HYDRAULIC MEGASTORE
Serving the Hydraulics Industry Worldwide

ALUMINIUM PUMPS AND MOTORS Z3 SERIES

USE CONDITIONS

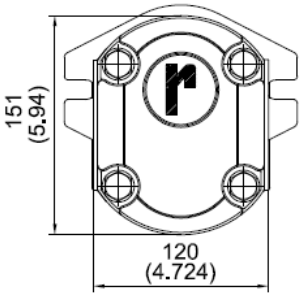
Hydraulic fluids	*Mineral oil (DIN 51524)* *For use with fire resistant fluids like water glycol, water- oil emulsion and phosphate-esters, contact our technical or commercial office.*

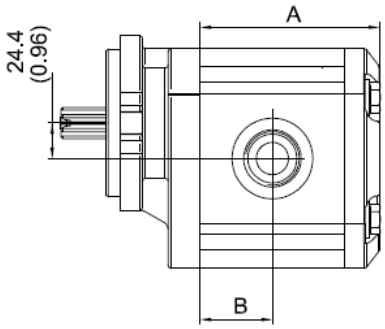
Inlet pressure		0.7 - 3 bar (Absolute) 10 - 44 psi (Absolute)	
Oil speed on suction line		0.5 ÷ 1.5 m/s	
Oil speed on pressure line		6 ÷ 10 m/s	
Oil temperature		-10°C ÷ 80°C	
Oil viscosity		20 ÷ 120 mm^2 / s (Cst)	
Max starting viscosity		700 mm^2 / s (Cst)	
Oil filtration	***Pressure***	**< 200 bar**	**> 200 bar**
	Contamination class NAS 1638	10	9
	Contamination class ISO 4406	19/16	18/15
	Ratio ßx ≥ 75	25µm	10µm

Main Features

- Cast iron covers for high performances
- High pressure option: up to 280 bar max. continuous pressure
- Axial compensation achieved using pressure balanced bushing blocks.
- High volumetric efficiency: average 95-97%
- Wide range of capacities : 20-25-30-35-40- 45-50-55-60-64-70-80-90 cm_3/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
- Easy-to-make tandem pumps and easy change of rotation.

MAIN CHARACTERISTICS

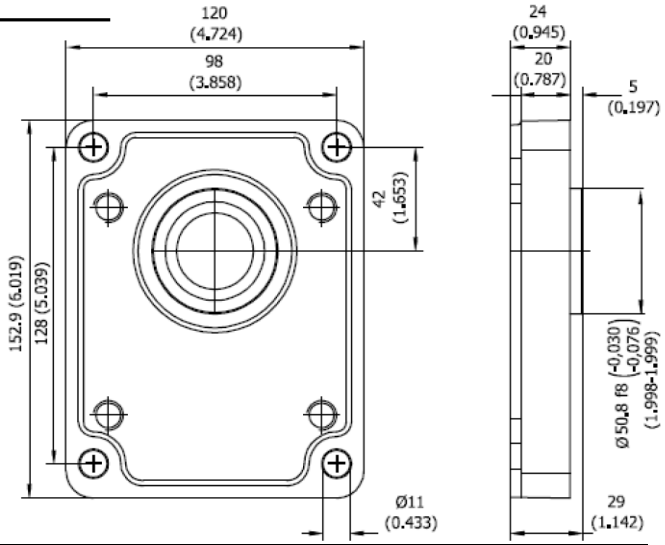




	20	25	30	35	40	45	50	55	60	64	70	80	90
CAPACITY **cm^3/giro at 1000 (giri/min)**	19.9	24.9	29.9	34.3	40.5	45.2	49.9	54.5	60	63.9	70	78.7	89.6
DELIVERY **lt/min at 1500 (giri/min)**	29.9	37.4	44.9	51.5	60.8	67.8	74.9	81.8	90	95.9	105	118	134.4
A (mm)	100.8	104	107.2	110	114	117	120	123	126.5	129	132.9	138.6	145.6
B (mm)	38.5	40	41.6	43	45	46.5	48	49.5	51	52.5	54.5	57.3	60.8

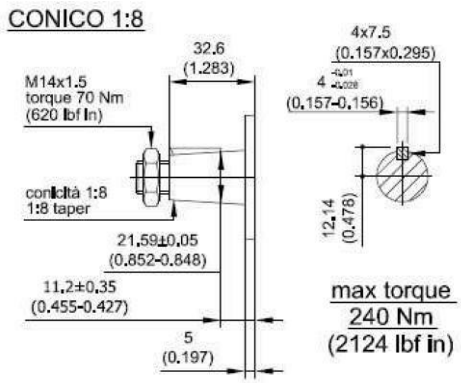
Max working pressure (bar)	280	280	280	280	250	250	230	230	200	200	170	170	160
Max peak pressure (bar)	310	310	310	310	280	280	250	250	220	220	190	190	180
Max speed for P1 pressure (Rpm)	450	450	350	350	350	350	350	350	350	350	350	350	350
speed without load (Rpm)	3000	3000	3000	3000	2700	2700	2200	2200	2000	2000	1800	1800	1800
Coppia resa (Nm)	26.9	33.7	40.4	46.4	54.8	61.1	67.5	73.7	81.2	86.4	94.7	106.5	121.2
Mass (Kg)	10.6	10.8	11	11.2	11.4	11.5	11.7	11.9	12	12.2	12.4	12.7	13.1

Flange



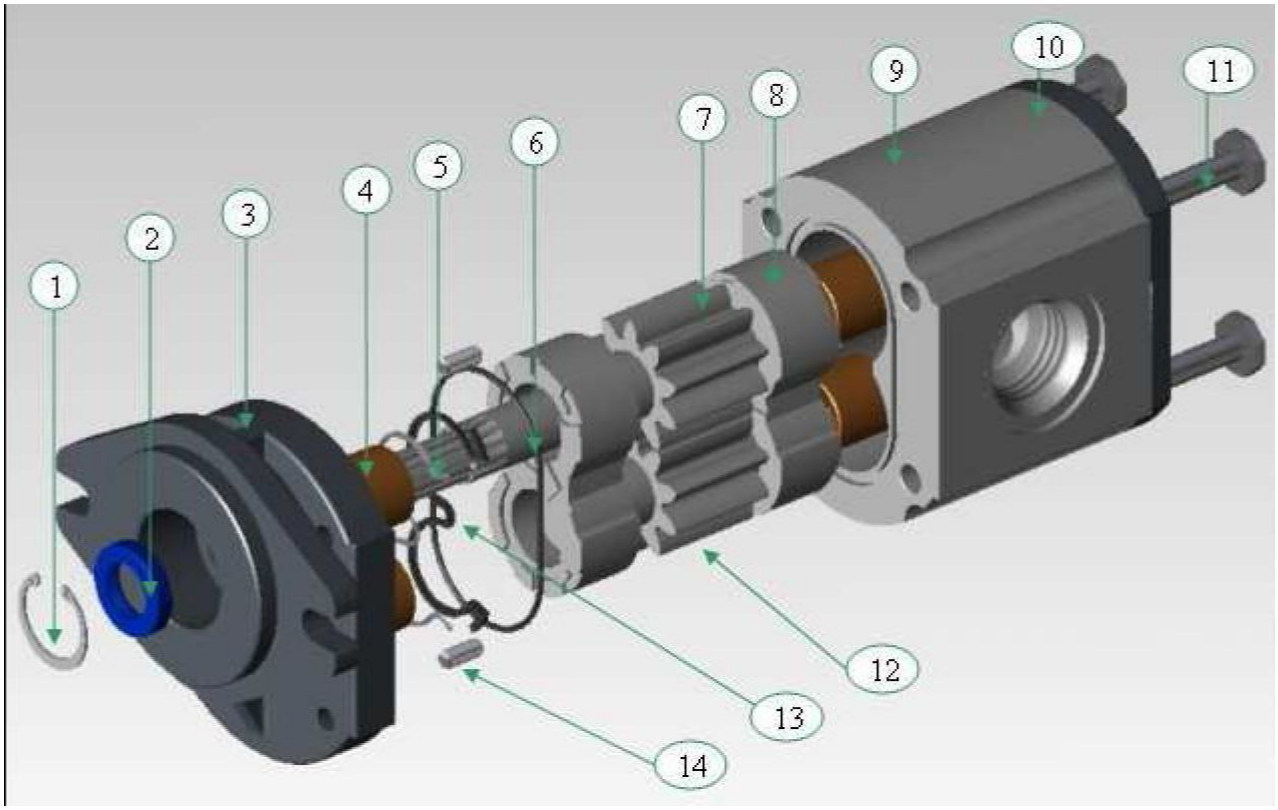
CODICE *CODE*	A	0

Shafts



CODICE / *CODE*	C	
PER FLANGIA / FOR *FLANGE*	A	0

PARTS



Reference	Description	Qt.
1	Snap ring	1
2	Rotary shaft seal	1
3	Front flange	1
4	Bushings	4
5	Seal against extruding	2
6	Under cover seal	2
7	Drive gear	1
8	Bushing block	2
9	Body	1
10	Rear cover	1
11	Bolt	4
12	Idle gear	1
13	Compensation seal	2
14	Pins	2