

# Pressure regulator, Series AS2-RGS

- G 1/4 G 3/8
- Qn = 2700 l/min
- Standard pressure regulator
- Activation pneumatically



|                               |                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------|
| Parts                         | Pressure regulator                                                                        |
| Mounting orientation          | Any                                                                                       |
| Working pressure min./max.    | 0 ... 16 bar                                                                              |
| Ambient temperature min./max. | 0 ... 50 °C                                                                               |
| Medium temperature min./max.  | 0 ... 50 °C                                                                               |
| Medium                        | Compressed air Neutral gases                                                              |
| Regulator type                | Diaphragm-type pressure regulator Can be assembled into blocks with relieving air exhaust |
| Regulator function            |                                                                                           |
| Adjustment range min./max.    | 0,5 ... 16 bar                                                                            |
| Pressure supply               | single                                                                                    |
| Activation                    | pneumatically                                                                             |
| Weight                        | 0,314 kg                                                                                  |

## Technical data

| Part No.   | Port  | Flow       | Fig.   |
|------------|-------|------------|--------|
|            |       | Qn         |        |
| R412006094 | G 1/4 | 2700 l/min | Fig. 1 |
| R412006095 | G 3/8 | 2700 l/min | Fig. 2 |

Control pressure: see diagram, Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar  
Order pressure gauge separately

## Technical information

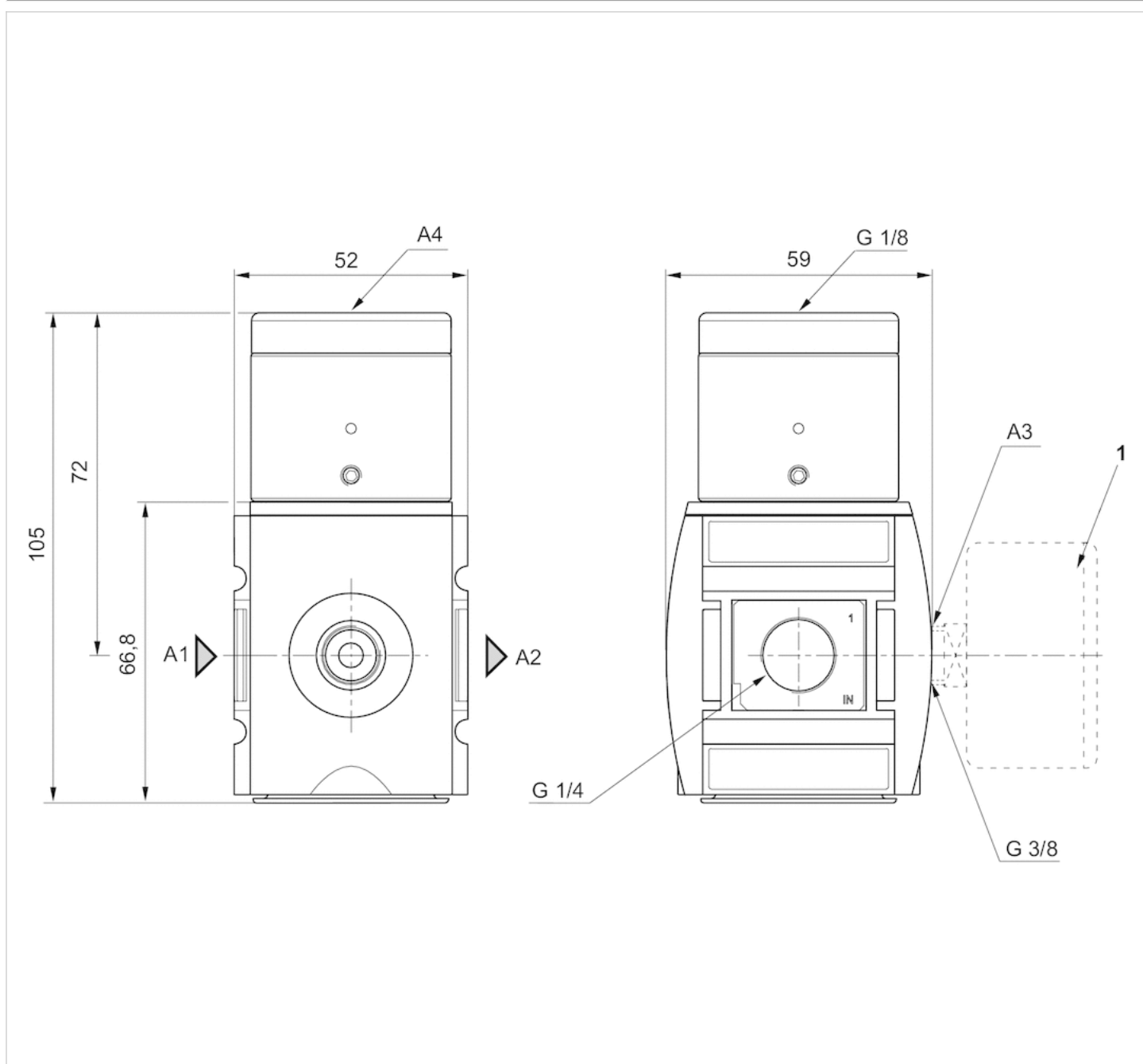
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .  
The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).  
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.  
Relieving exhaust (≤ 0.3 bar over set pressure).  
With rear exhaust (> 3 bar ).

## Technical information

| Material         |                                 |
|------------------|---------------------------------|
| Housing          | Polyamide                       |
| Front plate      | Acrylonitrile butadiene styrene |
| Seals            | Acrylonitrile butadiene rubber  |
| Threaded bushing | Die cast zinc                   |

## Dimensions

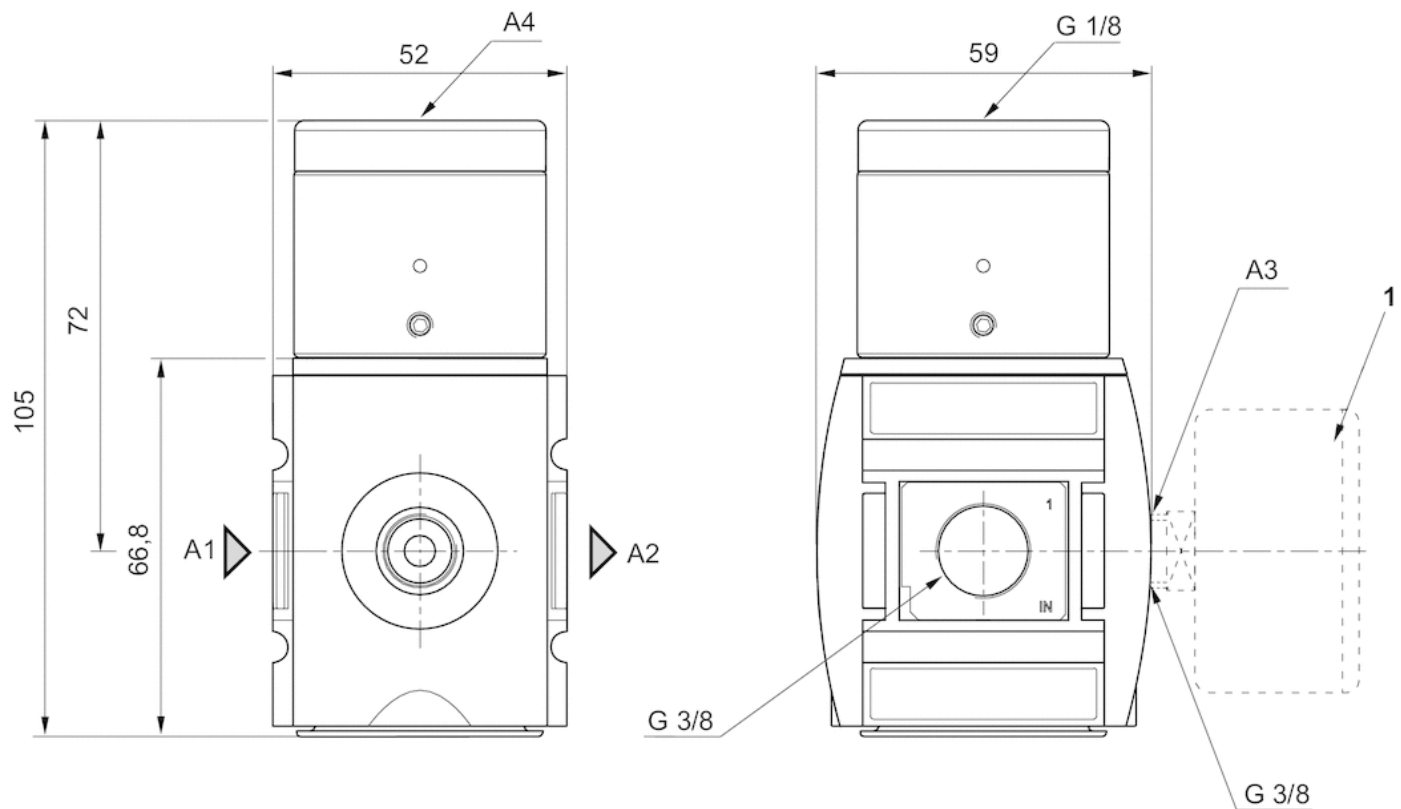
Dimensions in mm, Fig. 1



A1 = input  
A2 = output

A3 = pressure gauge connection  
 A4 = control pressure connection  
 1) Order pressure gauge separately

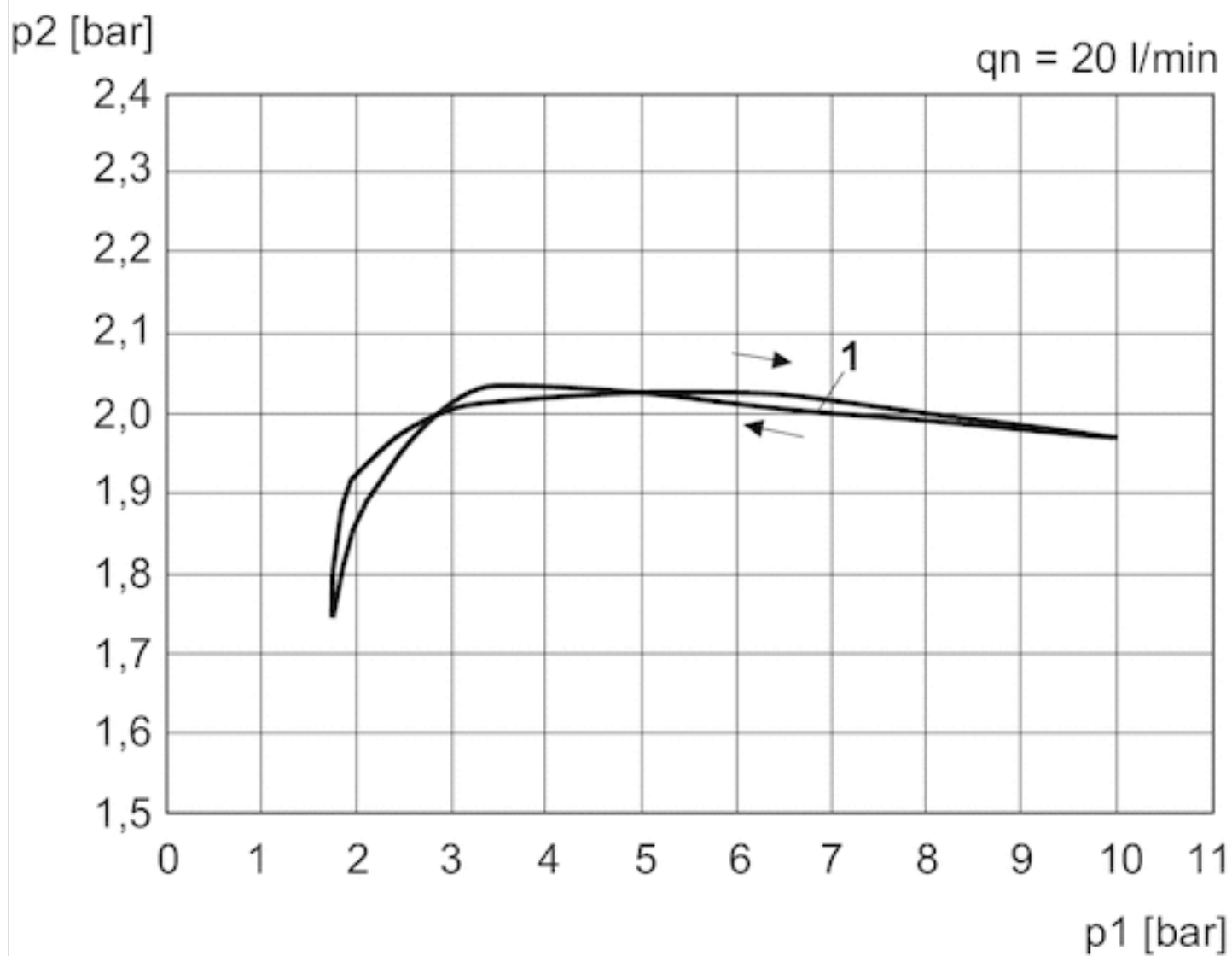
### Dimensions in mm, Fig. 2



A1 = input  
 A2 = output  
 A3 = pressure gauge connection  
 A4 = control pressure connection  
 1) Order pressure gauge separately

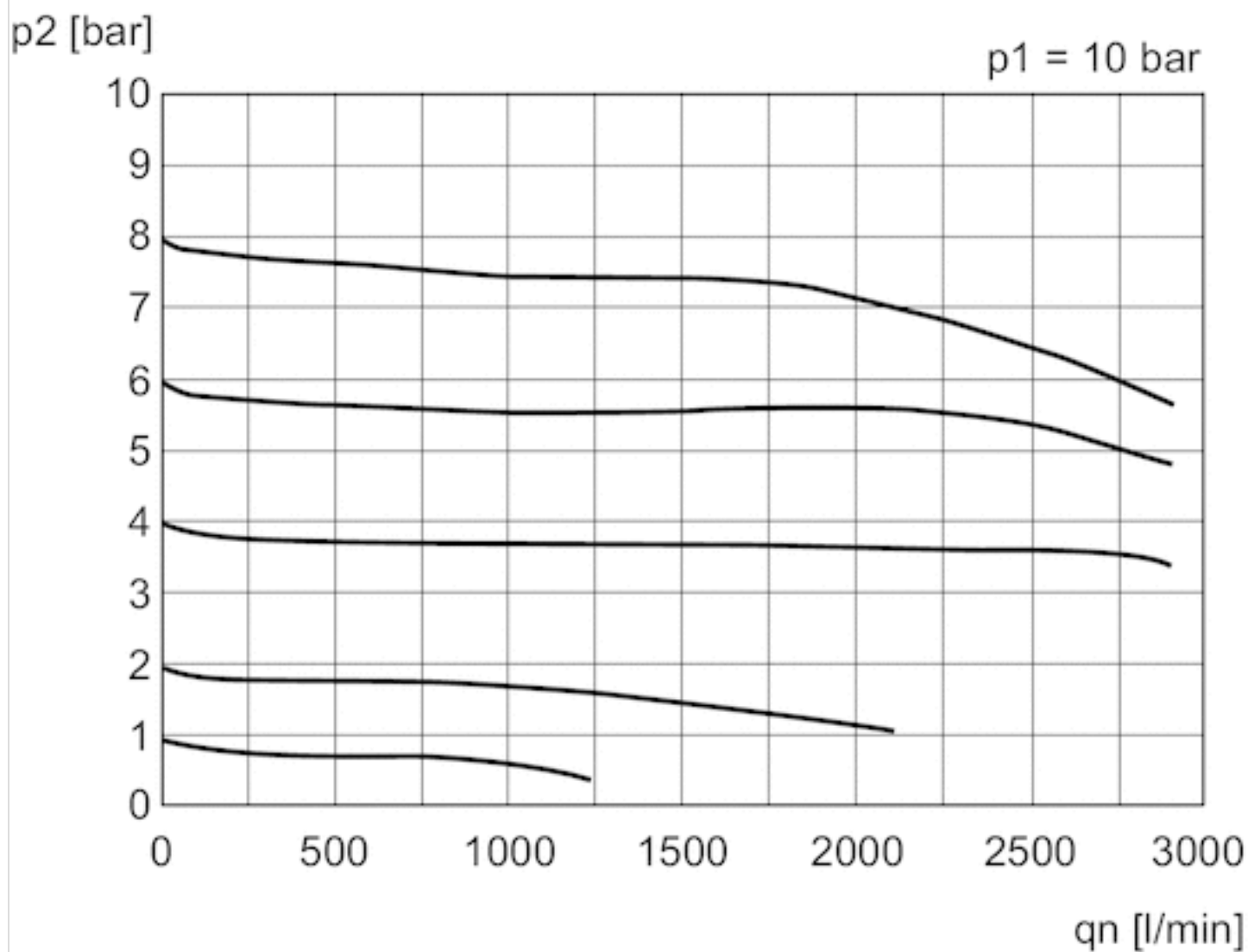
## Diagrams

## Pressure characteristics curve



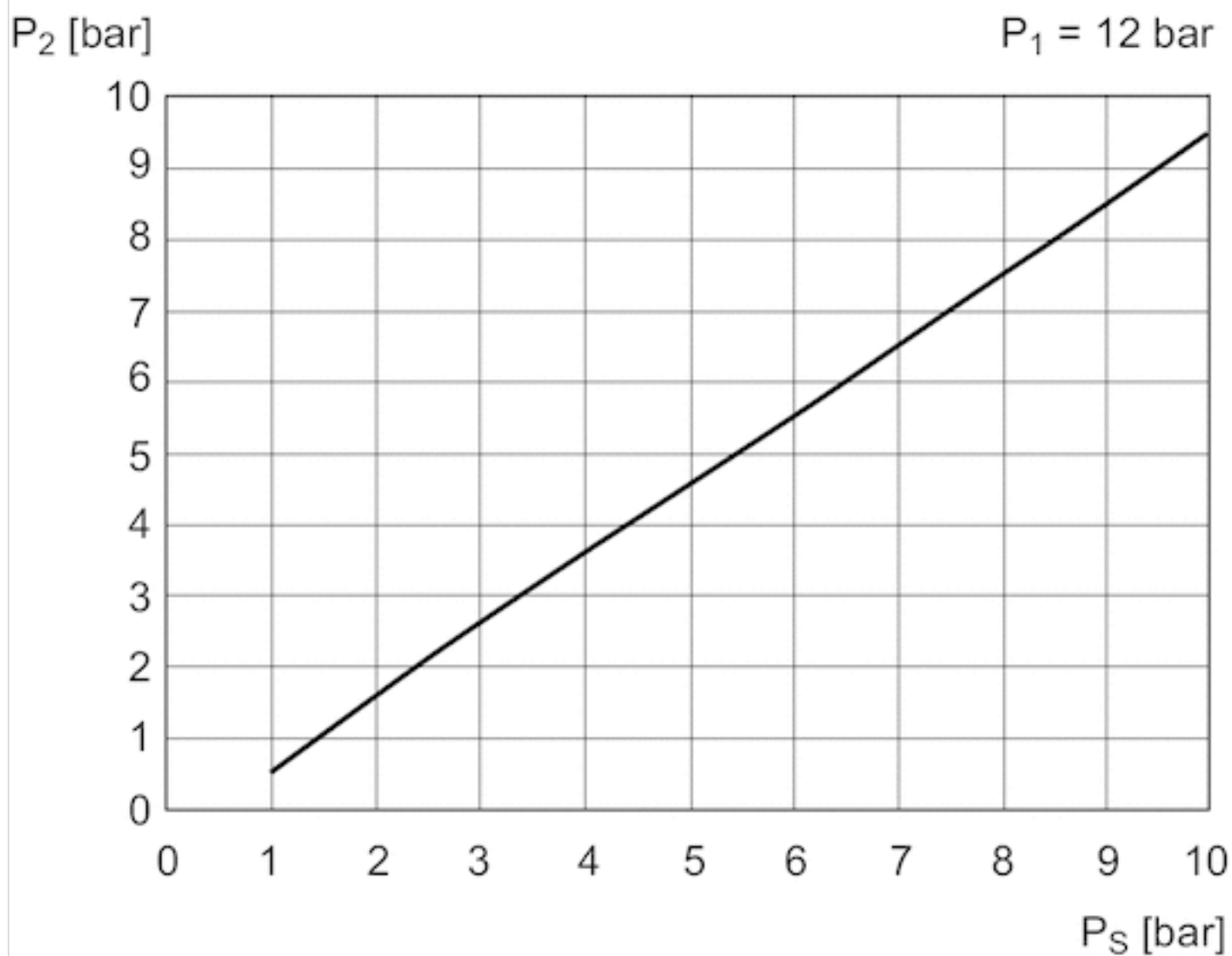
$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $q_n$  = Nominal flow  
1) = Starting point

## Flow rate characteristic (p2: 0,5 - 8 bar)



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

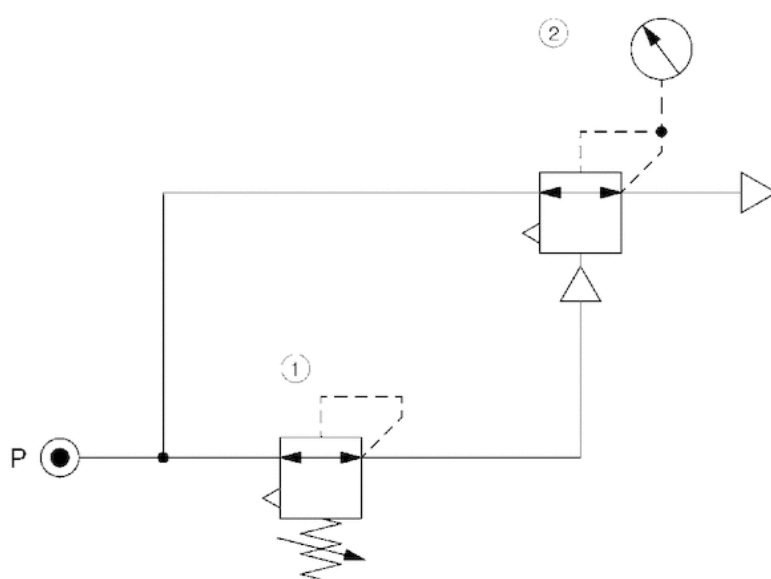
## control pressure characteristic



$p_1$  = working pressure  
 $p_2$  = secondary pressure  
 $P_S$  = control pressure

## Circuit diagram

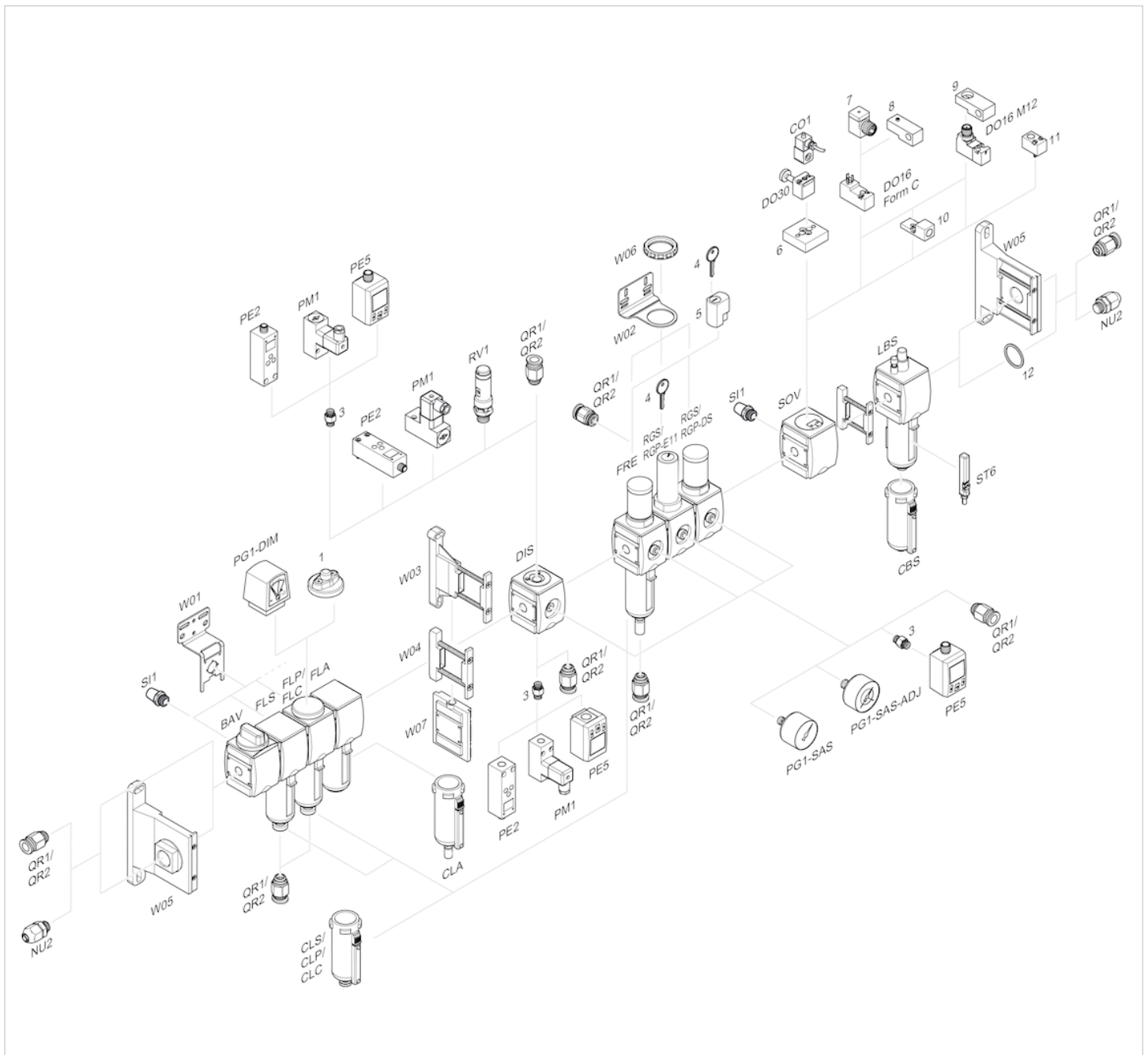
### Application example



1) precision pressure regulator

2) pressure regulator valve, pneumatically operated

## Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

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