

RADIAL PISTON PUMP 1R2

ENGINEERING

1

Ref. No. D11200A

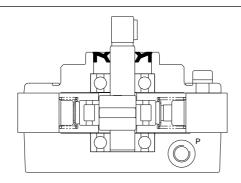
Release 08/2011

Description

Radial piston arrangement, with 2 pumping elements, Oil immersed type, Open execution, Face mounting, Valve controlled, Fixed delivery, Bi-directional rotation of shaft.



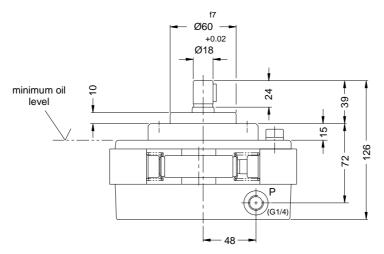
Section



Hydraulic symbol



Unit dimension



M8x1.75, 14 deep,
2 nos.

Tightening torque
5 kg-m

170

Polyhydron Pvt. Ltd.

78-80, Machhe Industrial Estate, Machhe. Belgaum - 590 014. INDIA.

Dimensions in mm.



 Phone
 : +91-(0)831-2411001

 Fax
 : +91-(0)831-2411002

 E-mail
 : polyhydron@gmail.com

 Website
 : www.polyhydron.com



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Technical specification

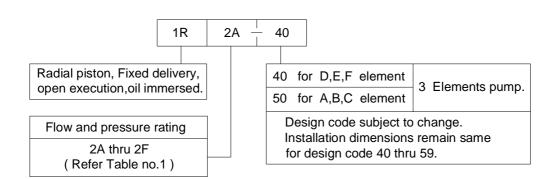
DesignRadial piston, valve controlled. No. of pistons2 Mounting Face mounting. InterfaceFactory standard. Connection Suction Sucks oil directly from tank no suction port is provided. Delivery (port P) G1/4 female. Speed range300 to 2000 rpm. Hydraulic medium Mineral oil. Optimum viscosity range 16 to 32 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. Mass3 kg.

Table No. 1

Code		Rated output	pressure		Input power requirement (@ 1450 rpm)																				
No.	displacement CC / REV	at 1450 rpm.		50 bai		100 bar		150 bar		200 bar		250 bar		300 bar		350 bar		400 bar		450 bar		500 bar		550 bar	
	CC/ REV	(I / min)	bar	KW	Hp	KW	Hp	KW	Hр	KW	Hp	KW	Hp	KW	Hр	KW	Hp	KW	Hp	KW	Hp	KW	Hр	KW	Hp
2A	0.8	1	550	0.11	0.15	0.2	0.33	0.33	0.47	0.47	0.6	0.6	0.8	0.67	0.93	0.8	1.07	0.93	1.2	1.07	1.4	1.13	1.53	1.27	1.67
2B	1.25	1.67	450	0.18	0.24	0.33	0.47	0.53	0.73	0.73	0.93	0.87	1.2	1.07	1.47	1.27	1.67	1.4	1.93	1.6	2.13				
2C	1.81	2.47	350	0.26	0.35	0.53	0.67	0.8	1.07	1	1.4	1.27	1.73	1.53	2.07	1.8	2.4								
2D	2.13	2.87	300	0.3	0.41	0.6	0.8	0.93	1.2	1.2	1.6	1.53	2	1.8	2.4			-							
2E	2.46	3.33	250	0.35	0.47	0.67	0.93	1.07	1.4	1.4	1.87	1.73	2.33												
2F	2.83	3.87	200	0.4	0.54	0.8	1.07	1.2	1.6	1.6	2.13			-											

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. 2D, for example, indicates a pump with 2 pumping elements having rated flow of 2.86 lpm and operating pressure upto 300 bar.

Ordering code



Note: For Bell housing refer sheet no. P09035.

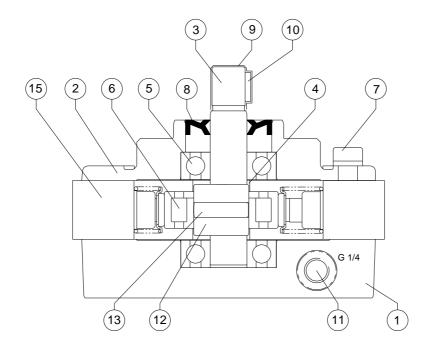
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Sectional view and Part list



Hydraulic symbol



SI.no.	Description	Part no.	Size	Qty.
1	Valve plate	11201		1
2	Cover plate	11221		1
3	Shaft	11241		1
4	Balancing Plate	11253		2
5	Bottom Bearing	11261	6304	2
6	Centre Bearing.	11265	2206	1
7	Cap Screw	11271	M10 x 55 L	4
* 8	Rotary shaft seal	11278	20 x 47 x 8	1
9	Plastic Cap	11284	1RE	1
10	Shaft Key	11292	6 x 6 x 16 L	1
11	Rubber Port Plug (00011)	11273	G 1/4 Plug Cap	1
12	Eccentric Bush	11249		1
13	Dowel pin	11270	Ø8x29.8	1
SI.no.	Description	ı	Qty.	
			2	
15	Pump element assly. (Refer Sheet No.			
13	A 11100)			
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Specified part numbers are available as spares.

* Recommended seal kit. Note:



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