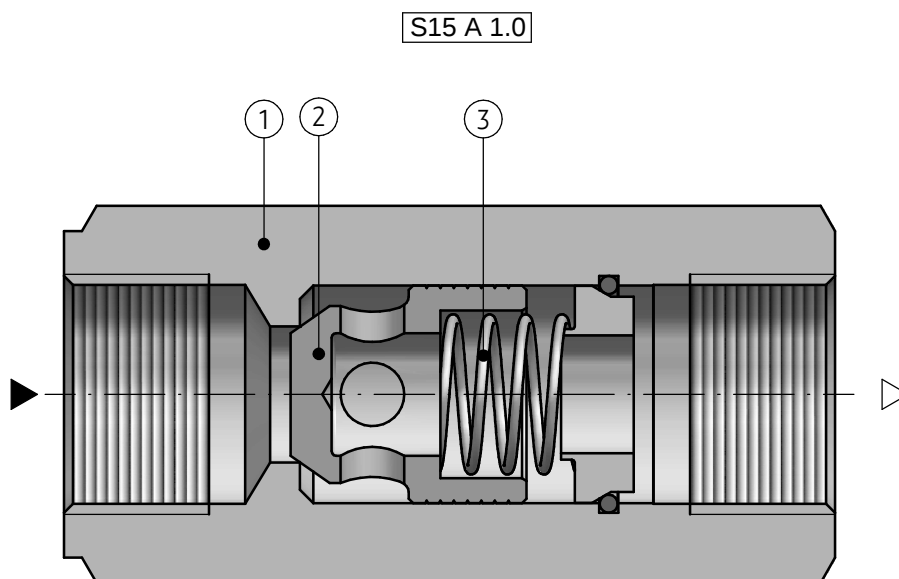


APPLICATION

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



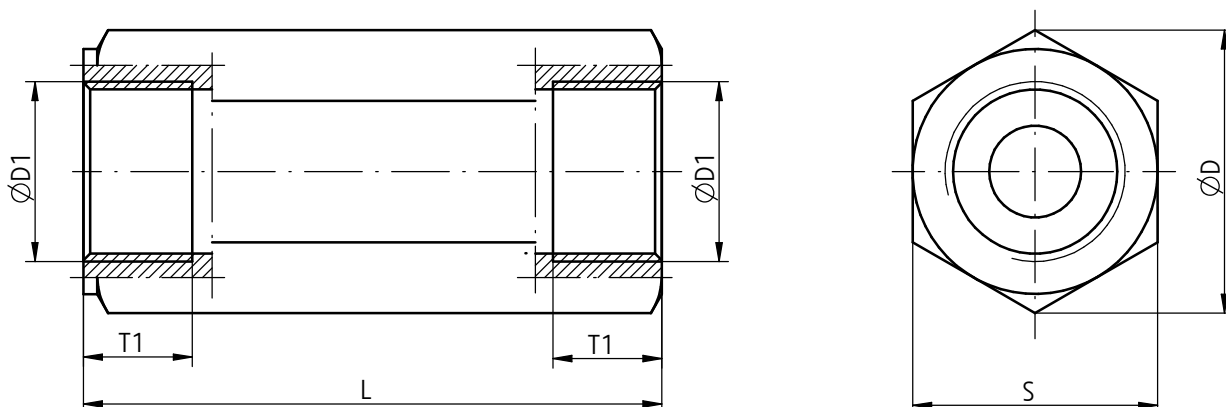
Fluid flowing through the valve overcomes the resistance of the spring (3) and causes the poppet (2) to lift. This allows free flow. In the opposite direction

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						
Required fluid cleanliness class	ISO 4406 class 20/18/15						
Nominal fluid viscosity	37 mm ² /s at temperature 55 °C						
Viscosity range	2,8 up to 380 mm ² /s						
Fluid temperature range (in a tank)	recommended	40 °C up to 55 °C					
	max	-20 °C up to +70 °C					
Ambient temperature range	- 20 °C up to +70 °C						
Maximum operating pressure	35 MPa						
Cracking pressure	0,0 MPa (without spring)	0,05 MPa	0,15 MPa	0,3 MPa	0,5 MPa		
Nominal flow [dm ³ /min] at v = 6 m/s	nominal size						
	WN6	WN8	WN10	WN16	WN20	WN25	WN30
	10	18	30	65	115	175	260

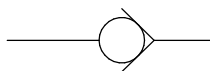
OVERALL AND CONNECTION DIMENSIONS



Nominal size (NS)	ØD1	T1	L	S	D	weight [kg]
6	G1/4	12	58	19	22	0,1
8	G3/8	12	58	24	28	0,2
10	G1/2	14	72	30	34,5	0,3
15	G3/4	16	85	36	41,5	0,5
20	G1	18	98	46	53	1,0
25	G1 1/4	20	120	60	69	2,0
30	G1 1/2	22	132	65	75	2,5

DIAGRAMS

Graphic symbol for the valve type S...



version S... A **0.0** (without spring)



versions: S... A **1.0**

S... A **2.0**

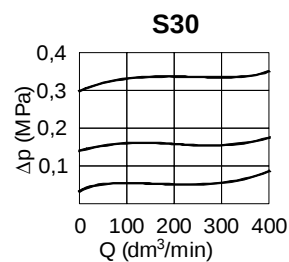
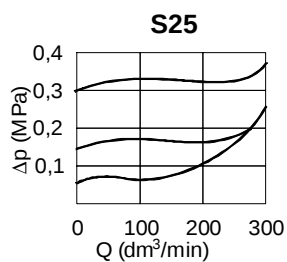
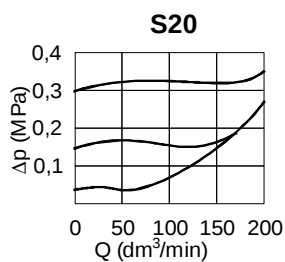
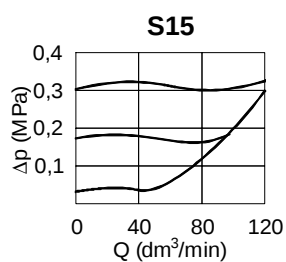
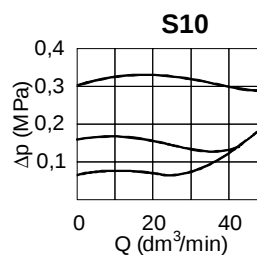
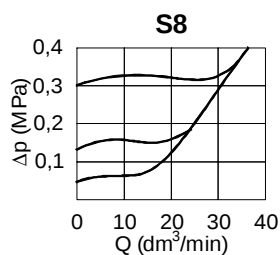
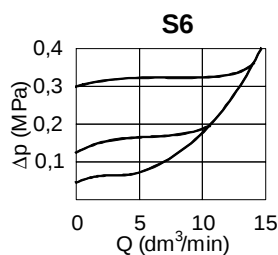
S... A **3.0**

S... A **5.0**

PERFORMANCE CURVES

measured at viscosity $\nu = 41 \text{ mm}^2/\text{s}$ and temperature $t = 50^\circ\text{C}$

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



HOW TO ORDER

S		A	• 0	★
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Nominal size (NS)

NS6	= 0
NS8	= 8
NS10	= 10
NS15	= 15
NS20	= 20
NS25	= 25
NS30	= 30

Type of connection

threaded for in-line mounting = **A**

Cracking pressure

0,00 MPa (without spring)	= 0
0,05 MPa	= 1
0,15 MPa	= 2
0,30 MPa	= 3
0,50 MPa	= 5

Series number

series 0 = **0**

Further requirements in dear text

(to be agreed with the manufacturer)

NOTES:

The valve should be ordered according to the above coding.

The symbols in bold are preferred versions in short delivery time.

Coding example: S6 A 1.0

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