

für liquids und gases bis 80 / 130 °C



## Technical Data

Connection	G 1/4 DN 15 (DIN 2635)
Nominal Pressure	Inlet PN 315 Outlet PN 2.5 - 25
Inlet Pressure	up to 250 bar
Outlet Pressure	0.3 - 20 bar in 3 setting ranges
$K_{VS}$ -value	0.15 m <sup>3</sup> /h
Tightness	acc. to VDI/VDE-guideline 2174 (leakage rate $\leq 0.05\%$ of $K_{VS}$ -value)

## Description

Medium-controlled pressure reducers are simple control valves offering accurate control while being easy to install and maintain. They control the pressure downstream of the valve without requiring pneumatic or electrical control elements.

The DM 506 pressure reducing valve is a diaphragm-controlled spring-loaded proportional control valve for small volumes and high inlet pressures.

This pressure reducer is manufactured from deep-drawn stainless steel featuring excellent corrosion resistance. The valve cone is fitted with a soft seal.

The spring module comprising bonnet, spring, adjusting screw, diaphragm and internal components, is connected to the valve body only by means of a clamp ring and two bolts. Changing the diaphragm or the complete spring assembly for a different control pressure range is extremely simple and does not call for special tools. The same applies to servicing and maintenance.

The outlet pressure to be controlled is balanced across the diaphragm by the force of the valve spring (set pressure). As the outlet pressure rises above the pressure set using the adjusting screw, the valve cone moves towards the seat and the volume of medium is reduced. As the outlet pressure drops the valve control orifice increases; when the pipeline is depressurised the valve is open. Rotating the adjusting screw clockwise increases the outlet pressure.

## STANDARD EQUIPMENT

- All stainless steel construction
- Non increasing adjusting screw
- Quick-release body clamp ring

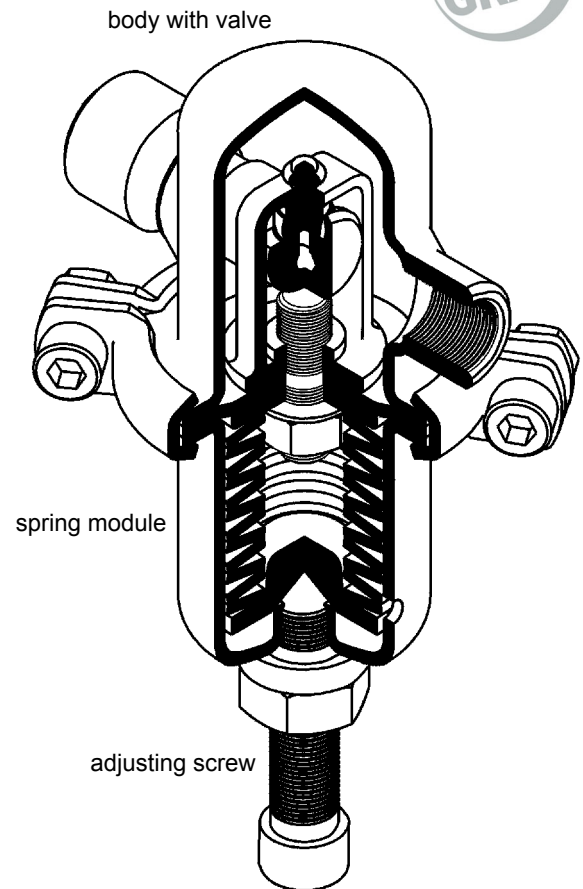
## OPTIONS

- Pressure gauge connection
- For toxic or hazardous media: sealed bonnet complete with leakage line connection (incl. sealed adjusting screw).  
Must be installed with a leakage line capable of draining leaking medium safely and without pressure
- Various diaphragm and seal materials suitable for your medium
- Special connections: Aseptic, ANSI or DIN flanges, welding spigots; other connections on request
- Special versions on request

Operating instructions, Know How and Safety instructions must be observed.

The pressure has always been indicated as overpressure.

We reserve the right to alter technical specifications without notice.



Setting Ranges, $K_{VS}$ -Values, Permissible Reduction Ratio (max. $p_1/p_2$ )				
$K_{VS}$ -value	m <sup>3</sup> /h	0.15		
outlet pressure	bar	0.3 - 1.5	1 - 6	5 - 20
nom. pressure	PN	315 / 2.5	315 / 10	315 / 25
ratio $P_1/P_2$		20		

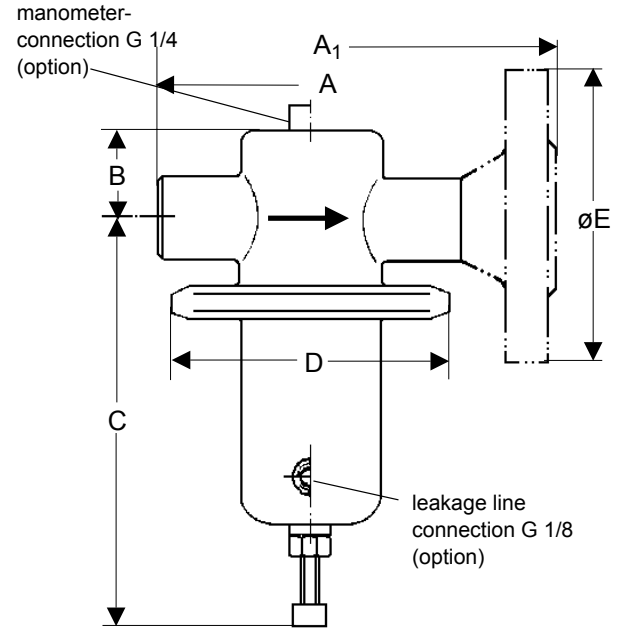
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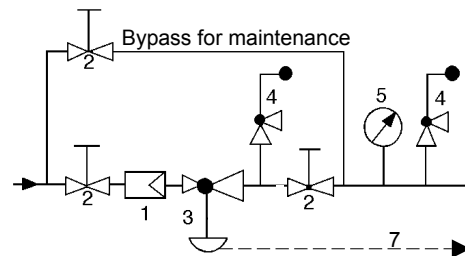
Materials		
Temperature	80 °C	130 °C
Body		
Bonnet	CrNiMo-steel	CrNiMo-steel
Internals		
Adjusting Screw		
Spring	CrNi-steel	CrNi-steel
Valve Seal	EU	FPM optional FFKM, EPDM, PTFE
Diaphragm	NBR	FPM optional EPDM
Protection Foil	PTFE (option)	PTFE (option)

Dimensions [mm]		
size	nominal diameter	
	G 1/4	DN 15
A/A <sub>1</sub>	75	130
B	28	28
C	~105	~105
D	80	80
øE	-	95

Weights [kg]		
nominal diameter		
	G 1/4	DN 15
	0.75	2.5



### Recommended Installation



- 1 Strainer
- 2 Shutoff Valves
- 3 Pressure Reducer
- 4 Safety Valve
- 5 Pressure Gauge
- 7 Leakage Line G 1/8 (option)

Special designs on request.

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