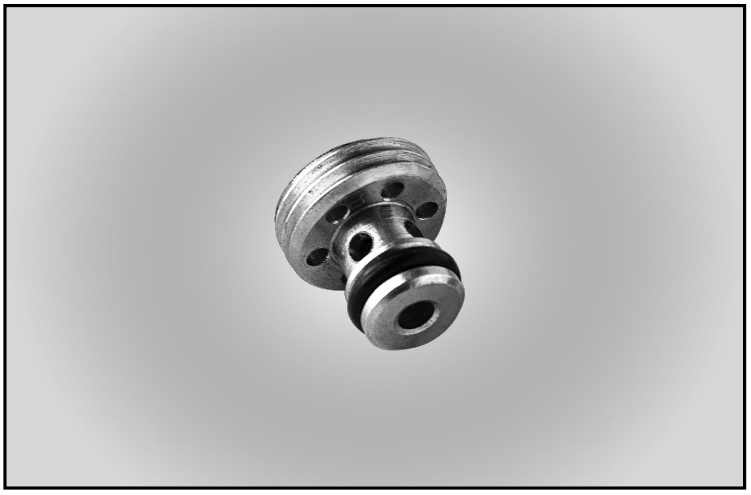
CV



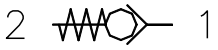
ONE-WAY CHECK VALVE (BUILT IN)

|KE 5046| 08/15 |

p_{max} 35 MPa | Q_{max} 10dm³/min

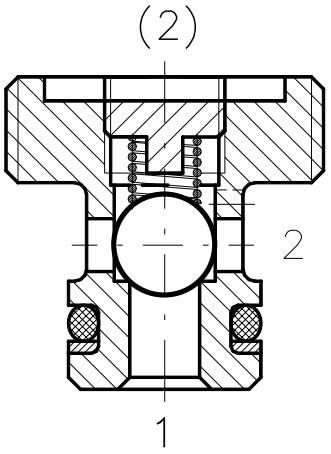
One-way check valves CV are used for leak-free closure of an oil flow in one direction.

Built-in design| Any working position | Proven design



FUNCTIONAL DESCRIPTION

One-way check valves CV are used for leakfree closure of an oil in one direction (2 (2) → 1) in a hydraulic circuit. It the opposite direction they allow free flow (1 → 2 (2)). The valve design determines the valve to be installed in hydraulic distribution blocks.



ORDERING CODE

CV - 1/4 - ☐☐

	VALVE TYPE		OPENING PRESSURE
CV	One-way check valve	**05**	0.05 MPa
		40	0.4 MPa
	CAVITY		
1/4	R 1/4"		

DELIVERY

One-way check valves CV are delivered assembled including both O-ring and back-up ring. Full sealing kit including one O-ring NBR70 5x15 and one teflon back-up ring 5.5/8/0.5 can be ordered as a spare part.

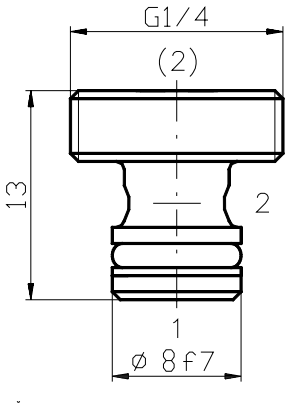
INSTALLATION, SERVICE AND MAINTENANCE

One-way check valves CV can be mounted in any working position. The reliability of the valve is conditional upon use of prescribed working fluid (see technical data), especially its parameters such as purity and temperature. Before installation O-ring and back-up ring must not be disshaped or damaged by any means.

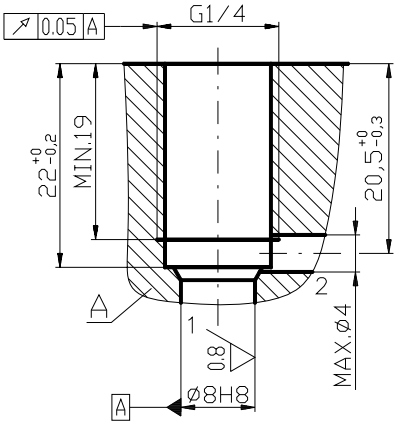
TECHNICAL DATA

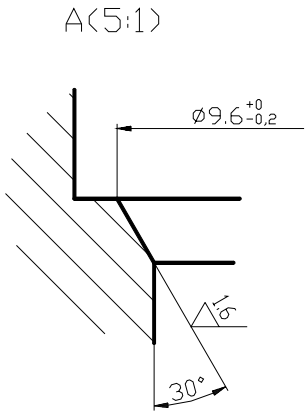
Technical data	Symbol	Unit	Value
Nominal pressure	p_n	Mpa	32
Maximal pressure	p_{max}	MPa	35
Maximal flow	Q_{max}	dm^3/min	10
Opening pressure	p_o	MPa	0.03 ~ 0.05 | 0.3 ~ 0.5
Fluid temperature range	t_{po}	°C	-20 ~ +80
Environment temperature range	t_k	°C	-20 ~ +70
Maximum degree of fluid contamination	a) class 9 according to NAS 1638, 18/15 according to ISO 4401 b) fluid filtration - $\beta_{20} \geq 100$		
Oil viscosity range	ν	mm^2/s	10 ~ 400
Flow characteristic Δp = f(Q)	see curves		
Hydraulic fluid	Mineral oil (HL, HLP) according to DIN 51 524		
Weight	m	kg	0,05

DIMENSIONS



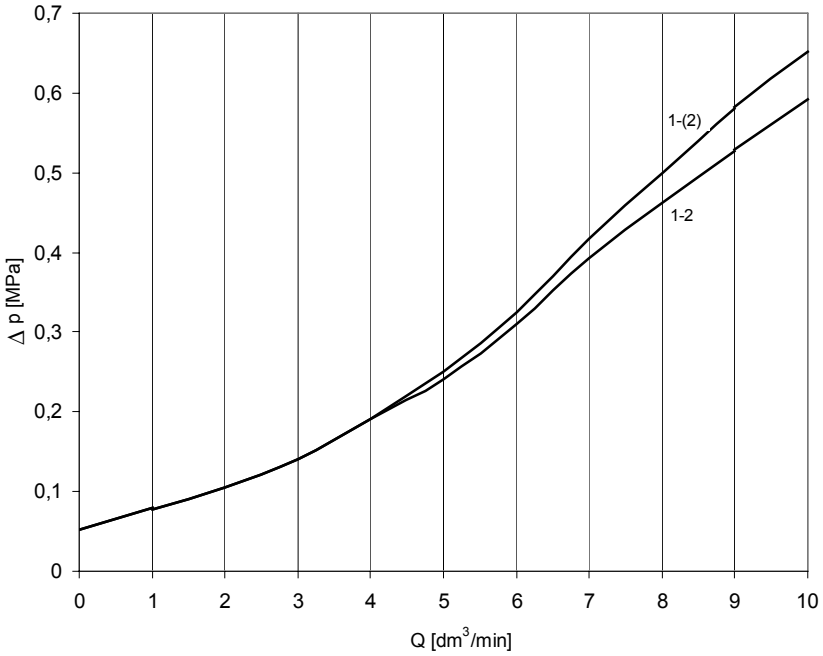
INSTALLATION CAVITY





PRESSURE DROP Δp = f(Q)

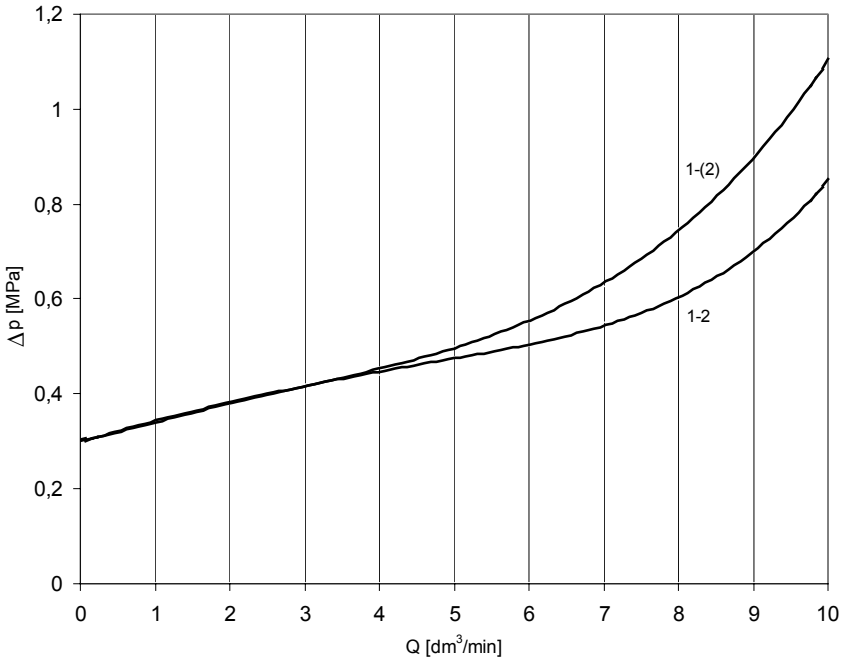
CV-1/4-05



Measured at t = 45 °C and ν = 36mm^2/s

PRESSURE DROP Δp = f(Q)

CV-1/4-40



Measured at t = 45 °C and ν = 36mm^2/s

NOTES

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