

RADIAL PISTON PUMPS Model: 11RC****

Ref. No. D 09206 Release 07 / 2019

ENGINEERING - 1 of 3

Description

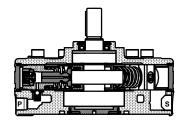
Model **11RC****** are rugged Radial piston pumps and have either 5, 7 or 9 pumping elements. These pumps are valve controlled and therefore there is no restriction on direction of rotation of the pump. These pumps can be submerged in oil or externally mounted above oil level.

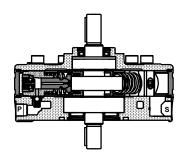
They are available with 9 displacements and 3 pressure ratings. The pumps give fixed output per revolution of the shaft.

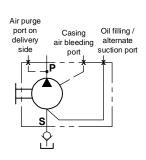
Pumps with model code **11RCE***** have extension shaft for through drive and are available with extension bracket assembly for coupling a pump having standard flange as per ISO 3019/2.(Ref. datasheet no. D 09090).

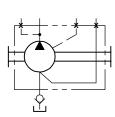


Section Hydraulic symbol









Model: 11RC*** Model: 11RCE*** Model: 11RC*** Model: 11RCE***

Technical specifications

Designation : 11RC is a basic radial piston pump with casing. 11RCE is a Radial piston pump

with casing and extension shaft.

Design : Radial piston, valve controlled.

No. of Pumping elements : 5, 7 or 9.

Mounting : Face mounting. (Maintain air purge port at highest level)

Interface : Factory standard.

Direction of rotation : 11RC - No restriction on direction of rotation.

11RCE - Depends upon the direction rotation of pump attached.

Connection : Suction port (S) - G3/4 female.

Delivery (P) - G1/2 female.

Delivery (P) - G1/21

Speed range : 300 to 2000 r/min.

Max. Suction Head : At no time allow the oil level in the tank to fall 500 mm below the axis of the pump,

when the pump is mounted horizontally, or 500 mm below the mounting face of the

pump, when the pump is mounted vertically.

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 : 11RC5 11RCF 11RC7 11RCF 11RC9 11RCF9

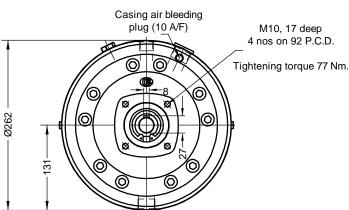
Kg: 21.8 22.1 22.9 23.2 24 24.3

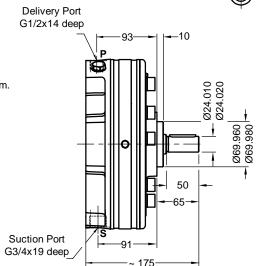
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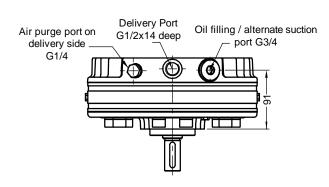


Unit dimensions Dimensions in mm.

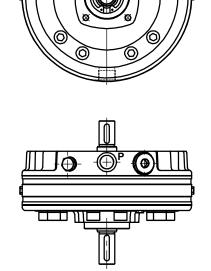
Pump without extension shaft Model - 11RC5, 11RC7 or 11RC9

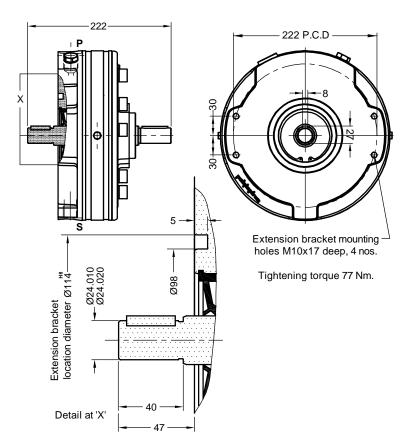






Pump with extension shaft Model - 11RCE5, 11RCE7 or 11RCE9







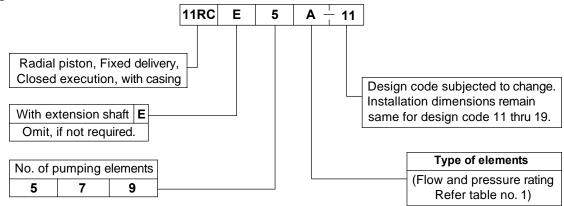
Performance table no. 1

No. of pumping elements	i type i	Geometrical displacement in cm^3/r	Pump output in I/min At 1450 r/min	Maximum	Pressure in bar								
				Operating pressure in bar	50	100	150	200	250	300	315	400	
					Power required to drive the pump in kW								
5	Α	7.70	10.5	400	1.09	2.19	3.28	4.38	5.47	6.57	6.89	8.75	
7		10.78	14.7		1.53	3.06	4.60	6.13	7.66	9.19	9.65	12.25	
9		13.85	18.9		1.97	3.94	5.91	7.88	9.85	11.82	12.41	15.76	
5	В	10.05	13.7	315	1.43	2.86	4.29	5.72	7.15	8.57	9.00		
7		14.07	19.2		2.00	4.00	6.00	8.00	10.0	12.0	12.6		
9		18.10	24.7		2.57	5.14	7.72	10.29	12.86	15.43	16.21		
5	С	12.72	17.3	250	1.81	3.62	5.43	7.23	9.04				
7		17.81	24.3		2.53	5.06	7.60	10.1	12.6	4134 4 6 4 4 6 1			
9		22.90	31.2		3.26	6.51	9.77	13.02	16.28	1kW = 1.3410 hp			

Note: Torque limitation: The total sum of torque applied to drive the pump and the pump attached

(In case model 11RCE is used), at any given instance, should not exceed 220 Nm.

Ordering code



Note: For Bell housing refer Data sheet no. D 09035 and For extension bracket refer Data sheet no. D 09090. For commissioning of pump refer datasheet no. D 11200 L.