

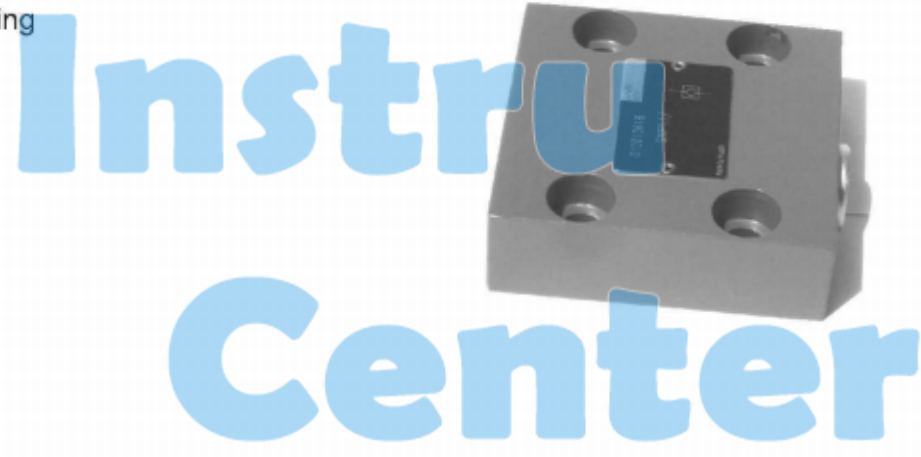
Sizes 10 20 30

up to 31.5 MPa

up to 400 L/min

Features:

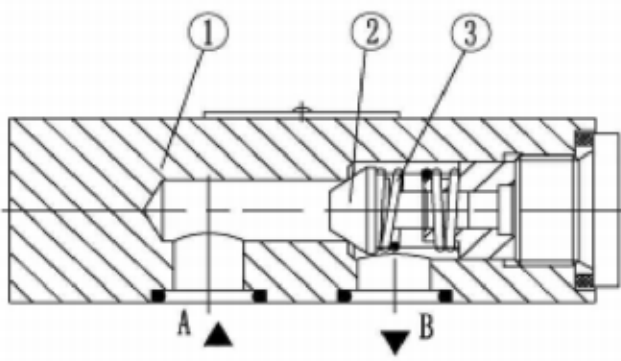
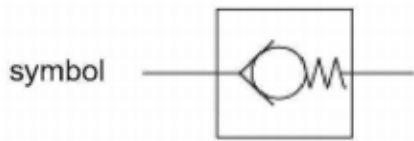
- Leakage-free closure in one direction
- 5 cracking pressure
- Subplate mouting



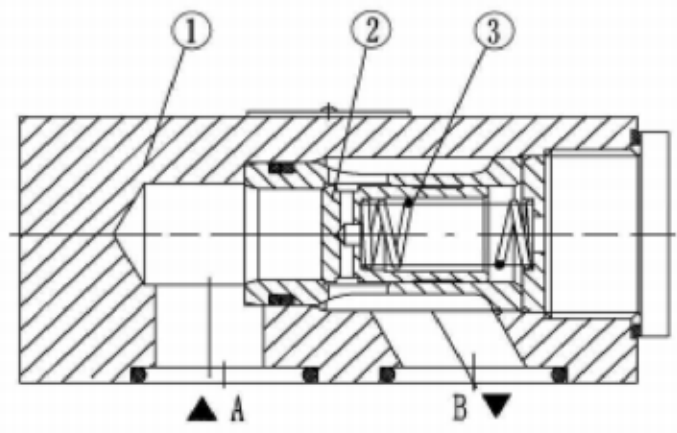
Function,section,symbol

The check valve type S has the task of, preferably closing a flow leakfree in one direction and to permit free flow in the opposite direction.It basically comprises of the housing (1), poppet (2) and the compression spring (3).

The stroke of the poppet (2), which is guided on its outside diameter, is limited by a mechanical stop. The built-in compression spring (3) supports the closing movement. Furthermore the compression spring (3) holds the poppet (2) in the closed position even when there is no flow through the valve.



Type S10P



Type S20, 30 P

Ordering details

S		P		1	B /	*
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Check valve =S

Size
 10 =10
 20 =20
 30 =30

Subplate mouting = P

Cracking pressure 0.02 MPa = 1
 Cracking pressure 0.05 MPa = 2
 Cracking pressure 0.15 MPa = 3
 Cracking pressure 0.3 MPa = 4
 Cracking pressure 0.5 MPa = 5

Further details in clear text

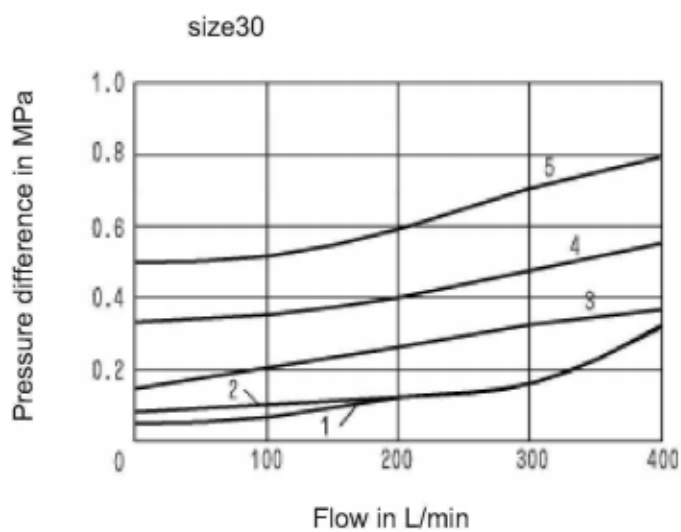
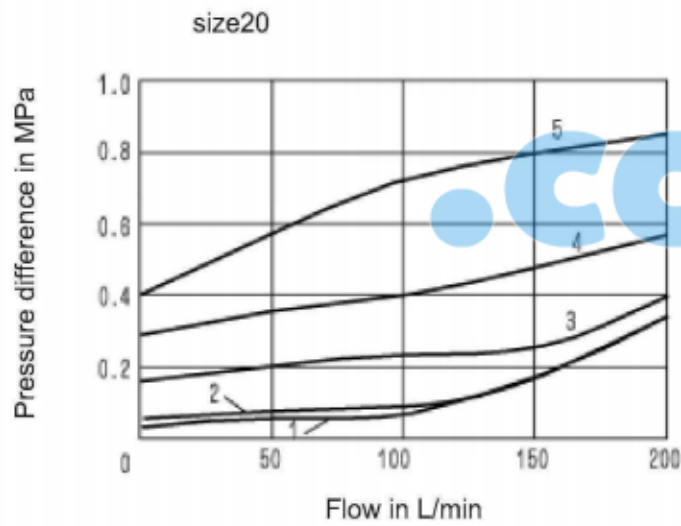
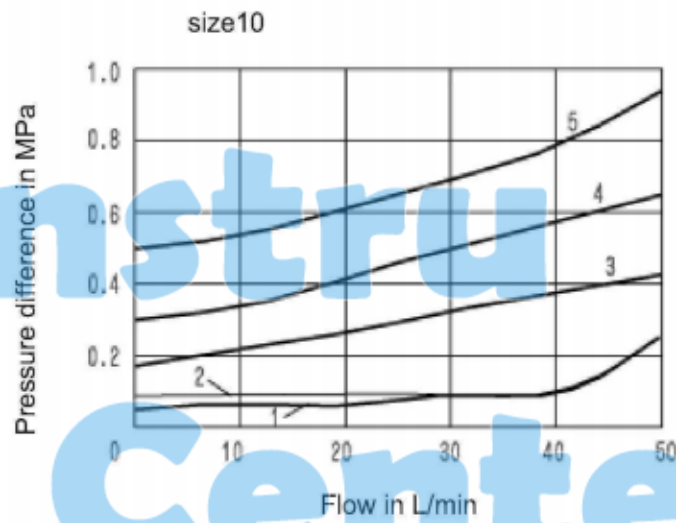
No code = Mineral oils
 V = Phosphate ester

1= Series 1
 (1 to 9: unchanged installation and connection dimensions)

Technical data

Operating fluid		mineral oils or phosphate ester
Operating pressure	(MPa)	31.5
Viscosity range	(mm ² /s)	2.8~500
Maximum flow	(L/min)	See curves
Cracking pressure	(MPa)	
Pressure fluid - temperature range	(°C)	-30~+80
Degree of contamination		maximum permissible degree of contamination of the pressure fluid is to NAS 1638 class 9. We, therefore, recommend a filter with a minimum retention rate of $\beta_{10} \geq 75$.

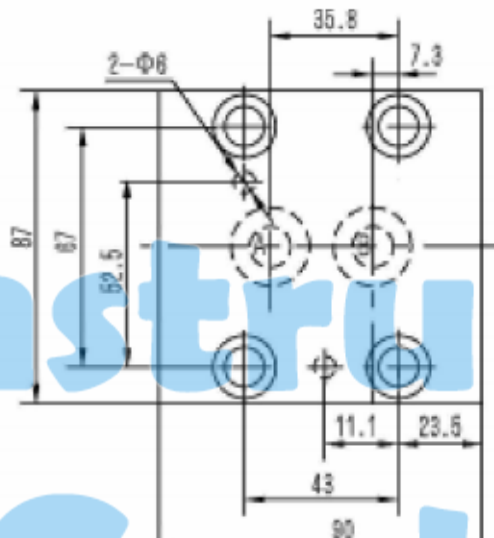
Characteristic curves (measured at $v = 41 \text{ mm}^2 / \text{s}$ and $t = 50 \text{ }^\circ\text{C}$)



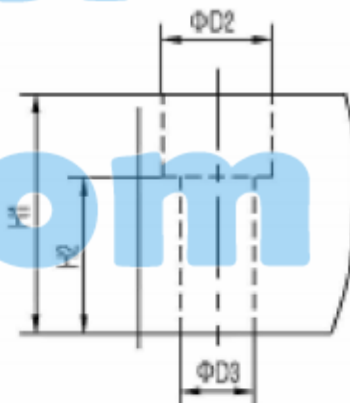
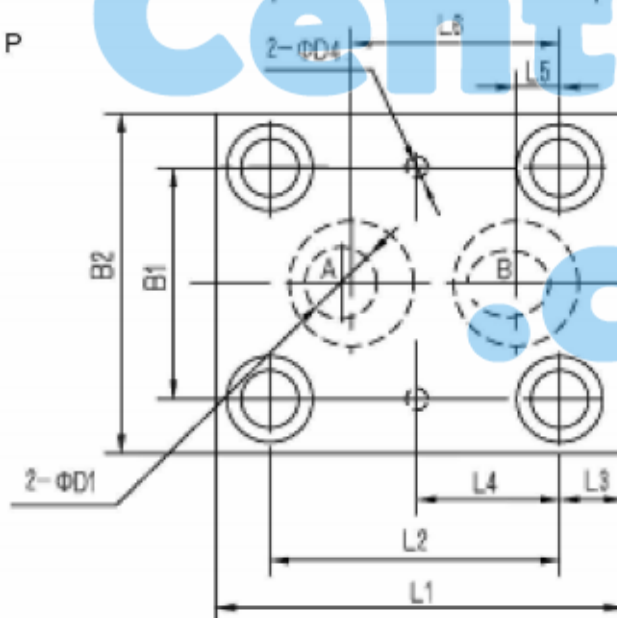
Unit dimensions

(Dimensions in mm)

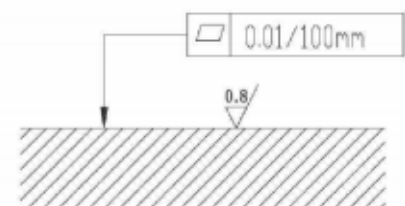
S 10 P



S 20.30 P



Required surface finish of mating piece



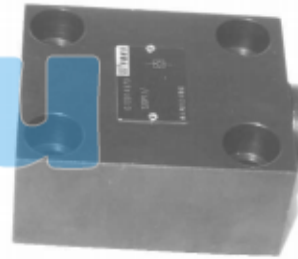
Size	Valve fixing screws (GB/T70.1-2000)	O-ring for ports A ,B
10	4-M10X35-10.9	17.12X2.62
20	4-M14X55-10.9	28.17X3.53
30	4-M18X60-10.9	34.52X3.53

Size	B1	B2	L1	L2	L3	L4	L5	L6	H1	H2	Φ D1	Φ D2	Φ D3	Φ D4
20	65	95	114	81	18	40.5	13	59	52	35	20	24	16	6
30	92	130	154	92	43.5	46	20.5	71.5	70	36	28	29	20	6

	check valve Type Rvp			RE 20400/12.2004
	Size 6 to 40	up to 31.5 MPa	up to 600L/min	Replaces: RE 20400/05.2001

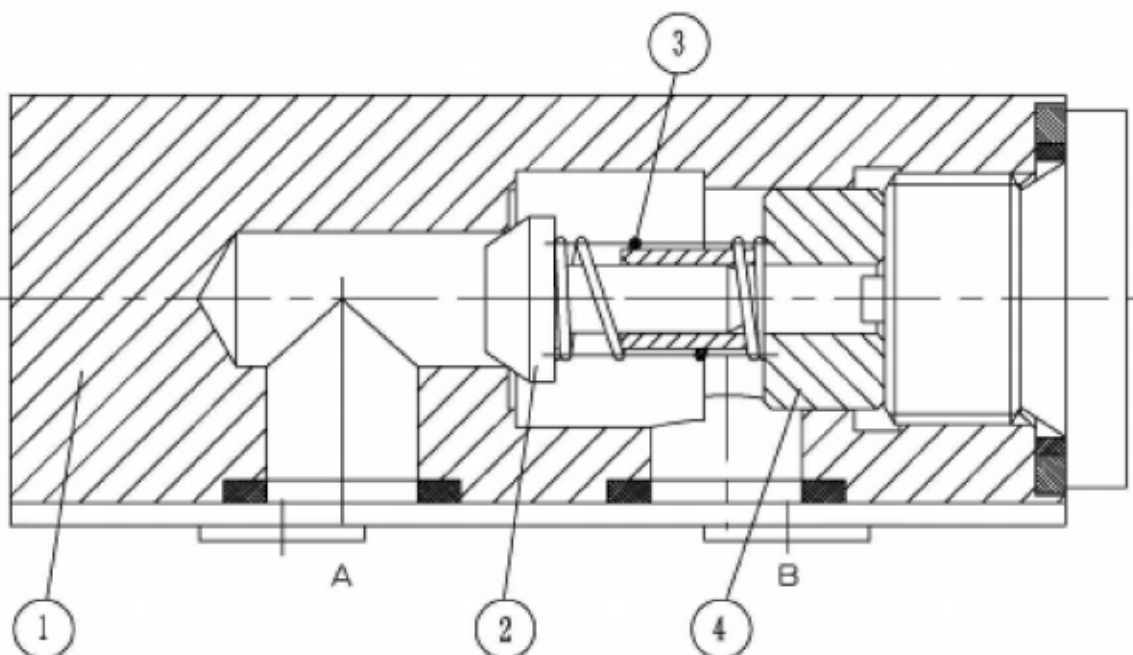
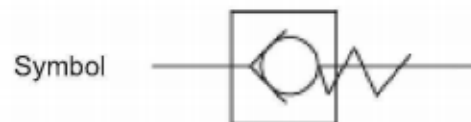
Features:

- Subplate connection
- Leakage-free closure in one direction

**Description, section, symbol**

The check valve type RVP has the task of, preferably closing a flow leakfree in one direction and to permit free flow in the opposite direction. It basically comprises of the housing (1), poppet (2) compression spring (3), and spring seat (4).

The stroke of the poppet (2), which is guided on its outside diameter, is limited by a mechanical stop. The built-in compression spring (3) supports the closing movement. Furthermore the compression spring (3) holds the poppet (2) in the closed position even when there is no flow through the valve.



1. Housing 2. Poppet 3. Spring 4. Spring seat

Ordering details

RV	P	10	B	*
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Check valve

Subplate mounting =P

Futher details in clear text

No code = Mineral oils
V = Phospate ester

Size

6	=6
8	=8
10	=10
12	=12
16	=16
20	=20
25	=25
30	=30
40	=40

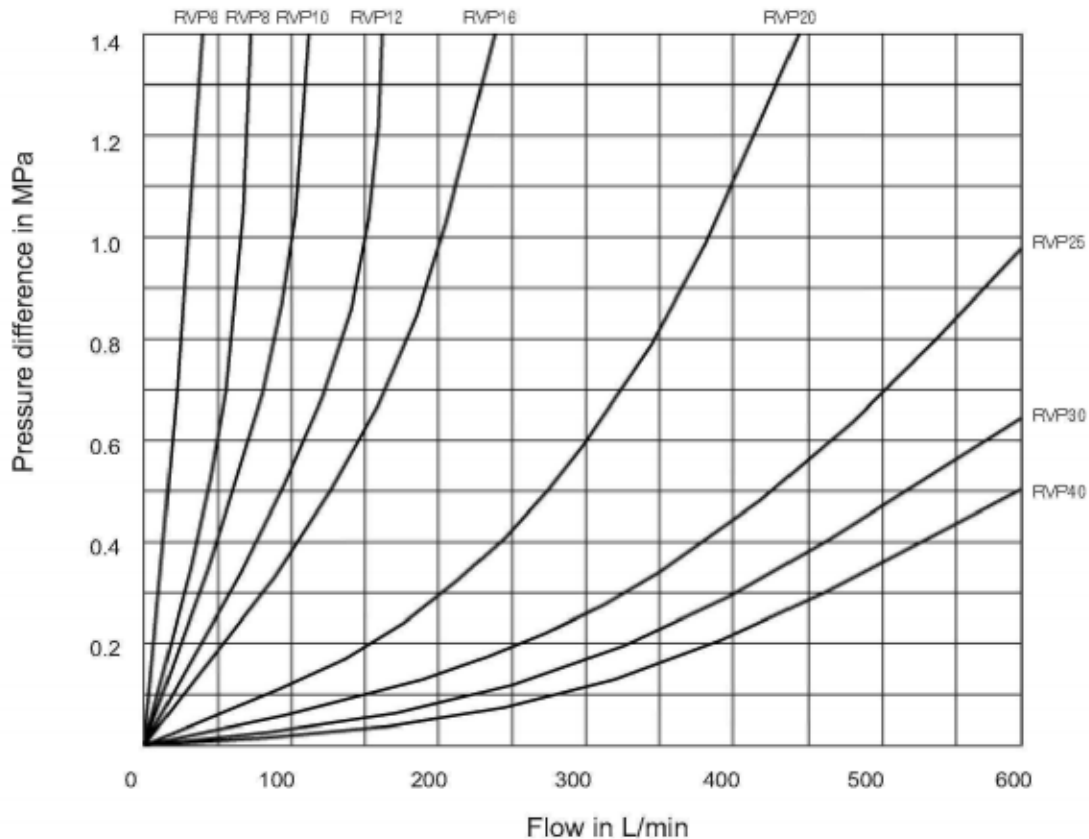
10= series 10 to 19
(10 to 19: unchanged installation and connection dimensions)

Technical data

Size	6	8	10	12	16	20	25	30	40
Operating pressure, max. (MPa)	31.5								
Opening pressure (MPa)	0.05								
Pressure fluid	mineral oils or phospate ester								
Pressure fluid temperature range (°C)	- 30 to + 80								
Viscosity range (mm ² /s)	2.8 to 500								
Fixing position	optional								

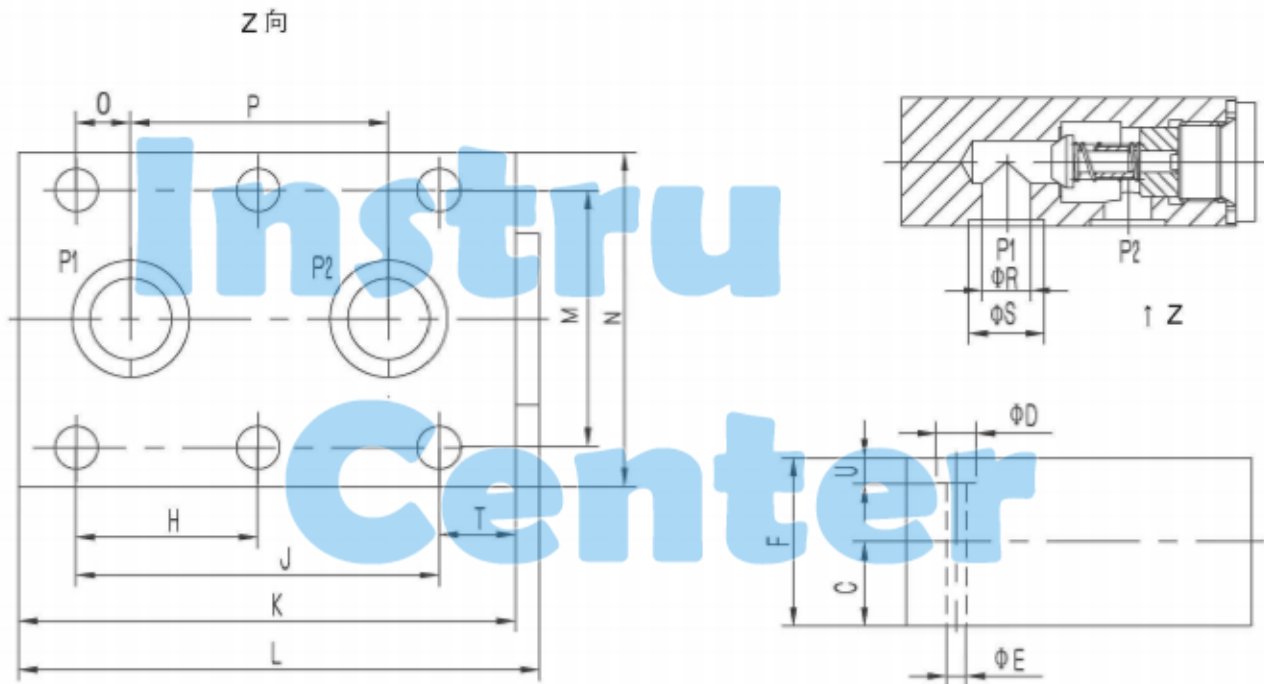
Characteristic curves (measured at $v = 41 \text{ mm}^2 / \text{s}$ and temperature $t = 50^\circ \text{C}$)

Direction of flow: P1 to P2 The relationship between pressure differential Δp and flow Q



Unit dimensions

(Dimensions in mm)



Size	C	φD	φE	F	H	J	K	L	
RVP-6	11.5	11	6.6	23	-	19	41.5	46	
RVP-8	13	11	6.6	24	-	35	63.5	67	
RVP-10	13.5	11	6.6	27	-	33.5	70	74	
RVP-12	16	11	6.6	32	-	38	80	84	
RVP-16	22.5	14	9	45	38	76	104	109	
RVP-20	26	14	9	50	47.5	95	127	132	
RVP-25	29	18	11	58	60	120	165	170	
RVP-30	37.5	20	14	75	71.5	143	186	192	
RVP-40	50	20	14	100	67	133.5	192	198	
Size	M	N	O	P	φ R	φ S	T	U	Weight(Kg)
RVP-6	28.5	41.5	1.6	16	6	12.2	16.1	8	0.26
RVP-8	33.5	46	4.5	25.5	8	13.7	14.3	10	0.50
RVP-10	38	51	4	25.5	10	15.7	18.5	7	0.80
RVP-12	44.5	57.5	4	30	13	21.8	21	7	1.10
RVP-16	54	70	11.4	54	17	24.5	16	12	2.25
RVP-20	60	76.5	19	57	22	31.5	16	12	3.90
RVP-25	76	100	20.6	79.5	28.5	39.2	30	13	6.70
RVP-30	92	115	23.8	95	31	41	28	13	11.0
RVP-40	111	140	25.5	89	45	54	42.5	18	17.0

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Notice

1. The fluid must be filtered. Minimum filter fineness is 20 μm .
2. The tank must be sealing up and an air filter must be installed on air entrance.
3. Products without subplate when leaving factory, if need them, please ordering specially.
4. Valve fixing screws must be high intensity level (class 10.9). Please select and use them according to the parameter listed in the sample book.
5. Roughness of surface linked with the valve is required to $\sqrt{0.8}$.
6. Surface finish of mating piece is required to 0.01/100mm.