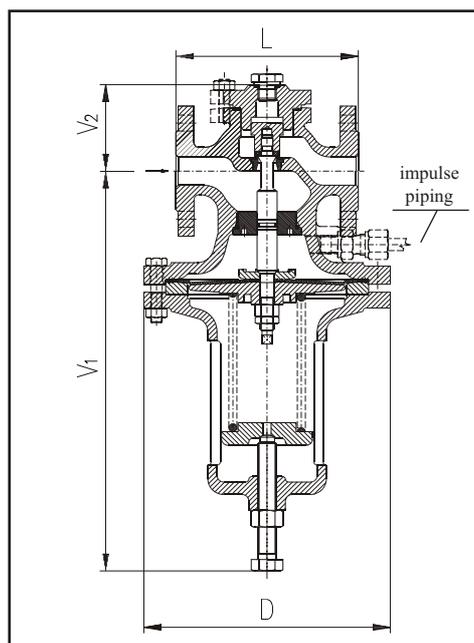


# WATER, AIR PRESSURE REDUCING VALVE



## 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 water, air, non-aggressive gases and non-aggressive liquids. The regulators or controllers are reducing valves which are not suitable for a tight piping closing.

Application:

- Water system
- Air conditioning

## TYPES / DN / PN / TEMPERATURES / EXECUTION

R12 117 616 DN 25, 40÷100 PN16 0 °C to 90 °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 an upper diaphragm side and a spring force acts on a lower side. An equilibrium is failed by a reduced pressure drop, the cone coupled with the diaphragm is lifted and the pressure begins to rise till the set point. At a rise of the reduced pressure a procedure is reverse. The space over the diaphragm is interconnected with the outlet piping by an 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 a correct installment of the regulator or the reducing valve into the pipeline and for a correct connection of an impulse piping it is necessary to follow a 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	25	40	50	65	80	100
Inlet overpressure span [bar]	3 – 13					
Outlet overpressure span [bar]	1 – 10					
Working temperature [°C]	0 to 90					
Minimum pressure gradient [bar]	2					

## MATERIAL AND CONNECTION

	R12 117 616
Body, cover, lid	GG25
Body seat	STAINLESS STEEL
Function parts	STAINLESS STEEL
Diaphragm	DIAPHRAGM CLOTH
Packing	ASBESTOS-FREE, RUBBER
Connection	DIN
Constructional lengths (dimensions)	According to EN 558-1

## DIMENSION TABLE

PN	16					
	DN 25	40	50	65	80	100
D [mm]	216	216	216	216	260	260
L [mm]	160	200	230	290	310	350
V <sub>1</sub> [mm]	340	370	380	390	435	435
V <sub>2</sub> [mm]	75	100	100	100	140	140
m [kg]	14	20	22	25	40	46
Flow coefficient Kvs [m <sup>3</sup> /h]	2,54	6,5	10,18	17,67	25,45	41

Note: Connecting flange dimensions see pages 114, 115.