

POMPE E MOTORI IN ALLUMINIO SERIE Z1
ALUMINIUM PUMPS AND MOTORS Z1 SERIES



La Ronzio Oleodinamica fu fondata nel 1950 da Dante Ronzio esperto in meccanica di precisione.

La prima attività dell'azienda fu la lavorazione di pompe per motori diesel, seguita, qualche anno più tardi, dalla costruzione di pompe oleodinamiche ad ingranaggi, che presto divenne la produzione prevalente.

La passione del fondatore per la meccanica fine ha lasciato nella Ronzio Oleodinamica un'impronta significativa; il motto dell'azienda è sempre stato quello di operare all'insegna della qualità e precisione, sia nell'impiego delle materie prime sia nel controllo del processo produttivo.

La Ronzio Oleodinamica produce ora pompe, motori e divisori di flusso che trovano impiego in molti settori industriali sia nel veicolo che negli impianti fissi, nelle macchine agricole, forestali e nel movimento terra.

La struttura snella della nostra azienda e la nostra esperienza sono la risposta ai clienti che cercano in noi non solo un fornitore ma un partner nello sviluppo dei loro progetti.

Il nostro sistema qualità è certificato da DNV dal 1998.

Ronzio Oleodinamica was established in 1950 by Mr. Dante Ronzio, fond of precision mechanics.

The Company started its activity machining pumps for diesel motors. The passion of the founder for fine mechanics left an important mark in the Company. The production of hydraulic gear pumps started some years later, and became soon the main activity of the Company.

Since the beginning Ronzio Oleodinamica has been focusing on quality and precision. Our Company uses top quality components, and the most advanced computerized machines, in both the production and the testing process.

Ronzio Oleodinamica manufactures gear pumps, motors and flow dividers in aluminium and in cast iron for a wide range of industries including: construction, forestry, agriculture, industrial vehicle, earth moving, industrial.

Today, our products are worldwide appreciated.

Our experience and our lean structure are suitable for customers who need a direct involvement of the supplier in their projects.

Our quality system has been certified by DNV since 1998.

Caratteristiche principali

- ◆ Coperchi in ghisa e in alluminio
- ◆ Possibilità di funzionare ad alte pressioni: fino a 300 bar di pressione massima in funzionamento continuo.
- ◆ Compensazione assiale per il recupero dei giochi
- ◆ Alto rendimento volumetrico: 95% medio.
- ◆ Ampia disponibilità di cilindrata: 0.8 -1.1-1.6-2.1-2.6-3.2-3.7-4.2-4.8-5.5 6.2-7.8-8.8 -10.5 cm³/giro
- ◆ Corpo in alluminio estruso
- ◆ Progetto accurato del profilo del dente per avere una bassa rumorosità.
- ◆ Vasta gamma di flange, alberi e connessioni compatibili con i principali standard del mercato.
- ◆ Disponibilità di guarnizioni per alte temperature
- ◆ Pompe e motori unidirezionali
- ◆ Pompe e motori bidirezionali
- ◆ Possibilità di montaggio di pompe multiple sia nelle serie in alluminio che con altre serie in ghisa prodotte dalla Ronzio Oleodinamica

Main Features

- ◆ *Cast iron and alloy covers*
- ◆ *High pressure option: up to 300 bar max. continuous pressure (4350 psi)*
- ◆ *Axial compensation achieved using pressure balanced bushing blocks.*
- ◆ *High volumetric efficiency: average 95%*
- ◆ *Wide range of capacities : 0.8 -1.1-1.6-2.1-2.6-3.2-3.7-4.2-4.8-5.5 6.2-7.8-8.8 -10.5 cm³/rev*
- ◆ *Extruded aluminium body*
- ◆ *Gear tooth profile accurately projected providing low noise operation.*
- ◆ *A wide variety of shafts, flanges and ports are available to meet specific application requirements.*
- ◆ *High-temperature seals available.*
- ◆ *Single rotational pumps and motors.*
- ◆ *Bi-rotational pumps and motors.*
- ◆ *Multiple pumps availability: tandem pumps are possible both in aluminium series and with other cast iron series produced by Ronzio Oleodinamica*

CONDIZIONI PER L'UTILIZZO DELLE POMPE E MOTORI "Z1"

CONDITIONS OF USE FOR PUMPS AND MOTORS "Z1"

Nell'utilizzo della pompa evitare carichi radiali e assiali sull'albero.

Il giunto di trascinamento deve compensare eventuali errori di allineamento , deve essere di tipo elastico oppure di tipo Oldham.

Per un corretto funzionamento e una lunga durata della pompa, osservare i valori riportati nella tabella seguente.

Avoid radial and axial loads on the pump shaft during the use.

The pump must be in line with the P.T.O. to compensate misalignment errors, use flexible or "Oldham" coupling.

We recommend to read the specifications in this catalogue very carefully. This will help you in getting the best, in terms of working conditions and life, from Ronzio gear pumps.

CONDIZIONI DI L'UTILIZZO

USE CONDITIONS

Fluidi idraulici Hydraulic fluids		Oli idraulici a base minerale (DIN 51524) Per utilizzo di fluidi non infiammabili come acqua e glicole , emulsione di olio in acqua,o esteri fosforici, contattare il nostro ufficio tecnico o commerciale <i>Mineral oil (DIN 51524)</i> <i>For use with fire resistant fluids like water glycol, water- oil emulsion and phosphate-esters, contact our technical or commercial office.</i>	
Pressione in aspirazione Inlet pressure		0.7 - 3 bar (Assoluti / Absolute) 10 - 44 psi (Assoluti / Absolute)	
Velocità olio nella linea di aspirazione Oil speed on suction line		0.5 ÷ 1.5 m/s	
Velocità olio nella linea di mandata Oil speed on pressure line		6 ÷ 10 m/s	
Temperatura olio Oil temperature		-10°C ÷ 80°C	
Viscosità olio Oil viscosity		20 ÷ 120 mm ² / s (Cst)	
Massima viscosità olio all'avvio Max starting viscosity		700 mm ² / s (Cst)	
Filtraggio olio Oil filtration	Pressione Pressure	< 200 bar	> 200 bar
	Classe di contaminazione NAS 1638 Contamination class NAS 1638	10	9
	Classe di contaminazione ISO 4406 Contamination class ISO 4406	19/16	18/15
	Rapporto β _x ≥ 75 Ratio β _x ≥ 75	25μm	10μm

FORMULE PER DIMENSIONAMENTO

DETERMINATION OF NOMINAL SIZE

PER POMPE
FOR PUMP

$$Q = \frac{V * \eta_v * n}{1000}$$

$$M = \frac{p * V}{62.8 * \eta_m}$$

$$P = \frac{p * Q}{600 * \eta_t}$$

PER MOTORI
FOR MOTOR

$$Q = \frac{V * n}{1000 * \eta_v}$$

$$M = \frac{p * V * \eta_m}{62.8}$$

$$P = \frac{p * Q * \eta_t}{600}$$

V [cm³]
 Q [l/min]
 p [bar]
 M [Nm]
 n [min⁻¹]
 P [Kw]

η_v = EFF vol. ≥ 95
 η_m = EFF mecc. ~ 0.85

η_t = η_v * η_m. ~ 0.8

CARATTERISTICHE PRINCIPALI

MAIN CHARACTERISTICS

FLANGIA E COPERCHI IN ALLUMINIO / ALLOY COVER AND FLANGE															
Tipo Type		08	11	16	21	26	32	37	42	48	55	62	78	88	105
Cilindrata Capacity	Cm ³ / giro Cm ³ / rev	0.80	1.08	1.59	2.09	2.59	3.15	3.68	4.19	4.79	5.49	6.2	7.81	8.82	10.5
P1 Pressione max continua Max working pressure	Bar	240	240	240	240	230	210	210	190	180	170	150	130	120	100
P2 Pressione intermittente Intermittent pressure	Bar	260	260	250	250	250	240	230	210	200	180	160	140	130	120
P3 Pressione max di picco Max peak pressure	Bar	280	280	280	280	280	270	260	240	230	210	190	170	160	130
Velocità max per pressione P1 Max speed for P1 pressure	Giri / min Rpm	6000	6000	6000	6000	5500	4500	4000	3800	3500	3500	3000	3000	3000	3000
Velocità max a vuoto Max speed without load	Giri / min Rpm	8000	8000	8000	8000	8000	7000	6000	5500	5000	4500	4500	4000	4000	4000
Velocità min. per pressione P1 Min speed for P1 pressure	Giri / min Rpm	1100	1100	950	800	700	600	500	450	400	400	400	400	400	400

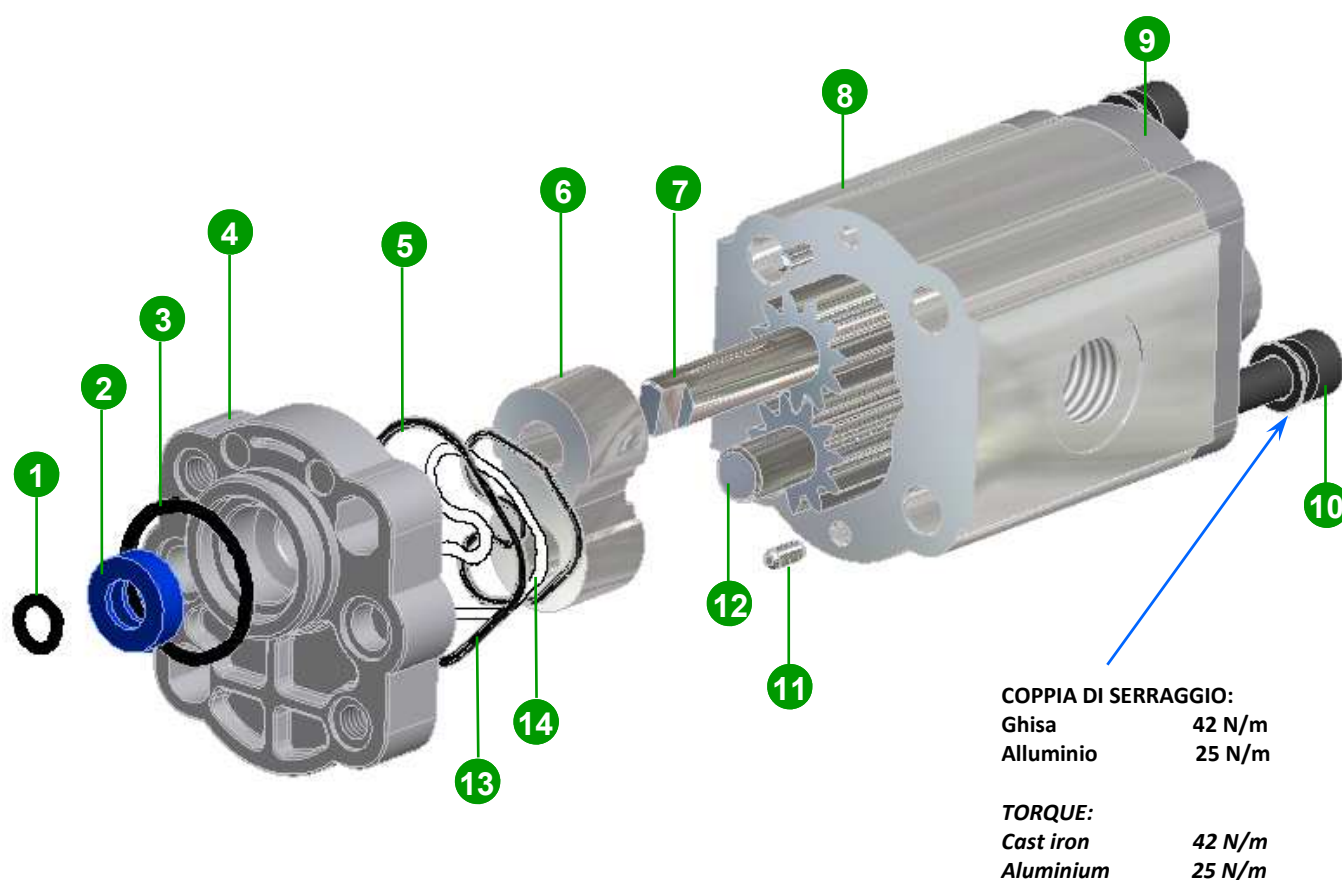
FLANGIA E COPERCHI IN GHISA / CAST IRON COVER AND FLANGE															
Tipo Type		08	11	16	21	26	32	37	42	48	55	62	78	88	105
Cilindrata Capacity	Cm ³ / giro Cm ³ / rev	0.80	1.08	1.59	2.09	2.59	3.15	3.68	4.19	4.79	5.49	6.2	7.81	8.82	10.5
P1 Pressione max continua Max working pressure	Bar	300	300	300	300	300	300	275	260	260	240	230	190	170	140
P2 Pressione intermittente Intermittent pressure	Bar	320	320	320	320	320	320	290	275	275	250	240	200	180	160
P3 Pressione max di picco Max peak pressure	Bar	350	350	350	350	350	350	310	290	290	270	260	220	200	170
Velocità max per pressione P1 Max speed for P1 pressure	Giri / min Rpm	8000	8000	8000	7000	5700	4700	4400	4000	3600	3400	3200	3000	3000	3000
Velocità max a vuoto Max speed without load	Giri / min Rpm	8000	8000	8000	8000	8000	7000	6000	5500	5000	4500	4500	4000	4000	4000
Velocità min. per pressione P1 Min speed for P1 pressure	Giri / min Rpm	1500	1200	1000	800	650	550	450	400	350	300	250	200	200	150

Per alberi tipo D, N, Q, P, S e R le prestazioni sono maggiori di quelle indicate in tabella. Per maggiori informazioni contattare il nostro ufficio tecnico.

The performance of pumps with shaft D, N, Q, P, S and R are higher than the above table. Please contact our technical office for more information.

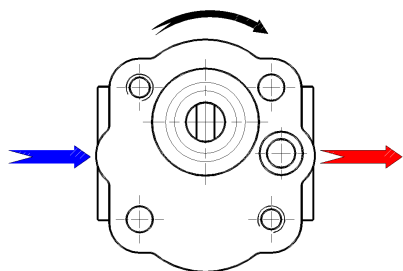
Per pompe o motori bidirezionali , diminuire la pressione del 15%
With bidirectional pumps or motors , pressure is reduced by 15%

COMPONENTI
PARTS

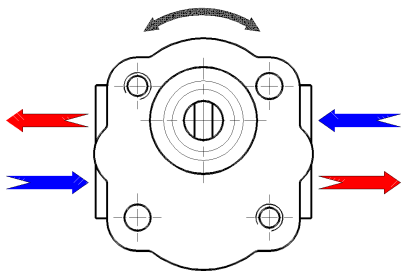


Rif.	Descrizione	Description	Qt.
1	OR Mandata	Outlet seal	1
2	Anello di tenuta	Rotary shaft seal	1
3	OR Flangia	Flange seal	1
4	Flangia	Front flange	1
5	Guarnizione sotto-coperchio	Under cover seal	2
6	Rasamento	Bushing block	2
7	Ingranaggio conduttore	Drive gear	1
8	Corpo	Housing	1
9	Coperchio	Cover	1
10	Vite	Bolt	2
11	Spina cilindrica	Pin	4
12	Ingranaggio condotto	Idle gear	1
13	Guarnizione di compensazione	Compensation seal	2
14	Antiestrusore	Seal against extruding	2

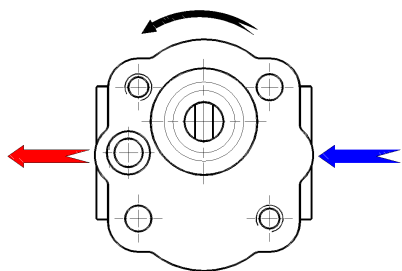
SENSO DI ROTAZIONE
ROTATION



Rotazione destra <i>Clockwise rotation</i>	Codice Code	D
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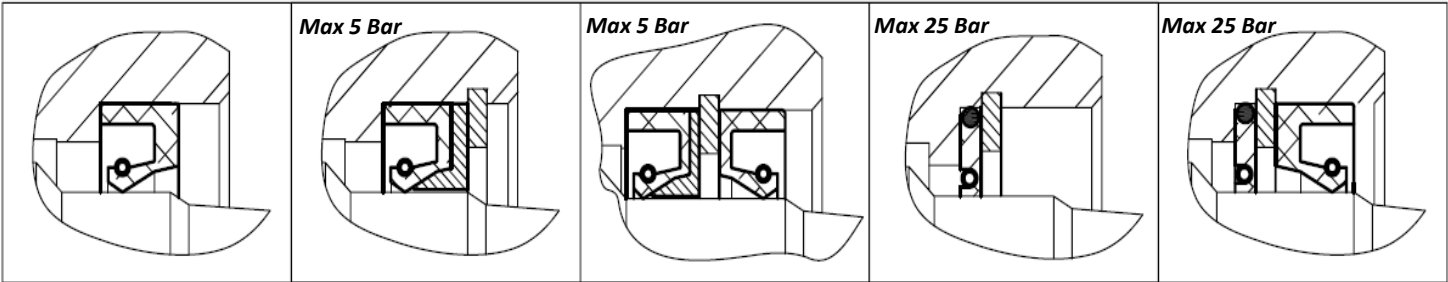
Rotazione bidirezionale drenaggio esterno <i>Bidirectional rotation with external drain</i>	Codice Code	R*
Rotazione bidirezionale drenaggio interno <i>Bidirectional rotation with internal drain</i>	Codice Code	Y



Rotazione sinistra <i>Anti-Clockwise rot.</i>	Codice Code	S
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Il senso di rotazione, è indicato con una freccia sul corpo della pompa .
Rotation, is indicated by an arrow on the body of the pump.

GUARNIZIONI PER ALBERI
SHAFT SEALS



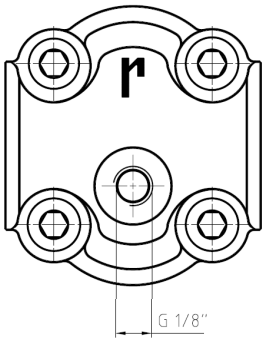
Codice Code	N	NBR
	V	VITON

Codice Code	R*	NBR
	RV	VITON

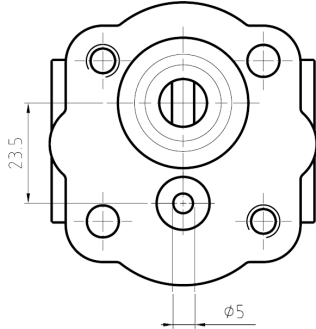
Codice Code	N2	NBR
	V2	VITON

Codice Code	B	//
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Codice Code	BN	NBR
	BV	VITON



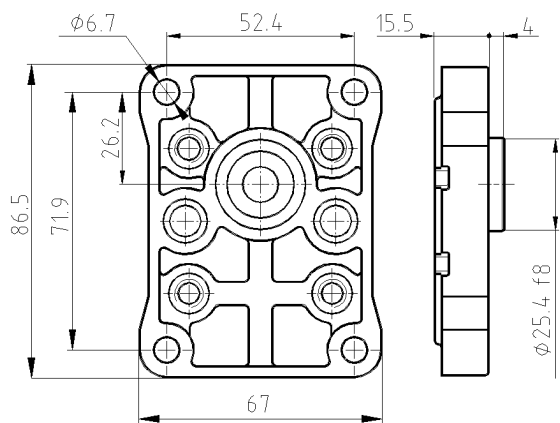
Drenaggio posteriore per pompe o motori reversibili <i>Rear drain for bidirectional pumps or motors</i>	R*
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Drenaggio anteriore per pompe o motori reversibili <i>Front drain for pumps or motors</i>	R1
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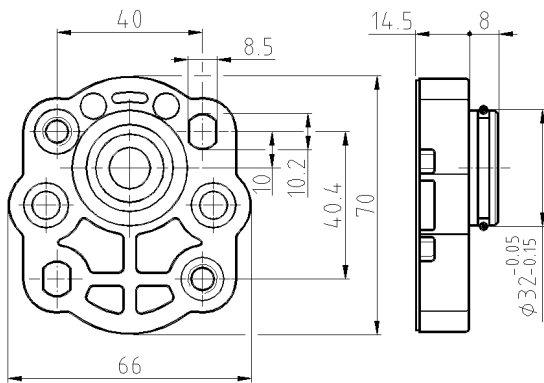
* il codice "R" comprende rotazione bidirezionale, paraolio rinforzato 5 bar e drenaggio posteriore
Code "R" includes bidirectional rotation, reinforced shaft seal 5 bar and rear drain

FLANGE
FLANGES



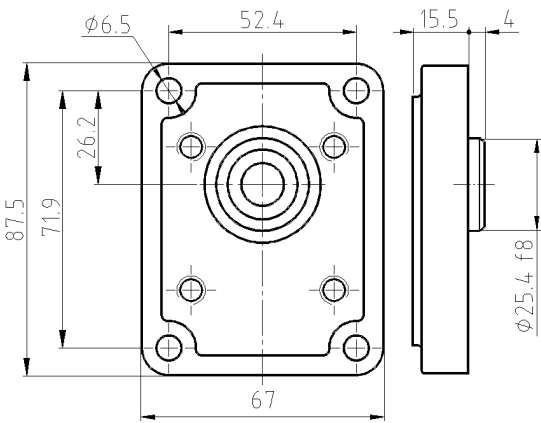
CODICE CODE	A	0	4
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NOTA : Materiale Alluminio
NOTE : Material Alloy



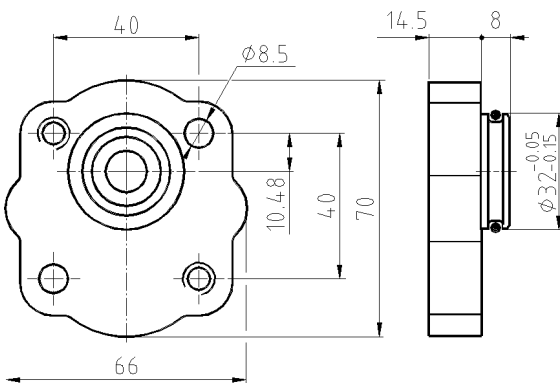
CODICE CODE	B	0	1
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NOTA : Materiale Alluminio
NOTE : Material Alloy



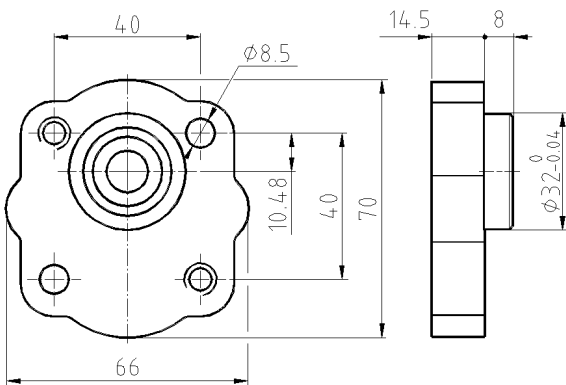
CODICE CODE	A	G	4
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NOTA : Materiale Ghisa
NOTE : Material cast iron



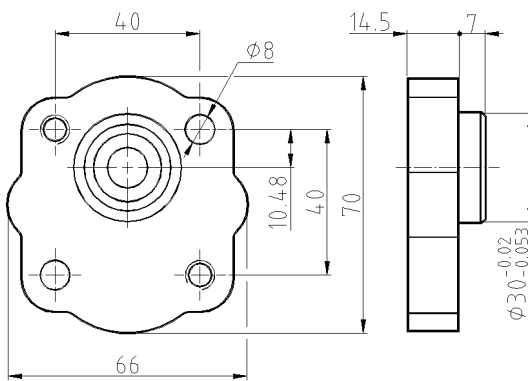
CODICE CODE	B	G	1
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NOTA : Materiale Ghisa
NOTE : Material cast iron



CODICE CODE	B	G	5
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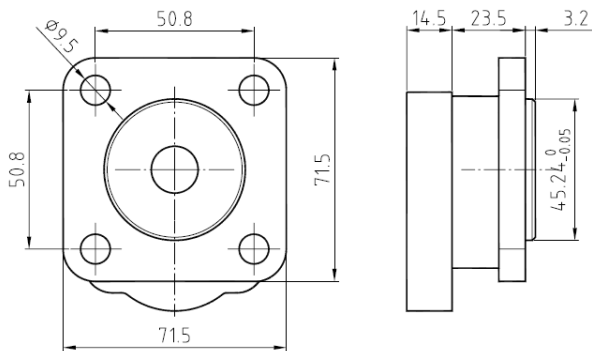
NOTA : Materiale Ghisa
NOTE : Material cast iron



CODICE CODE	B	G	2
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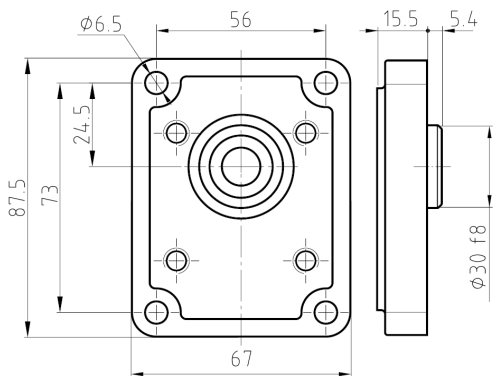
NOTA : Materiale Ghisa
NOTE : Material cast iron

FLANGE
FLANGES



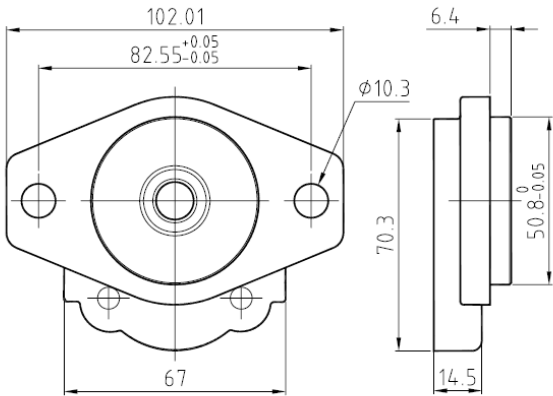
CODICE CODE	D	G	7
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NOTA : Materiale Ghisa
NOTE : Material cast iron



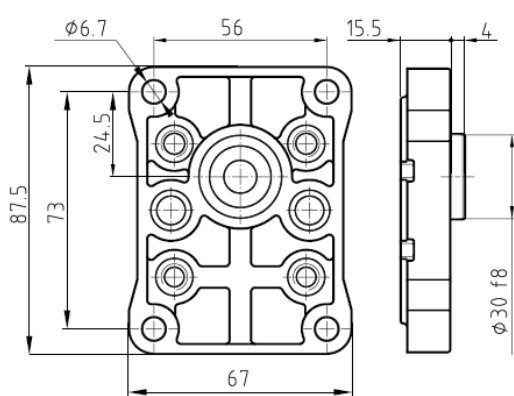
CODICE CODE	E	G	2
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NOTA : Materiale Ghisa
NOTE : Material cast iron



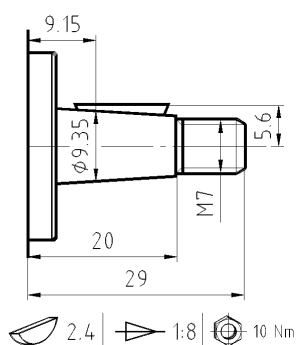
CODICE CODE	C	G	6
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NOTA : Materiale Ghisa
NOTE : Material cast iron



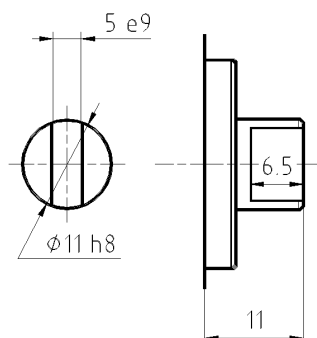
CODICE CODE	E	0	2
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NOTA : Materiale Ghisa
NOTE : Material cast iron



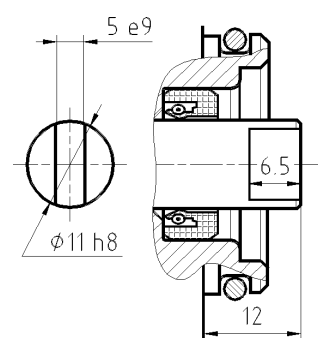
Coppia max 36 Nm
Max torque 36 Nm

CODICE / CODE	C		
PER FLANGIA / FOR FLANGE	A	G	4
	A	0	4



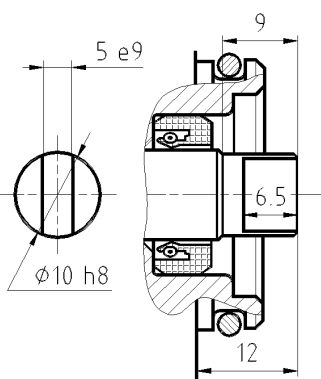
Coppia max 24 Nm
Max torque 24 Nm

CODICE / CODE	F		
PER FLANGIA / FOR FLANGE	A	G	4
	A	0	4



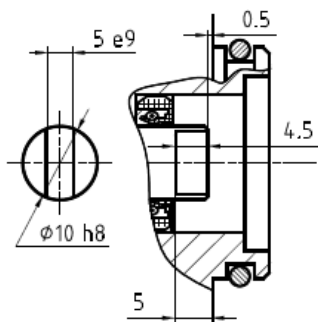
Coppia max 24 Nm
Max torque 24 Nm

CODICE / CODE	F		
PER FLANGIA / FOR FLANGE	B	G	1
	B	0	1



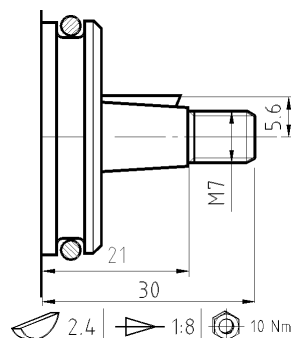
Coppia max 18 Nm
Max torque 18 Nm

CODICE / CODE	M		
PER FLANGIA / FOR FLANGE	B	G	1
	B	0	1



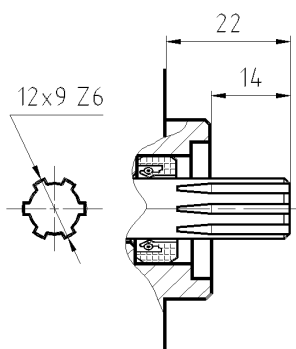
Coppia max 18 Nm
Max torque 18 Nm

CODICE / CODE	G		
PER FLANGIA / FOR FLANGE	B	G	1
	B	0	1



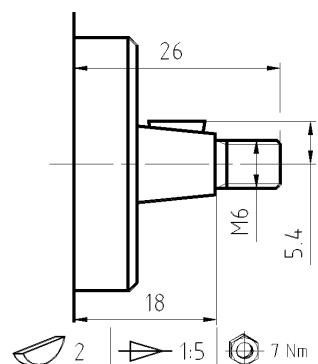
Coppia max 36 Nm
Max torque 36 Nm

CODICE / CODE	C		
PER FLANGIA / FOR FLANGE	B	G	1
	B	0	1



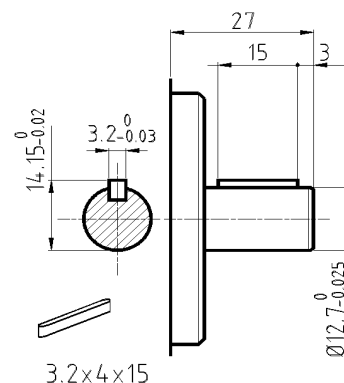
Coppia max 38 Nm
Max torque 38 Nm

CODICE / CODE	D		
PER FLANGIA / FOR FLANGE	B	G	5
	B	0	5



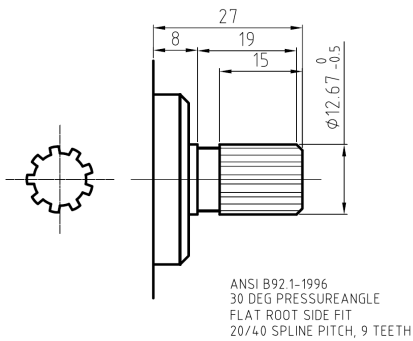
Coppia max 30 Nm
Max torque 30 Nm

CODICE / CODE	B		
PER FLANGIA / FOR FLANGE	B	G	5
	B	0	5



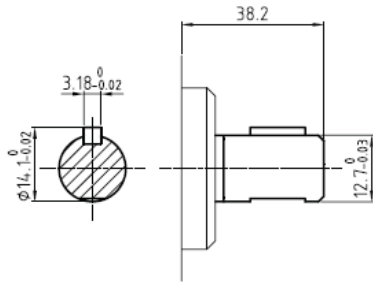
Coppia max 28 Nm
Max torque 28 Nm

CODICE / CODE	N		
PER FLANGIA / FOR FLANGE	C	G	6



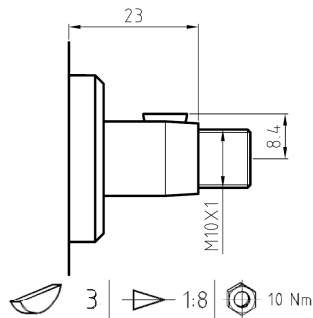
Coppia max 45 Nm
Max torque 45 Nm

CODICE / CODE	Q		
PER FLANGIA / FOR FLANGE	C	G	6



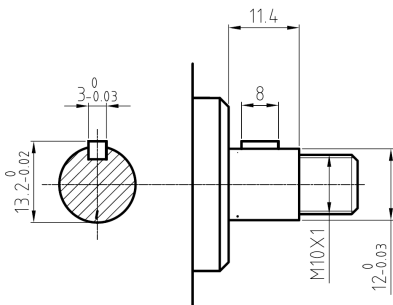
Coppia max 35 Nm
Max torque 35 Nm

CODICE / CODE	P		
PER FLANGIA / FOR FLANGE	D	G	7



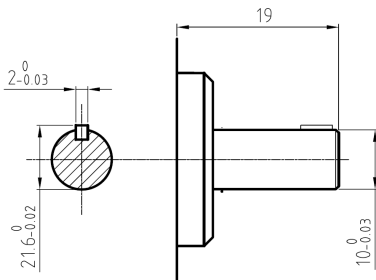
Coppia max 60 Nm
Max torque 60 Nm

CODICE / CODE	S		
PER FLANGIA / FOR FLANGE	A	G	4
	A	0	4
	E	G	2



Coppia max 16 Nm
Max torque 16 Nm

CODICE / CODE	R		
PER FLANGIA / FOR FLANGE	A	G	4
	A	0	4



Coppia max 12 Nm
Max torque 12 Nm

CODICE / CODE	L		
PER FLANGIA / FOR FLANGE	A	G	4
	A	0	4

BOCCHES DI ASPIRAZIONE E MANDATA
INLET AND OUTLET PORTS

Table with 2 columns: ASPIRAZIONE LATERALE SIDE INLET, MANDATA LATERALE SIDE OUTLET

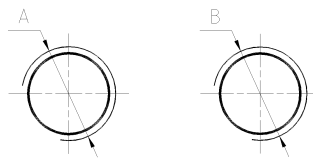


Table with 3 columns: A, B, Codice Code. Rows include various thread sizes like G 1/2, G 3/8, G 1/4, M18x1.5, M14x1.5, 9/16-18UNF, 3/4-16UNF and their corresponding codes.

Table with 2 columns: ASPIRAZIONE LATERALE SIDE INLET, MANDATA LATERALE SIDE OUTLET

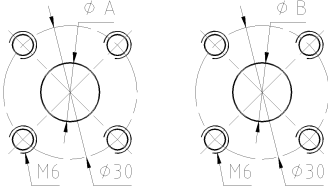


Table with 3 columns: A, B, Codice Code. Rows include numerical values 13, 12, 10, 12 and their corresponding codes 13, 16, 17, 42.

Table with 2 columns: ASPIRAZIONE LATERALE SIDE INLET, MANDATA LATERALE SIDE OUTLET

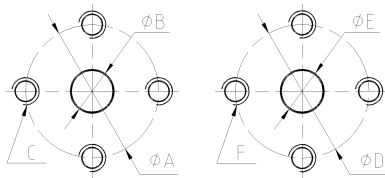
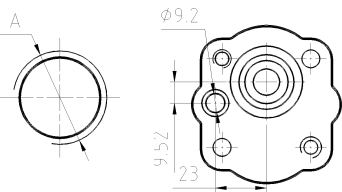


Table with 7 columns: B, A, C, E, D, F, Codice Code. Rows include numerical values and thread sizes like 12, 30, M6, 10, 26, M5 and their corresponding codes 14, 28.

Table with 2 columns: ASPIRAZIONE LATERALE SIDE INLET, MANDATA ANTERIORE FRONT OUTLET



LA FIGURA MOSTRA UNA POMPA SINISTRA

Table with 2 columns: A, Codice Code. Rows include thread sizes G 3/8, G 1/4 and their corresponding codes 05, 08.

Table with 2 columns: ASPIRAZIONE LATERALE SIDE INLET, MANDATA POSTERIORE REAR OUTLET

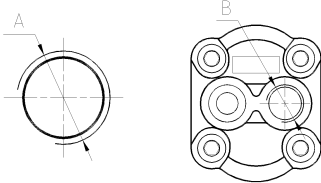


Table with 3 columns: A, B, Codice Code. Rows include thread sizes G 3/8, G 1/4 and their corresponding codes 03, 04.

Table with 2 columns: ASPIRAZIONE POSTERIORE REAR INLET, MANDATA POSTERIORE REAR OUTLET

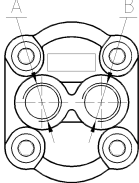
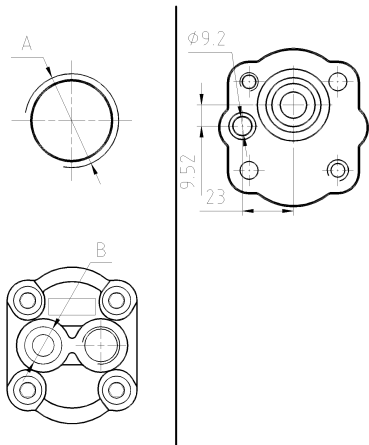


Table with 3 columns: A, B, Codice Code. Rows include thread sizes G 3/8, G 1/4 and their corresponding codes 19, 20.

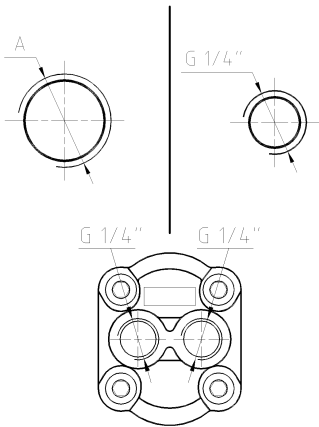
BOCCHES DI ASPIRAZIONE E MANDATA
INLET AND OUTLET PORTS

ASPIRAZIONE LATERALE SIDE INLET	MANDATA ANTERIORE FRONT OUTLET
ASPIRAZIONE POSTERIORE REAR INLET	



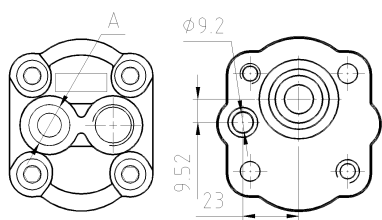
A	B	Codice Code
G 1/4	G 3/8	23
G 1/4	G 1/4	25

ASPIRAZIONE LATERALE SIDE INLET	MANDATA LATERALE SIDE OUTLET
ASPIRAZIONE POSTERIORE REAR INLET	MANDATA POSTERIORE REAR OUTLET



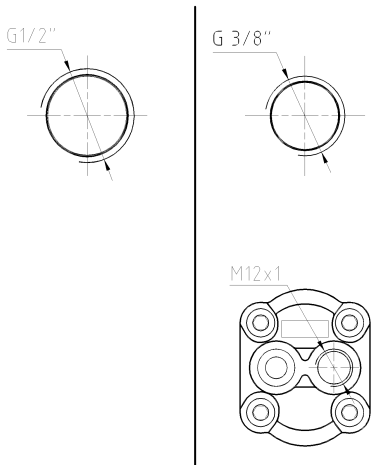
A	Codice Code
G 3/8	22
G 1/4	31

ASPIRAZIONE POSTERIORE REAR INLET	MANDATA ANTERIORE FRONT OUTLET
--------------------------------------	-----------------------------------



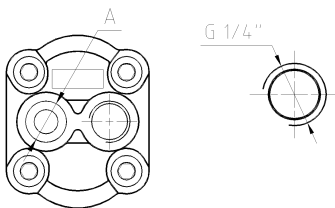
A	Codice Code
G 1/4	24
G 3/8	30

ASPIRAZIONE LATERALE SIDE INLET	MANDATA LATERALE SIDE OUTLET
	MANDATA POSTERIORE REAR OUTLET



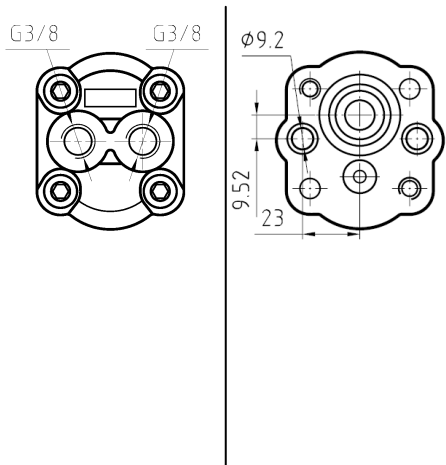
Codice Code	26
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ASPIRAZIONE POSTERIORE REAR INLET	MANDATA LATERALE SIDE OUTLET
--------------------------------------	---------------------------------



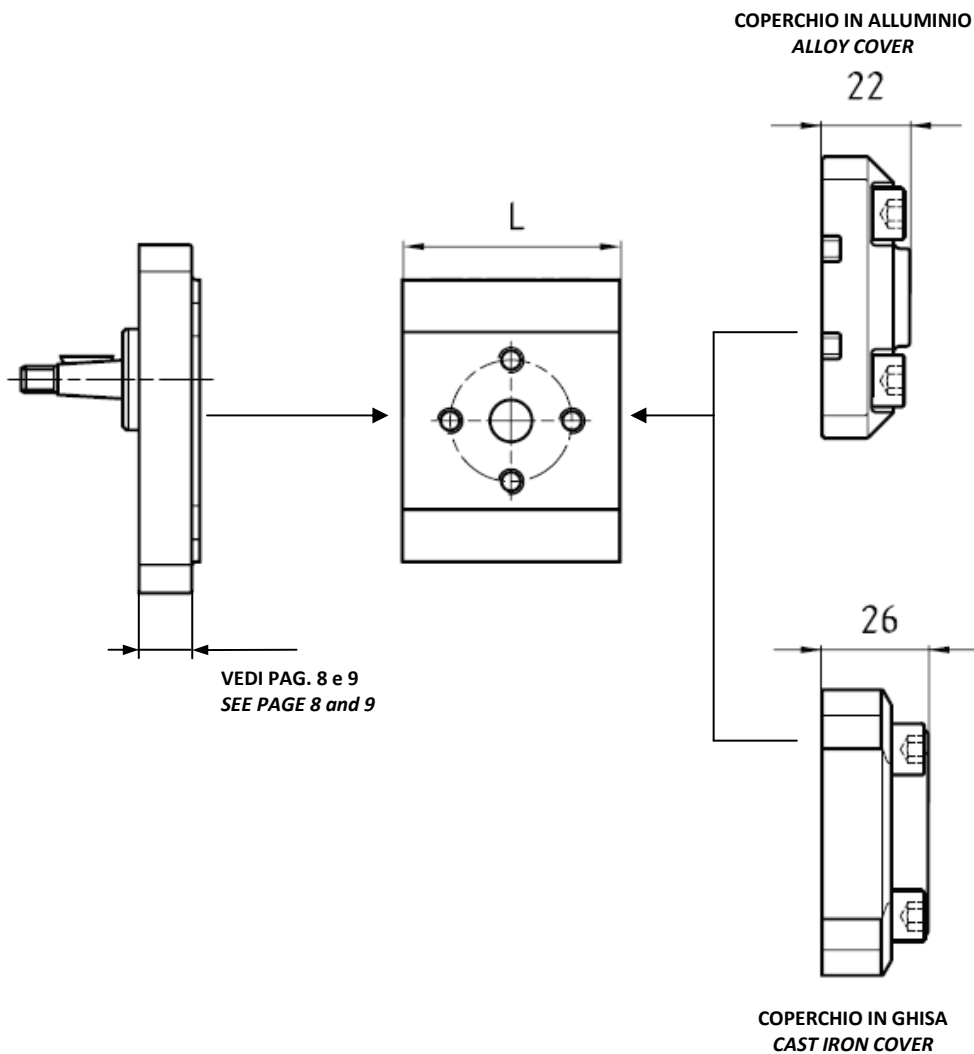
A	Codice Code
G 1/4	40
G 3/8	43

ASPIRAZIONE POSTERIORE REAR INLET	ASPIRAZIONE ANTERIORE FRONT INLET
MANDATA POSTERIORE REAR OUTLET	MANDATA ANTERIORE FRONT OUTLET

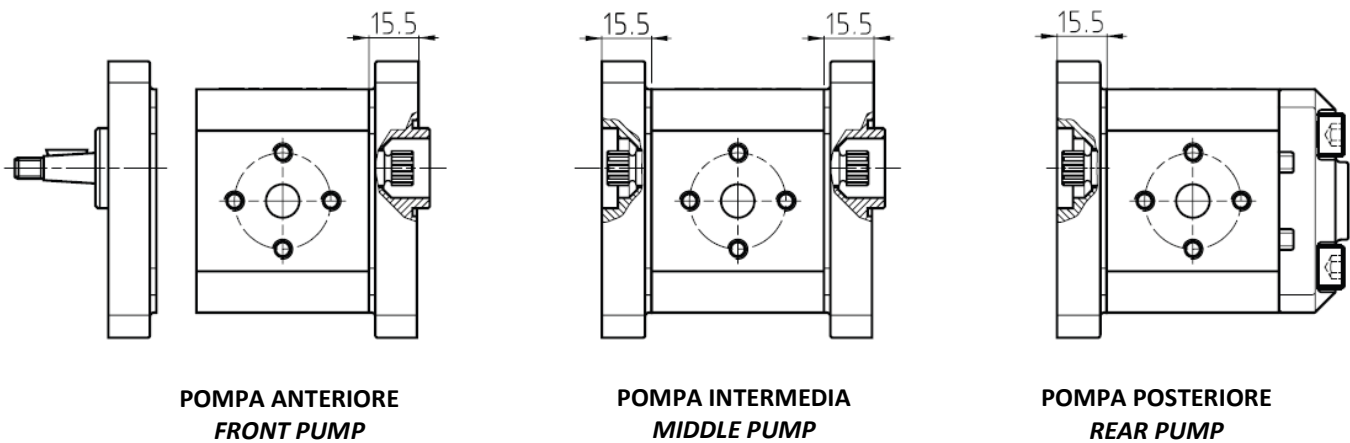


Codice Code	60
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DIMENSIONI D'INGOMBRO
OVERALL DIMENSIONS

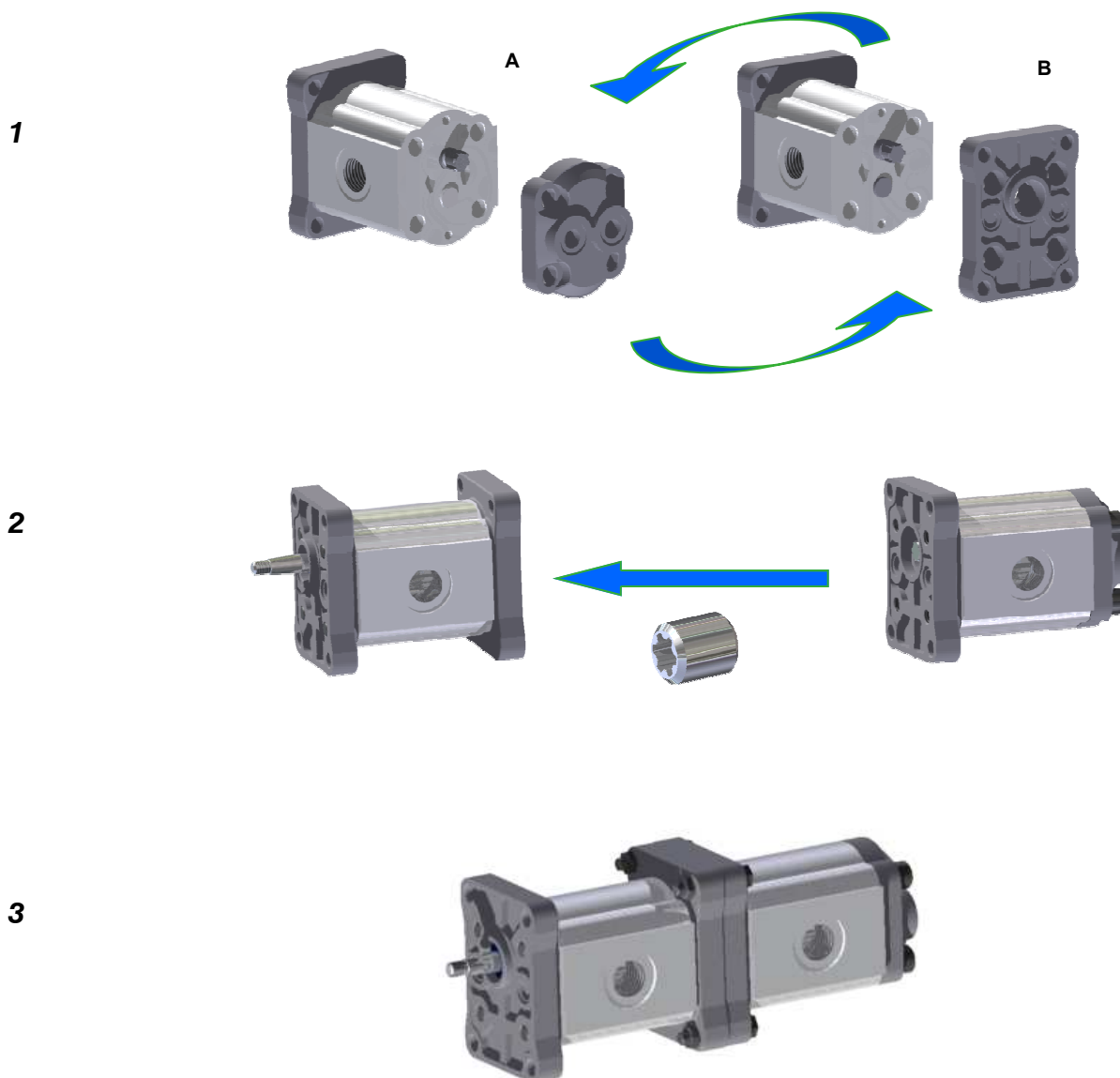


TIPO TYPE	<i>L</i>
08	31.8
11	38,3
16	40,3
21	42,3
26	44,3
32	46,5
37	48,6
42	50,6
48	53
55	55,8
62	58,6
78	65
88	69
105	82.3



POMPE PREDISPOSTE TANDEM PREASSEMBLED FOR TANDEM PUMPS

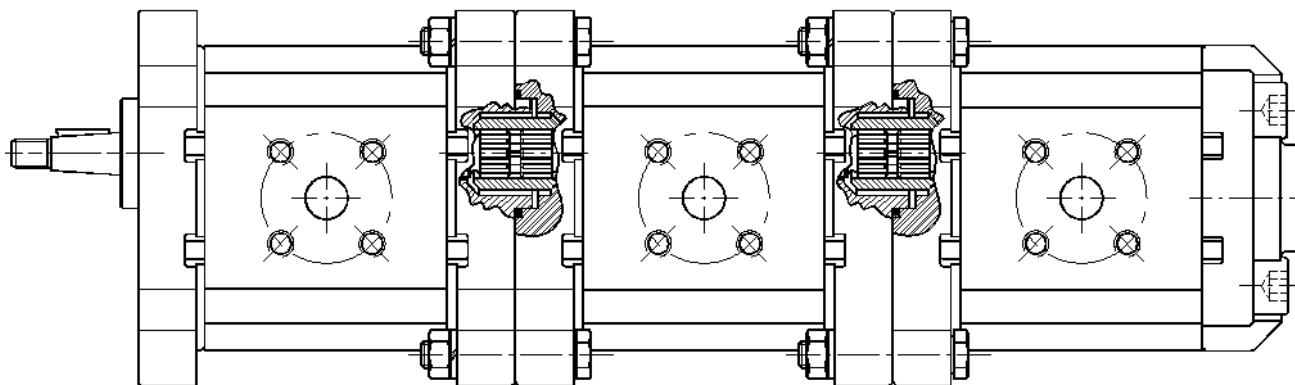
Al fine di ridurre gli stock a magazzino la Ronzio offre ai suoi clienti la possibilità di ordinare pompe predisposte tandem.



Sostituendo il coperchio posteriore della pompa predisposta tandem con il coperchio posteriore della pompa intermedia si evita di tenere a magazzino la pompa posteriore, eventualmente la pompa predisposta può essere utilizzata come pompa singola. Questa operazione deve essere effettuata da personale esperto e per motivi di sicurezza la pompa deve essere ri-collaudata.

*The above system of assembling tandem pumps using a simple pump with the tandem gear and an intermediate pump, is available to reduce stocks. The pump with tandem gear can be used as single pump.
This operation must be done by qualified staff only.*

KIT DI MONTAGGIO DELLE UNITA' MULTIPLE Z1
ASSEMBLING KIT FOR MULTIPLE UNITS Z1



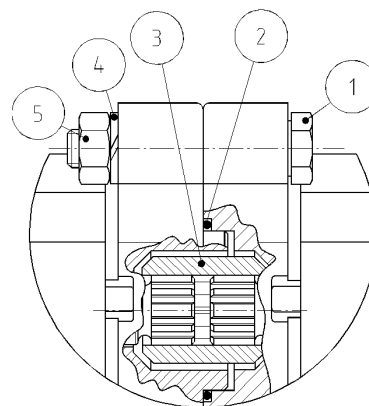
La pressione delle pompe intermedie e posteriori è limitata dalla tenuta del mozzo. La coppia massima è di **27 Nm**. Disponibile a richiesta versione con coppia massima fino a 50 Nm, per maggiori informazioni contattare nostro ufficio tecnico.

Max shaft loading must conform to the limitation of coupling.

*Max torque is **27 Nm**.*

Shaft with max torque of 50 Nm available on request.. For more info contact our technical office.

Ref	PARTI PARTS
1	M6 x 35 UNI 5737
2	OR 2100
3	Mozzo scanalato Coupling
4	Rosetta Washer
5	Dado M6 Stud nut M6
Codice KIT Code KIT	
K1000000	

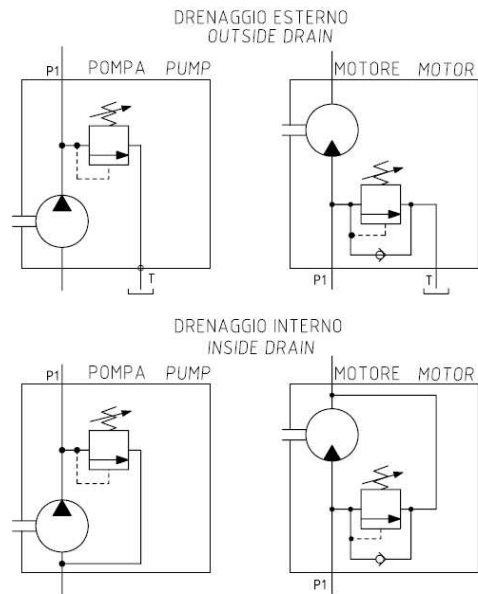
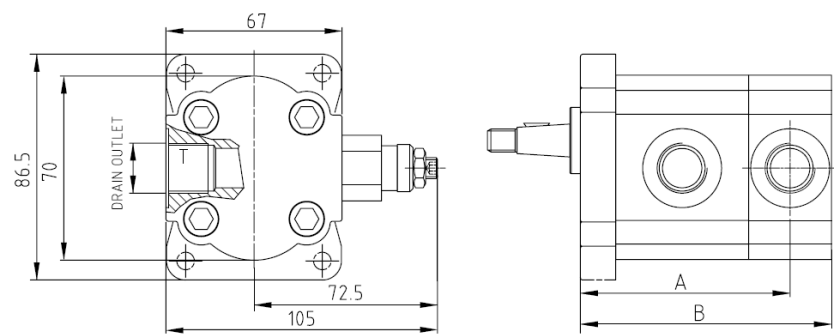


POMPE E MOTORI CON VALVOLA DI MASSIMA PRESSIONE

PUMPS AND MOTORS WITH RELIEF VALVES

VALVOLA A TARATURA REGOLABILE “VR”

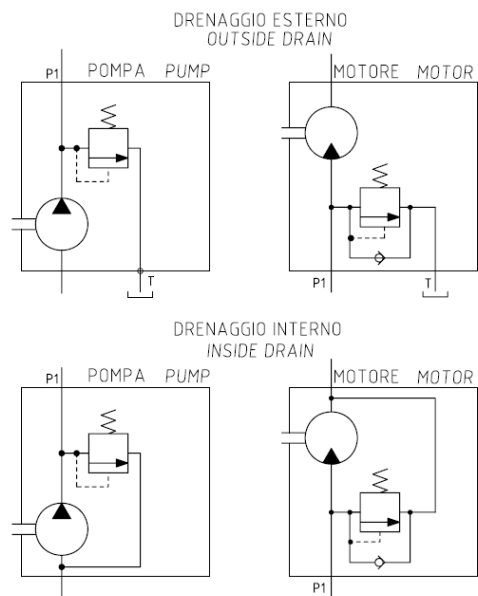
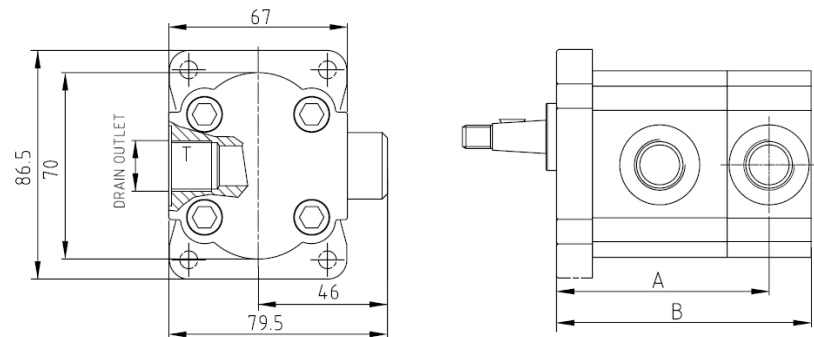
VALVE WITH ADJUSTABLE CALIBRATION “VR”



TYPE	8	11	16	21	26	32	37	42	48	55	62	78	88	105
A	72	73	75	77	79	81	83	85	87	90	93	99	103	116
B	87	88	90	92	94	96	98	100	102	105	108	114	118	131

VALVOLA A TARATURA FISSA “VF”

VALVE WITH FIXED CALIBRATION “VF”



VALORI TARATURA VALVOLA (bar) / CALIBRATION AVAILABLE (bar)
50 - 75 - 100 - 125 - 150 - 200 - 250 - 300 - 330

ISTRUZIONI PER L'ORDINAZIONE DI UNITA' SINGOLE Z1

HOW TO ORDER Z1 SINGLE UNITS

		1	2	3	4	5	6	7	8	9	10	11	12	13
0	1	Z	A	G	21	C	4	08	--	D	R	VR	01	210

1	TIPO UNITA' / UNIT TYPE	CODICE / CODE
	PUMP	Z
	MOTOR	ZM

2-3-6	FLANGIA / FLANGE (PAG. 8-9)	CODICE / CODE
	EUROPEA / EUROPEAN	A 0 4
	TEDESCA / GERMAN	B 0 1
	EUROPEA / EUROPEAN	A G 4
	TEDESCA / GERMAN	B G 1
	TEDESCA / GERMAN	B G 5
	TEDESCA / GERMAN	B G 2
	AMERICANA SAE AA / AMERICAN SAE AA	D G 7
	EUROPEA / EUROPEAN	E G 2
	AMERICANA SAE AA / AMERICAN SAE AA	C G 6
	EUROPEA / EUROPEAN	E 0 2

4	CILINDRATA / CAPACITY cm ³	CODICE / CODE
	0.80	08
	1.08	11
	1.59	16
	2.09	21
	2.59	26
	3.15	32
	3.68	37
	4.19	42
	4.79	48
	5.49	55
	6.2	62
	7.81	78
	8.82	88
	10.5	105

5	ALBERO / SHAFT (PAG. 10-11)	CODICE / CODE
	CONICO 1:8 / TAPERED 1:8	C
	PENNA 11 x 5	F
	PENNA 10 x 5	M
	PENNA CORTO 10 x 5	G
	12x9 Z6 DIN 5487	D
	CONICO 1:5 / TAPERED 1:5	B
	CILINDRICO Ø 12.7 / STRAIGHT Ø 12.7	N
	ANSI B92.1 9TH 20/40 FLAT ROOT	Q
	CILINDRICO Ø 12.7x38 / STRAIGHT Ø 12.7x38	P
	CONICO 1:8 Ø 12.7 / TAPERED 1:8 Ø 12.7	S

	CILINDRICO Ø 12 / STRAIGHT Ø 12	R
	CILINDRICO Ø 10 / STRAIGHT Ø 10	L

7	BOCCHIE / PORTS (PAG. 12-13)	CODICE / CODE
	GERMAN	14-28
	EUROPEAN	13-16-17-42
	GAS	00-01-03-04-05-06-08-09-19-20
	SAE	53 - 54

8	PRED. TANDEM / FOR TANDEM	CODICE / CODE
	PREDISPOSTA / FOR TANDEM	T
	NIENTE / NONE	--

9	ROTAZIONE / ROTATION	CODICE / CODE
	DESTRO / RIGHT	D
	SINISTRO / LEFT	S
	BIDIREZIONALE DRENAGGIO ANTERIORE / BIDIRECTIONAL WITH FRONT DRAIN	R1
	BIDIREZIONALE DRENAGGIO POSTERIORE / BIDIRECTIONAL WITH EXTERNAL REAR DRAIN	R
	BIDIREZIONALE DRENAGGIO INTERNO / BIDIRECTIONAL WITH INTERNAL DRAIN	Y

10	PARAOILIO / SHAFT SEAL (PAG. 7)	CODICE / CODE
	STANDARD / STANDARD	N
	STANDARD VITON / STANDARD VITON	V
	5 BAR NBR / 5 BAR NBR	RB
	5 BAR VITON / 5 BAR VITON	RV
	DOPPIO MIM NBR / DOUBLE SEAL NBR	N2
	DOPPIO MIM VITON / DOUBLE SEAL VITON	V2
	25 BAR VARISEAL NBR / 25 BAR VARISEAL NBR	B
	25 BAR NBR / 25 BAR NBR	BN
	25 BAR VITON / 25 BAR VITON	BV

11	VALVOLA DI MASSIMA / RELIEF VALVE	CODICE / CODE
	SENZA / WITHOUT	-
	TARATURA REGOLABILE / ADJUST. CALIBRATION	VR
	TARATURA FISSA / FIXED CALIBRATION	VF

12	TIPO DRENAGGIO / DRAIN DIMENSION	CODICE / CODE
	1/4" G	1
	7/16" -20 UNF -2B	2

13	VALORI TARATURA VALVOLA	CODICE / CODE
	50 - 75 - 100 - 125 - 150 - 200 - 250 - 300 - 330	

ISTRUZIONI PER L'ORDINAZIONE DI UNITA' MULTIPLE Z1

HOW TO ORDER Z1 MULTIPLE UNITS

			1	2	3	4	5	6		7	8
0	1	Z	A	G	88	C	4	14	A	S	V

POMPA ANTERIORE
FRONT PUMP

				2	3			6		7
0	1	Z	A	G	42	0	0	14	I	S

POMPA INTERMEDIA
MIDDLE PUMP

				2	3			6		7
0	1	Z	A	G	21	0	0	14	P	S

POMPA POSTERIORE
REAR PUMP

1-2-5	FLANGIA / FLANGE (PAG. 8-9)	CODICE / CODE
	EUROPEA / EUROPEAN	A 0 4
	TEDESCA / GERMAN	B 0 1
	EUROPEA / EUROPEAN	A G 4
	TEDESCA / GERMAN	B G 1
	TEDESCA / GERMAN	B G 5
	TEDESCA / GERMAN	B G 2
	AMERICANA SAE AA / AMERICAN SAE AA	D G 7
	EUROPEA / EUROPEAN	E G 2
	AMERICANA SAE AA / AMERICAN SAE AA	C G 6
	EUROPEA / EUROPEAN	E 0 2

3	CILINDRATA / CAPACITY cm ³	CODICE / CODE
	0.80	08
	1.08	11
	1.59	16
	2.09	21
	2.59	26
	3.15	32
	3.68	37
	4.19	42
	4.79	48
	5.49	55
	6.2	62
	7.81	78
	8.82	88
	10.5	105

4	ALBERO / SHAFT (PAG. 10-11)	CODICE / CODE
	CONICO 1:8 / TAPERED 1:8	C
	PENNA 11 x 5	F
	PENNA 10 x 5	M
	PENNA CORTO 10 x 5	G
	12x9 Z6 DIN 5487	D
	CONICO 1:5 / TAPERED 1:5	B

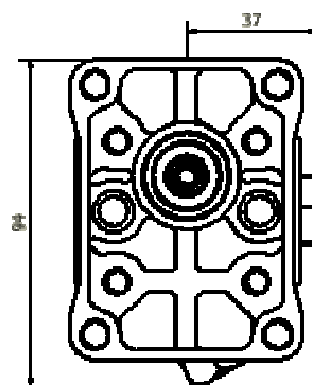
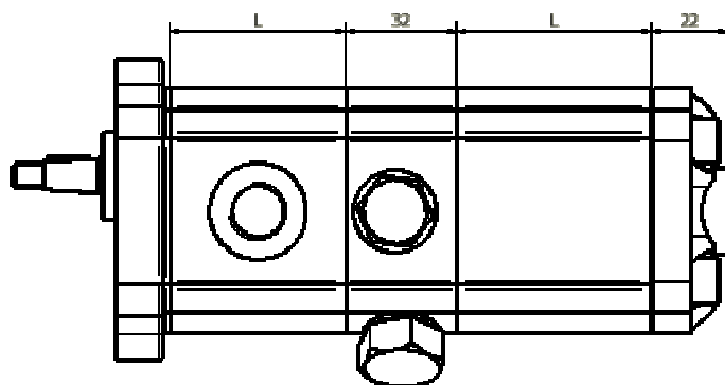
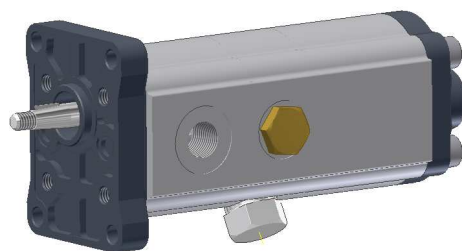
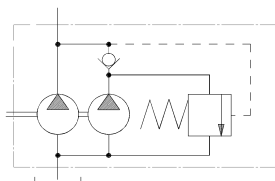
	CILINDRICO Ø 12.7 / STRAIGHT Ø 12.7	N
	ANSI B92.1 9TH 20/40 FLAT ROOT	Q
	CILINDRICO Ø 12.7x38 / STRAIGHT Ø 12.7x38	P
	CONICO 1:8 Ø 12.7 / TAPERED 1:8 Ø 12.7	S
	CILINDRICO Ø 12 / STRAIGHT Ø 12	R
	CILINDRICO Ø 10 / STRAIGHT Ø 10	L

6	BOCCHIE / PORTS (PAG.12-13)	CODICE / CODE
	GERMAN	14-27-28-29
	EUROPEAN	11-12-13-15-16-17-18-42
	GAS	00-01-02-03-04-05-06-07-08-09-10-19-20-21
	SAE	53 - 54

7	ROTAZIONE / ROTATION	CODICE / CODE
	DESTRO / RIGHT	D
	SINISTRO / LEFT	S

8	PARAOILIO / SHAFT SEAL (PAG.7)	CODICE / CODE
	STANDARD / STANDARD	N
	STANDARD VITON / STANDARD VITON	V
	5 BAR NBR / 5 BAR NBR	RB
	5 BAR VITON / 5 BAR VITON	RV
	DOPPIO MIM NBR / DOUBLE SEAL NBR	N2
	DOPPIO MIM VITON / DOUBLE SEAL VITON	V2
	25 BAR VARISEAL NBR / 25 BAR VARISEAL NBR	B
	25 BAR NBR / 25 BAR NBR	BN
	25 BAR VITON / 25 BAR VITON	BV

POMPA MULTIPLA Z1 CON VALVOLA DISGIUNTRICE
MULTIPLE PUMPS Z1 WITH SEQUENCE VALVE (HIGH-LOW PUMP)



0	1	Z	A	0	D	11	48	C	4	01	S	N
---	---	---	---	---	---	----	----	---	---	----	---	---

1-2-6	FLANGIA / FLANGE (PAG. 8-9)	CODICE / CODE
	EUROPEA / EUROPEAN	A 0 4
	TEDESCA / GERMAN	B 0 1
	EUROPEA / EUROPEAN	A G 4
	TEDESCA / GERMAN	B G 1
	TEDESCA / GERMAN	B G 5
	TEDESCA / GERMAN	B G 2
	AMERICANA SAE AA / AMERICAN SAE AA	D G 7
	EUROPEA / EUROPEAN	E G 2
	AMERICANA SAE AA / AMERICAN SAE AA	C G 6
	EUROPEA / EUROPEAN	E 0 2

3-4	CILINDRATA / CAPACITY cm ³	CODICE / CODE
	0.80	08
	1.08	11
	1.59	16
	2.09	21
	2.59	26
	3.15	32
	3.68	37
	4.19	42
	4.79	48
	5.49	55

5	ALBERO / SHAFT (PAG. 10-11)	CODICE / CODE
	CONICO 1:8 / TAPERED 1:8	C
	12x9 Z6 DIN 5487	D
	CONICO 1:5 / TAPERED 1:5	B

	CILINDRICO Ø 12.7 / STRAIGHT Ø 12.7	N
	ANSI B92.1 9TH 20/40 FLAT ROOT	Q
	CILINDRICO Ø 12.7x38 / STRAIGHT Ø 12.7x38	P
	CONICO 1:8 Ø 12.7 / TAPERED 1:8 Ø 12.7	S
	CILINDRICO Ø 12 / STRAIGHT Ø 12	R
	CILINDRICO Ø 10 / STRAIGHT Ø 10	L

7	BOCCHIE / PORTS (PAG. 12-13)	CODICE / CODE
	GERMAN	14-27-28-29
	EUROPEAN	11-12-13-15-16-17-18-42
	GAS	00-01-02-05-06-08-09-10
	SAE	53 - 54

8	ROTAZIONE / ROTATION	CODICE / CODE
	DESTRO / RIGHT	D
	SINISTRO / LEFT	S

9	PARAOILIO / SHAFT SEAL (PAG. 7)	CODICE / CODE
	STANDARD / STANDARD	N
	STANDARD VITON / STANDARD VITON	V
	5 BAR NBR / 5 BAR NBR	RB
	5 BAR VITON / 5 BAR VITON	RV
	DOPPIO MIM NBR / DOUBLE SEAL NBR	N2
	DOPPIO MIM VITON / DOUBLE SEAL VITON	V2
	25 BAR VARISEAL NBR / 25 BAR VARISEAL NBR	B
	25 BAR NBR / 25 BAR NBR	BN
	25 BAR VITON / 25 BAR VITON	BV



Handwriting practice lines consisting of 20 horizontal green lines.



Handwriting practice lines consisting of 20 horizontal green lines.



ronzio
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