

- Check valve size 04 ... size 40
- Spherical-poppet type, Push-in design, invertible
- up to 360 l/min; 350 bar (500 bar on request)



Description

Series RKVC units are push-in check valve cartridges.

Identical cavities allow the replacement with valves of the series RVC.

The valves prevent flow in direction B → A (see symbol). In the opposite direction, there is a range of opening pressures from 0,1 to 8 bar. The no flow direction can be reversed by inverting the valve in its cavity.

The units are spring-closed spherical poppet valves with hardened body, poppet and seat.

External O-rings seal the leakage path between the valve and cavity wall.

The valves can be used for pressure relief in the opening direction, but only to a limited extent (consult Aroflex for such applications).

Advantages:

- virtually leak-free
- high pressure rating
- various opening pressures
- no-flow direction can be reversed
- can be used as right-angle valve
- in conjunction with an ESH threaded mounting sleeve, can be used as a screw-in valve

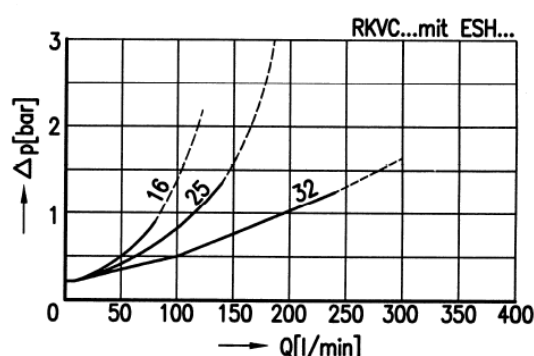
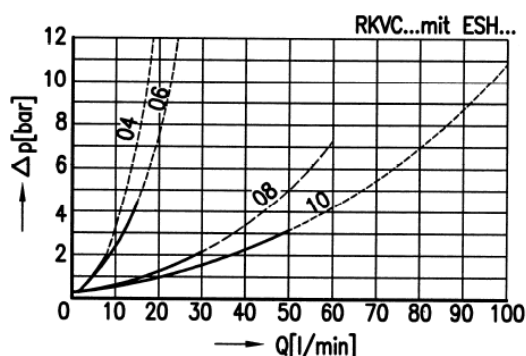
Technical Data

General Specifications	RKVC
Design:	spherical poppet design
Mounting method:	push-in cartridge
Size:	nominal 04 ... 40 (see table Dimensions)
Mounting position:	unrestricted

Hydraulic Specifications	
No-flow direction:	B → A (see symbol)
Max. pressure:	350 bar (500 bar on request)
Opening pressure range:	0,1 ... 8 bar for all sizes
Max. flow:	360 l/min
Fluid:	hydraulic oils HL and HLP according DIN 51524
Temperature range:	-30°C ... + 80°C
Viscosity range:	10 ... 500 mm ² /s (cSt)
Min. fluid cleanliness	18/14 to ISO 4406 / CETOP RP70H 8 ... 9 to NAS 1638

Characteristics

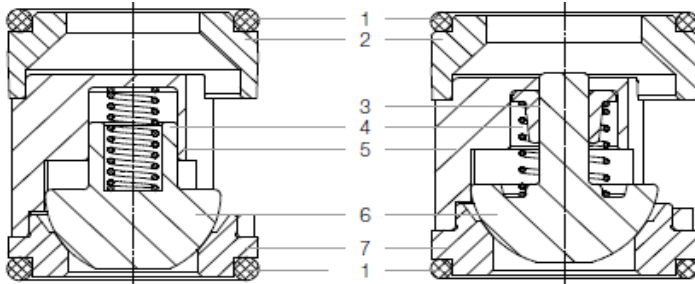
oil viscosity 33 mm²/s (cSt)



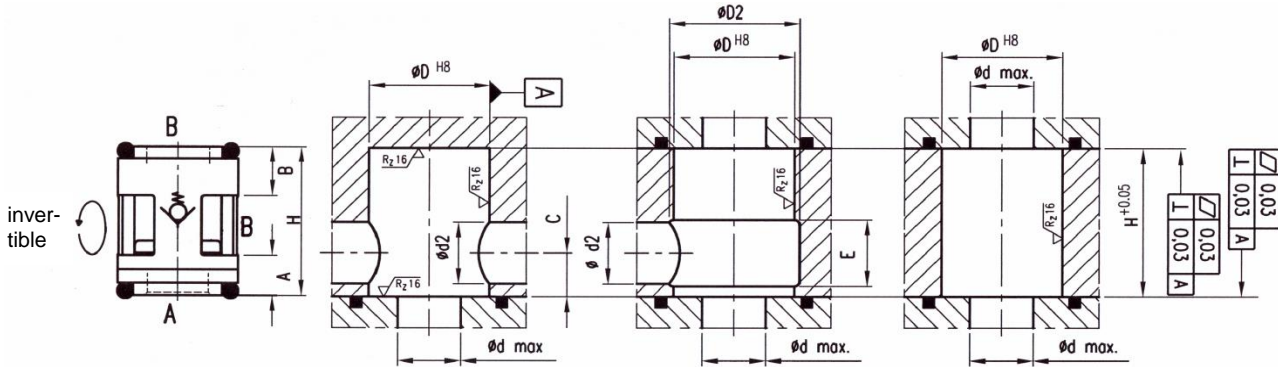
Dimensions

Valve size 04 ... 16

Valve size 25 ... 40

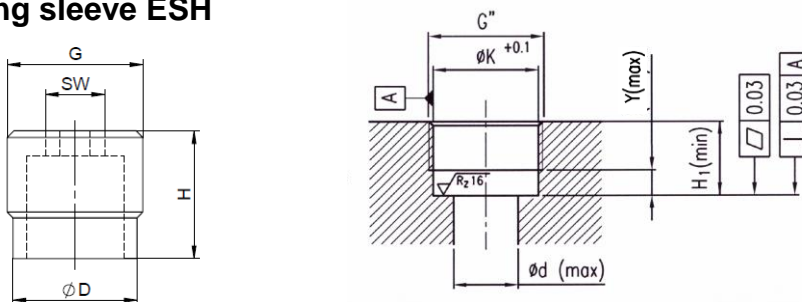


Item	Qty.	Description
1	2	O-ring
2	1	Press-fit ring
3	1	Guide bush
4	1	Spring
5	1	Valve body
6	1	Valve poppet
7	1	Valve seat



Q _{Nom} = Q _{max.} (l/min)	øD	øD ₂	ød _{max}	ød ₂	A	B	standard version		long version		E	o-ring (2 pcs)	
							H	C	H	C			
RKVC-04-	8	8,5	11	4	5	3,4	5,0	13,5	6,75	18,5	9,25	5,6	6,2 x 1,0
RKVC-06-	15	11,5	14	6	6	3,9	4,8	14,5	7,25	20,8	10,4	6,5	8,5 x 1,5
RKVC-08-	30	15,0	18	8	9	3,9	5,5	17,0	8,5	24,0	12,0	9,5	12,0 x 1,5
RKVC-10-	50	19,0	22	11	11	5,1	6,5	20,0	10,0	25,5	12,75	11,5	16,0 x 1,5
RKVC-16-	80	24,5	28	15	14	5,5	6,5	23,0	11,5	31,0	15,5	14,5	20,0 x 2,0
RKVC-25-	140	30,5	35	20	20	7,3	7,8	28,0	14,0	39,0	19,5	20,0	25,0 x 2,5
RKVC-32-	240	39,5	46	26	23	9,6	8,0	42,0	21,0	-	-	28,0	34,0 x 2,5
RKVC-40-	360	45,0	56	32	28	9,0	9,5	51,0	25,0	-	-	32,0	40,0 x 2,5

Mounting sleeve ESH



	G	øD	øK	ød _{max}	H	Y	width across flats SW	Tightening torque (Nm)	used with
ESH-06	G1/4"	11,5	11,75	4	17,0	4	4	10	RKVC-04-..
ESH-08	G3/8"	14,9	15,25	6	18,5	5	6	20	RKVC-06-..
ESH-10	G1/2"	18,7	19,00	8	21,0	6	8	40	RKVC-08-..
ESH-16	G3/4"	24,2	24,50	11	25,0	7	10	80	RKVC-10-..
ESH-25	G1"	30,2	30,50	15	29,0	9	14	160	RKVC-16-..
ESH-32	G1 1/4"	39,0	39,50	20	34,0	11	19	250	RKVC-25-..
ESH-40	G1 1/2"	44,5	45,25	28	48,5	15	*1	350	RKVC-32-..
ESH-50	G2"	56,0	56,8	32	58,0	15	*2	450	RKVC-40-..

*1 = Mounting sleeve MKS-32

*2 = Mounting sleeve MKS-40

