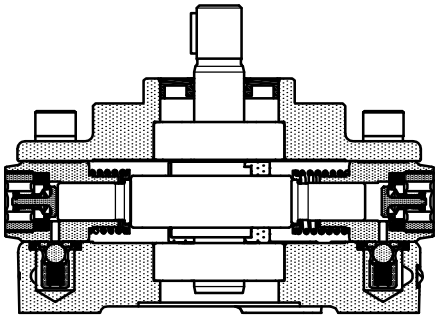
Description

Pumps model **1R3**** are small , low weight , rugged oil immersed type Radial Piston Pumps. These pumps are valve controlled and there is no restriction on direction of rotation of the pump.

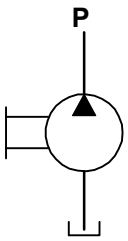
These are available with 7 displacements and 7 pressure ratings.

These pumps give fixed output per revolution of the shaft.

Section



Hydraulic symbol



Technical specifications

Designation	:	1R is a basic radial piston pump group.
Design	:	Radial piston, valve controlled, oil immersed.
No. of elements	:	3.
Mounting interface	:	Factory standard, face mounting.
Direction of rotation	:	No restriction on directions of rotation.
Connection	:	Suction port - Sucks oil directly from tank no suction port is provided. Delivery (port P) - G1/4 female.
Speed range	:	300 to 2000 r/min.
Flow and Pressure	:	Refer Table no.1
Hydraulic medium	:	Mineral oil.
Temperature range	:	-20°C to + 80°C.
Viscosity range	:	10 cSt to 100 cSt.
Fluid cleanliness required	:	ISO 4406 20/18/15 or better.
Mass	:	5.3 Kg.

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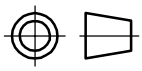
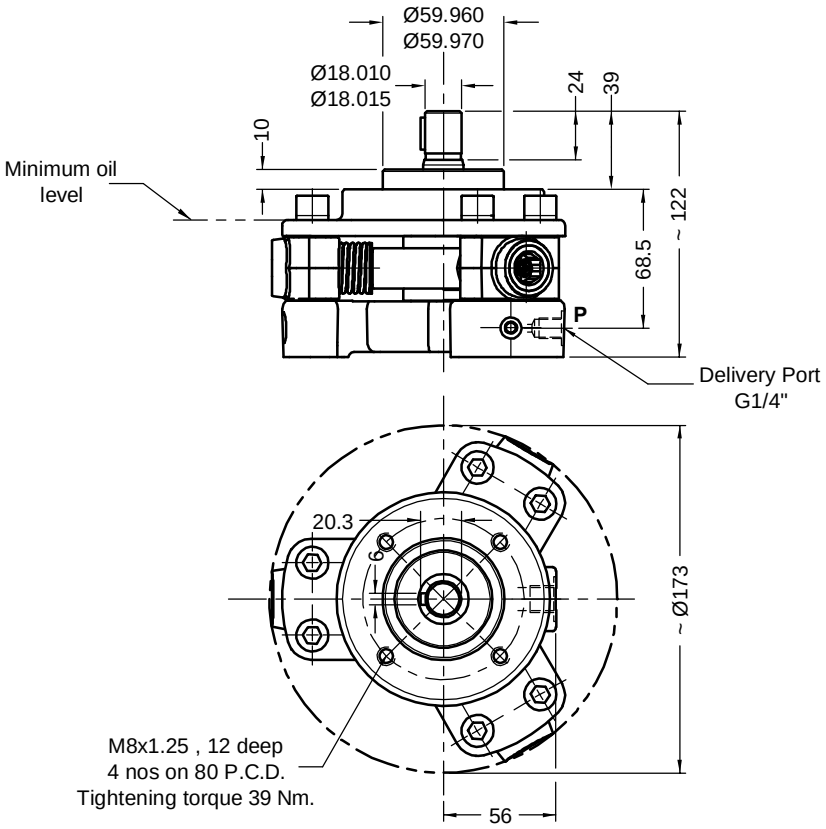
Unit dimensions

Dimensions in mm.



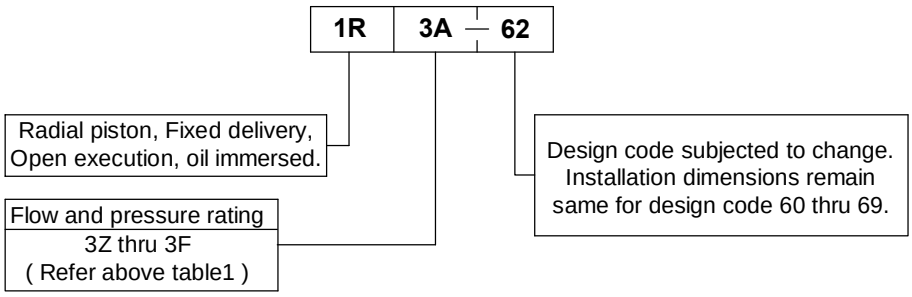


Performance
Table no. 1

No. and type of Elements	Geometrical displacement in cm^3/r	Pump output in l/min at 1450 r/min	Maximum operating pressure	Pressure in bar													
				50	100	150	200	250	300	350	400	450	500	550	600	650	700
	cm^3/r	l/min.	bar	Power required to drive the pump in kW													
3 Z	0.69	0.9	700	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4
3 A	1.20	1.6	550	0.2	0.3	0.5	0.7	0.7	1.0	1.2	1.4	1.5	1.7	1.9			
3 B	1.89	2.6	450	0.3	0.5	0.8	1.1	1.3	1.6	1.9	2.1	2.4					
3 C	2.70	3.7	350	0.4	0.8	1.2	1.5	1.9	2.3	2.7							
3 D	3.18	4.3	300	0.5	0.9	1.4	1.8	2.3	2.7								
3 E	3.69	5.0	250	0.5	1.1	1.6	2.1	2.6									
3 F	4.23	5.8	200	0.6	1.2	1.8	2.4										

1kW = 1.3410 hp

Ordering code



Note : For Bell housing refer Data sheet no. D 09035.

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Subject to revision