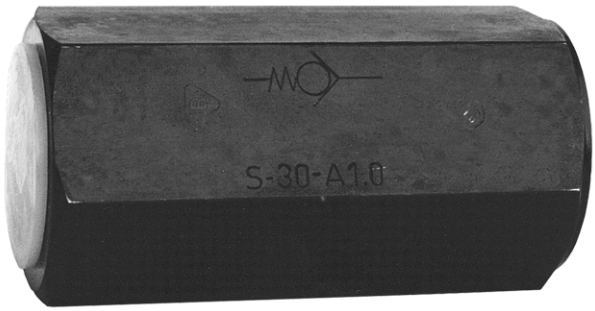
CHECK VALVE TYPE S

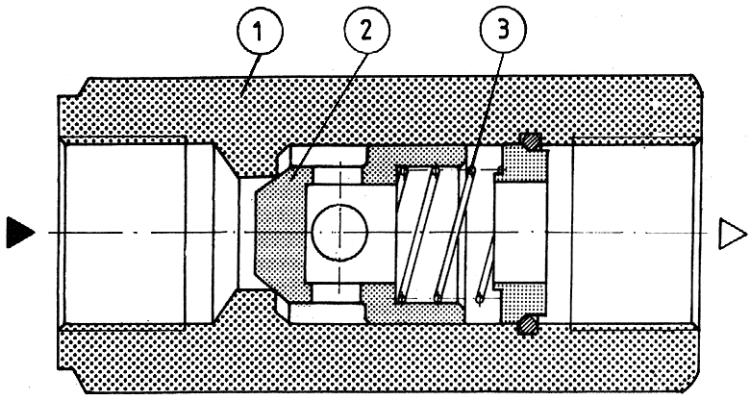
Size 6 to 30 | up to 31.5 MPa

WK 450 540
04.1999r.

Check valves type S provide leakage-free closure of hydraulic fluid flow in one direction and allow free flow in the opposite direction.
Check valves type S are designed for in-line mounting in any position.



DESCRIPTION OF OPERATION



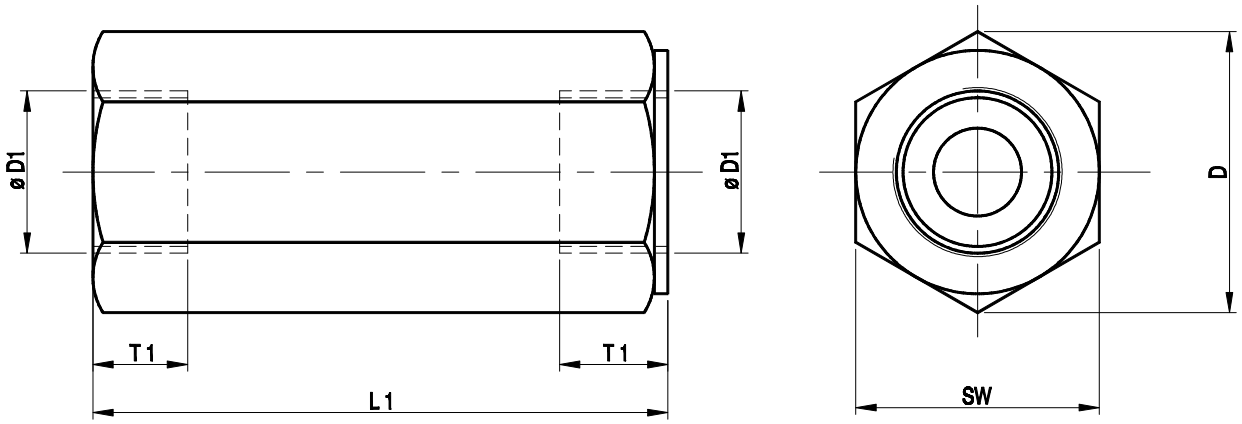
Fluid flowing through the valve overcomes the resistance of the spring 3 and causes the poppet 2 to lift. This allows free flow.

In the opposite direction the spring 3 and the fluid push the poppet 2 onto the seat in the housing 1 and close the connection.

TECHNICAL DATA

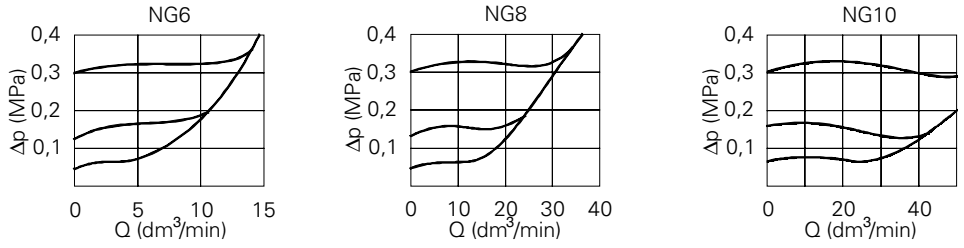
Hydraulic fluid	Mineral oil or phosphate ester						
Filtration	≤ 16 μm						
Maximum working pressure	31.5 MPa						
Nominal fluid viscosity	37 mm^2/s at the temperature of 328 K						
Viscosity range	2.8 to 380 mm^2/s						
Optimum working temperature (fluid in a tank)	313 - 328 K						
Temperature range	243 - 343 K						
Cracking pressure	Type 1			Type 2		Type 3	
	0.05 MPa			0.15 MPa		0.3 MPa	
Nominal flow in dm^3/min at V = 6 m^2/s	Size 6	Size 8	Size 10	Size 15	Size 20	Size 25	Size 30
	10	18	30	65	115	175	260

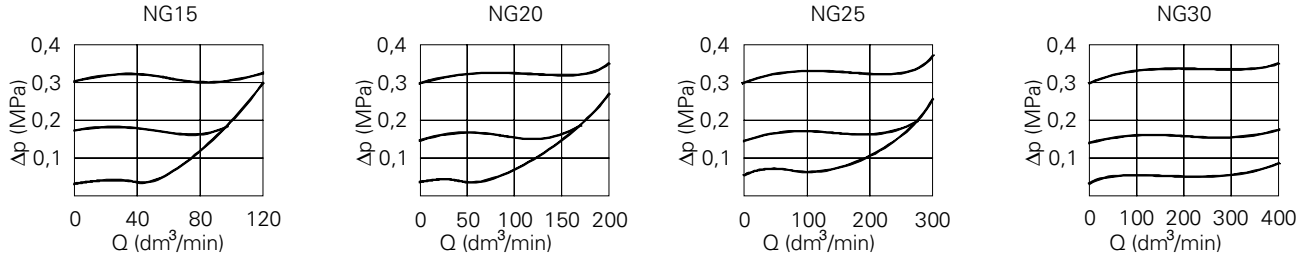
OVERALL DIMENSIONS



NG	6	8	10	15	20	25	30
D1	G 1/4	G 3/8	G 1/2	G 3/4	G1	G 1 1/4	G1 1/2
D	22	28	34,5	41,5	53	69	75
L1	58	58	72	85	98	120	132
T1	12	12	14	16	18	20	22
SW	19	24	30	36	46	60	65
Weight kg	0,1	0,2	0,3	0,5	1,0	2,0	2,5

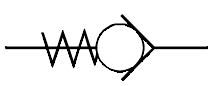
PERFORMANCE CURVES, measured at ν = 41 mm²/s and T = 323 K





Pressure difference Δp related to flow Q at the particular cracking pressure.

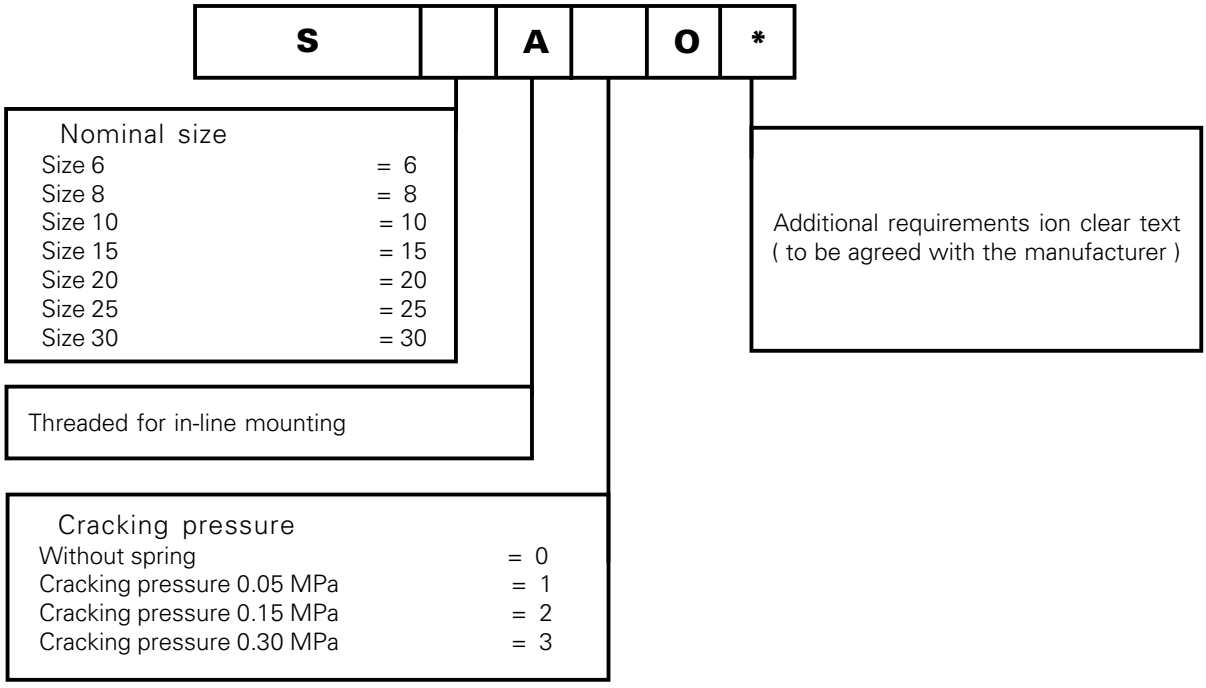
SCHEME



Graphical symbol

HOW TO ORDER

Orders coded in the way showed below should be forwarded to the manufacturer.



Coding example : S6A1.0

NOTES :

Q-HYDRAULIKA, Rakovník
Rabasova 2281, 269 01 Rakovník, tel./fax: 313 514 718
e-mail: info@q-hydraulika.cz, www.q-hydraulika.cz