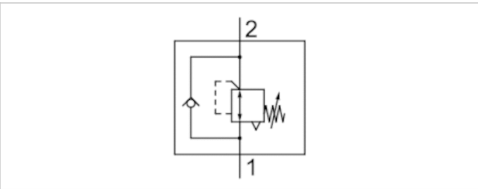


# Pressure regulator

- Qn 1►2 = 400-750 l/min
- Internal thread / External thread
- Poppet valve



Type	Poppet valve
Working pressure min./max.	1 ... 16 bar
Adjustment range min./max.	1 ... 8 bar
Ambient temperature min./max.	-10 ... 70 °C
Medium temperature min./max.	-10 ... 70 °C
Medium	Compressed air
Weight	See table below

## Technical data

Part No.	Compressed air connection Input	Compressed air connection type Input	Compressed air connection Output
0821302078	G 1/8	Internal thread	G 1/8
0821302080	G 1/4	Internal thread	G 1/4
0821302081	G 3/8	Internal thread	G 3/8
0821302082	G 1/2	Internal thread	G 1/2
0821302079	G 1/8	Internal thread	G 1/4

Part No.	Compressed air connection type Output	Flow	Weight	Fig.
		Qn 1►2		
0821302078	External thread	400 l/min	0,08 kg	Fig. 1
0821302080	External thread	600 l/min	0,11 kg	Fig. 1
0821302081	External thread	750 l/min	0,075 kg	Fig. 1
0821302082	External thread	750 l/min	0,075 kg	Fig. 1
0821302079	External thread	400 l/min	0,11 kg	Fig. 2

Nominal flow Qn at 6 bar and Δp = 1 bar

## Technical information

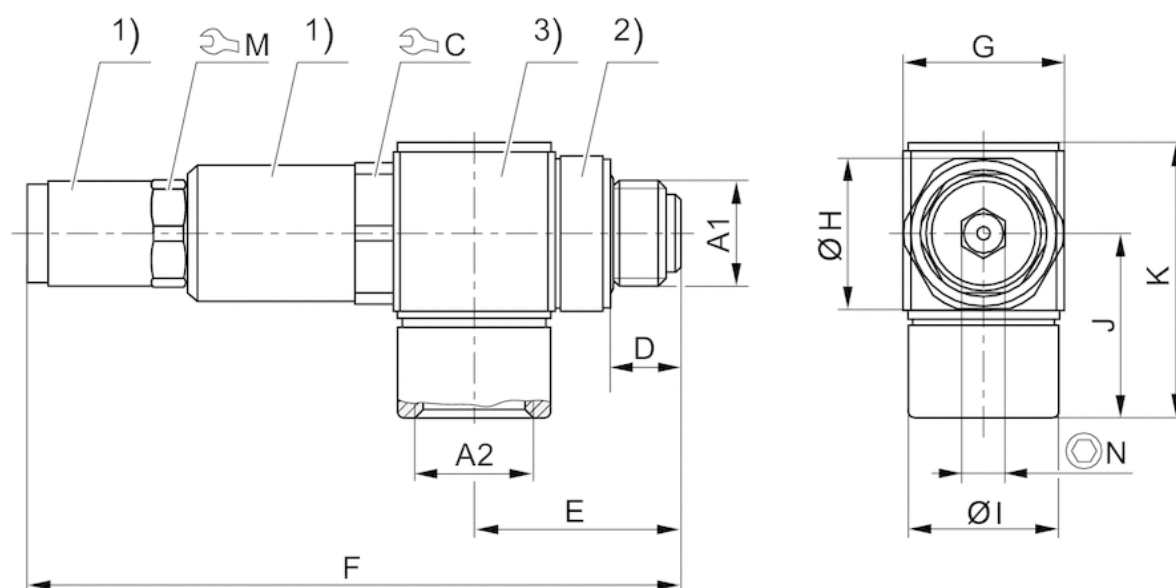
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

## Technical information

Material	
Housing	Brass Polyamide Aluminum, galvanized black anodized
Seals	Acrylonitrile butadiene rubber

## Dimensions

Fig. 1



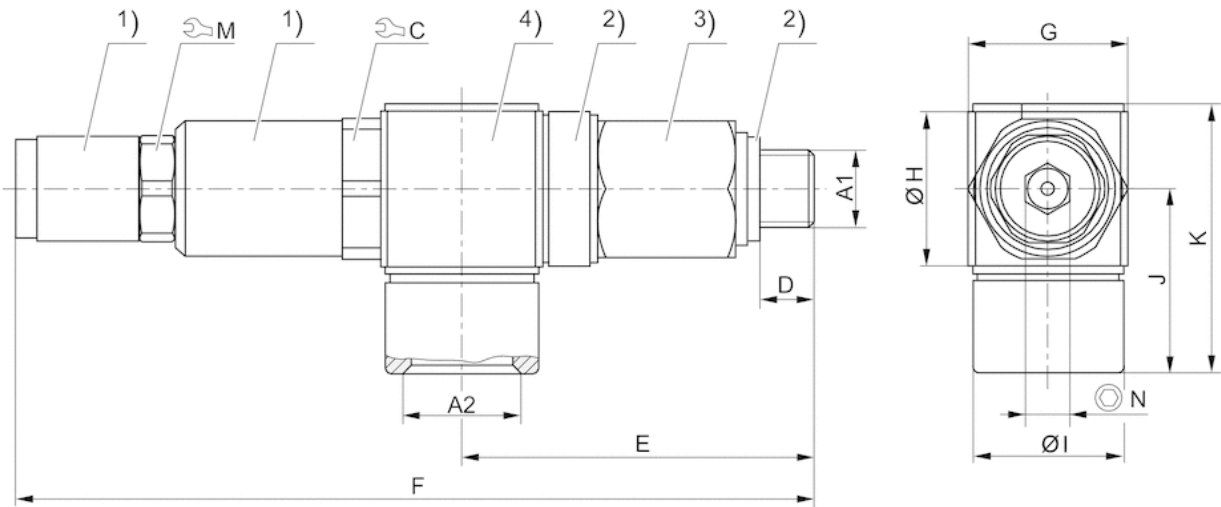
- 1) galvanized brass
- 2) polyamide
- 3) anodized black aluminum

Dimensions

Part No.	A1	A2	C	D	E	F	G	H	I	J	K	M	N
0821302078	G 1/8	G 1/8	17	6.3	19.8	70.8	15	15	13	18.5	26.7	13	5
0821302080	G 1/4	G 1/4	17	9.5	25.8	78.8	19	19	18	22.5	32.9	13	5
0821302081	G 3/8	G 3/8	22	9.5	29	85.2	23	23	23	28.5	41	17	6
0821302082	G 1/2	G 1/2	27	11.5	34	86.2	28	28	25	31	46.3	17	6

Dimensions

Fig. 2



- 1) galvanized brass
- 2) polyamide
- 3) galvanized brass
- 4) anodized black aluminum

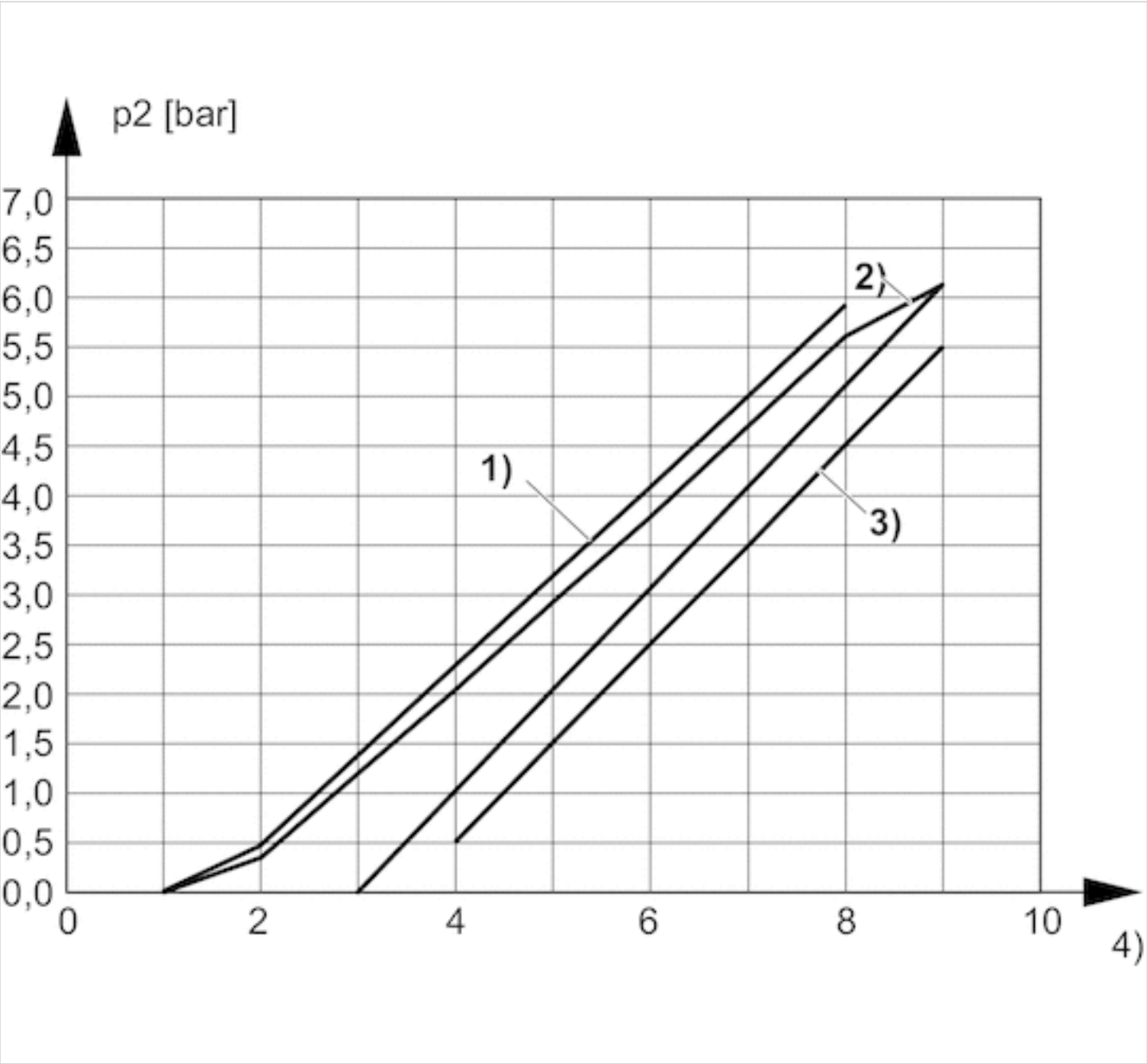
A1 = input  
A2 = output

Dimensions

Part No.	A1	A2	C	D	E	F	G	H	I	J	K	M	N
0821302079	G 1/8	G 1/4	17	6.5	42.3	95.3	19	19	18	22.5	32.9	13	6

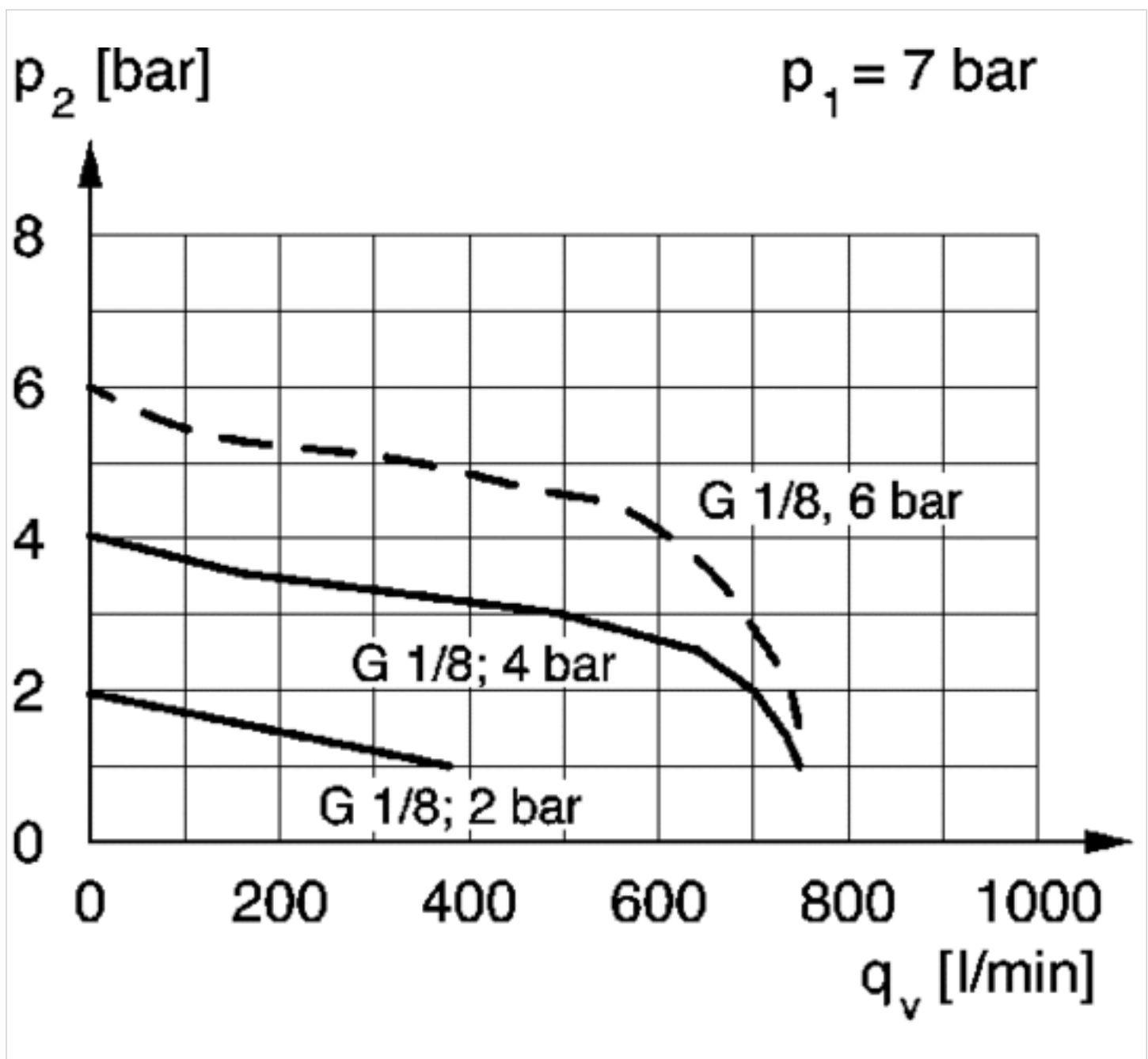
Diagrams

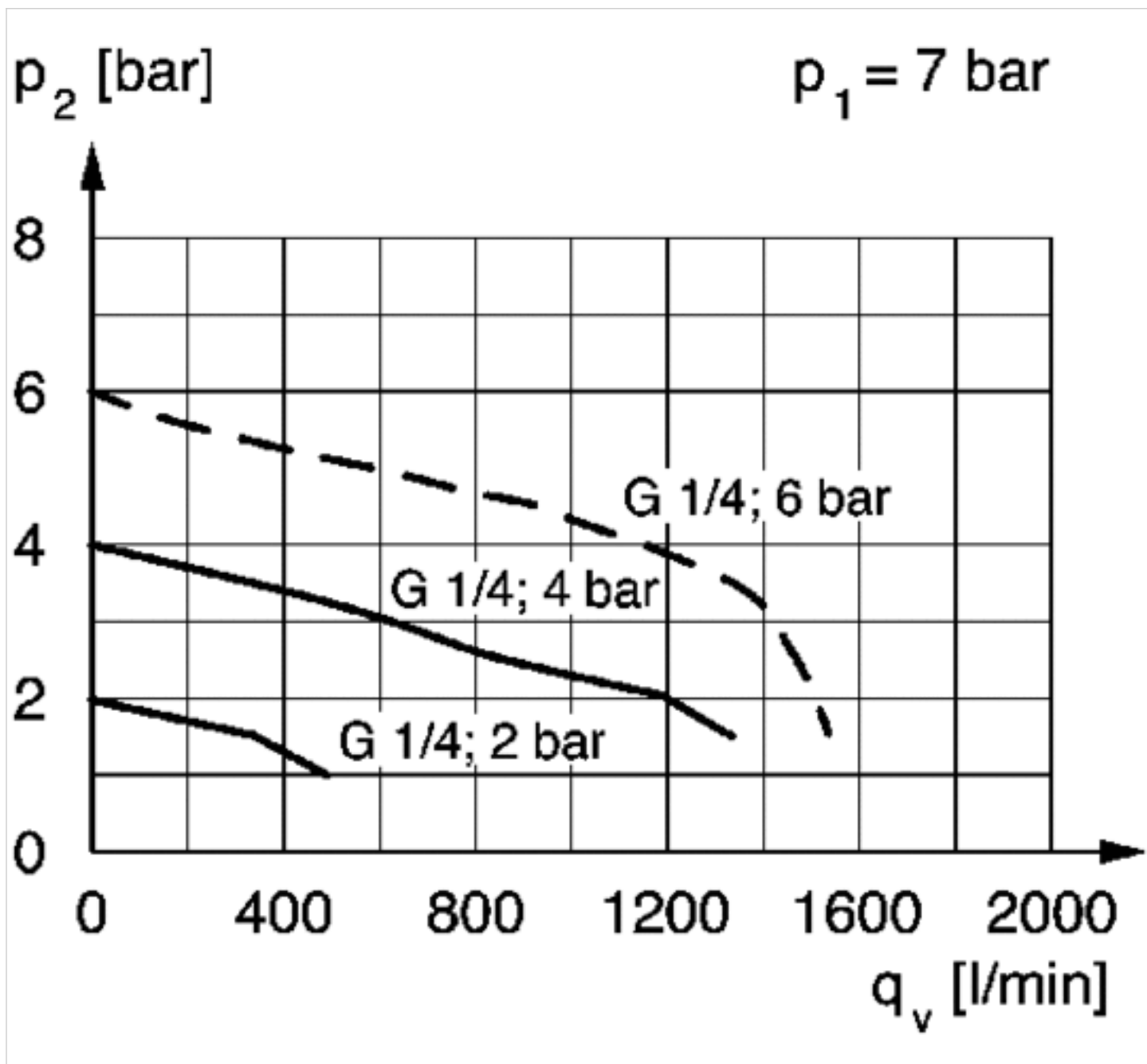
Hysteresis

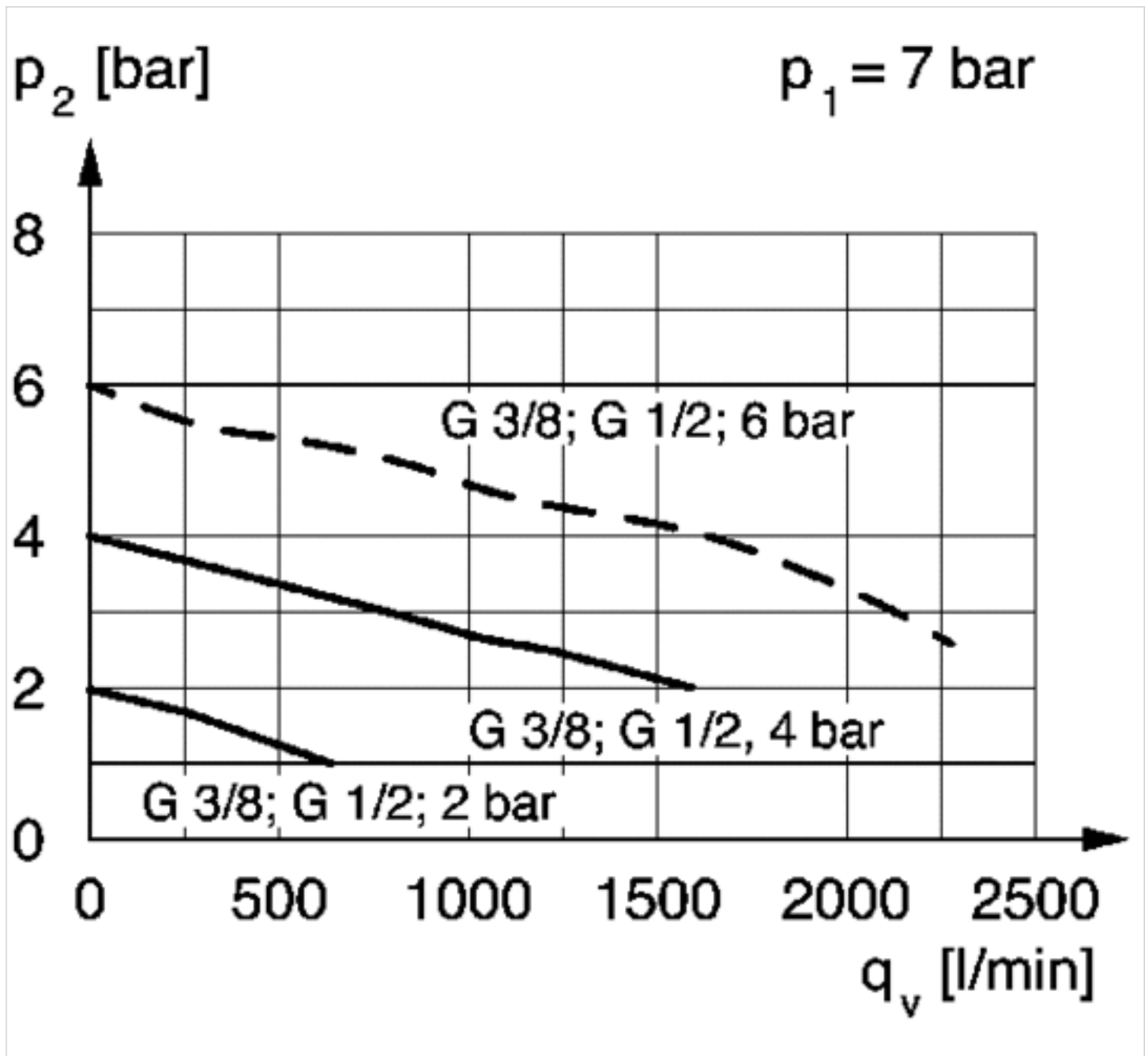


- 1) Overfill hysteresis
- 2) Control hysteresis
- 3) Refill hysteresis
- 4) Adjustment screw rotations

Pressure characteristics curve (flow rate from 1 to 2)



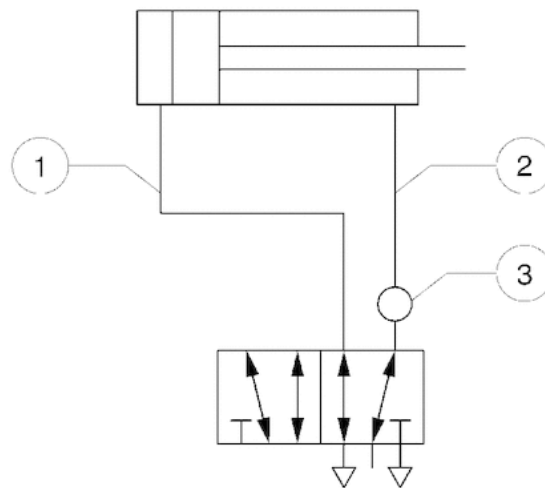




$p_1$  = working pressure,  $p_2$  = secondary pressure,  $q_v$  = nominal flow

## Circuit diagram

### Application example



1) e.g. forward stroke with max. pressure

2) return stroke with reduced pressure

3) installation point on directional control valve

At low tightening torque, the sealing ring enables the banjo union to swivel through 360°. Further tightening locks the banjo union into position.

Adjust pressure via adjustment screw with hexagon socket. Lock using counter nuts.



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