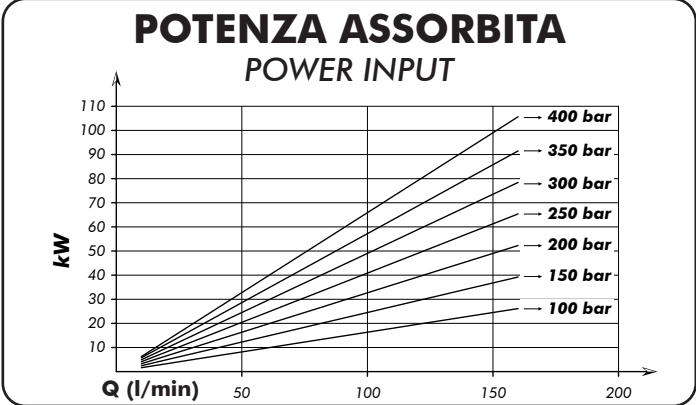
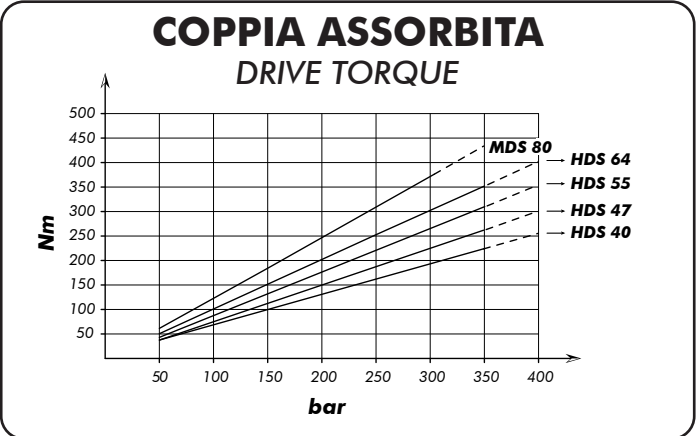
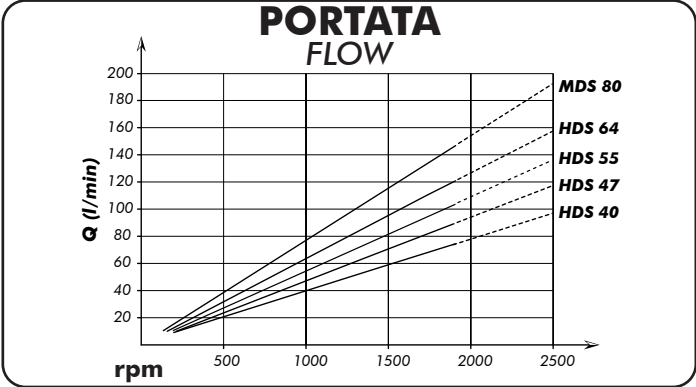
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CARATTERISTICHE TECNICHE DI FUNZIONAMENTO / TECHNICAL FEATURES

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	12,3
HDS-47	47.13							
HDS-55	56.70							
HDS-64	63.56	250	300	2300	1800	2100	300	12,1
MDS-80	77.25							12

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	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.

Kit guarnizioni / Seal Kit
10890347648

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

CODICE FAMIGLIA
FAMILY CODE

601001
603001

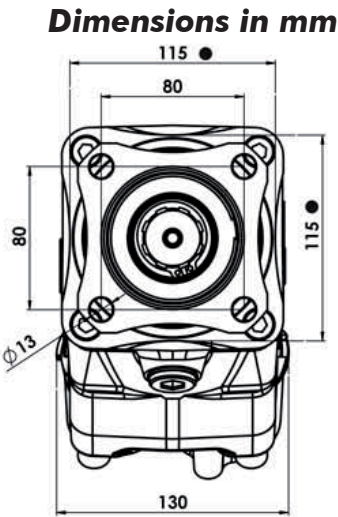
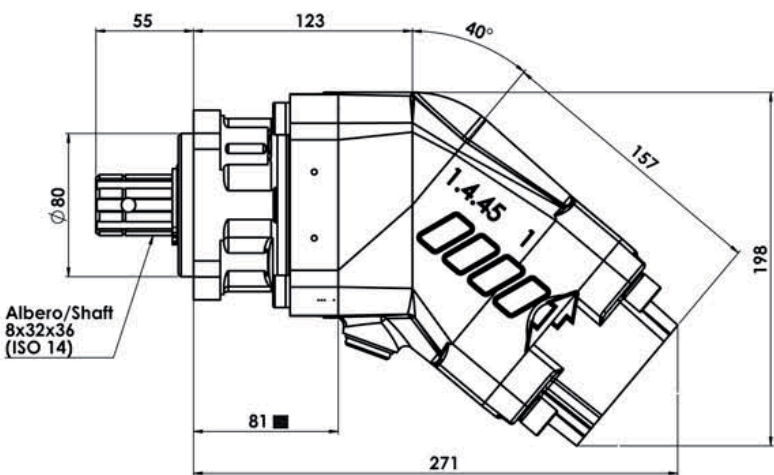
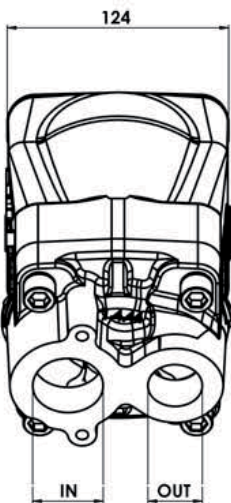
"HDS"
"MDS"

Flangia/Flange
Albero/Shaft
Cilin./Displ.

ISO
ISO14 8x32x36
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.					



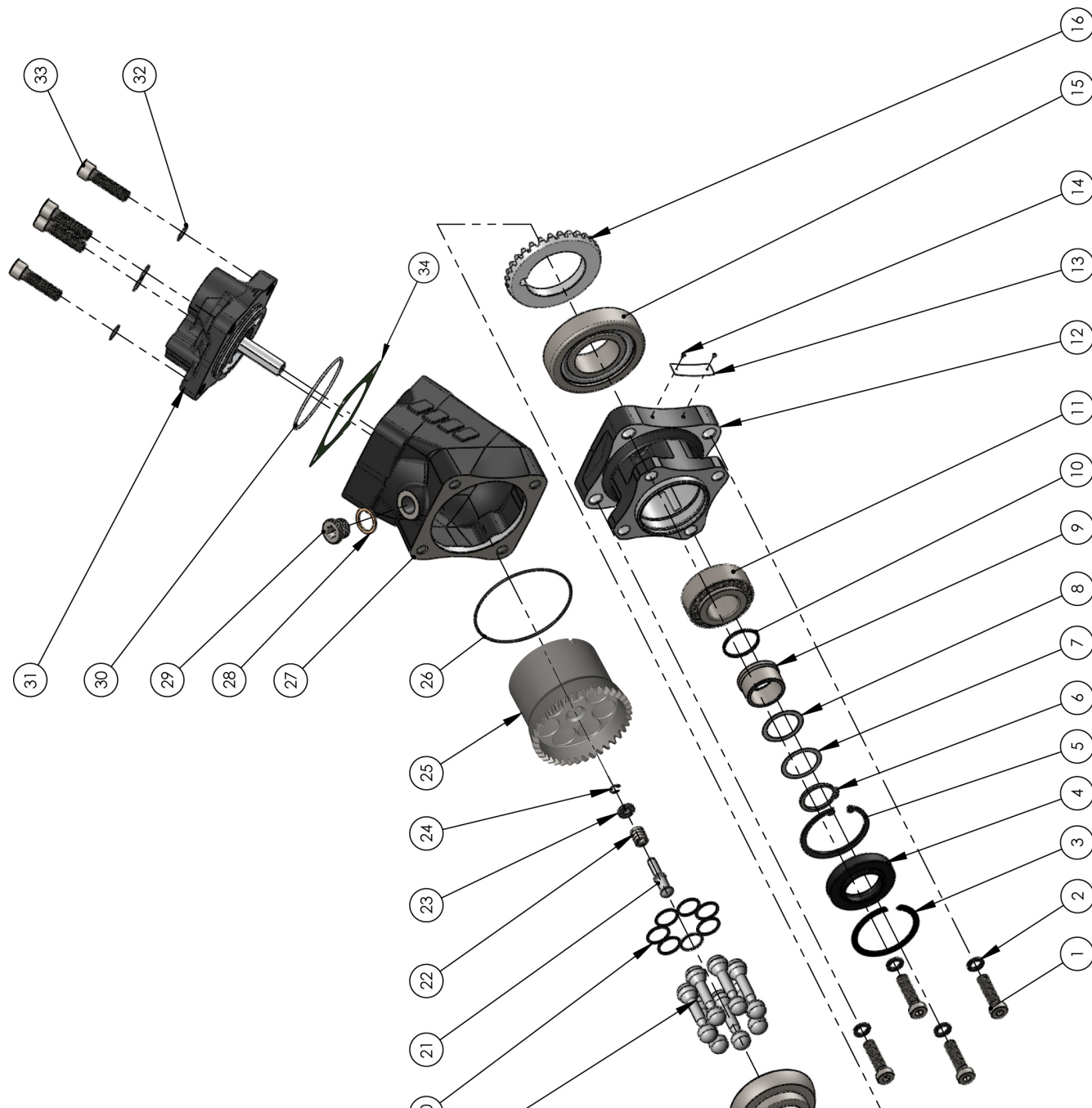
● Larghezza minima corpo a quota indicata ■
Minimum bodywidth at indicated measurement

Tipo pompa Pump type	Rotazione / Rotation		IN ISO 228 G 1 1/4"	OUT ISO 228 G 1"
	Destra / Right	Sinistra / Left		
HDS-84	60100110843	60100110849	G 1 1/2"	G 1"
HDS-108	60100111083	60100111089		
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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99740060010

11/05/2021

ID5 130 GAS SAE	MDS 120 GAS SAE	MDS 130 GAS SAE	Codice/Code	Descrizione / Description	Q.tà/Q.ty
•	•	•	50200500573	Vite TCE M12x45	Socket head capcrew 4
•	•	•	50102000129	Rosetta elastica	Washer 4
•	•	•	50100002729	Anello elastico	Circlip 1
•	•	•	50600024272	Paraolio	Oil seal 1
•	•	•	50100100677	Anello elastico	Circlip 1
•	•	•	50100001355	Anello seeger rinforzato	Retaining ring 1
•	•	•	52900701127	Rondella	Spacers 2
•	•	•	52900700226	Rondella	Spacers 2
•	•	•	51100200200	Bussola	Bushing 1
•	•	•	50600013137	Guarnizione OR	O-ring 1
•	•	•	51000200364	Cuscinetto a rulli conici	Tapered roller bearing 1
•	•	•	51700201172	Corpo anteriore	Front housing 1
•	•	•	513	Targhetta completa	Plate 1
•	•	•	51300000011	Chiodino fissaggio targhetta	Plate nail 2
•	•	•	51000200355	Cuscinetto a rulli conici	Tapered roller bearing 1
•	•	•	51000200357	Corona dentata	Crown 1
•	•	•	52501100273	Albero	Shaft 1
•	•	•	52200500562	Spina UNI 6364	Pin UNI 6364 1
•	•	•	52200500955	Pistone sferico	Piston 7
•	•	•	53200500034	Fasce elastiche	Spring rings 21
•	•	•	50102300037	Perno sferico con guida albero	Shaft guide pin 1
•	•	•	50102300055	Molla di carico corpo cilindri	Spring 1
•	•	•	50102300117	Anello guida molla	Spring guide ring 1
•	•	•	54200100162	Anello seeger	Retaining ring 1
•	•	•	51200500812	Gruppo corpo cilindri sede pistoni	Piston barrel assembly 1
•	•	•	54200100171	Guarnizione OR	O-Ring 1
•	•	•	50101500028	Corpo intermedio	Int. housing 1
•	•	•	50002916084	Tappo cieco	Blank plug 1
•	•	•	50002916108	Rondella rame	Copper washer 1
•	•	•	50002916130	Guarnizione OR	O-ring 1
•	•	•	50600012412	Gruppo corpo posteriore	Rear cover assembly 1
•	•	•	51700201412		
•	•	•	11500600135	Rosetta elastica	Washer 4
•	•	•	11600910129	Vite TCE M12x45	Socket head capcrew 4
•	•	•	50600018520	Guarnizione piastra	Gasket 1
•	•	•	50002990848		
•	•	•	50002990857		
•	•	•	50002991089		
•	•	•	50002991098		
•	•	•	50002991301		
•	•	•	50002991310		
•	•	•	50102000129		
•	•	•	50200500573		
A	A	A	50700000247		
A	A	A	50700000541		

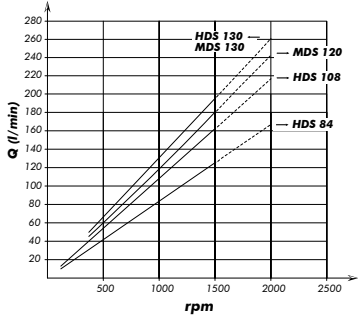
CARATTERISTICHE TECNICHE DI FUNZIONAMENTO / TECHNICAL FEATURES

Tipo pompa Pump type	Cilindrata Displacement cm³/rev	Pressione Pressure P1 bar P3 bar		Velocità / Speed			Velocità min. Min. speed rpm	Peso Weight kg
				V0 rpm	V1 rpm	V2 rpm		
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

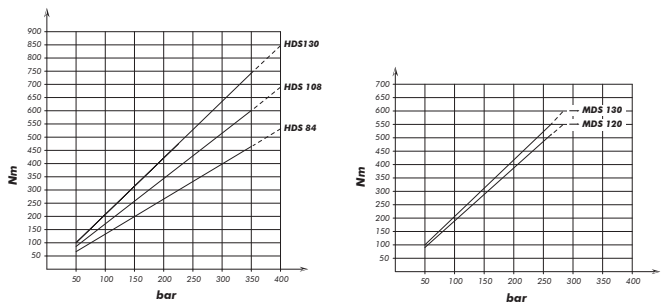
P1=Pressione massima continua Max. continuous pressure (100%)
P3=Pressione massima di punta Max. peak pressure (6 sec.max)

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

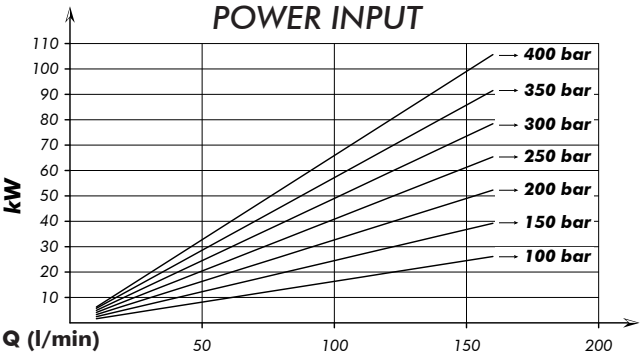
PORTATA / FLOW



COPPIA ASSORBITA / DRIVE TORQUE



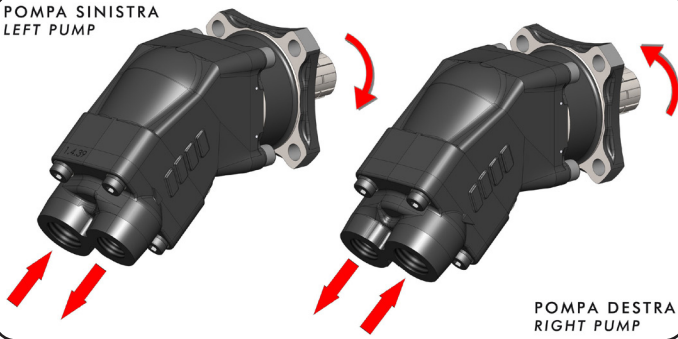
POTENZA ASSORBITA
POWER INPUT



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

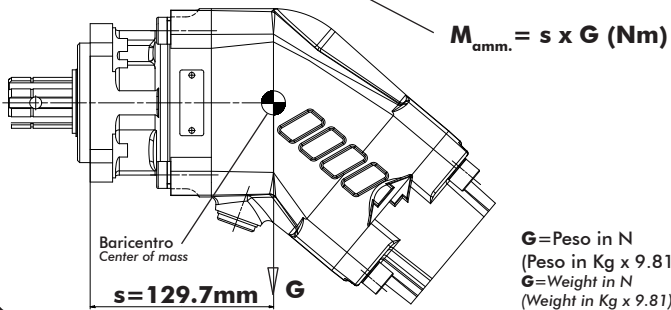
Q Portata Flow l/min	interno min. tubo Min pipe diam. mm inch		Velocità flusso Flow speed (m/s)
20	25	1"	0,68
30	32	1" 1/4	0,62
40	32		0,83
50	38	1" 1/2	0,74
60	38		0,88
70	40	1" 9/16	0,93
80	45	1" 3/4	0,84
90	45		0,94
100	50	2"	0,85
110	50		0,93
120	60	2" 3/8	0,71
130	60		0,77
140	60		0,83
150	60		0,88
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
10890384009

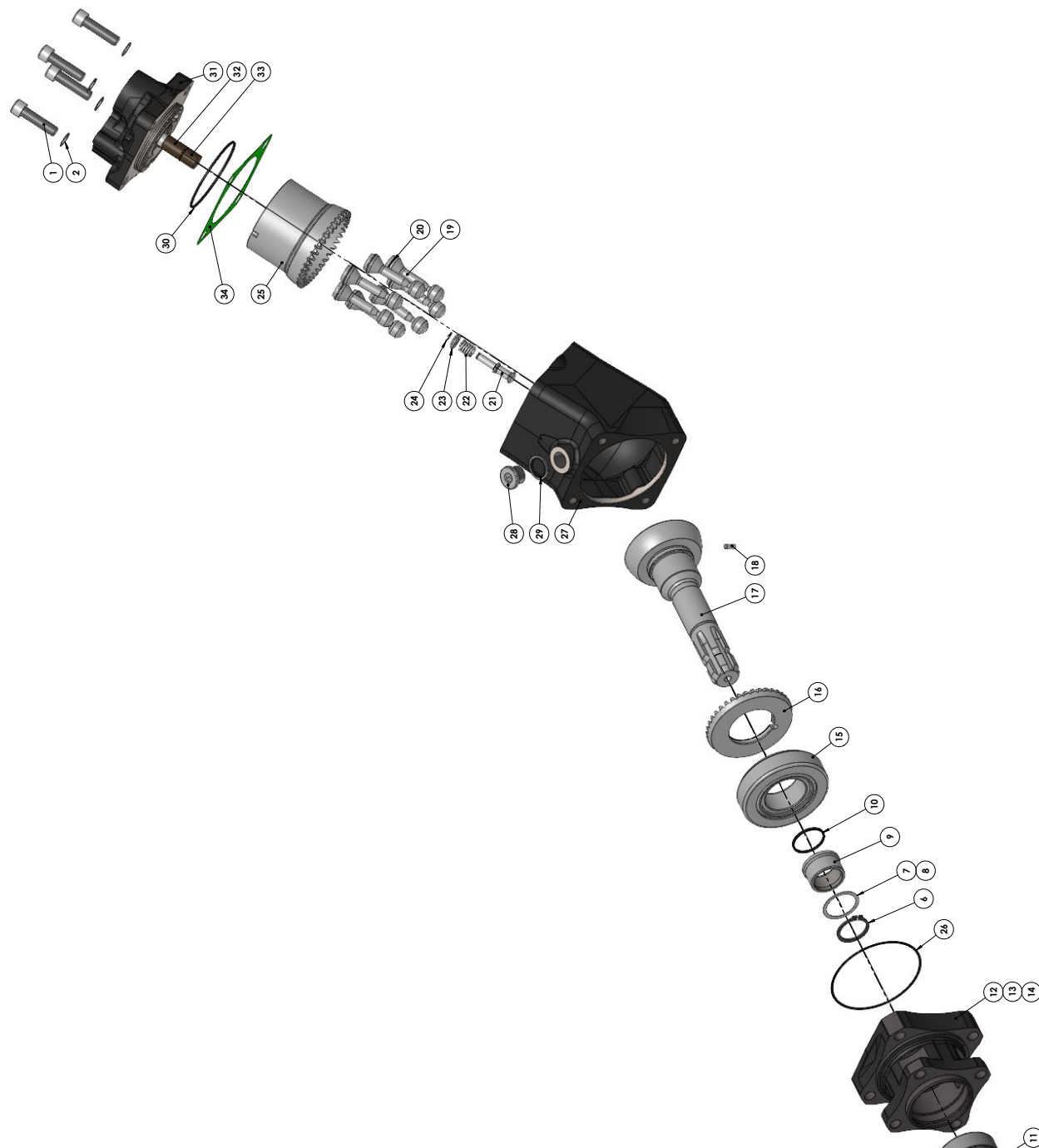
MOMENTO PESO / MASS MOMENT



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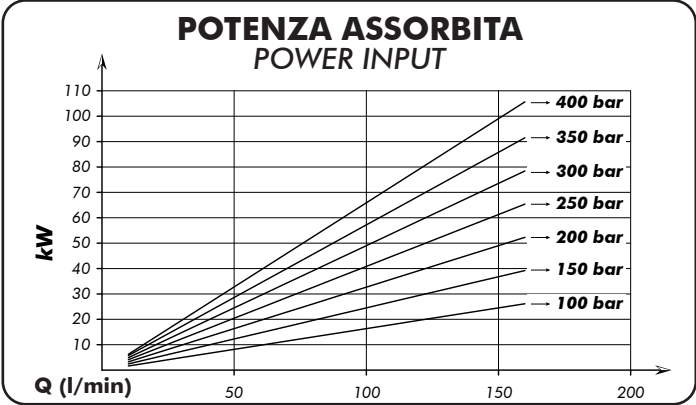
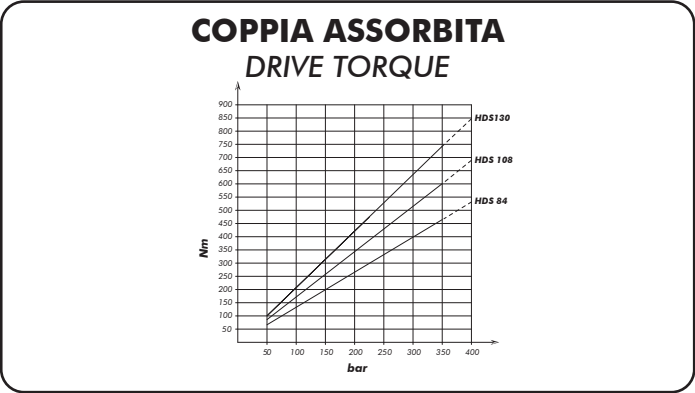
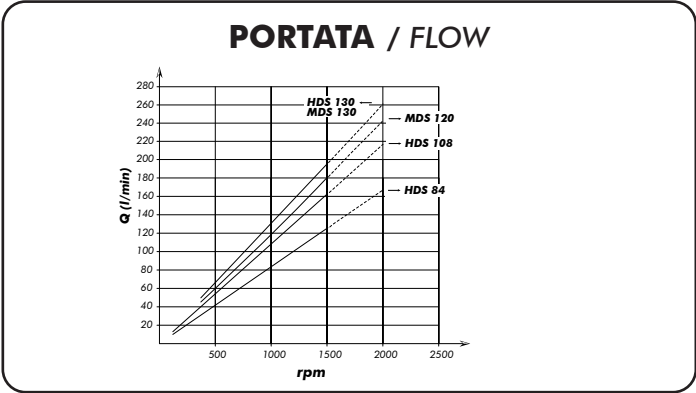
130	Codice/Code	Descrizione / Description	Q.
•	50200500573	Vite TCE M12x45	8
•	50102000129	Rosetta elastica	8
•	50100002729	Anello elastico	1
•	50600024272	Paraolio	1
•	50100100677	Anello elastico	1
•	50100001355	Anello seeger rinforzato	1
•	52900701127	Rondella	1
•	52900700226	Rondella	1
•	51100200200	Bussola	1
•	50600013137	Guarnizione OR	1
•	51000200364	Cuscinetto a rulli conici	1
•	51700201172	Corpo anteriore	1
•	513	Targhetta completa	1
•	51300000011	Chiodino fissaggio targhetta	2
•	51000200357	Cuscinetto a rulli conici	1
•	52501100273	Corona dentata	1
•	52200500455	Albero	1
•	50100306142	Spina UNI 6364	1
•	53200500105	Pistone sferico	7
•	50102300117	Fasce elastiche	21
•	54200100162	Perno sferico con guida albero	1
•	51200500812	Molla di carico corpo cilindri	1
•	54200100171	Anello guida molla	1
•	50101500028	Anello seeger	1
•	51700300716	Corpo cilindri sede pistoni	1
•	50600012412	Guarnizione OR	1
•	51700201412	Corpo intermedio	1
•	11500600135	Tappo cieco	1
•	11600910129	Rondella rame	1
•	50600018520	Guarnizione OR	1
•	51700202242	Corpo posteriore (sinistro)	1
•	53300400328	Boccola DU 16x18x25	1
•	53300400337	Boccola DU 16x18x20	1
A	50700000247	Guarnizione piastra 0,3mm	1
A	50700000541	Guarnizione piastra 0,5mm	1

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CARATTERISTICHE TECNICHE DI FUNZIONAMENTO / TECHNICAL FEATURES								
Tipo pompa Pump type	Cilindrata Displacement cm³/rev	Pressione Pressure		Velocità / Speed			Velocità min. Min. speed rpm	Peso Weight kg
		P1 bar	P3 bar	V0 rpm	V1 rpm	V2 rpm		
HDS-130	131.62	350	400	2300	1750	2000	300	18,7

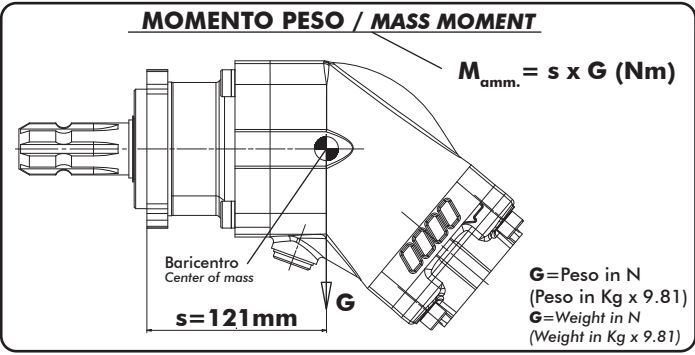
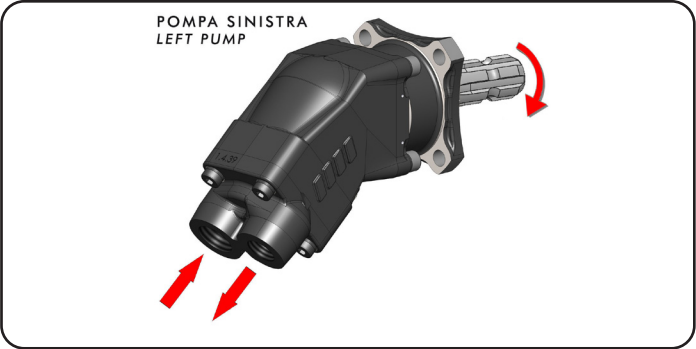
P1=Pressione massima continua Max. continuous pressure (100%)
P3=Pressione massima di punta Max. peak pressure (6 sec.max)

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



SCELTA DEL TUBO DI ASPIRAZIONE HOW TO CHOOSE THE SUCTION PIPE SIZE			
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20	25	1"	0,68
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40	32		0,83
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70	40	1" 9/16	0,93
80	45	1" 3/4	0,84
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