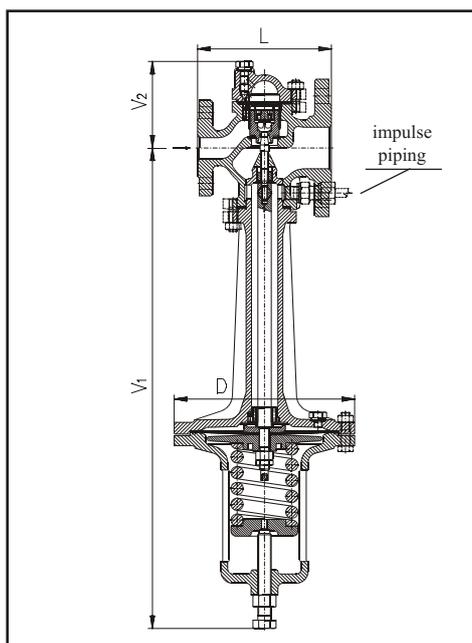


# STEAM PRESSURE REDUCING VALVE



## APPLICATION

The pressure regulator or controller (reducing valve) decreases the inlet pressure of a fed medium on a required outlet pressure and keeps it on a set point. It serves to the regulation of the pressure of steam. The regulators or controllers are reducing valves which are not suitable for a tight piping closing. Application:

- Steam distributions

## TYPES / DN / PN / TEMPERATURES / EXECUTION

R23 117 525 DN 25/50, 50/100, 80/150 PN 25 0 °C to 400 °C

It is produced in the ST execution.

## FUNCTION

The valve with a straight control that decreases the inlet pressure on the required outlet pressure. The outlet pressure is set and kept by a spring. Every spring corresponds to a certain pressure span. At adjusting on another pressure span it is necessary to change the spring according to a producer regulation.

The reduced pressure acts on the upper diaphragm side and the spring force acts on a lower side. The equilibrium is failed by a reduced pressure drop, the cone coupled with the diaphragm is lifted and the pressure begins to rise till to the set point. At a rise of the reduced pressure the procedure is reverse. The space over the diaphragm is interconnected with the outlet piping by the impulse pipe.

## INSTALLATION

The controllers or reducing valves are mounted in places with a pressure rest flowing. They are installed on principle into the horizontal pipeline with the diaphragm down there (see fig.). For the correct installment of the regulator or the reducing valve into the pipeline and for the correct connection of an impulse piping it is necessary to follow the producer regulation for the installation, attendance and maintenance PN 8 670 107; the filter for trapping impurities must be mounted before the regulator.

## ADMISSIBLE PRESSURES AND TEMPERATURES

DN	Temperature [°C]					
	120	200	250	300	350	400
	The highest working overpressure [bar]					
25÷80	25	22	20	17	16	13

DN (Inlet/Outlet)	25/50	50/100	80/150
Outlet overpressure span [bar]	0,1 – 8	0,1 - 6	0,1 - 4

Minimum difference pressure:  $p_{inlet} (abs) / p_{outlet} (abs) \geq 1,2$

## MATERIAL AND CONNECTION

	R23 117 525
Body, lid	1.0619+N
Cover, adapter	GG25
Body seat	STAINLESS STEEL
Function parts	STAINLESS STEEL
Diaphragm	DIAPHRAGM CLOTH
Packing	ASBESTOS-FREE
Connection	DIN
Constructional lengths (dimensions)	Dle EN 558-1

## DIMENSION TABLE

	PN 25		
	DN 25/50	50/100	80/150
D [mm]	215	260	335
L [mm]	160	230	310
V <sub>1</sub> [mm]	615	735	915
V <sub>2</sub> [mm]	100	125	160
m [kg]	25	48	90
Flow coefficient Kvs [m <sup>3</sup> /h]	15	26	55

Note: Dimensions of connecting flanges see pages 114, 115.