

CONTINUUM® PUMPS

Patents Garanted
Brevetti approvati

Helical rotor pumps for high pressure and low noise application

Pompe a rotori elicoidali per applicazioni ad alta pressione e basso rumore



SETTIMA
flow mechanisms

CONTINUUM® PROJECT

Sustainable Power

In a ever increasing demand for power, designers and manufacturers of hydraulic devices have explored all opportunities to contain noise and reduce ripple. When System Life Cycle, Environmental Conditions, Energy Consumption, and Performance are paramount the ultimate solution is to cut the problem at its root.

Noise is Expensive

From small steering systems to large municipal equipment, from a lubrication system to a forklift, noise is not only generated by the pumps, but in most cases the system generates noise by amplifying the ripple. Consequent pressure drops are a noticeable energy consumer and reduce overall efficiency. Even in the most demanding conditions Continuum enables the system designer to focus on functions and features, reducing customer frustration by eliminating expensive enclosures, hoses and attenuators. Noise is relieved at the root.

Power of Silence

Our product looks like the most popular of hydraulic pumps, the Gear pump, but their the similarity ends. Continuum is set to transform the way end users perceive hydraulic devices. The ultimate solution for preserving the experience of silence. Settima FM, introducing its new Continuum Product Line, is paving the way for Sustainable Fluid Power.

The Human Factor

As well as investing in the most advanced design and manufacturing capability, Settima Flow Mechanisms base the quality of their value chain on the human factor. Encouraging innovation and personal responsibility, Settima has reached a high standard of quality and an extremely flexible manufacturing system.

The Continuum® Principle

Investing in innovation is about empowering impressive and revolutionary ideas. Such as the one embraced by Continuum, a new pumps with continuous intermeshing, no-leaking rotors.

Technological innovation for HIGH pressure, LOW noise and LOW pulsations

The Continuum® concept is based on three patented breakthroughs:

- the rotors profile
- the screw step
- the inner force balancing

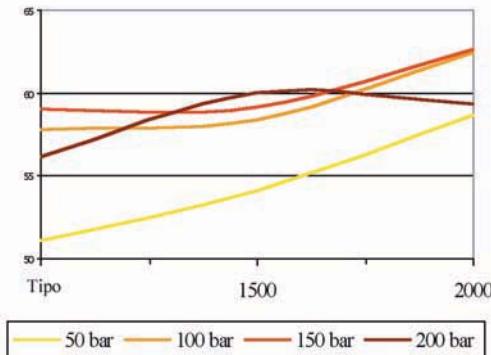
PROGETTO CONTINUUM®

Potenza sostenibile

Per far fronte alla crescente domanda di potenza, progettisti e costruttori di dispositivi idraulici hanno esplorato tutte le opportunità per contenere il rumore e ridurre le pulsazioni del circuito. Quando la durata della vita del sistema, le condizioni ambientali, i consumi e le funzionalità sono fondamentali l'ultima soluzione è quella di tagliare il problema alla radice.

Il rumore è costoso

Dal piccolo sistema di sterzo all'ingombrante apparato della nettezza urbana, dal sistema di lubrificazione al carrello elevatori. Il rumore non solo è generato dalle pompe idrauliche, ma nella maggior parte dei casi il sistema genera rumore amplificando la pulsazione di pressione. Le perdite di carico conseguenti sono un considerevole consumo di energia e sorgente di una inefficienza complessiva. Persino nelle condizioni più esigenti Continuum® abilita il progettista di sistema ad implementare nuove funzioni e proprietà non solo a ridurre la frustrazione del cliente mediante costosi attenuatori, tubi flessibili e contenitori. Il Rumore e' rimosso alla radice.



introducendo la sua nuova linea di prodotti Continuum®, prepara la strada per una Potenza Fluida Sostenibile.

Il fattore umano

Al di là degli investimenti in capacità di progettazione e produttive Settima Flow Mechanisms e l'intera filiera produttiva basano la loro qualità sul fattore umano. Incoraggiando l'innovazione e la responsabilità personale, Settima FM ha raggiunto un alto standard di qualità e una produzione estremamente flessibile.

Il principio Continuum®

Investire in innovazione significa dare valore a idee rivoluzionarie. Così come quella adottata da Continuum, una nuova pompa con rotori a contatto continuo e senza perdite.

Innovazione tecnologica per ALTA pressione, BASSO rumore e BASSE pulsazioni

Il Concetto Continuum® e' basato su tre innovazioni brevettate:

- il profilo dei rotori
- il passo della vite
- il bilanciamento delle forze interne



Continuum® Product Line

Pressure Ripple and Noise Analysis

The current designs of high pressure gear pumps permit a quantity of fluid to be trapped and compressed between the gear teeth with the following consequences:

- sharp changes in pressure growth
- noise (increasing rapidly above 1500 rpm)

The continuum design concept achieves one main design objective:

- total absence of trapped and compressed oil between the gears;
- no trade-offs in material selection or treatment.

This results in:

- smooth changes in pressure growth
- HIGH Efficiency
- LOW noise (up to 5.000 rpm)

The **pressure ripple** laboratory test shows the impressive improvement of the pulsation in a **Continuum®** designed pump (pressure sampling at 100 KHz) while maintaining excellent efficiency.

The **noise** laboratory test shows the impressive improvement of the noise curve in a **Continuum®** designed pump.

Analisi della pulsazione di pressione e del rumore

L'attuale struttura di pompe ad ingranaggi per alta pressione tipicamente implica camere di compressione del fluido tra denti delle ruote dentate. Conseguentemente si osservano:

- rapide variazioni nella pressione
- rumore (a partire da 1.500 rpm)

Il concetto di progettazione **Continuum®** consente un principale obiettivo di progettazione:

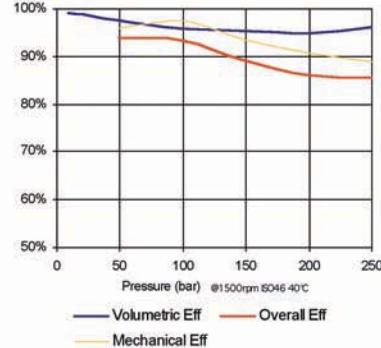
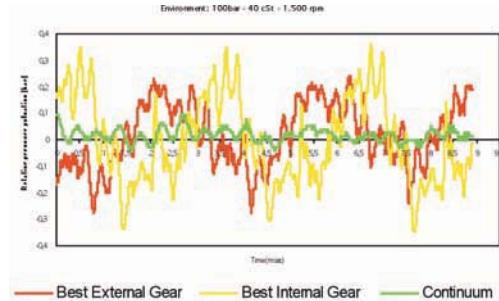
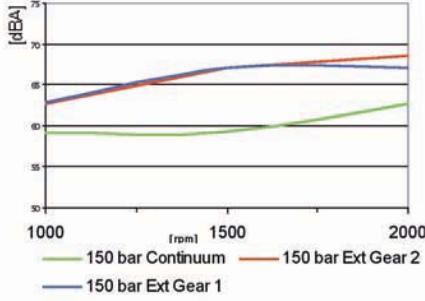
- totale assenza di camere di alta pressione di olio compresso nell'ingranaggio;
- nessun compromesso su selezione materiale e sui trattamenti degli stessi.

Questo implica:

- smorzate variazioni di crescita di pressione
- ALTE efficienze
- BASSO rumore (fino a 5.000 rpm)

I test di **Pulsazione della Pressione** mostrano un miglioramento impressionante sulla pulsazione nelle pompe **Continuum®** (con pressione campionata a 100KHz) pur mantenendo efficienze eccellenti.

I test di laboratorio di rumore mostrano un significativo miglioramento delle curve di rumore.



Detailed technical information / Informazioni tecniche dettagliate

Models available / Modelli Disponibili	GR28 - GR33 - GR38 - GR47 - GR55 - GR72		
Flanges / Flange	Group 1 - Group 2 (European, German, BKT, SAE-A) - Group 3 (European, SAE-B) Gruppo 1 - Gruppo 2 (Europeo, Tedesco, BKT, SAE-A) - Gruppo 3 (Europeo, SAE-B) ISO 3019/2 – IEC standard (per accoppiamento diretto)		
Connections / Connessioni	GAS - SAE 3/4' 3000 PSI - FL 4 HOLES M6 SU Ø40 DN20 (***) / GAS - SAE 3/4' 3000 PSI FL 4 HOLES M6 SU Ø40 DN20 (***)		
Installation position / Posizione di installazione	External, underoil / Esterna e immersa		
Shaft rotation / Rotazione albero	Clockwise / Destra (standard)		
Shaft speed / Velocità di rotazione	From 700 to 3.600 rpm (for GR72 to 2200RPM) / Da 700 a 3.600 rpm (per GR72 a 2200 RPM)		
Displacements - Flows / Dislocamento - Flusso	From 4 up to 200 cm³ - From 6L/min up to 300L/min (at 1.500 rpm) / Da 4 a 200 cm³ - Da 6L/min a 300L/min (a 1.500 rpm)		
Operating pressure (*) / Pressione operativa (*)	Continuous: 240 bar Cycle ON/OFF: 250 bar Peak: 280 bar		
Inlet pressure / Porta di ingresso	0,8 - 2 bar (****) / 0,8 – 2 bar (****)		
Fluids / Fluidi	Mineral oil HLP e HLVP - Ecologic fluids HETG-HEPG-HEE - Synthetic fluid or emulsion: (**) HFA oil-water emulsion - (**) HFB water-oil emulsion - (**) HFDR phosphate ester		
Viscosity / Viscosità	Permissible (**): from 20 up to 800 mm²/s [cSt] Recommended: from 24 up to 150 mm²/s [cSt] Starting conditions (**): up to 3.000 mm²/s [cSt]		
Environment temperature / Temperatura ambiente	From -15° up to +60°C / Da -15° a +60°C		
Hydraulic temperature / Temperatura idraulica	From -15° up to +80°C / Da -15° a +80°C		
Contamination Level / Livello di contaminazione	From 10 NAS (21/9/15 ISO4406) to 8 NAS (18/17/14 ISO4406) for heavy duty operations (*****) Da 10 NAS (21/9/15 ISO4406) a 8 NAS (18/17/14 ISO4406) per operazioni pesanti (*****)		
Filtration / Filtrazione	Inlet Port: from 50 to 30 µm for heavy duty operations (*****) Outlet Port: from 25 to 10 µm for heavy duty operations (*****) / Porta d'ingresso: da 50 a 30 µm per operazioni pesanti (*****) Porta d'uscita: da 25 a 10 µm per operazioni pesanti (*****)		
Seals / Guarnizioni	NBR, FKM, FPM, EPDM - Special on request / NBR, FKM, FPM, EPDM – Speciali su richiesta		
Noise / Rumore	from 52 up to 63 dB(A) at 2.950 rpm - Value based on ISO 4412 test procedure / da 52 a 63 dB(A) a 2.950 rpm - Valore rilevato con procedura ISO 4412		
Flanges / Flange	Cast Iron / Ghisa		
Pump body (standard) / Corpo pompa (standard)	Extruded aluminium alloy / Alluminio estruso		
Screw / Viti	Case hardened grinded steel / Acciaio temperato		
Maintenance / Manutenzione	No / Nessuna		

(*) Test executed with Oil ISO VG46 (40°C) – 10µm filtration - (**) Please contact the company to have further details - (****) Available on certain models upon customer request

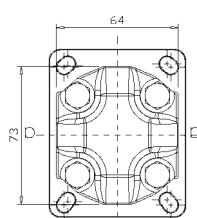
(*****) Up to 10 bar Shaft Seal available on certain models upon request - (*****) Heavy Duty operation are defined as above 150bar , more than 4h/day, more than 100 cycle/day, oil ISO 46

(*) Test eseguito con Olio ISO VG46 (40°C) - filtrazione a 10µm - (**) Per maggiori dettagli contatta i nostri uffici - (****) Disponibile su alcuni modelli su richiesta

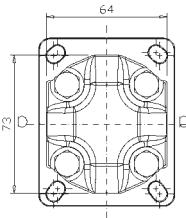
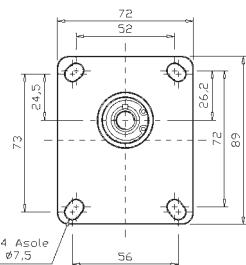
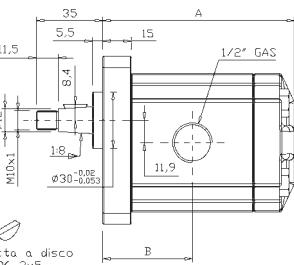
(****) Anello di tenuta dell'alberofino a 10 bar disponibili su alcuni modelli - (*****) Operazioni Pesanti sono definite come sopra 150bar , piu' di 4h/day, oltre 100 cicli/giorno con olio ISO 46.

Dimensional drawing - GR28

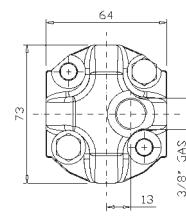
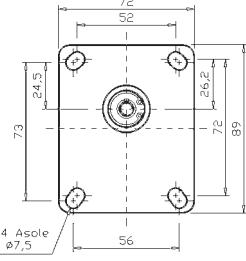
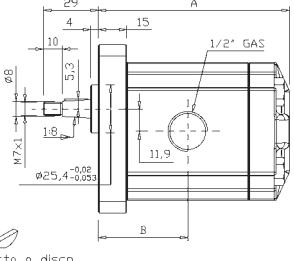
Shaft types & dimensions



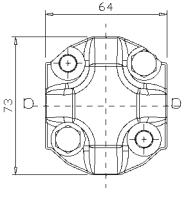
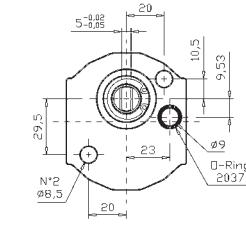
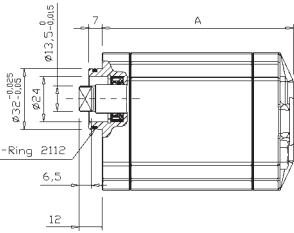
Linguetta a disco
UNI 6606-3x5



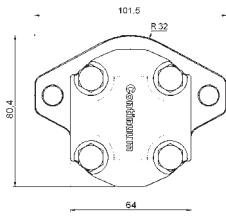
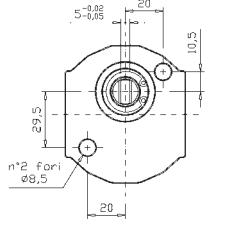
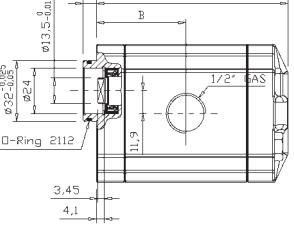
Linguetta a disco
n°304 0,094" x 0,203"



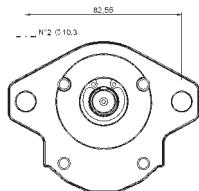
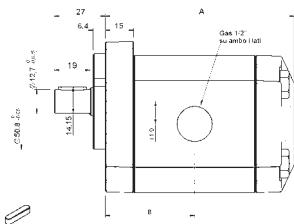
3/8" GAS



3/8" GAS



Linguetta 0,126" x 0,126" x 0,59"



Disegni dimensionali - GR28

Tipo albero e dimensioni

Type / Tipo 1-C3

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
4	4,2	6	95,6	44,55	275	280	300	55
6	6,4	9,2	101,1	47,3	275	280	300	55
8	8,3	12,0	106,1	49,8	246	260	280	55
10	10,2	14,7	111,1	52,3	222	250	270	55
13	12,9	18,6	118	55,75	176	230	250	55

Type / Tipo 1P-C2

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
4	4,2	6	95,6	44,55	275	280	300	55
6	6,4	9,2	101,1	47,3	275	280	300	55
8	8,3	12,0	106,1	49,8	246	260	280	55
10	10,2	14,7	111,1	52,3	222	250	270	55
13	12,9	18,6	118	55,75	176	230	250	55

Type / Tipo 1L-GL54

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
4	4,2	6	95,6	275	280	300	55	
6	6,4	9,2	101,1	275	280	300	55	
8	8,3	12,0	106,1	246	260	300	55	
10	10,2	14,7	111,1	222	250	300	55	
13	12,9	18,6	118	176	230	280	55	

Type / Tipo 1K-G54

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
4	4,2	6	95,6	44,55	275	280	300	55
6	6,4	9,2	101,1	47,3	275	280	300	55
8	8,3	12,0	106,1	49,8	246	260	300	55
10	10,2	14,7	111,1	52,3	222	250	300	55
13	12,9	18,6	118	176	230	280	55	

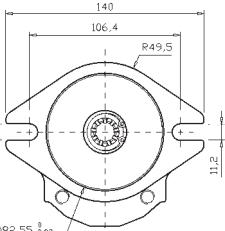
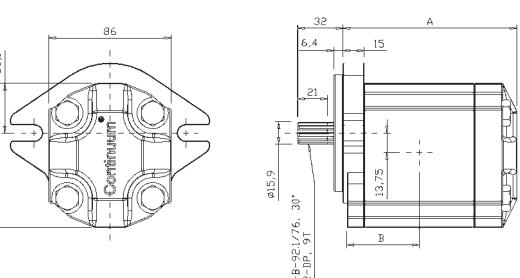
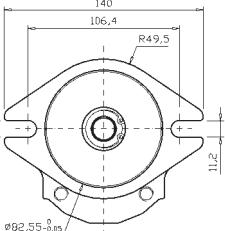
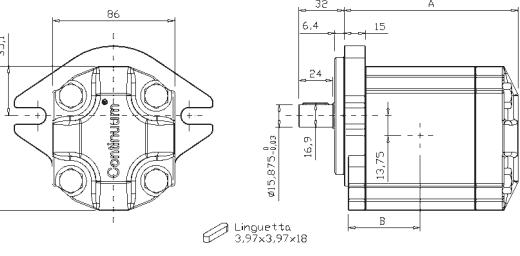
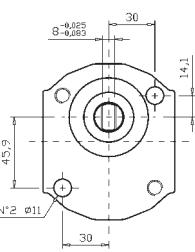
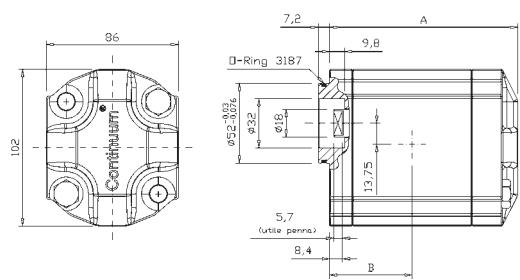
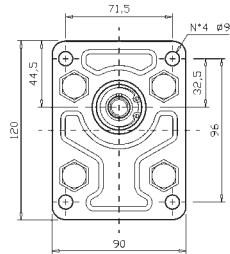
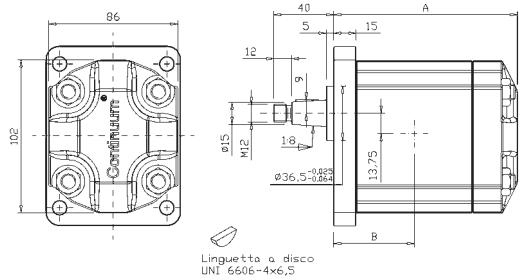
Type / Tipo SAEA - AC

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
4	4,2	6	95,6	44,55	234	238	255	55
6	6,4	9,2	101,1	47,3	234	238	255	55
8	8,3	12,0	106,1	49,8	209	221	238	55
10	10,2	14,7	111,1	52,3	189	213	230	55
13	12,9	18,6	118	55,75	150	196	213	55

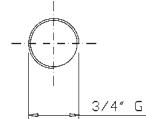
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Dimensional drawing - GR33

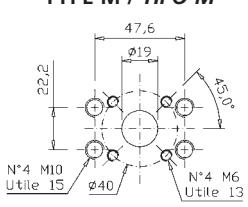
Shaft types & dimensions



TYPE G / TIPO G



TYPE M / TIPO M



Disegni dimensionali GR33

Tipo albero e dimensioni

Type / Tipo 2-C4

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
10	10,1	14,5	122,6	53,8	275	280	300	55
13	12,6	18,1	127,5	56,25	265	270	290	55
15	15,2	21,8	132,5	58,75	241	250	270	55
18	18,2	26,1	138,3	61,65	206	250	270	55

Type / Tipo 2BK-G54

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
10	10,1	14,5	122,6	53,8	275	280	300	55
13	12,6	18,1	127,5	56,25	265	270	290	55
15	15,2	21,8	132,5	58,75	241	250	270	55
18	18,2	26,1	138,3	61,65	206	250	270	55

Type / Tipo SAEA-AC

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
10	10,1	14,5	122,6	53,8	275	280	300	55
13	12,6	18,1	127,5	56,25	265	270	290	55
15	15,2	21,8	132,5	58,75	241	250	270	55
18	18,2	26,1	138,3	61,65	206	250	270	55

Type / Tipo SAEA-T9

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
10	10,1	14,5	122,6	53,8	275	280	300	55
13	12,6	18,1	127,5	56,25	265	270	290	55
15	15,2	21,8	132,5	58,75	241	250	270	55
18	18,2	26,1	138,3	61,65	206	250	270	55

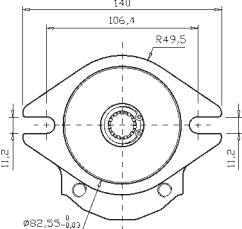
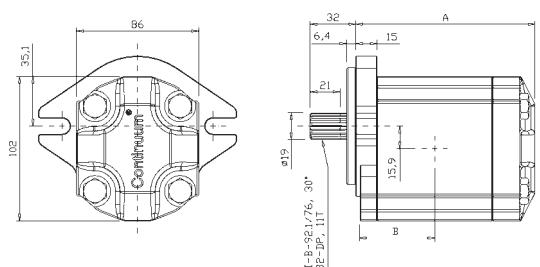
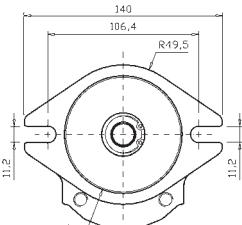
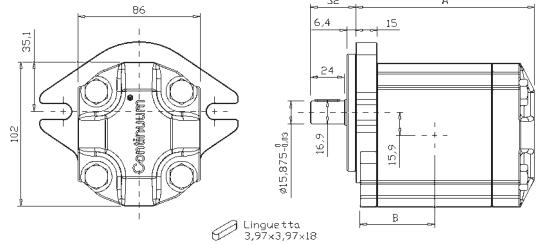
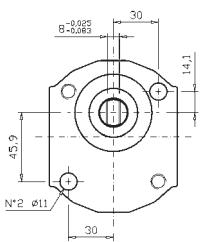
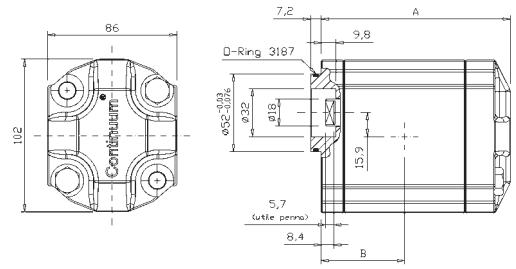
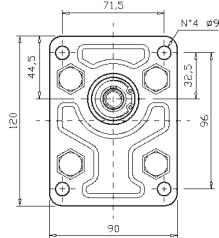
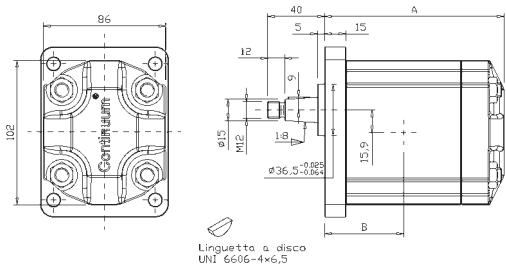
Available ports

Porte disponibili

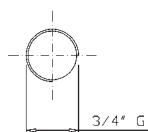
(*) Intermittent: cycle 20 sec. ON & 3 sec. OFF - Peak: cycle 1 sec. ON & 3 sec. OFF
Intermittente: ciclo 20 sec. ON & 3 sec. OFF - Picco: ciclo 1 sec. ON & 3 sec. OFF

Dimensional drawing - GR38

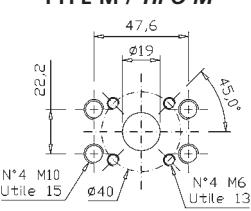
Shaft types & dimensions



TYPE G / TIPO G



TYPE M / TIPO M



Disegni dimensionali GR38

Tipo albero e dimensioni

Type / Tipo 2-C4

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
16	15,9	22,8	126,1	55,55	265	280	300	55
18	17,9	25,8	129,1	57,05	247	260	280	55
20	20	28,8	132,1	58,55	230	250	270	55
22	22,1	31,8	135,1	60,05	222	250	270	55
25	25,2	36,2	139,6	62,3	208	250	270	55
28	28,3	40,7	144,1	64,55	197	250	270	55

Type / Tipo 2BK7-G

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
16	15,9	22,8	126,1	55,55	265	280	300	55
18	17,9	25,8	129,1	57,05	247	260	280	55
20	20	28,8	132,1	58,55	230	250	270	55
22	22,1	31,8	135,1	60,05	222	250	270	55
25	25,2	36,2	139,6	62,3	208	250	270	55
28	28,3	40,7	144,1	64,55	197	250	270	55

Type / Tipo SAEA-AC

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
16	15,9	22,8	126,1	55,55	265	280	300	55
18	17,9	25,8	129,1	57,05	247	260	280	55
20	20	28,8	132,1	58,55	230	250	270	55
22	22,1	31,8	135,1	60,05	222	250	270	55
25	25,2	36,2	139,6	62,3	208	250	270	55
28	28,3	40,7	144,1	64,55	197	250	270	55

Type / Tipo SAEA-T11

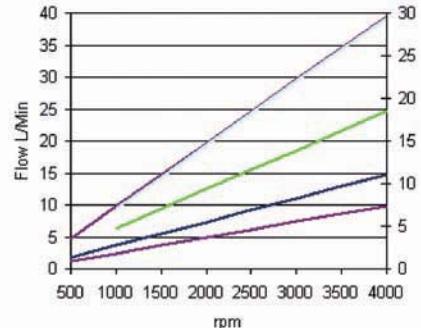
Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
16	15,9	22,8	126,1	55,55	265	280	300	55
18	17,9	25,8	129,1	57,05	247	260	280	55
20	20	28,8	132,1	58,55	230	250	270	55
22	22,1	31,8	135,1	60,05	222	250	270	55
25	25,2	36,2	139,6	62,3	208	250	270	55
28	28,3	40,7	144,1	64,55	197	250	270	55

Available ports

Porte disponibili

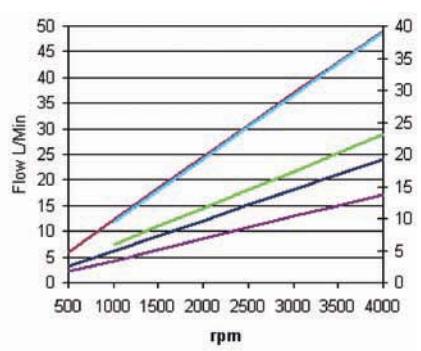
(*) Intermittent: cycle 20 sec. ON & 3 sec. OFF - Peak: cycle 1 sec. ON & 3 sec. OFF
Intermittente: ciclo 20 sec. ON & 3 sec. OFF - Picco: ciclo 1 sec. ON & 3 sec. OFF

PUMP PERFORMANCE CURVES For Group 2

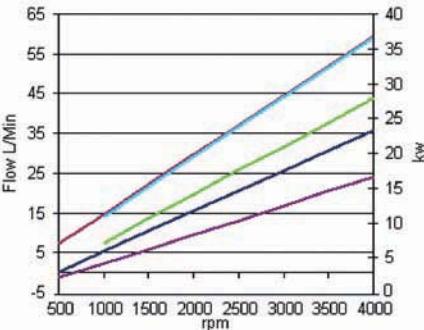


GROUP 2 Displacement CC/Rev

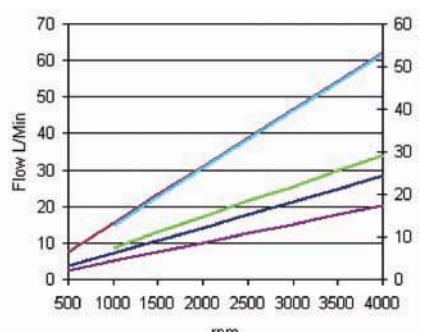
10 20



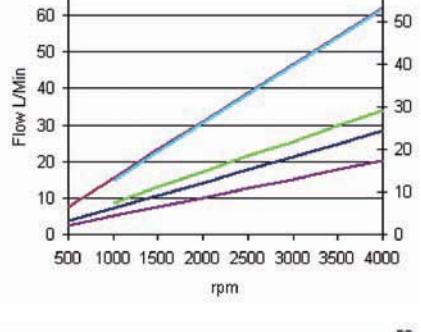
13 22



15 25

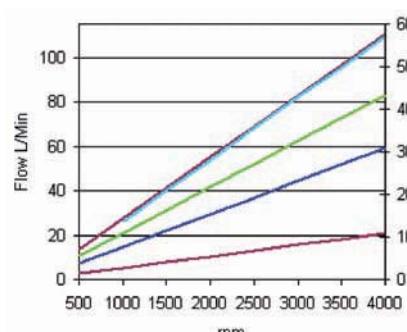
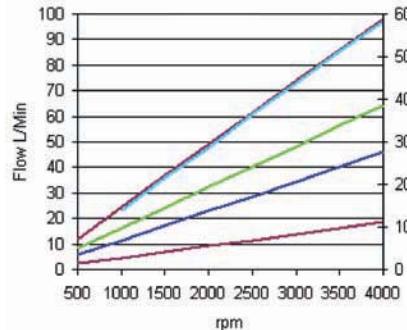
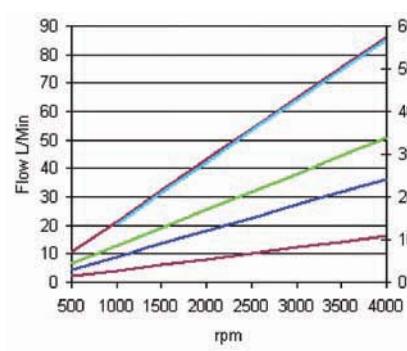
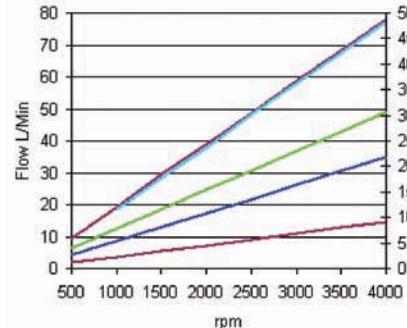


16 28



18

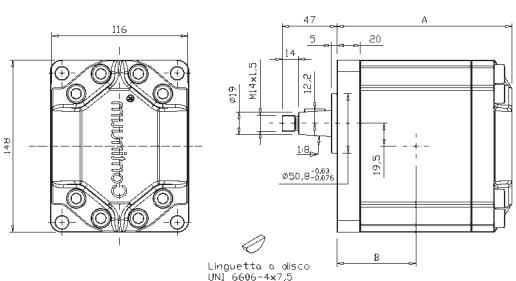
CURVE PRESTAZIONI POMPE per Gruppo 2



— 7bar L/m
— 250bar L/m
— 100 bar kW
— 150 bar kW
— 250 bar kW

Dimensional drawing - GR47

Shaft types & dimensions

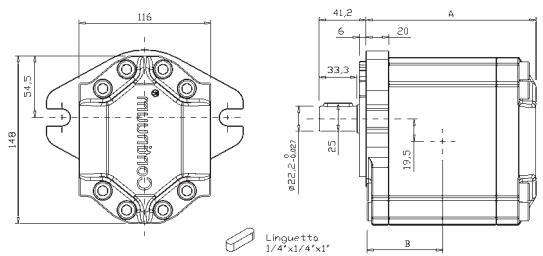


Disegni dimensionali - GR47

Tipo albero e dimensioni

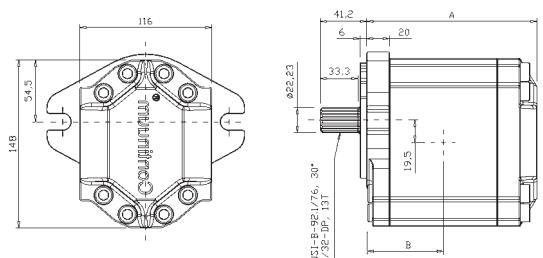
Type / Tipo 3-C9

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
28	28	40,3	150,1	67,55	270	280	300	57
32	32,2	46,3	154,1	69,55	252	270	280	57
36	36,3	52,3	158,1	71,55	239	250	270	57
40	40,5	58,3	162,1	73,55	225	250	270	57
45	45,1	65,0	166,6	75,8	213	250	270	57
50	50,3	72,4	171,6	78,3	202	250	270	57



Type / Tipo SAEB-AC

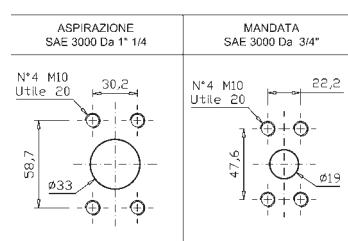
Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
28	28	40,3	150,1	67,55	270	280	300	57
32	32,2	46,3	154,1	69,55	252	270	280	57
36	36,3	52,3	158,1	71,55	239	250	270	57
40	40,5	58,3	162,1	73,55	225	250	270	57
45	45,1	65,0	166,6	75,8	213	250	270	57
50	50,3	72,4	171,6	78,3	202	250	270	57



Type / Tipo SAEB-T11

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
28	28	40,3	150,1	67,55	270	280	300	57
32	32,2	46,3	154,1	69,55	252	270	280	57
36	36,3	52,3	158,1	71,55	239	250	270	57
40	40,5	58,3	162,1	73,55	225	250	270	57
45	45,1	65,0	166,6	75,8	213	250	270	57
50	50,3	72,4	171,6	78,3	202	250	270	57

TYPE O / TIPO O



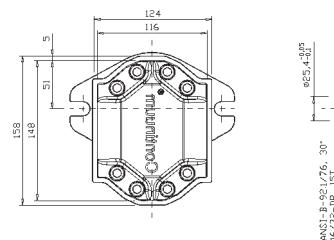
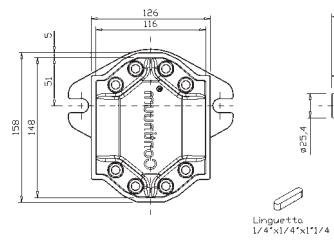
Available ports

Porte disponibili

(*) Intermittent: cycle 20 sec. ON & 3 sec. OFF - Peak: cycle 1 sec. ON & 3 sec. OFF
Intermittente: ciclo 20 sec. ON & 3 sec. OFF - Picco: ciclo 1 sec. ON & 3 sec. OFF

Dimensional drawing - GR55

Shaft types & dimensions

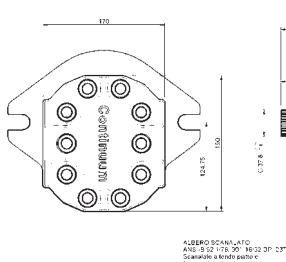
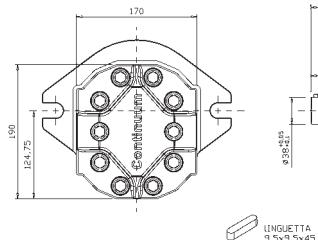


TYPE O / TIPO O

Suction / Aspirazione SAE 3000 Da 1" 1/4"	Pressure / Mandata SAE 3000 DA 3/4"
N°4 - M10 Utile 20 30,2	N°4 - M10 Utile 18 22,2
53,7 Ø33	47,6 Ø19

Dimensional drawing - GR72

Shaft types & dimensions



TYPE M / TIPO M

INTERFAZIA DI MANDATA: SAE-6C00 da 1" 1/2"	INTERFAZIA DI ASPIRAZIONE: SAE-3000 da 2"
Ø28 35,5 79,4 N°4 M16 UNI 26	Ø51 77,8 Ø25 L N°4 M12 UNI 22

Disegni dimensionali - GR55

Tipo albero e dimensioni

Type / Tipo SAEB-AC

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
50	50,5	72,7	178,1	81,55	275	280	300	57
63	63,5	91,4	187,1	86,05	249	260	280	57
75	75	108,1	195,1	90,05	229	250	270	57
90	90,9	130,9	206,1	95,55	178	240	260	57

Type / Tipo SAEB-T15

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
50	50,5	72,7	178,1	81,55	275	280	300	57
63	63,5	91,4	187,1	86,05	249	260	280	57
75	75	108,1	195,1	90,05	229	250	270	57
90	90,9	130,9	206,1	95,55	178	240	260	57

Available ports

Porte disponibili

Disegni dimensionali - GR72

Tipo albero e dimensioni

Type / Tipo SAED-AAC

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
94	94,1	136	245,2	125,6	270	280	300	57
101	101,45	147	248,2	127,1	252	270	300	57
125	125,5	181	258,2	132,1	239	250	300	57
150	150,9	218	268,7	137,35	225	250	275	57
175	175	253	278,7	142,35	213	250	275	57
200	200,4	290	289,2	147,6	202	250	275	57

Type / Tipo FSAED/A23T

Type Tipo	CC	L/min	Dim A	Dim B	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
94	94,1	136	245,2	125,6	270	280	300	57
101	101,45	147	248,2	127,1	252	270	300	57
125	125,5	181	258,2	132,1	239	250	300	57
150	150,9	218	268,7	137,35	225	250	275	57
175	175	253	278,7	142,35	213	250	275	57
200	200,4	290	289,2	147,6	202	250	275	57

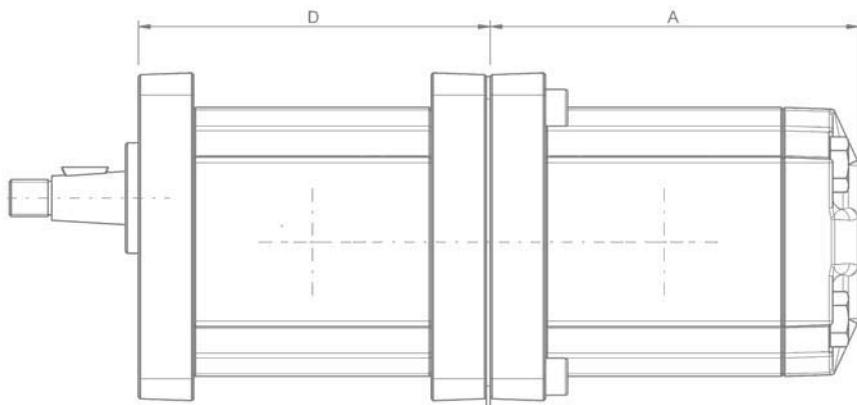
Available ports

Porte disponibili

(*) Intermittent: cycle 20 sec. ON & 3 sec. OFF - Peak: cycle 1 sec. ON & 3 sec. OFF
Intermittente: ciclo 20 sec. ON & 3 sec. OFF - Picco: ciclo 1 sec. ON & 3 sec. OFF

Dimensional drawing Tandem Group 1 + 1

For unit dimensions please refer to GR28 dimensional drawings



Disegni dimensionali Tandem Gruppo 1+Gruppo 1

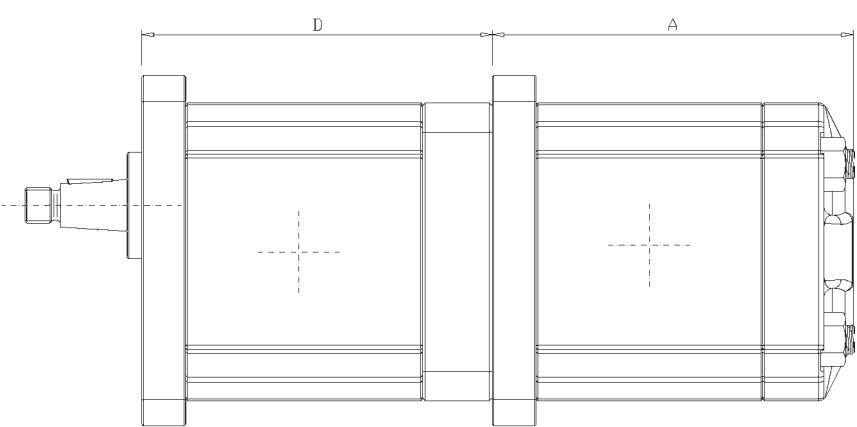
Per dimensionali delle singole pompe vedere sezioni precedenti

Front Pump 1° stadio	CC	Dim D	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
GR28	4,2	90	275	280	300	55
	6,4	95,5	275	280	300	55
	8,3	100,5	246	260	280	55
	10,2	105,5	222	250	270	55
	12,9	112,4	176	230	250	55
GR28	4,2	95,6	275	280	300	55
	6,4	101,1	275	280	300	55
	8,3	106,1	230	240	270	55
	10,2	111,1	190	210	240	55
	12,9	118	150	170	200	55

mm bar bar bar dB (A)

Dimensional drawing Tandem Group 2 + 2

For unit dimensions please refer to GR33 and GR38 dimensional drawings



Disegni dimensionali Tandem Gruppo 2+Gruppo 2

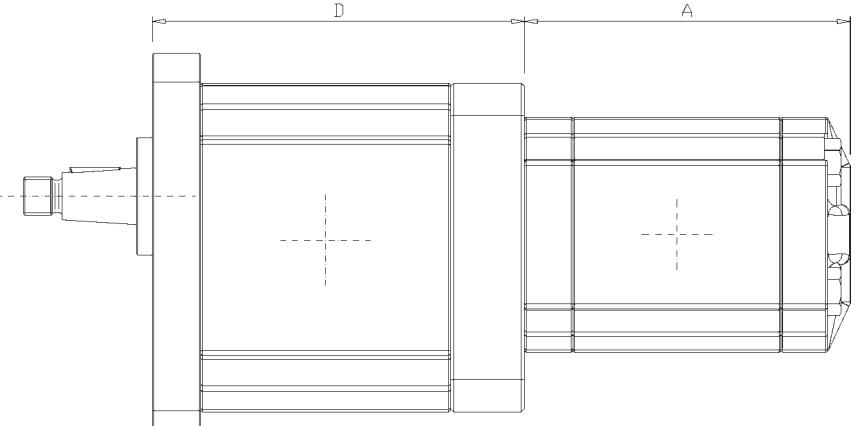
Per dimensionali delle singole pompe vedere sezioni precedenti

Front Pump 1° stadio	CC	Dim D	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
GR33	010	113,6	275	280	300	55
	013	118,5	265	270	300	55
	015	123,5	241	250	300	55
	018	129,3	206	250	300	55
GR38	016	120,1	265	280	300	55
	018	123,1	247	260	300	55
	020	126,1	230	250	300	55
	022	129,1	222	250	300	55
	025	133,6	208	250	300	55
	028	138,1	197	250	300	55

mm bar bar bar dB (A)

Dimensional drawing Tandem Group 2 + 1

For unit dimensions please refer to GR33 and GR38 dimensional drawings



Disegni dimensionali Tandem Gruppo 2+Gruppo 1

Per dimensionali delle singole pompe vedere sezioni precedenti

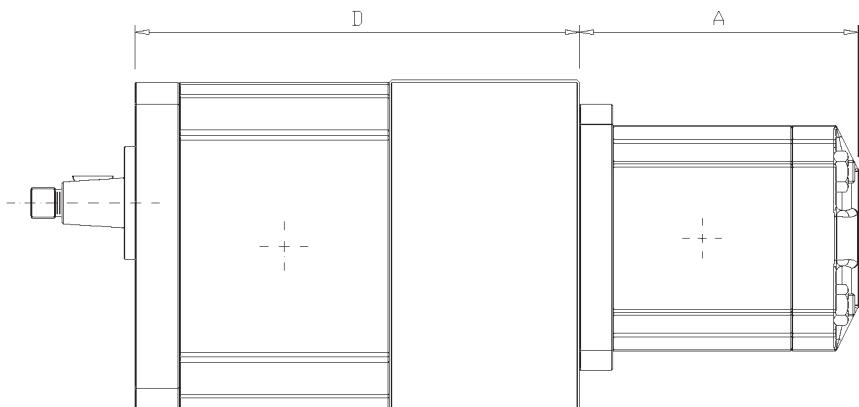
Front Pump 1° stadio	CC	Dim D	Cont Press	Interm Press (*)	Peak Press Press. Picco (*)	Noise Level Livello Rumore
GR33	010	115,6	275	280	300	55
	013	120,5	265	270	300	55
	015	125,5	241	250	300	55
	018	131,3	206	250	300	55
GR38	016	122,1	265	280	300	55
	018	125,1	247	260	300	55
	020	128,1	230	250	300	55
	022	131,1	222	250	300	55
	025	135,6	208	250	300	55
	028	140,1	197	250	300	55

mm bar bar bar dB (A)

For dimension "A" make reference to pages 4-9
Per la misura "A" fare riferimento alle pagine da 4 a 9

Dimensional drawing Tandem Group 3 + 2

For unit dimensions please refer to GR33 and GR38 dimensional drawings



Disegni dimensionali Tandem Gruppo 3 + Gruppo 2

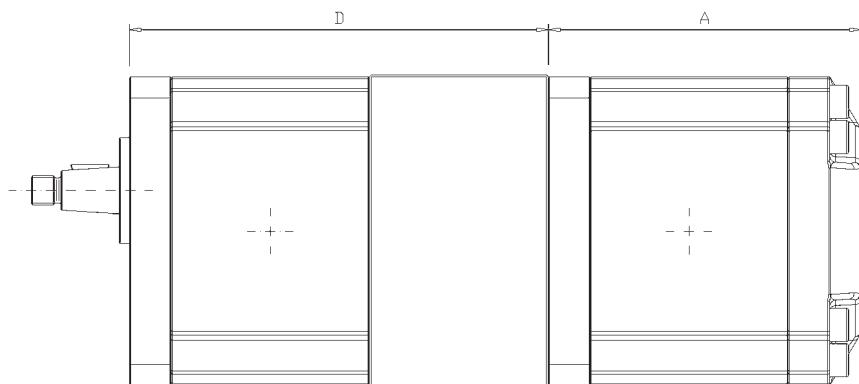
Per dimensionali delle singole pompe vedere sezioni precedenti

Front Pump 1° stadio	CC	Dim D	Cont	Interm	Peak Press	Noise Level
			Press	Press (*)	Press. Picco (*)	Livello Rumore
GR47	28	201,1	270	280	300	57
	32	205,1	252	270	300	57
	36	209,1	239	250	300	57
	40	213,1	225	250	300	57
	45	217,6	213	250	300	57
	50	222,6	202	250	300	57

mm bar bar bar dB (A)

Dimensional drawing Tandem Group 3 + 3

For unit dimensions please refer to GR33 and GR38 dimensional drawings



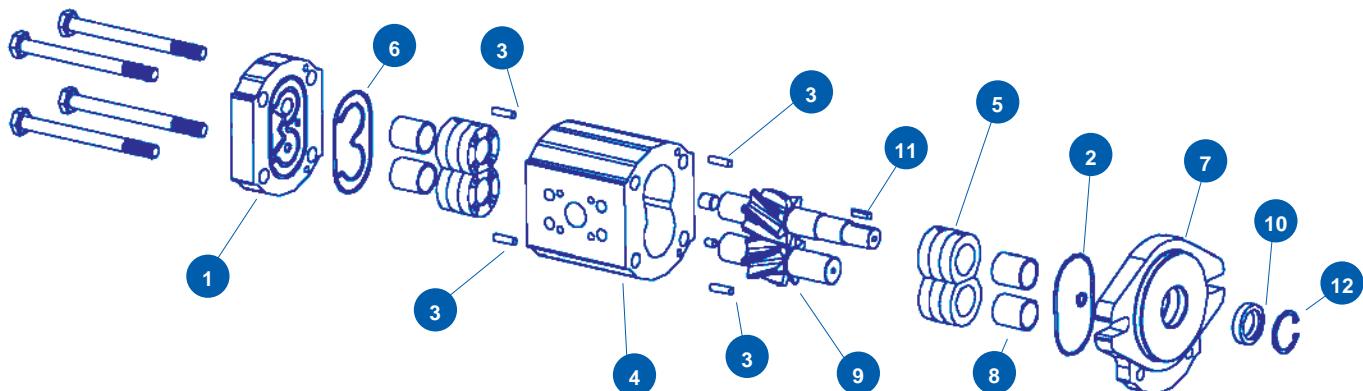
Disegni dimensionali Tandem Gruppo 3 + Gruppo 3

Per dimensionali delle singole pompe vedere sezioni precedenti

Front Pump 1° stadio	CC	Dim D	Cont	Interm	Peak Press	Noise Level
			Press	Press (*)	Press. Picco (*)	Livello Rumore
GR47	28	201,1	270	280	300	57
	32	205,1	252	270	300	57
	36	209,1	239	250	300	57
	40	213,1	225	250	300	57
	45	217,6	213	250	300	57
	50	222,6	202	250	300	57

mm bar bar bar dB (A)

Component description Descrizioni dei componenti



- 1 Flange/Flangia
- 2 O-ring seal/O-ring
- 3 Centring key /Spine di centraggio
- 4 Body/Corpo

- 5 Bushings/Bronzine
- 6 O-ring seal/O-ring
- 7 Motor flange/Flangia motore
- 8 Bushings/Bronzine

- 9 Continuum® rotor/Rotore Continuum®
- 10 Seal/Anello di tenuta
- 11 Shaft key/Chiavetta
- 12 Seeger / Seeger

For dimension "A" make reference to pages 4-9
Per la misura "A" fare riferimento alle pagine da 4 a 9

Ordering code / Codice d'ordinazione

GR** 1	2V 2	***CC 3	F****A*** 4	*	*	** 7		
Pump Type Tipo	Class Classe	Displacement Cilindrata	Flange & Shaft Flangia & Albero	Ports Porte	Shaft Seal Guarnizione Albero	Rotation Rotazione		
28		004-006-008-010-013	F1AC3-F1PAC2-F1KAG54-F1LAGL54-FSAE AAC	G	(none) V	DX (default) SX		
33		010-013-015-018	F2AC4-F2BK7AG-FSAE AAC-FSAE AT9	G-M				
38		016-018-020-022-025-028	F2AC4-F2BK7AG-FSAE AAC-FSAE AT11					
47		028-032-036-040-045-050	F3AC9-FSAEBAC-FSAEBAT13	O				
55		050-063-075-090	FSAEBAC-FSAEBAT15					
72		094-101-125-150-175-200	FSAEDAC-FSAEDAT23	M				

Ordering code multiple pumps / Codice d'ordinazione pompe multiple

DG** 1	2V 2	***CC 3	F****A*** 4	*	GR** 6	***CC 7	*	*	** 10
Pump Type Tipo	Class Classe	Displacement 1st stage Cilindrata primo stadio	Flange & Shaft Flangia & Albero	Ports Porte	Displacement 2nd stage Cilindrata secondo stadio	Ports Porte	Shaft Seal Guarnizione	Rotation Rotazione	Albero

First stage - primo stadio			Second stage - secondo stadio									
28	004-006-008-010-013	F1AC3	G	28	004-006-008-010-013	G	(none) V	DX (default) SX				
33	010-013-015-018	F2AC4	G-M	33	010-013-015-018	G-M						
38	016-018-020-022-025-028	F2AC4		38	016-018-020-022-025-028							
47	028-032-036-040-045-050	F3AC9	O	33	010-013-015-018	G-M						
55	050-063-075-090	FSAEBAT15		38	016-018-020-022-025-028							
				47	028-032-036-040-045-050	O						
				33	010-013-015-018	G-M						
				38	016-018-020-022-025-028							
				47	028-032-036-040-045-050	O						
				55	050-063-075-090	O						

Group /
Gruppo

Product Range / Gamma Prodotti

Displacement (cc/rev)
Cilindrata

1	GR28	4,2 6,4 8,3 10,2 12,9
2	GR33	10,1 12,6 15,2 18,2
	GR38	15,9 17,9 20,0 22,1 25,2 28,3
3	GR47	28,0 32,2 36,3 40,5 45,1 50,3
	GR55	50,5 63,5 75,0 90,9
4	GR72	94,1 101,4 125,5 150,9 175,0 200,4

6 10 18 28 50 90 200



Versione Cont_ITA-UK_1.2

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Area Agency/Reseller

