

Part number:

HYDROMA

HYDRAULICKÉ SYSTÉMY

**HIDROMA
SYSTEMS**

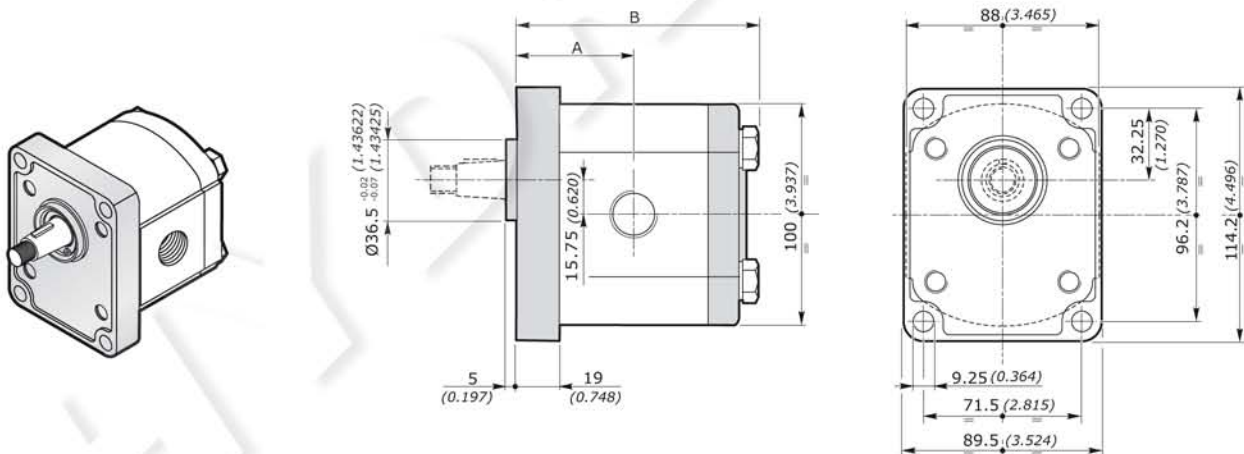
UKŁADY HYDRAULICZNE

HYDROMA

ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

POMPE AD INGRANAGGI GRUPPO 2SP**GEAR PUMPS GROUP 2SP****FLANGIA EUROPEA EUR EUROPEAN FLANGE****FLANGIA E COPERCHIO IN GHISA - FLANGE AND COVER IN CAST IRON**

GRUPPO GROUP 2SP	CILINDRATA DISPLACEMENT		PRESSIONE MAX - MAX PRESSURE						VELOCITÀ MAX MAX SPEED	PORTATA MAX MAX FLOW		VELOCITÀ MIN MIN SPEED
			P1		P2		P3					
	cm ³ /giro	in ³ /rev	bar	psi	bar	psi	bar	psi	giri/min - rpm	l/min	Gal/min	giri/min - rpm
2SP 040	4	0.24	260	3770	280	4060	300	4350	4000	16	4.23	500
2SP 060	6	0.37	260	3770	280	4060	300	4350	4000	24	6.34	500
2SP 080	8.5	0.52	260	3770	280	4060	300	4350	3500	29.7	7.85	500
2SP 110	11	0.67	260	3770	280	4060	300	4350	3500	38.5	10.17	500
2SP 140	14	0.85	260	3770	280	4060	300	4350	3500	49	12.95	500
2SP 160	16.5	1.01	240	3480	250	3625	260	3770	3500	57.7	15.24	500
2SP 190	19.5	1.19	220	3190	230	3335	240	3480	3300	64.3	16.99	500
2SP 220	22.5	1.37	200	2900	210	3045	220	3190	2800	63	16.64	500
2SP 260	26	1.59	180	2610	190	2755	200	2900	2500	65	17.17	500
2SP 310	31.5	1.92	140	2030	150	2175	160	2320	2200	69	18.22	500

DIMENSIONI • DIMENSIONS

GRUPPO - GROUP 2	A		B		MASSA - MASS	
	mm	inch	mm	inch	kg	lbs
2SP 040	44.4	1.748	93.0	3.661	3.40	7.50
2SP 060	46.0	1.811	96.3	3.791	3.55	7.83
2SP 080	48.1	1.894	100.5	3.957	3.70	8.16
2SP 110	50.2	1.976	104.6	4.118	3.80	8.38
2SP 140	52.7	2.075	109.6	4.315	3.90	8.60
2SP 160	54.8	2.157	113.8	4.480	4.05	8.93
2SP 190	57.3	2.256	118.8	4.677	4.20	9.26
2SP 220	59.8	2.354	123.8	4.874	4.35	9.59
2SP 260	62.7	2.469	129.6	5.102	4.50	9.92
2SP 310	66.9	2.636	138.0	5.437	4.71	7.96

CARICO DINAMICO EQUIVALENTE • EQUIVALENT DYNAMIC LOAD

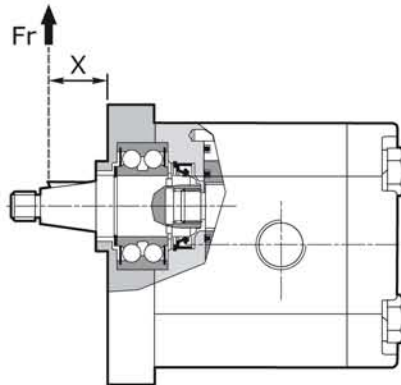
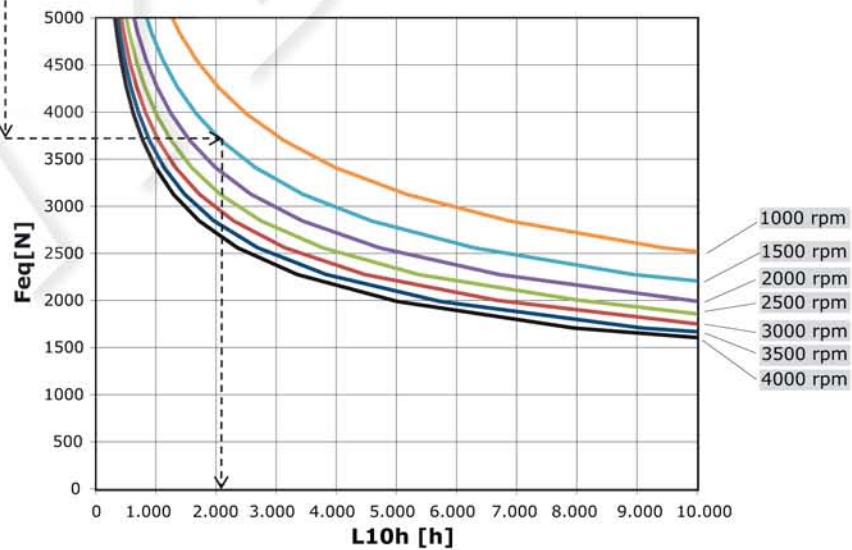
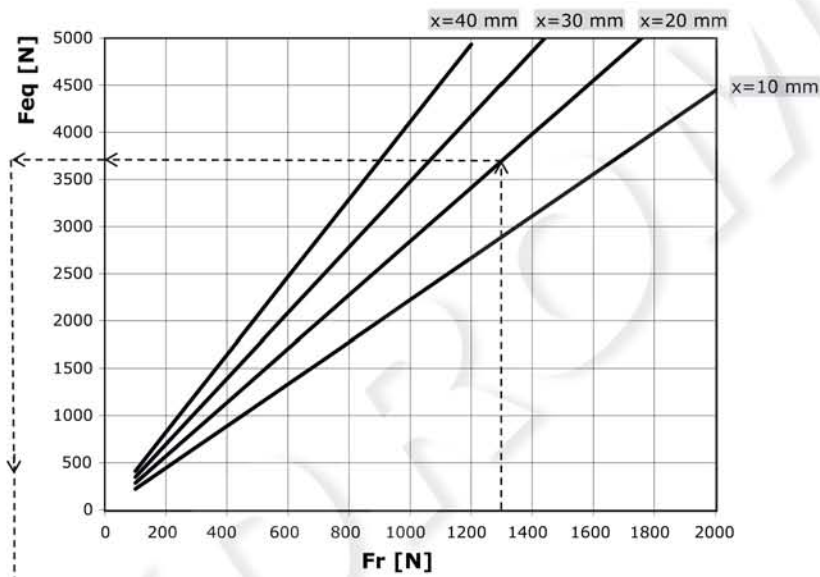


DIAGRAMMA CUSCINETTI • DIAGRAM BEARING EXPECTED LIFE



In caso di carichi combinati applicati all'albero (radiale + assiale) contattare il nostro Ufficio Tecnico.
In case of both radial and axial loads applied to the shaft please contact our technical department.

CODICE ORDINAZIONE • ORDER CODE

2SP - G - 140 - D - EUR - B - N - 10 - 0 - G

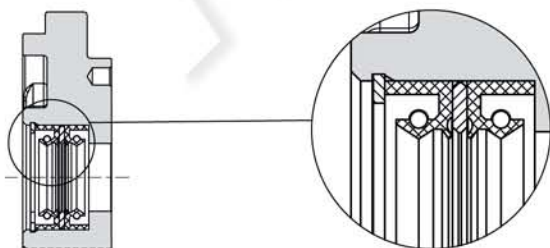
SIGLA - CODE	TIPO - TYPE	DESCRIZIONE - DESCRIPTION	PAGINA - PAGE
2SP	Tipo pompa <i>Pump type</i>	Pompa singola gruppo 2 <i>Single pump group 2</i>	5
G	Materiale flangia e coperchio <i>Flange and cover material</i>	A = alluminio / <i>aluminium</i> G = Ghisa / <i>Cast iron</i>	50
140	Cilindrata <i>Displacement</i>	Cilindrata = 14 cm ³ /giro <i>Displacement = 0.85 in³/rev</i>	5
D	Senso di rotazione <i>Rotation wise</i>	D = Rotazione destra / <i>Clockwise rotation</i> S = Rotazione sinistra / <i>Anticlockwise rotation</i> R = Reversibile / <i>Reversible</i>	8
EUR	Tipo Flangia <i>Flange type</i>	Flangia standard <i>Standard flange</i>	50
B	Tipo anello di tenuta <i>Seal ring type</i>	Vedi tabella compatibilità <i>See compatibility table</i>	51
N	Tipo guarnizione <i>Gasket type</i>	N = NBR V = Viton	50
10	Tipo Albero <i>Shaft type</i>	Vedi tabella compatibilità <i>See compatibility table</i>	52
0	Posizione connessione <i>Connection position</i>	Vedi tabella compatibilità <i>See compatibility table</i>	57
G	Tipo connessione <i>Connection type</i>	Vedi tabella compatibilità <i>See compatibility table</i>	58



VERSIONI CON DOPPIO PARAOLIO • DOUBLE SHAFT SEAL VERSION

Disponibili versioni con doppio paraolio per EUR, SAEA, SAEAOR e B50C.

Available versions with double shaft seal for EUR, SAEA, SAEAOR and B50C.



esempio • example:







2SP - A - 160 - S - SAEA2 - B - N - 14 - N







SAEA2= Doppio paraolio / *Double Shaft Seal*

Nota - La versione con paraolio è fornita con anelli a bassa pressione o alta pressione tipo K

Note - The version with shaft seal is supplied with K rings type with low pressure or high pressure







TIPOLOGIA FLANGIA • FLANGE TYPE







2SP	EUR	SAEA	SAEAOR	B80C	B50C	E52C
						
A alluminio aluminium	◇	◇	◇	◇	◇	◇
G ghisa cast iron	◇	◇	◇	non disponibile not available	non disponibile not available	non disponibile not available

2SP	P400D	SUPEUR	SAEB*	SUPSAE	SUPB80C	SUPB50CX
						
A alluminio aluminium	◇	◇	non disponibile not available	◇	◇	◇
G ghisa cast iron	non disponibile not available	◇	◇	non disponibile not available	non disponibile not available	non disponibile not available

* Contattare il servizio commerciale. / Available soon. Please contact our Sales Dpt.

COMBINAZIONE FLANGIA - ANELLO DI TENUTA - GUARNIZIONE • FLANGE - SEAL RING - GASKET COMBINATION

2SP	EUR	SAEA	SAEAOR	B80C	B50C	E52C
	 Anello-Seal ring	 Anello-Seal ring	 Anello-Seal ring	 Anello-Seal ring	 Anello-Seal ring	 Anello-Seal ring
	B H K	B H K	B H K	B H K	B H K	A
NBR N	◇	◇	◇	◇	◇	◇
Viton V	●	●	●	●	●	●

2SP	P400D	SUPEUR	SAEB*	SUPSAE	SUPB80C	SUPB50CX
	 Anello-Seal ring	 Anello-Seal ring	 Anello-Seal ring	 Anello-Seal ring	 Anello-Seal ring	 Anello-Seal ring
	B H K	B K	H			
NBR N	◇	◇	◇	◇	◇	◇
Viton V	●	●	●	●	●	●

* Contattare il servizio commerciale. / Available soon. Please contact our Sales Dpt.

esempio • example: **2SP - A - 140 - D - EUR - B - N - 10 - 0 - G**

EUR = Flangia europea / European flange

B = Anello tenuta fino a 3 bar / Seal ring up to 3 bar

N = Guarnizione in NBR / NBR o-ring













◇ = Combinazione standard - Standard combination

● = Combinazione disponibile - Available combination

ANELLO DI TENUTA • SEAL RING

SIGLA - CODE	TIPO - TYPE	DIAGRAMMA - DIAGRAM																						
A	Flangia senza anello di tenuta <i>Flange without seal ring</i>	/																						
B	Anello di tenuta fino a 3 bar <i>Sealing ring up to 3 bar</i>	<table border="1"> <caption>Data for Seal Ring B</caption> <thead> <tr> <th>RPM</th> <th>Pressure (bar)</th> </tr> </thead> <tbody> <tr><td>0</td><td>3.0</td></tr> <tr><td>500</td><td>3.0</td></tr> <tr><td>1000</td><td>3.0</td></tr> <tr><td>1200</td><td>3.0</td></tr> <tr><td>1500</td><td>2.5</td></tr> <tr><td>2000</td><td>1.8</td></tr> <tr><td>2500</td><td>1.4</td></tr> <tr><td>3000</td><td>1.2</td></tr> <tr><td>3500</td><td>1.0</td></tr> <tr><td>4000</td><td>0.8</td></tr> </tbody> </table>	RPM	Pressure (bar)	0	3.0	500	3.0	1000	3.0	1200	3.0	1500	2.5	2000	1.8	2500	1.4	3000	1.2	3500	1.0	4000	0.8
RPM	Pressure (bar)																							
0	3.0																							
500	3.0																							
1000	3.0																							
1200	3.0																							
1500	2.5																							
2000	1.8																							
2500	1.4																							
3000	1.2																							
3500	1.0																							
4000	0.8																							
H	Anello di tenuta fino a 8 bar <i>Sealing ring up to 8 bar</i>	<table border="1"> <caption>Data for Seal Ring H</caption> <thead> <tr> <th>RPM</th> <th>Pressure (bar)</th> </tr> </thead> <tbody> <tr><td>0</td><td>8.0</td></tr> <tr><td>500</td><td>8.0</td></tr> <tr><td>1000</td><td>8.0</td></tr> <tr><td>1200</td><td>8.0</td></tr> <tr><td>1500</td><td>7.0</td></tr> <tr><td>2000</td><td>5.5</td></tr> <tr><td>2500</td><td>4.2</td></tr> <tr><td>3000</td><td>3.5</td></tr> <tr><td>3500</td><td>3.0</td></tr> <tr><td>4000</td><td>2.5</td></tr> </tbody> </table>	RPM	Pressure (bar)	0	8.0	500	8.0	1000	8.0	1200	8.0	1500	7.0	2000	5.5	2500	4.2	3000	3.5	3500	3.0	4000	2.5
RPM	Pressure (bar)																							
0	8.0																							
500	8.0																							
1000	8.0																							
1200	8.0																							
1500	7.0																							
2000	5.5																							
2500	4.2																							
3000	3.5																							
3500	3.0																							
4000	2.5																							
K	Anello di tenuta fino a 30 bar <i>Sealing ring up to 30 bar</i>	<table border="1"> <caption>Data for Seal Ring K</caption> <thead> <tr> <th>RPM</th> <th>Pressure (bar)</th> </tr> </thead> <tbody> <tr><td>0</td><td>30.0</td></tr> <tr><td>500</td><td>30.0</td></tr> <tr><td>1000</td><td>30.0</td></tr> <tr><td>1200</td><td>30.0</td></tr> <tr><td>1500</td><td>25.0</td></tr> <tr><td>2000</td><td>18.0</td></tr> <tr><td>2500</td><td>14.0</td></tr> <tr><td>3000</td><td>12.0</td></tr> <tr><td>3500</td><td>10.5</td></tr> <tr><td>4000</td><td>10.0</td></tr> </tbody> </table>	RPM	Pressure (bar)	0	30.0	500	30.0	1000	30.0	1200	30.0	1500	25.0	2000	18.0	2500	14.0	3000	12.0	3500	10.5	4000	10.0
RPM	Pressure (bar)																							
0	30.0																							
500	30.0																							
1000	30.0																							
1200	30.0																							
1500	25.0																							
2000	18.0																							
2500	14.0																							
3000	12.0																							
3500	10.5																							
4000	10.0																							

COMBINAZIONE ALBERO - FLANGIA • SHAFT - FLANGE COMBINATION

2SP	EUR	SAEA	SAEAOR	B80C	B50C	E52C	P400D	SUPEUR	SAEB*	SUPSAE	SUPB80C	SUPB50CX
												
10 Conico 1:8 Tapered 1:8	◆	●	●	●	◆		◆	◆	●	◆		
11 Conico 1:5 Tapered 1:5	●	●	●	◆	●			●	●		◆	◆
12 Cilindrico EUR EUR Parallel shaft	◆	●	●	◆	◆				●			
13 Cilindr. SAEA SAEA parallel shaft	●	◆	◆	●	●				●			
14 Scanalato SAEA 9T SAEA 9T splined	●	◆	◆	●	●				●			
15 Scanalato DIN5482 9T (26/24) DIN5482 9T splined (26/24)	●	●	●	◆	●				●			
16 Scanalato DIN5482 9T (20) DIN5482 9T splined (20)	●	●	●	◆	●			●	●			
17 Fresato a dente frontale Dihedral claw						◆						
30 Scanalato SAE SAE splined										●		
31 Cilindrico SAE SAE Parallel shaft										●		
40 Scanalato SAE 10T (52) SAE 10T splined (52)	●	●	●						●			
41 Scanalato SAE 10T (37.5) SAE 10T splined (37.5)	●	●	●						●			
42 Scanalato SAEA 11T (55.6) SAEA 11T splined (55.6)	●	●	●						●			
43 Scanalato SAEA 11T (31.5) SAEA 11T splined (31.5)	●	●	●						●			
44 Scanalato SAEA 11T (13.5) SAEA 11T splined (13.5)						●						
45 Scanalato SAEB 13T (41.2) SAEB 13T splined (41.2)									◆			
46 Cilindrico SAEB SAEB Parallel shaft										●		
47 Cilindrico Parallel shaft											●	

◆ = Combinazione standard - Standard combination

● = Combinazione disponibile - Available combination

* Contattare il servizio commerciale. / Available soon. Please contact our Sales Dpt.

POMPE AD INGRANAGGI GRUPPO 2SP
GEAR PUMPS GROUP 2SP

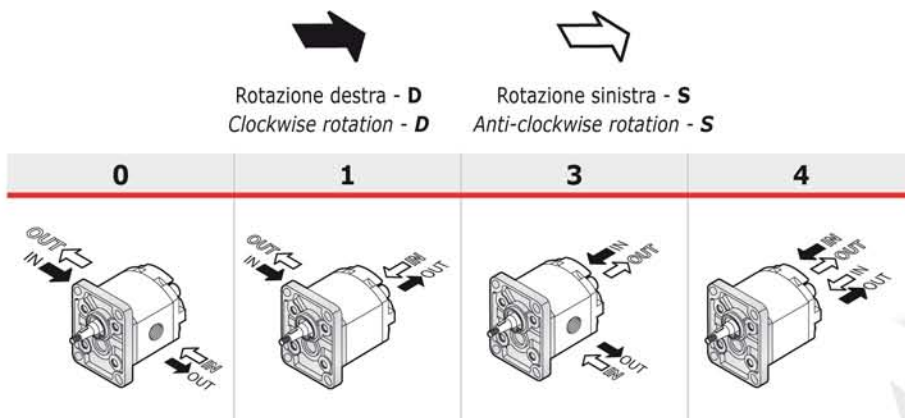
2SP

DIMENSIONI ALBERO - SHAFT DIMENSIONS

<p>10 Conico 1:8 Tapered 1:8</p> <p>Coppia 140 Nm Torque 104 ft-lbs</p>	<p>Disponibile per - available for: EUR-SAEA-SAEAOR-B50C-P400D-SUPEUR</p>	<p>Disponibile per - available for: B80C</p>
<p>11 Conico 1:5 Tapered 1:5</p> <p>Coppia 140 Nm Torque 104 ft-lbs</p>	<p>Disponibile per - available for: EUR - SAEA - SAEAOR - B50C</p>	<p>Disponibile per - available for: B80C</p>
<p>12 Cilindrico EUR EUR Parallel shaft</p> <p>Coppia 80 Nm Torque 59 ft-lbs</p>	<p>Disponibile per - available for: EUR - SAEA - SAEAOR - B50C</p>	<p>Disponibile per - available for: B80C</p>
<p>13 Cilindrico SAEA SAEA Parallel shaft</p> <p>Coppia 90 Nm Torque 67 ft-lbs</p>	<p>Disponibile per - available for: EUR - SAEA - SAEAOR - B50C</p>	<p>Disponibile per - available for: B80C</p>
<p>14 Scanalato SAEA 9T SAEA 9T splined</p> <p>Coppia 100 Nm Torque 74 ft-lbs</p>	<p>Disponibile per - available for: EUR - SAEA - SAEAOR - B50C</p>	<p>Disponibile per - available for: B80C</p>

POMPE AD INGRANAGGI GRUPPO 2SP
GEAR PUMPS GROUP 2SP

POSIZIONE CONNESSIONE • CONNECTION POSITION

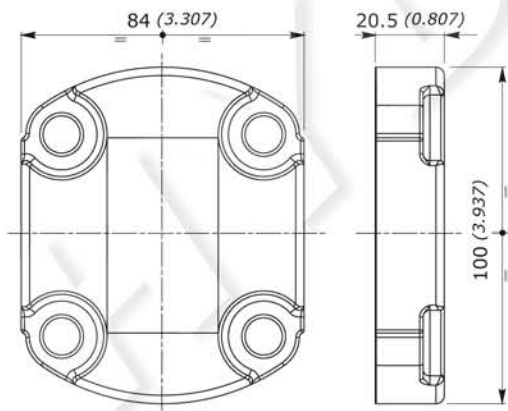


Il segno del corpo indica il lato aspirazione per le pompe
The sign on the body identifies the suction side for the pumps

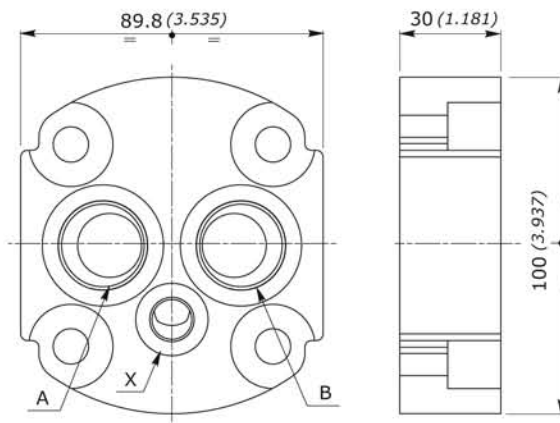
IN = ASPIRAZIONE - SUCTION
OUT = MANDATA - DELIVERY

COPERCHIO STANDARD • STANDARD COVER

Per posizione **0**
 For position **0**



Per posizioni **1, 3, 4**
 For position **1, 3, 4**



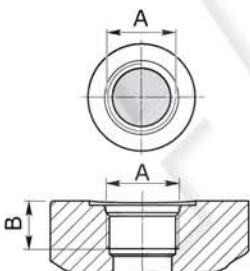
CONNESSIONI / CONNECTION			
	A	B	X
GAS	G 3/4	G 3/4	G 1/4
SAE	SAE 12	SAE 12	SAE 6

TIPO CONNESSIONE • CONNECTION TYPE

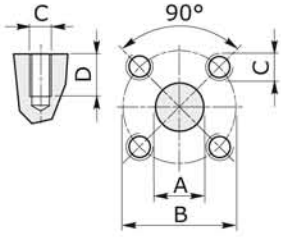
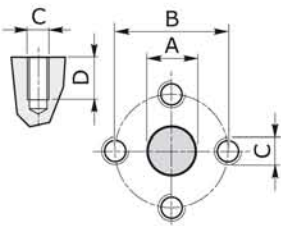
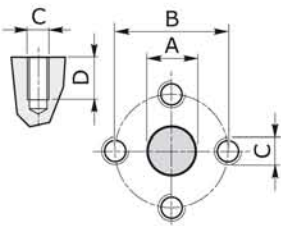
Le connessioni rappresentate corrispondono alle versioni standard; per connessioni differenti, contattare il nostro Ufficio Commerciale. *The connection types shown correspond to standard configuration; for different applications contact our Commercial Dept.*

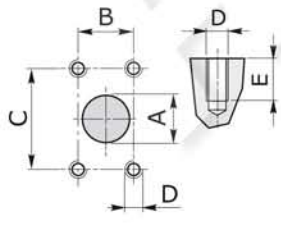
2SP		POSIZIONE CONNESSIONE - CONNECTION POSITION			
		0	1	3	4
GAS	G	◇	◇	◇	◇
UNF	U	◇	◇	◇	◇
FLANGIATE FLANGED	T	◇			
	N	◇			
	M	◇			
	F	◇			

GAS	UNI ISO 228/1	SIGLA CODE	CIL. DISPL.	ASPIRAZIONE - SUCTION IN			MANDATA - DELIVERY OUT		
				A	B	↻	A	B	↻
		G	40	G 1/2"	16 [mm] 0.630 [inch]	50 [Nm] 443 [in.lbs]	G 1/2"	16 [mm] 0.630 [inch]	50 [Nm] 443 [in.lbs]
			60						
			80						
			110	G 3/4"	17 [mm] 0.670 [inch]	60 [Nm] 531 [in.lbs]			
			140						
			160						
			190						
			220						
			260						
			310						

UNF	ANSI/ASME B1.1	SIGLA CODE	CIL. DISPL.	ASPIRAZIONE SUCTION IN			MANDATA DELIVERY OUT						
				A	B	↻	A	B	↻				
		U	40	SAE 10 7/8"-14 UNF	17 [mm] 0.670 [inch]	55 [Nm] 487 [in.lbs]	SAE 10 7/8"-14 UNF	17 [mm] 0.670 [inch]	55 [Nm] 487 [in.lbs]				
			60										
			80										
			110	SAE 12 1"1/16-12 UN	20 [mm] 0.788 [inch]	60 [Nm] 531 [in.lbs]							
			140										
			160										
			190										
			220										
			260										
			310										
			W	40	SAE 16 1"5/16-12 UN	20 [mm] 0.788 [inch]				70 [Nm] 620 [in.lbs]	SAE 12 1"1/16-12 UN	20 [mm] 0.788 [inch]	60 [Nm] 531 [in.lbs]
				60									
				80									
				110									
140													
160													
190													
220													
260													
310													

POMPE AD INGRANAGGI GRUPPO 2SP
GEAR PUMPS GROUP 2SP

FLANGIATE FLANGED	ISO/R 262	SIGLA CODE	CIL. DISPL.	ASPIRAZIONE SUCTION IN					MANDATA DELIVERY OUT								
				A	B	C	D	↻	A	B	C	D	↻				
		T	40														
			60														
			80														
			110														
			140	20	40	M6	15	8	15	35	M6	15	8				
			160	[mm]	[mm]		[mm]	[Nm]	[mm]	[mm]		[mm]	[Nm]				
			190	0.787	1.575		0.591	71	0.591	1.378		0.591	71				
			220	[inch]	[inch]		[inch]	[in.lbs]	[inch]	[inch]		[inch]	[in.lbs]				
			260														
			310														
		N	40	13	30	M6	15	8									
			60	[mm]	[mm]		[mm]	[Nm]									
			80	0.512	1.181		0.591	71									
			110														
			140						13	30							
			160	19	40	M8	14	15	0.512	1.181	M6	15	8				
			190	[mm]	[mm]		[mm]	[Nm]	[inch]	[inch]		[mm]	[Nm]				
			220	0.748	1.575		0.552	133				0.591	71				
			260	[inch]	[inch]		[inch]	[in.lbs]				[inch]	[in.lbs]				
			310														
		M	40	non disponibile not available					non disponibile not available								
			60	non disponibile not available					non disponibile not available								
			80	non disponibile not available					non disponibile not available								
			110	non disponibile not available					non disponibile not available								
			140	non disponibile not available					non disponibile not available								
			160	19	40	M8	14	15	19	40	M8	14	15				
			190	[mm]	[mm]		[mm]	[Nm]	[mm]	[mm]		[mm]	[Nm]				
			220	0.748	1.575		0.552	133	0.748	1.575		0.552	133				
			260	[inch]	[inch]		[inch]	[in.lbs]	[inch]	[inch]		[inch]	[in.lbs]				
			310														

FLANGIATE FLANGED	ISO/R 262	SIGLA CODE	CIL. DISPL.	ASPIRAZIONE SUCTION IN					MANDATA DELIVERY OUT						
				A	B	C	D	E	↻	A	B	C	D	E	↻
		F*	40	20	17,4	38	M6	15	8						
			60	[mm]	[mm]	[mm]		[mm]	[Nm]						
			80	0.787	0.685	1.496		0.591	71						
			110												
			140							15	17,4	38	M6	15	8
			160							[mm]	[mm]	[mm]		[mm]	[Nm]
			190	26	22.4	47.6	M6	15	8	0.591	0.685	1.496		0.591	71
			220	[mm]	[mm]	[mm]		[mm]	[Nm]	[inch]	[inch]	[inch]		[inch]	[in.lbs]
			260	1.024	0.882	1.874		0.591	71					0.591	71
			310	[inch]	[inch]	[inch]		[inch]	[in.lbs]					[inch]	[in.lbs]

*: Le flange non corrispondono a norma SAEJ518. Flange a norma disponibili a richiesta, contattare il Servizio Commerciale.

*: Flanges F do not correspond to SAEJ518. Flanges SAEJ518 available on request, please contact our Sales Dpt.