

Check Valve

Model: RVP...1X



- ◆ Size 6 to 40
- ◆ Maximum working pressure 315 bar
- ◆ Maximum working flow 600 L/min

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Features

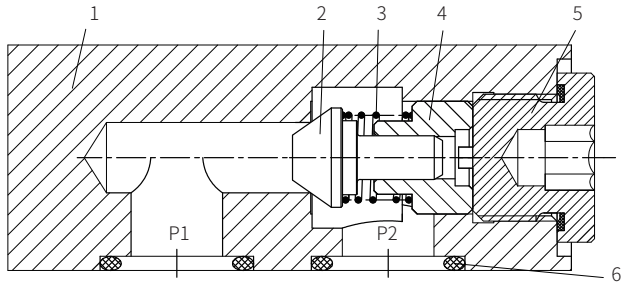
- Subplate mounting
- Leakage-free blocking in one direction

Function description, sectional drawing

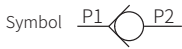
The RVP type check valve is used to allow the oil to flow freely in one direction without allowing reverse flow.

The stroke of the valve core is limited by the spring seat, and the built-in spring keeps the valve core in a closed state.

The RVP type check valve is a conical valve structure with low pressure loss. It is mainly used at the outlet of the pump as a back pressure valve and bypass valve.



1 Valve body 2 Conical valve core 3 Spring 4 Spring seat 5 Plug 6 O ring



Models and specifications

RV

P

-

1X

/

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Check valve =RV

Subplate mounting =P

No code=

V=

sealing material
NBR seals
FKM seals
(consult for other seals)

more information in text

Size 6

Size 8

Size 10

Size 12

Size 16

Size 20

Size 25

Size 30

Size 40

=6

=8

=10

=12

=16

=20

=25

=30

=40

1X=

Series 10 to 19
(10 to 19 series installation and
connection size unchanged)

Technical parameters

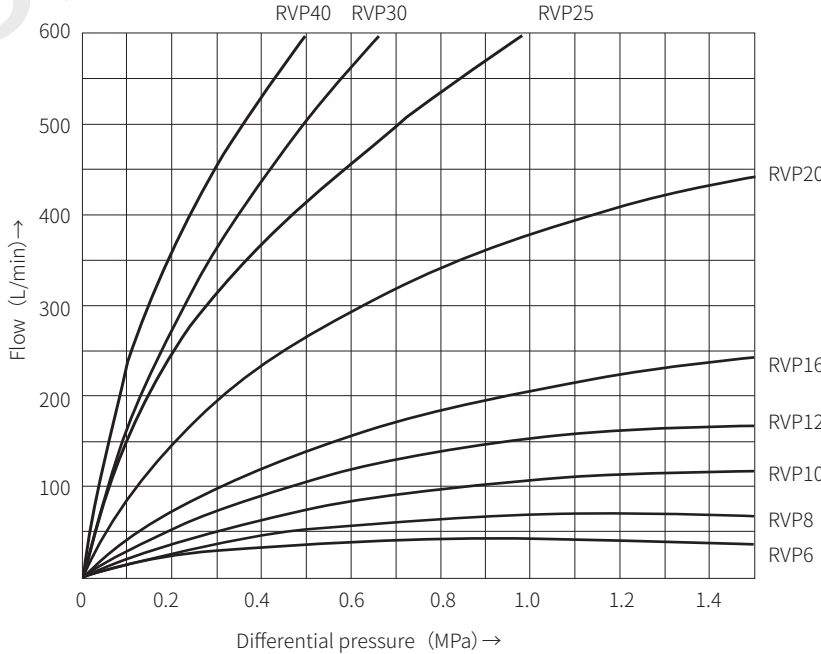
Size	6	8	10	12	16	20	25	30	40
Maximum working pressure (MPa)	31.5								
Cracking pressure of check valve (MPa)	0.05								
Pressure medium	Mineral oil(HL,HLP) ¹⁾ in accordance with DIN51524; Fast living organisms Degraded oil according to VDMA 24568; HETG(Rapeseed oil) ¹⁾ HEPG(Polyethylene glycol) ²⁾ ; HEES(synthetic ester) ²⁾								
Oil temperature range (°C)	-20 to 80								
Viscosity range (mm²/s)	2.8 to 500								
Installation position	Optional								

Characteristic curve

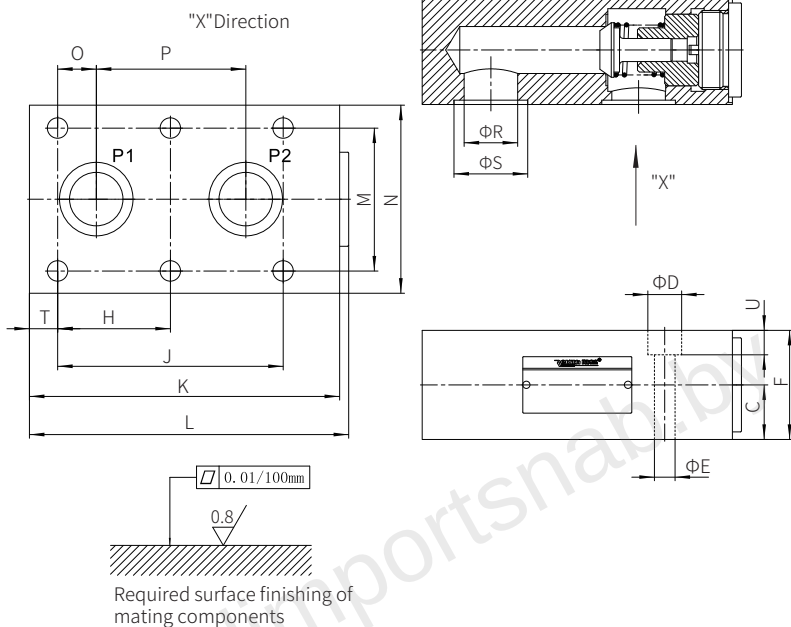
(Measured when using HLP46, $t_{oil}=40^{\circ}\text{C}\pm5^{\circ}\text{C}$)

Flow direction: P1 to P2

The relationship between differential pressure ΔP and flow Q



Model RVP...1XJ/...



Size	C	D	E	F	H	J	K	L	M
RVP-6	11.5	11	6.6	23	-	19	41.5	46	28.5
RVP-8	13	11	6.6	24	-	35	63.5	67	33.5
RVP-10	13.5	11	6.6	27	-	33.5	70	74	38
RVP-12	16	11	6.6	32	-	38	80	84	44.5
RVP-16	22.5	14	9	45	38	76	104	109	54
RVP-20	26	14	9	50	47.5	95	127	132	60
RVP-25	29	18	11	58	60	120	165	170	76
RVP-30	37.5	20	14	75	71.5	143	186	192	92
RVP-40	50	20	14	100	67	133.5	192	198	111
Size	N	O	P	R	S	T	U	Weight (kg)	
RVP-6	41.5	1.6	16	6	12.2	6.4	8	0.26	
RVP-8	46	4.5	25.5	8	13.7	14.2	10	0.5	
RVP-10	51	4	25.5	10	15.7	18	7	0.80	
RVP-12	57.5	4	30	13	21.8	21	7	1.10	
RVP-16	70	11.4	54	17	24.5	12	12	2.25	
RVP-20	76.5	19	57	22	31.5	16	12	3.90	
RVP-25	100	20.6	79.5	28.5	39.2	15	13	6.70	
RVP-30	115	23.8	95	31	41	15	13	11.0	
RVP-40	140	25.5	89	45	54	16	18	17.0	