

1RC

Radial Piston Pump
Max. Pressure up to 350 bar



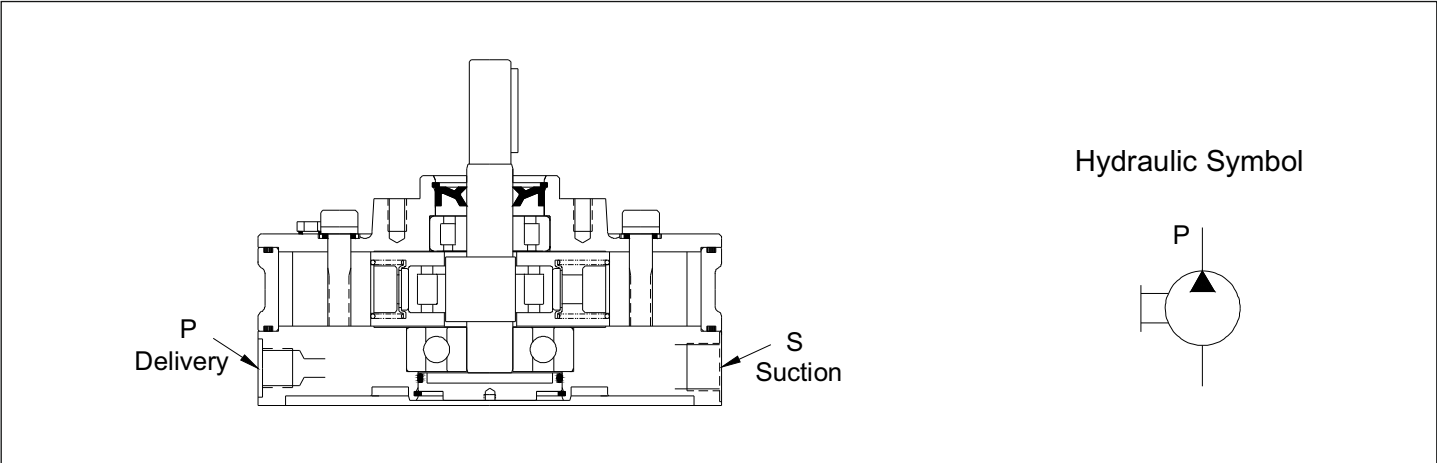
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Description

- Radial piston arrangement, with 3, 5 or 7 pumping elements. Oil immersed or external mounting type.
- Face mounting, Valve controlled, Fixed delivery.
- Bi-directional rotation of shaft. Available with extension shaft for through drive.
- With extension bracket assembly for coupling a low pressure pump having standard flange

Function Section



Ordering Code

1RC	E	5	B	01
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Radial piston pump, Fixed delivery,
Closed Execution, With casing

With Extension Shaft	E
Omit if not required	

No.of pumping elements		
3	5	7

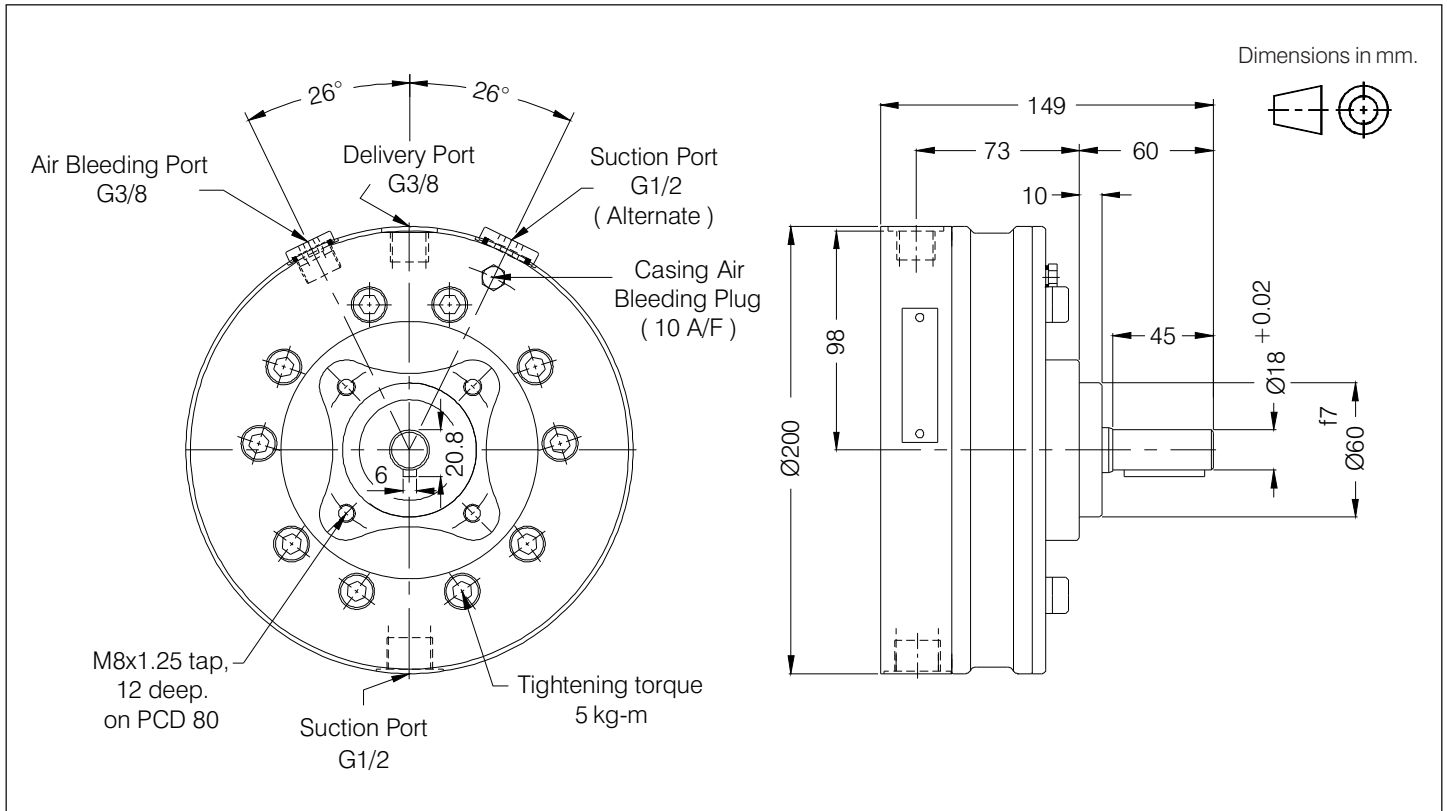
01	For 3 Element pump.
21	For 5 & 7 Elements Pump.
Design code subject to change. Installation dimensions remain same for design code 01 thru 39	

Flow & pr rating of
pumping elements
(Ref : Table No. 1)

2/4



Unit Dimensions





Technical Specifications

Designation	1RC basic radial piston pump group
Design	Radial piston, valve controlled
No. of pistons	3,5 or 7 ; depending upon the flow requirement
Mounting	Face mounting
Direction of rotation	1RC Can be run in either direction
..... 1RCE	Depends upon the direction of rotation of pump attached.
Connection Suction	G 1/2 female. Suction head — The oil level can be max. 300 mm below the suction port of the pump. Suction pipe size — 16 o. d. x 2 th. (as far as possible use straight pipe)
..... Delivery	G 3/8 female.
Suction pressure	0.02 to 3 bar positive.
Speed range	300 to 2000 rpm.
Hydraulic medium	Mineral oil
Viscosity range	10 to 100 cSt.
Temperature range	-10 °C to +80 °C.
	(Do not exceed viscosity limits at extreme temperatures for efficient running of the pump)
Fluid cleanliness requirement	As per ISO Code 16/13
Performance	Refer Table No. 1
Mass	14 kg.

Table No. 1

Code No.	Geometrical displacement CC / REV	Rated output at 1450 rpm. (l / min)	Operating pressure bar	Input power requirement (@ 1450 rpm)																							
				50 bar		100 bar		150 bar		200 bar		250 bar		300 bar		350 bar		400 bar		450 bar		500 bar		550 bar			
				KW	Hp	KW	Hp	KW	Hp	KW	Hp	KW	Hp	KW	Hp	KW	Hp	KW	Hp	KW	Hp	KW	Hp	KW	Hp		
3A	1.21	1.5	550	0.17	0.23	0.3	0.5	0.5	0.7	0.7	0.9	0.9	1.2	1	1.4	1.2	1.6	1.4	1.8	1.6	2.1	1.7	2.3	1.9	2.5		
5A	2.01	2.6	550	0.29	0.38	0.6	0.8	0.9	1.2	1.2	1.5	1.4	1.9	1.7	2.3	2	2.7	2.3	3.1	2.6	3.5	2.9	3.8	3.2	4.2		
7A	2.81	3.7	550	0.4	0.54	0.8	1.1	1.2	1.6	1.6	2.2	2	2.7	2.4	3.2	2.8	3.8	3.2	4.3	3.6	4.8	4	5.4	4.4	5.9		
3B	1.88	2.5	450	0.27	0.36	0.5	0.7	0.8	1.1	1.1	1.4	1.3	1.8	1.6	2.2	1.9	2.5	2.1	2.9	2.4	3.2						
5B	3.14	4.2	450	0.45	0.6	0.9	1.2	1.3	1.8	1.8	2.4	2.2	3	2.7	3.6	3.1	4.2	3.6	4.8	4	5.4						
7B	4.4	5.8	450	0.63	0.84	1.3	1.7	1.9	2.5	2.5	3.4	3.1	4.2	3.8	5	4.4	5.9	5	6.7	5.6	7.5						
3C	2.71	3.7	350	0.39	0.52	0.8	1	1.2	1.6	1.5	2.1	1.9	2.6	2.3	3.1	2.7	3.6										
5C	4.52	6.2	350	0.64	0.86	1.3	1.7	1.9	2.6	2.6	3.5	3.2	4.3	3.9	5.2	4.5	6										
7C	6.33	8.6	350	0.9	1.21	1.8	2.4	2.7	3.6	3.6	4.8	4.5	6	5.4	7.2	6.3	8.5										
3D	3.19	4.3	300	0.45	0.61	0.9	1.2	1.4	1.8	1.8	2.4	2.3	3	2.7	3.6												
5D	5.31	7.2	300	0.76	1.01	1.5	2	2.3	3	3	4.1	3.8	5.1	4.5	6.1												
7D	7.43	10	300	1.06	1.42	2.1	2.8	3.2	4.3	4.2	5.7	5.3	7.1	6.3	8.5												
3E	3.69	5	250	0.53	0.7	1	1.4	1.6	2.1	2.1	2.8	2.6	3.5														
5E	6.16	8.4	250	0.88	1.17	1.8	2.4	2.6	3.5	3.5	4.7	4.4	5.9														
7E	8.62	11.7	250	1.23	1.64	2.5	3.3	3.7	4.9	4.9	6.6	6.1	8.2														
3F	4.24	5.8	200	0.6	0.81	1.2	1.6	1.8	2.4	2.4	3.2																
5F	7.07	9.7	200	1	1.35	2	2.7	3	4	4	5.4																
7F	9.9	13.6	200	1.11	1.89	2.8	3.8	4.2	5.7	5.6	7.5																

Note : The first digit in the code No. indicates No. of pumping elements in the pump. The second letter indicates flow and pressure rating of the pumping elements.

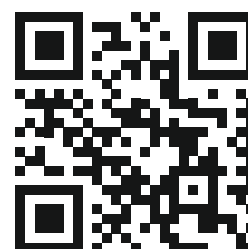
Code No. 7D for example, indicates a pump with 7 pumping elements having rated flow of 10 l / min and operating pressure upto 300 bar.

The specified data is for product description purposes only and may not be deemed to be guaranteed unless expressly confirmed in the contract.



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