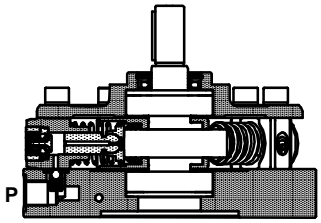
Description

Model **11R****** are rugged oil immersed type Radial Piston Pumps and have either 5, 7 or 9 pumping elements. These pumps are valve controlled and there is no restriction on direction of rotation of the pump.

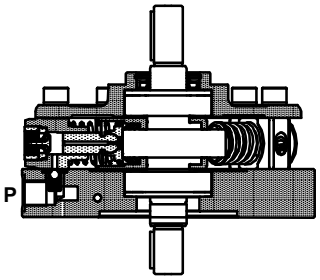
They are available with 9 displacements and 3 pressure ratings.
These pumps give fixed output per revolution of the shaft.

The pumps with model **11RE*** ** have extension shaft for through drive and are available with extension bracket assembly for coupling a low pressure pump having standard flanges as per ISO 3019/2 (Ref. datasheet no. D 09090).

Section

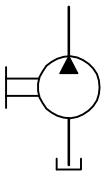


Model : 11R***

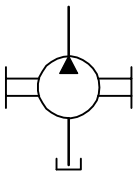


Model : 11RE***

Hydraulic symbol



Model : 11R***



Model : 11RE***

Technical specifications

Designation	:	11R is a basic Radial piston pump. 11RE is a Radial piston pump with extension shaft.
Design	:	Radial piston, valve controlled, oil immersed.
No. of pumping elements	:	5, 7 or 9.
Mounting interface	:	Factory standard, face mounting.
Direction of rotation	:	11R - No restriction on directions of rotation.
		11RE - Depends upon the direction rotation of pump attached.
Connection	:	Suction port - Sucks oil directly from tank, no suction port is provided.
		Delivery (port P) - G1/2 female.
Speed range	:	300 to 2000 r/min.
Flow and Pressure	:	Refer Table no.1
Torque limitations	:	Input drive shaft - 220 Nm
		Extension shaft - 130 Nm
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	:	Model : 11R5 11RE5 11R7 11RE7 11R9 11RE9
		Kg : 22 22.6 23 23.5 23.8 24.5

Performance : table no. 1

No. of pumping elements	Element type	Geometrical displacement in cm^3/r	Pump output in l/min At 1450 r/min	Maximum Operating pressure in bar	Pressure in bar							
					50	100	150	200	250	300	315	400
					Power required to drive the pump in kW							
5	A	7.70	10.5	400	1.1	2.2	3.2	4.4	5.5	6.6	6.9	8.8
7		10.78	14.7		1.5	3.1	4.6	6.1	7.7	9.2	9.6	12.2
9		13.85	18.9		2.0	3.9	5.9	7.9	9.8	11.8	12.4	15.8
5	B	10.05	13.7	315	1.4	2.9	4.3	5.7	7.1	8.6	9.0	
7		14.07	19.2		2.0	4.0	6.0	8.0	10.0	12.0	12.6	
9		18.10	24.7		2.6	5.1	7.7	10.3	12.9	15.4	16.2	
5	C	12.72	17.3	250	1.8	3.6	5.4	7.2	9.0			
7		17.81	24.3		2.5	5.1	7.6	10.1	12.6			
9		22.90	31.2		3.3	6.5	9.8	13.0	16.3	1kW = 1.3410 hp		

Note : Torque limitation : The total sum of torque applied to drive the pump and the pump attached (In case model 11RE is used), at any given instance, should not exceed 220 Nm.

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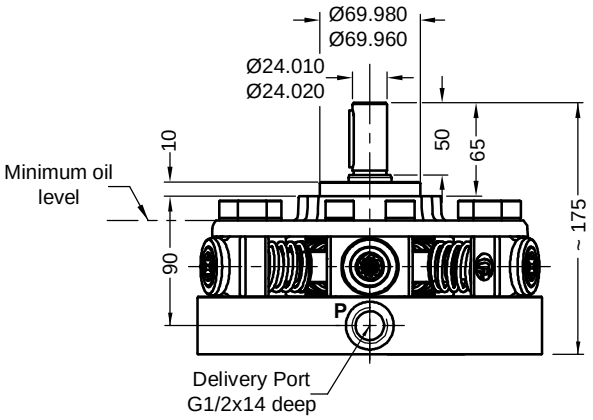
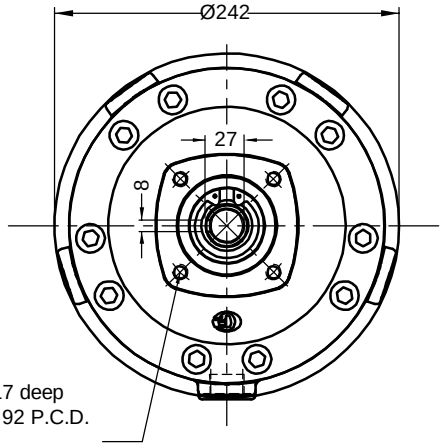
Unit dimensions

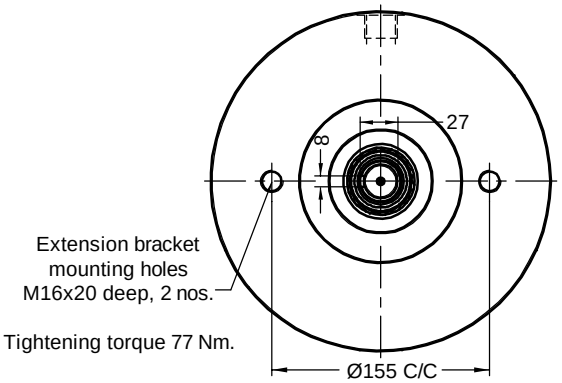
Dimensions in mm.

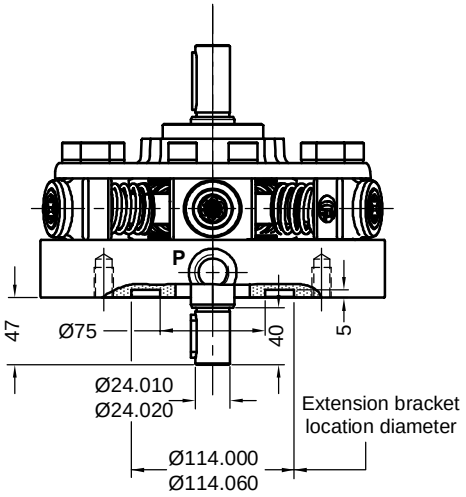
Pump without extension shaft
Model - 11R5* , 11R7* and 11R9*





Pump with extension shaft
Model - 11RE5* and 11RE7*





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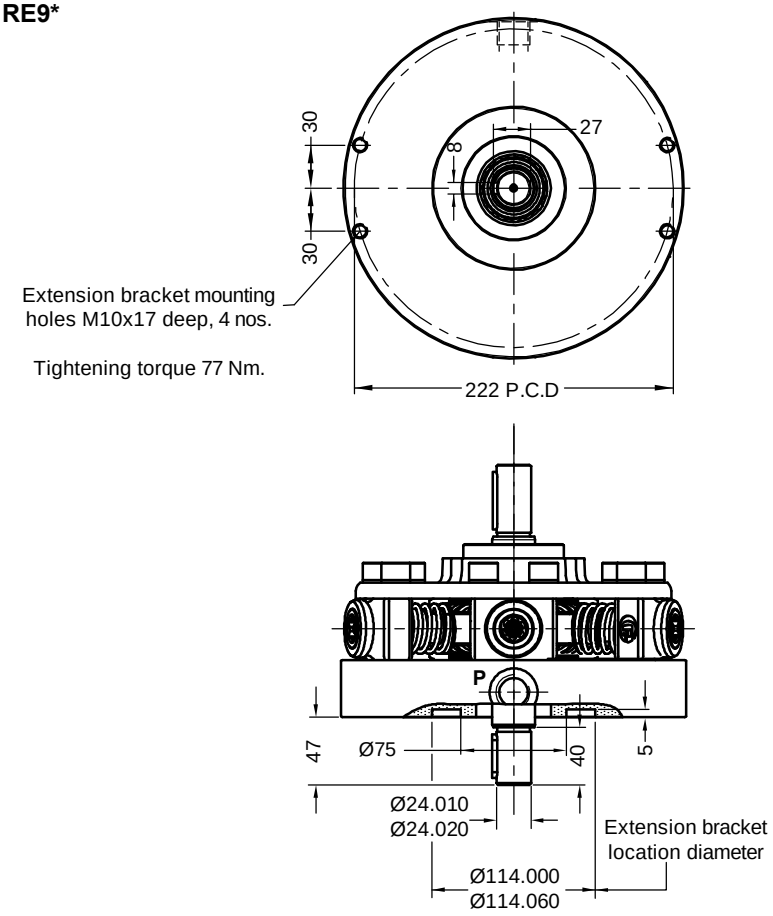
Pump with extension shaft

Model - 11RE9*



Ordering code

11R	E	5	A	—	05

Radial piston, Fixed delivery, Open execution, oil immersed.

With extension shaft **E**
Omit, if not required.

No. of pumping elements
5 **7** **9**

Type of elements
(Flow and pressure rating Refer table no. 1)

Design code subjected to change. Installation dimensions remain same for design code 01 thru 05.

Note : For Bell housing refer Data sheet no. D 09035 and For extension bracket refer Data sheet no. D 09090.

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Due to continuous improvement in the design of the product, the actual product supplied may look different than shown above.
For critical applications, please ask for certified installation drawing.