

Pilot-operated non-return valve, Series NR02

- $Q_n 1 \rightarrow 2 = 480\text{--}5800 \text{ l/min}$
- $Q_n 2 \rightarrow 1 = 400\text{--}4800 \text{ l/min}$
- installing in piping
- Internal thread
- G 1/8 G 1/4 G 3/8 G 3/4 G 1/2 G 1
- Internal thread
- G 1/8 G 1/4 G 3/8 G 3/4 G 1/2 G 1



Version

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Weight

Poppet valve

1 ... 12 bar

-10 ... 60 °C

-10 ... 60 °C

Compressed air

See table below



Technical data

Part No.	Port 1	Port 2	Port 12	Flow $Q_n 1 \rightarrow 2$	Flow $Q_n 2 \rightarrow 1$	Housing material	Weight	Fig.	
			Exhaust						
0821003025	G 1/8	G 1/8	G 1/8	480 l/min	400 l/min	Die cast zinc	0,099 kg	Fig. 1	-
0821003026	G 1/4	G 1/4	G 1/8	510 l/min	400 l/min	Die cast zinc	0,099 kg	Fig. 1	-
0821003027	G 3/8	G 3/8	G 1/8	2200 l/min	2200 l/min	Die cast zinc	0,23 kg	Fig. 2	-
0821003042	G 3/8	G 3/8	G 1/8	2400 l/min	2100 l/min	Die cast zinc	0,23 kg	Fig. 4	1)
0821003029	G 3/4	G 3/4	G 1/8	4600 l/min	4500 l/min	Aluminum	0,52 kg	Fig. 3	-
0821003028	G 1/2	G 1/2	G 1/8	2300 l/min	2200 l/min	Die cast zinc	0,23 kg	Fig. 2	-
0821003030	G 1	G 1	G 1/8	5800 l/min	4800 l/min	Aluminum	0,52 kg	Fig. 3	-

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

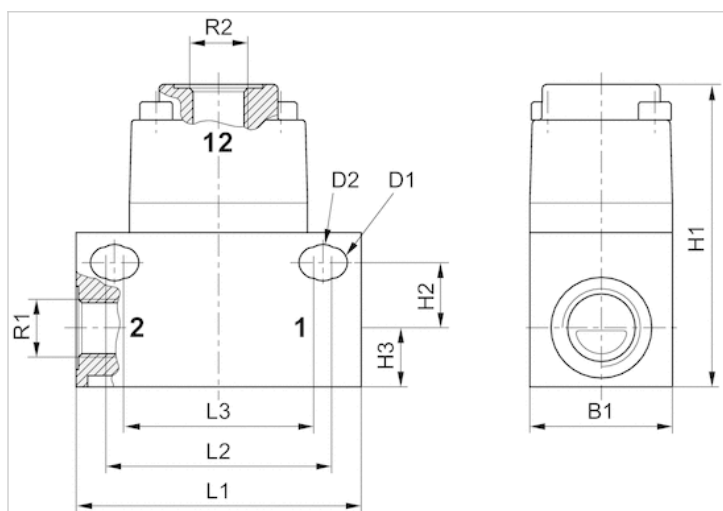
1) With manual override

Technical information

Material	
Housing	Die cast zinc Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions, Fig. 1

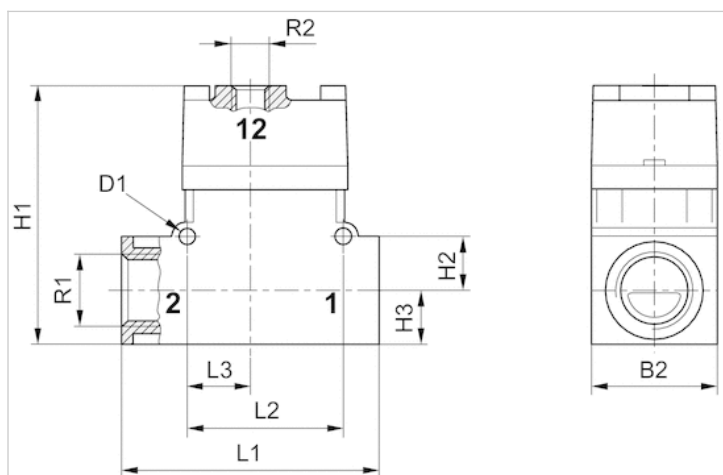


Dimensions

Part No.	R1	R2	Ø D1	Ø D2	L1	L2	L3	H1	H2	H3	B1
0821003025	G 1/8	G 1/8	5.2	6.1	48	38	32	51	11	10	24
0821003026	G 1/4	G 1/8	5.2	6.1	48	38	32	51	11	10	24

Dimensions

Dimensions, Fig. 2

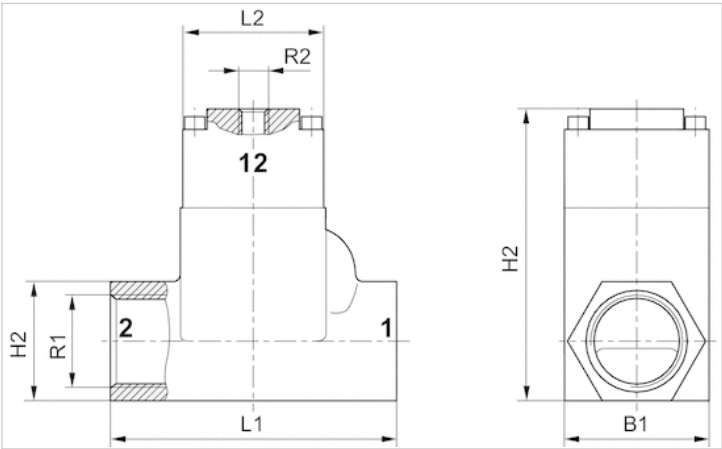


Dimensions

Part No.	R1	R2	Ø D1	L1	L2	L3	H1	H2	H3	B1
0821003027	G 3/8	G 1/8	4.3	72	44	18	72	15	15	35
0821003028	G 1/2	G 1/8	4.3	72	44	18	72	15	15	35

Dimensions

Dimensions, Fig. 3

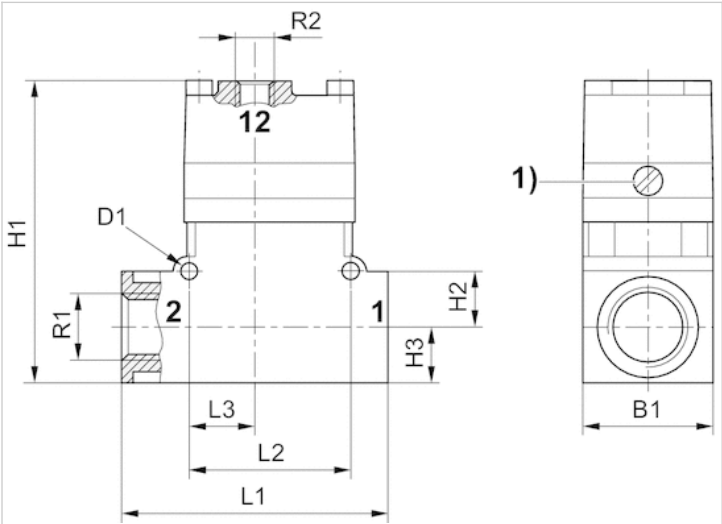


Dimensions

Part No.	R1	R2	L1	L2	H1	H2	B1
0821003029	G 3/4	G 1/8	100	50	41	101	50
0821003030	G 1	G 1/8	100	50	41	101	50

Dimensions

Dimensions, Fig. 4



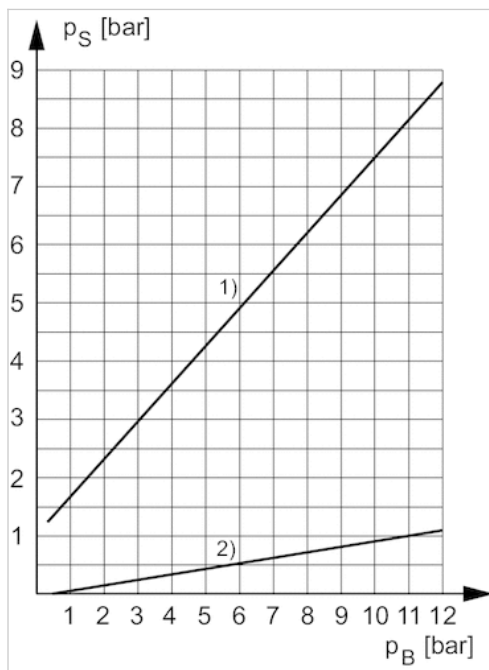
1) Manual override

Dimensions

Part No.	R1	R2	Ø D1	L1	L2	L3	H1	H2	H3	B1
0821003042	G 3/8	G 1/8	4.3	72	44	18	82	15	15	35

Diagrams

control pressure characteristic, G 1/8



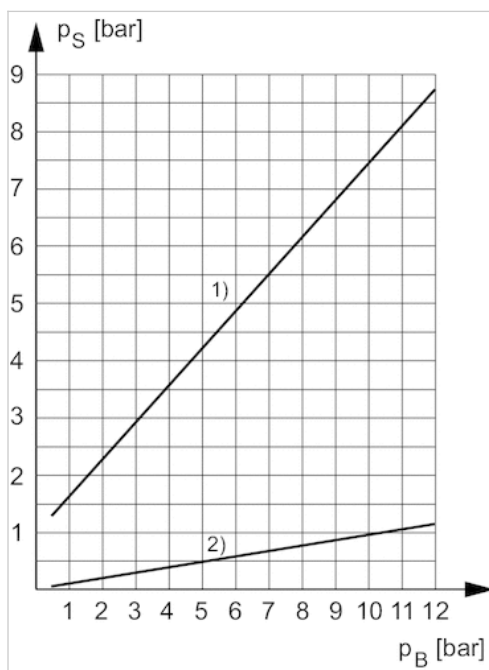
PS = control pressure

PB= Working pressure

1) Opening pressure

2) Closing pressure

control pressure characteristic, G 1/4



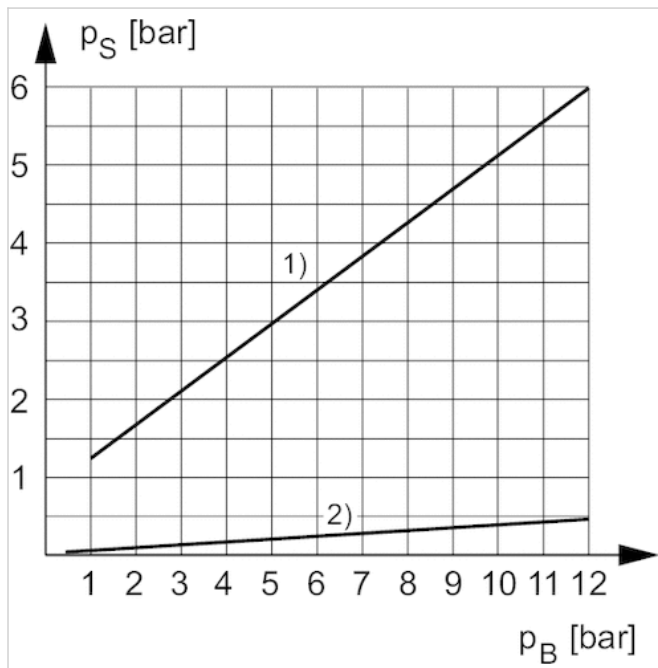
PS = control pressure

PB= Working pressure

1) Opening pressure

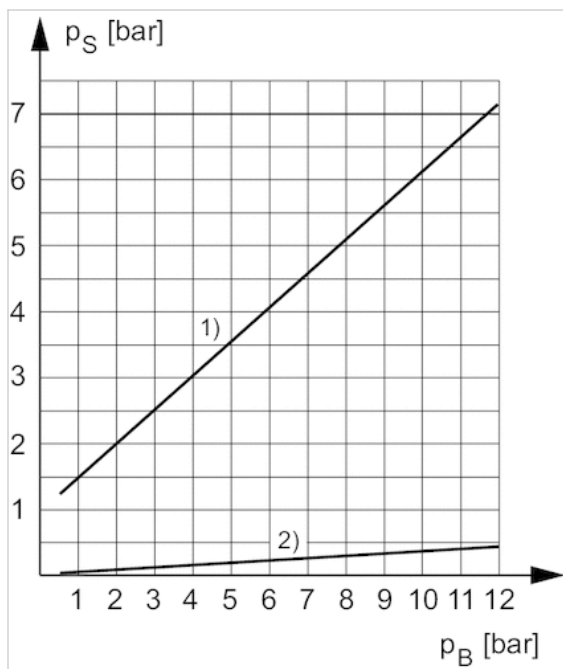
2) Closing pressure

control pressure characteristic, G 3/8



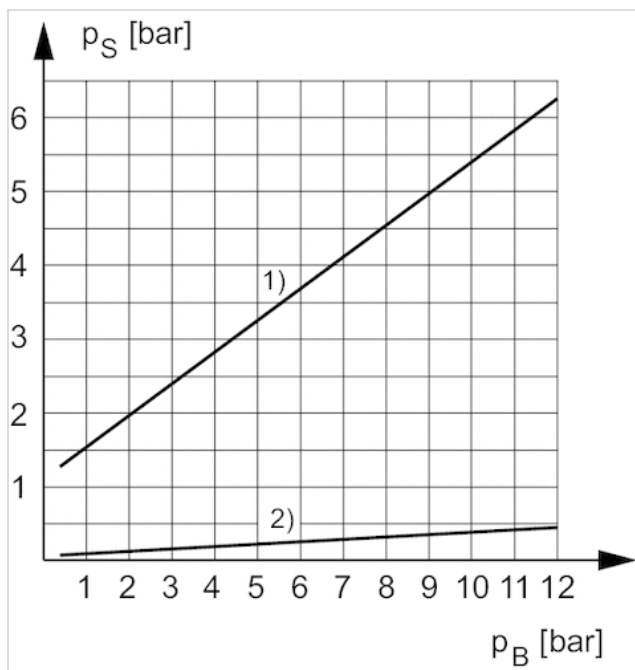
p_S = control pressure
 p_B = Working pressure
 1) Opening pressure
 2) Closing pressure

control pressure characteristic, G 3/8, With manual override



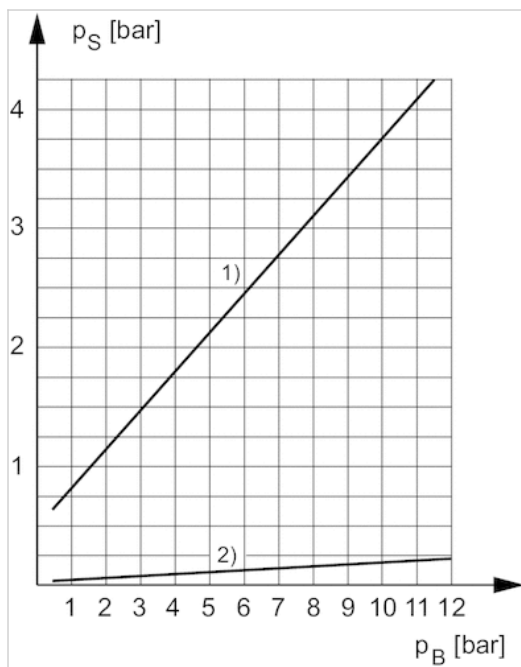
p_S = control pressure
 p_B = Working pressure
 1) Opening pressure
 2) Closing pressure

control pressure characteristic, G 1/2



p_S = control pressure
 p_B = Working pressure
 1) Opening pressure
 2) Closing pressure

control pressure characteristic, G 3/4, G 1



p_S = control pressure
 p_B = Working pressure
 1) Opening pressure
 2) Closing pressure