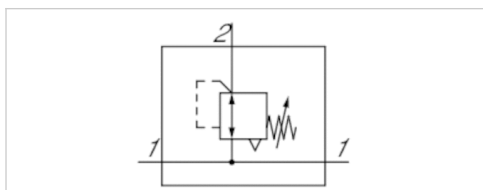


# Pressure regulator, Series NL2-RGS-...-DS

- G 1/4
- $Q_n = 2000 \text{ l/min}$
- Standard pressure regulator
- Activation Mechanical
- with continuous pressure supply
- suitable for ATEX



## Parts

Mounting orientation

Certificates

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Regulator type

Regulator function

Adjustment range min./max.

Pressure supply

Activation

Weight

Pressure regulator with continuous pressure supply

Any

suitable for ATEX

0,5 ... 16 bar

-10 ... 60 °C

-10 ... 60 °C

Compressed air Neutral gases

Diaphragm-type pressure regulator Can be assembled into blocks

with relieving air exhaust

See table below

double

Mechanical

0,325 kg

## Technical data

Part No.	Port	Flow	Adjustment range min./max.	Max. pressure gauge Ø in blocked state
		$Q_n$		
0821302411	G 1/4	2000 l/min	0,1 ... 3 bar	40 mm
0821302409	G 1/4	2000 l/min	0,2 ... 6 bar	40 mm
0821302408	G 1/4	2000 l/min	0,5 ... 10 bar	40 mm

Nominal flow  $Q_n$  with secondary pressure  $p_2 = 6 \text{ bar}$  at  $\Delta p = 1 \text{ bar}$

Suitable for use in Ex zones 1, 2, 21, 22.

## Technical information

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

Suitable for use in Ex zones 1, 2, 21, 22.

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

Relieving exhaust ( $\leq 0.3 \text{ bar}$  over set pressure).

With rear exhaust ( $> 3 \text{ bar}$  ).

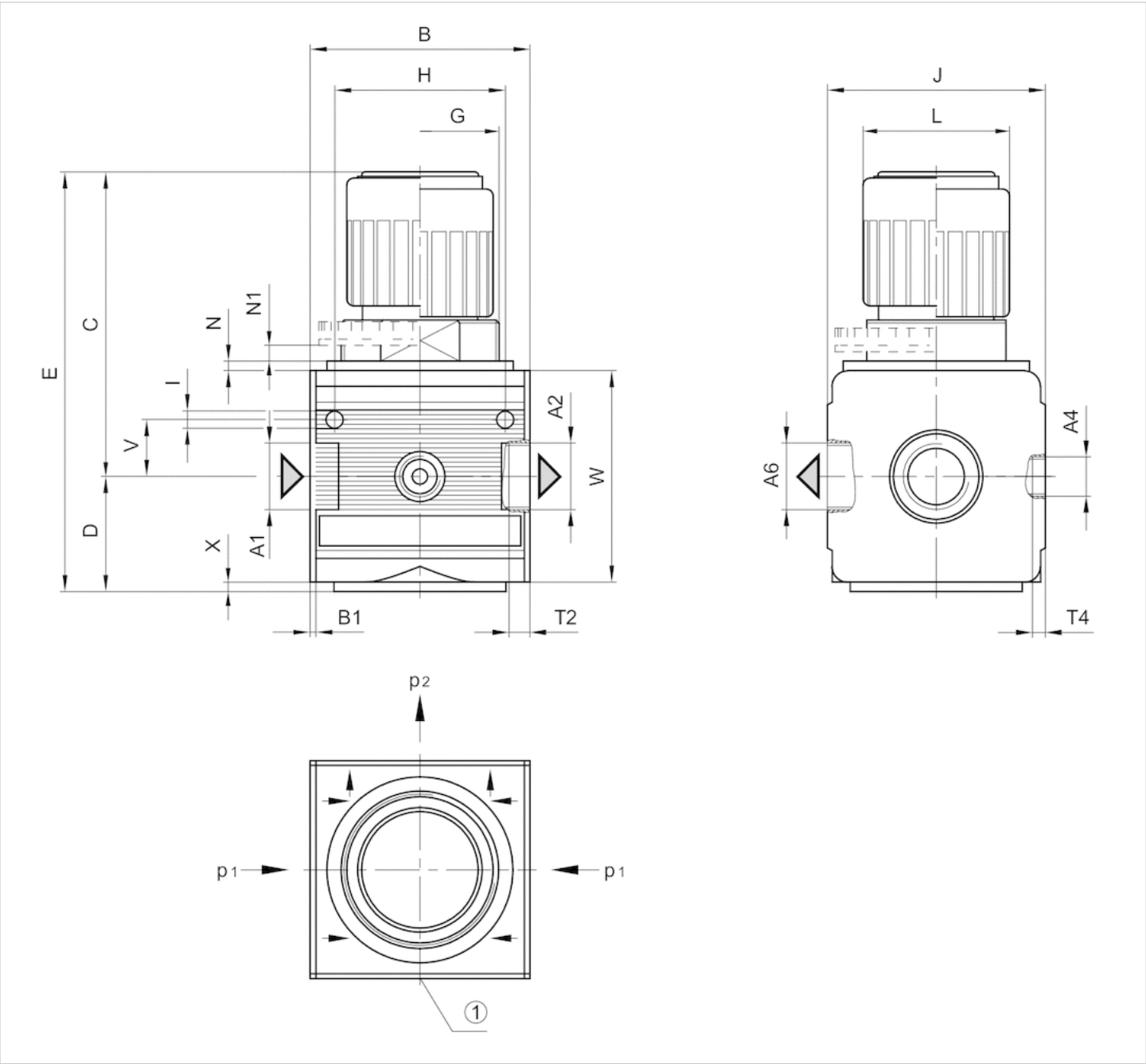
Recommended pre-filtering 5  $\mu\text{m}$

Technical information

Material	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



A1 = input  
 A2 = output  
 A4 = pressure gauge connection

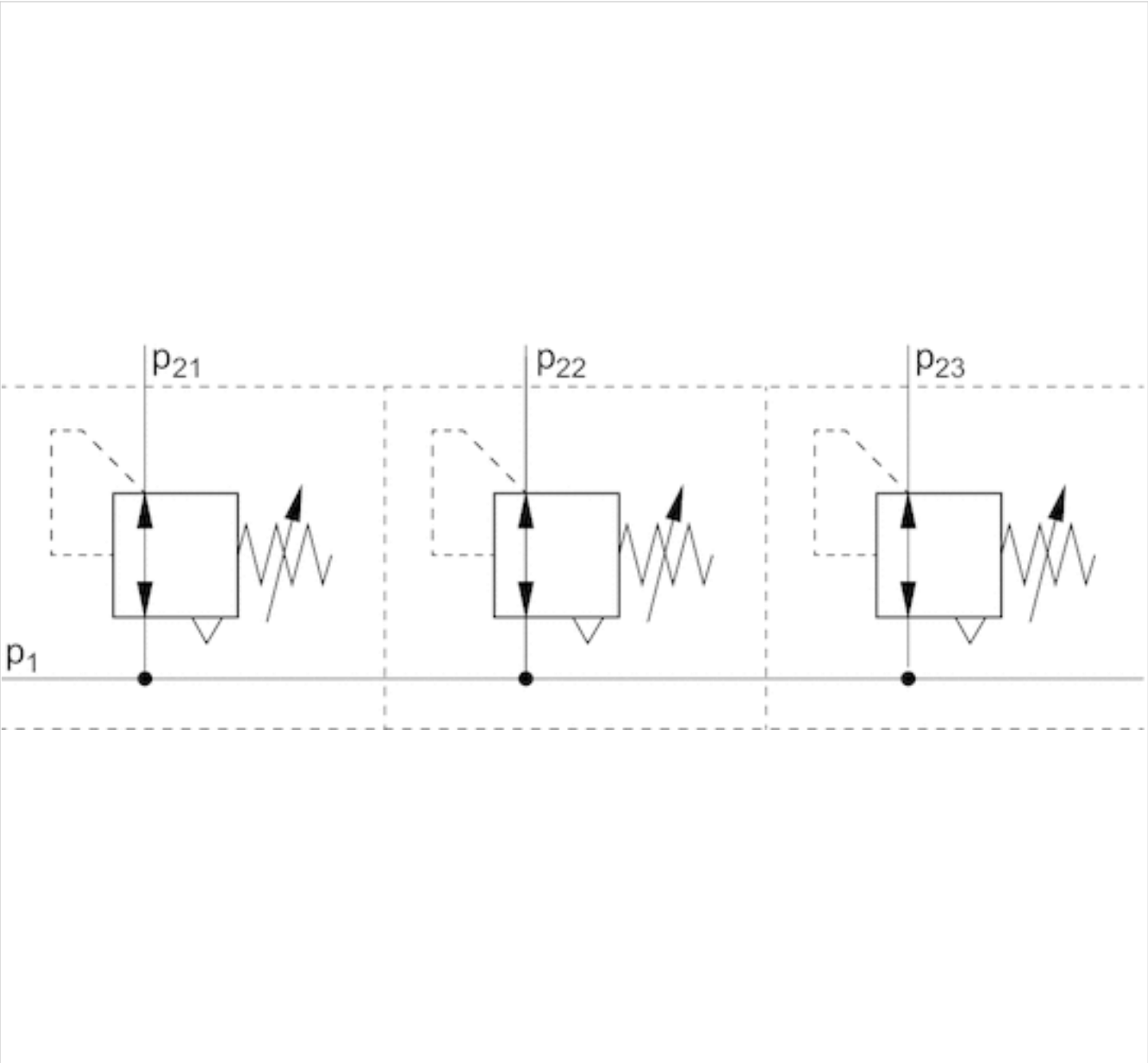
A6 = ventilation port  
1) pressure gauge connection  
p1 = working pressure  
p2 = secondary pressure

Dimensions in mm

A1	A2	A4	A6	B	B1	C	D	E	G	H	I	J	L	N	N1	T2	T4	V	W	X
G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	71	27	98	M30x1,5	36	4.4	47	28	3	3.5	9.5	7	12.3	52	1

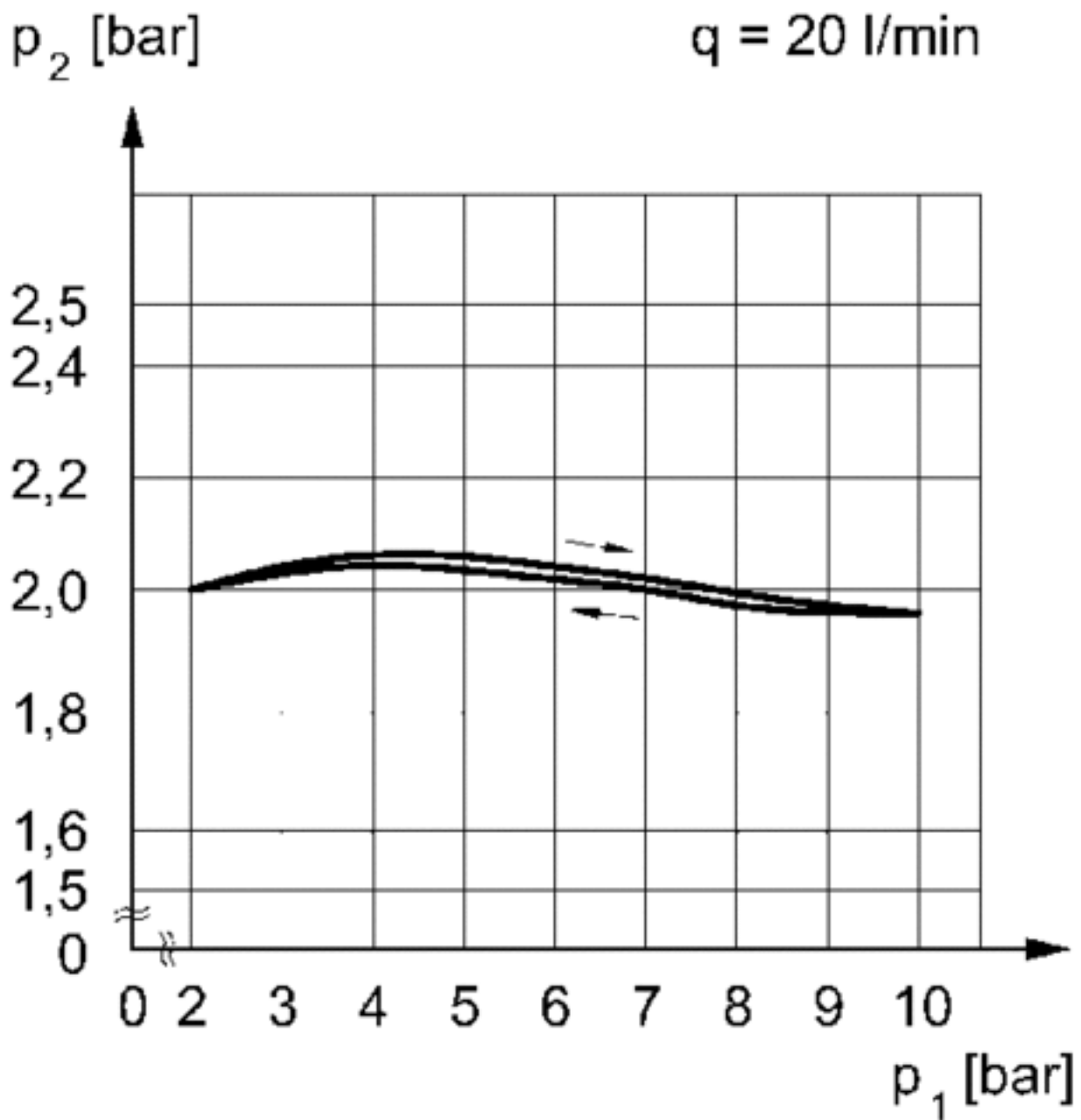
Diagrams

Application example



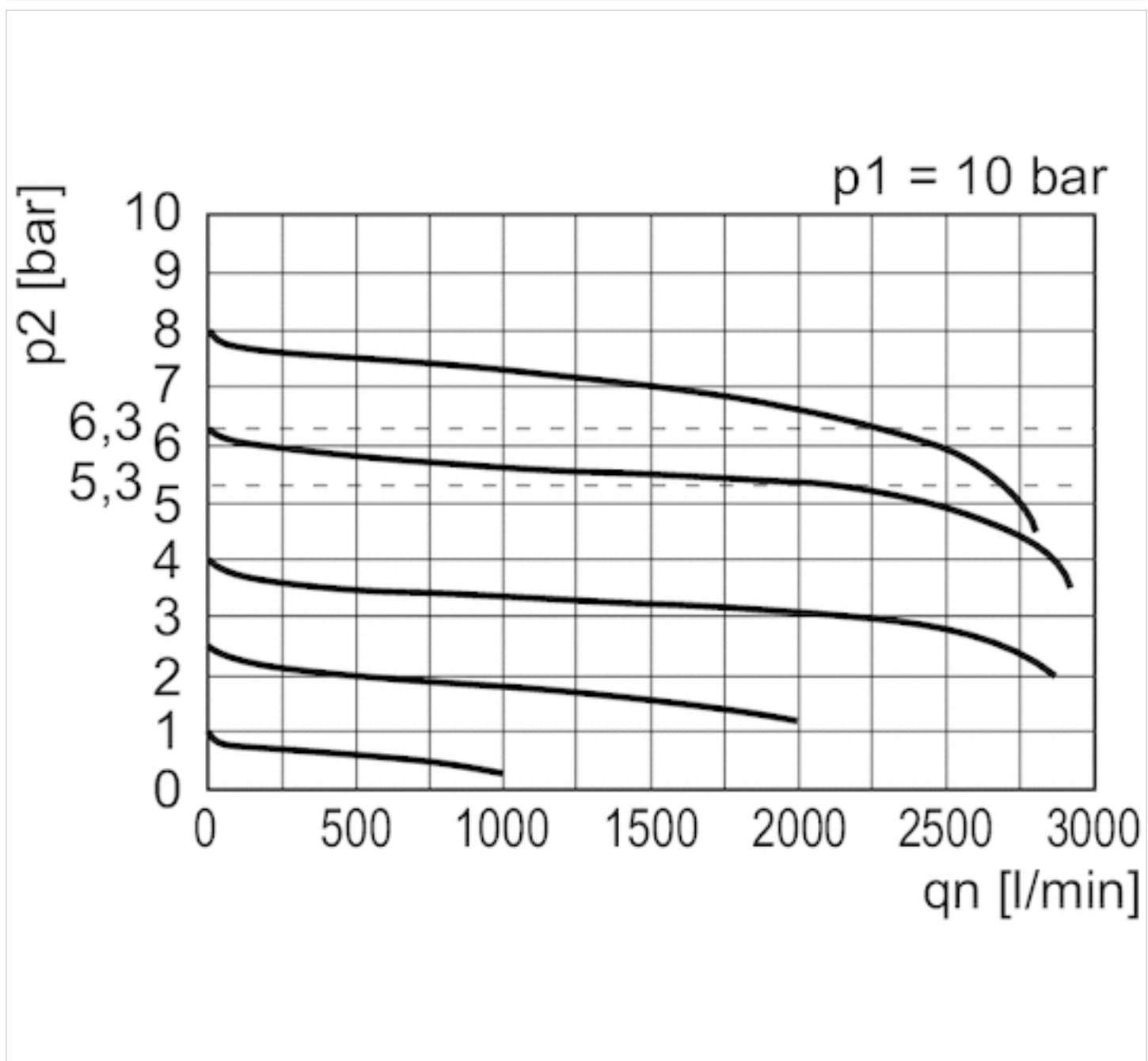
p1 = working pressure

## Pressure characteristics curve



$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $q$  = flow rate

## Flow rate characteristic (setting range p2: 0.5 - 10 bar)



p1 = Working pressure  
p2 = Secondary pressure  
qn = Nominal flow

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2020-12



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