

12.4.1 TECHNICAL DATA

MAX OPERATING PRESSURE: 315 bar

CRACKING PRESSURE: 0,5 ÷ 3 BAR

WORKING TEMPERATURE: : -30 ÷ +80 °C

HYDRAULIC FLUID: mineral oil HL or HM

FLUID VISCOSITY RANGE: 10 ÷ 400 cSt

RECOMMENDED VISCOSITY: 36 cSt

FLUID CONTAMINATION DEGREE:
class 20/18/15 according to ISO 4406/99

MATERIAL: phosphating carbon steel or galvanized carbon steel in compliance to directive 2002/95/CE (RoHS) for resist to the corrosion.

FLOW RATE: 25 ÷ 650 l/min see table 12.4e

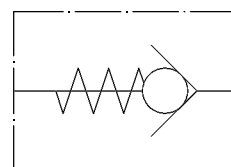
CONNECTIONS: 1/4" ÷ 1"1/2 BSP

WEIGHT: see table 12.4d



12.4a

12.4.3 HYDRAULIC SYMBOL



12.4b

12.4.2 DESCRIPTION

The check valves type "WS" are valves with threaded "BSP" ports for mounting in-line on hydraulic lines in any position.

They allow the flow to pass freely in one direction, blocking it in the opposite direction.

In rest conditions, the valve poppet is kept closed by a spring.

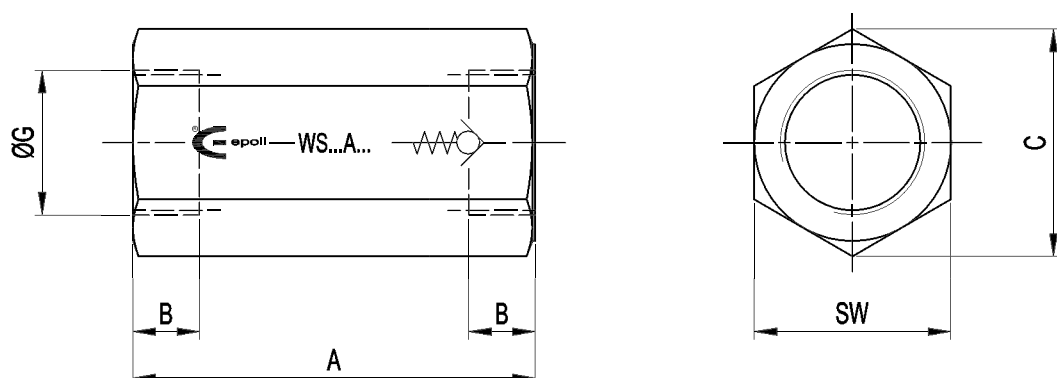
Fluid flowing through the valve overcomes the resistance of the spring and causes the poppet to lift. This allows free flow.

In the opposite direction the spring and the fluid push the poppet into the seat in the housing and close the connection.

12.4.4 ORDER CODE

1	2	3	4	5
WS	20	A	1	0
Series Check valves = WS	Nominal size Size 6 (1/4") = 6 Size 8 (3/8") = 8 Size 10 (1/2") = 10 Size 15 (3/4") = 15 Size 20 (1") = 20 Size 25 (1"1/4") = 25 Size 30 (1"1/2") = 30	Connections BSP threaded ports = A	Cracking pressure Without spring = 0 Cracking pressure 0,5 bar = 1 1,5 bar = 2 3,0 bar = 3	Series number The overall and mounting dimensions remain unchanged from 0 to 9

12.4.5 DIMENSIONS



12.4c

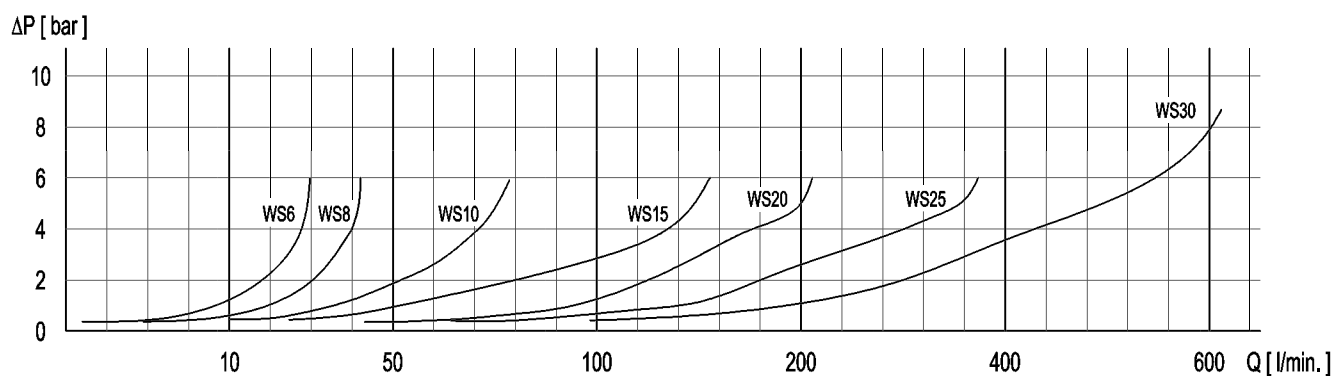
Order code	Nominal size	ØG BSP	A mm	B mm	C mm	SW mm	Weight Kg
WS6A...	6	1/4"	58	12	22	19	0.1
WS8A...	8	3/8"	58	12	28	24	0.2
WS10A...	10	1/2"	72	14	34.5	30	0.3
WS15A...	15	3/4"	85	16	41.5	36	0.5
WS20A...	20	1"	98	18	53	46	1.0
WS25A...	25	1" 1/4	120	20	69	60	2.0
WS30A...	30	1" 1/2	132	22	75	65	2.5

12.4d

12.4.6 PRESSURE DROP

Pressure ΔP related to flow Q.

Curves measured using mineral oil with viscosity of 36 cSt at 50°C.



12.4e

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