

Pressure Reducing Valve Type V82



Product description

The pressure reducing Valve Type V82 reduces the system pressure to a specified value.

Function

By using the differential pressure, the pressure reducing valve adjusts itself to the set working pressure. If the outlet pressure increases or decreases to above/below the desired value, the diaphragm is lifted against the spring resistance or pressed down by the spring resistance by the outlet pressure. The pressure reducing valve begins to close/open until the state of equilibrium is reached again. This means that the outlet pressure remains constant, regardless of the rising or dropping inlet pressure.

Applications

- Microelectronics
- Chemical process industry
- Measurement and control
- Water treatment

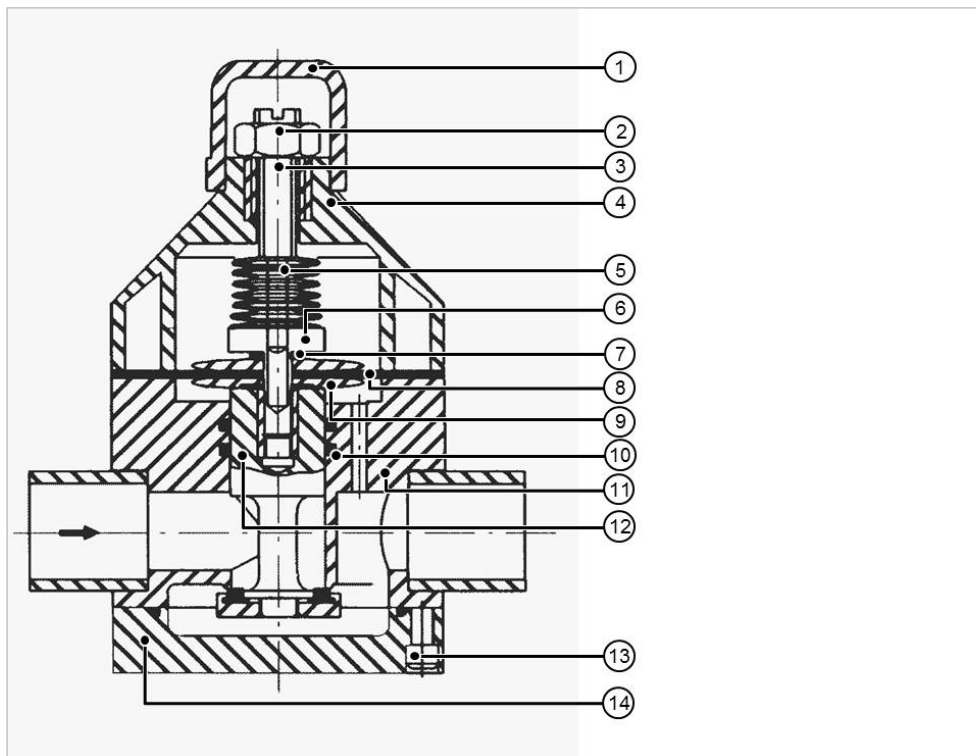
Benefits/features

- No auxiliary energy required
- The working pressure is set with an adjusting screw and locked with a locking nut
- Valves can also be adjusted under working pressure
- Requires practically no maintenance and can be installed in any position
- All parts that come into contact with the medium are made of highly resistant plastics
- The large form of the housing allows good flow values
- Standard version Type V82 with manometer separated from the medium

Flow media

Neutral and aggressive media with a small quantity of particles/solids. The chemical resistance depends on the selected valve material ([see online tool ChemRes PLUS](#)).

Technical data

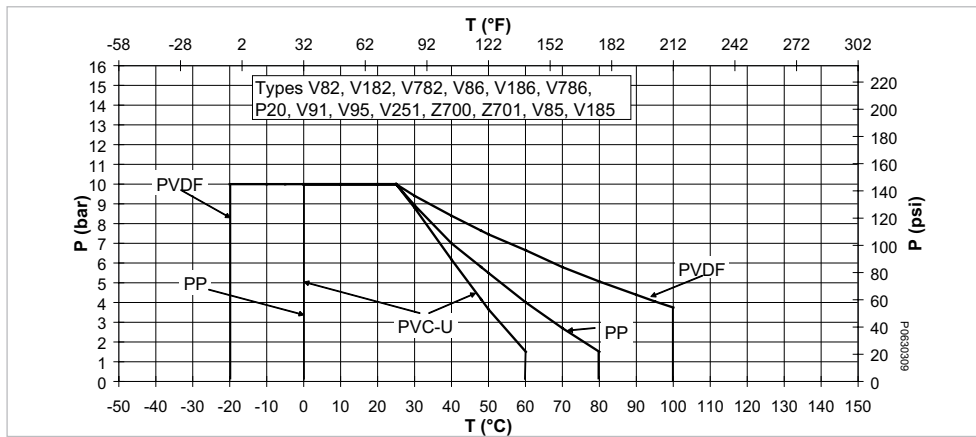


- ① Cap
- ② Locking nut
- ③ Adjusting screw
- ④ Upper valve body
- ⑤ Spring assembly
- ⑥ Allen screw
- ⑦ Washer
- ⑧ Diaphragms
- ⑨ Pressure plate (bottom and top)
- ⑩ O-ring
- ⑪ Valve body
- ⑫ Piston
- ⑬ Allen screws
- ⑭ Valve bottom with O-ring

Specification	
Dimensions	d75/DN65 – d110/DN100, 2 ½" – 4"
Valve body materials	PVC-U, PP, PVDF
Gasket materials	EPDM
Diaphragm	EPDM-PTFE-coated
Pressure levels	DN65 – DN80 1 – 6 bar
	DN100 1 – 4 bar
Spring assemblies	Belleville spring
Connections	Solvent cement spigot DIN/ISO
	Fusion spigot DIN/ISO
Standards	Pressure test according to ISO 9393
	Leak-tightness test according to EN 12260

Pressure-temperature diagrams

PVC-U, PP-H, PVDF



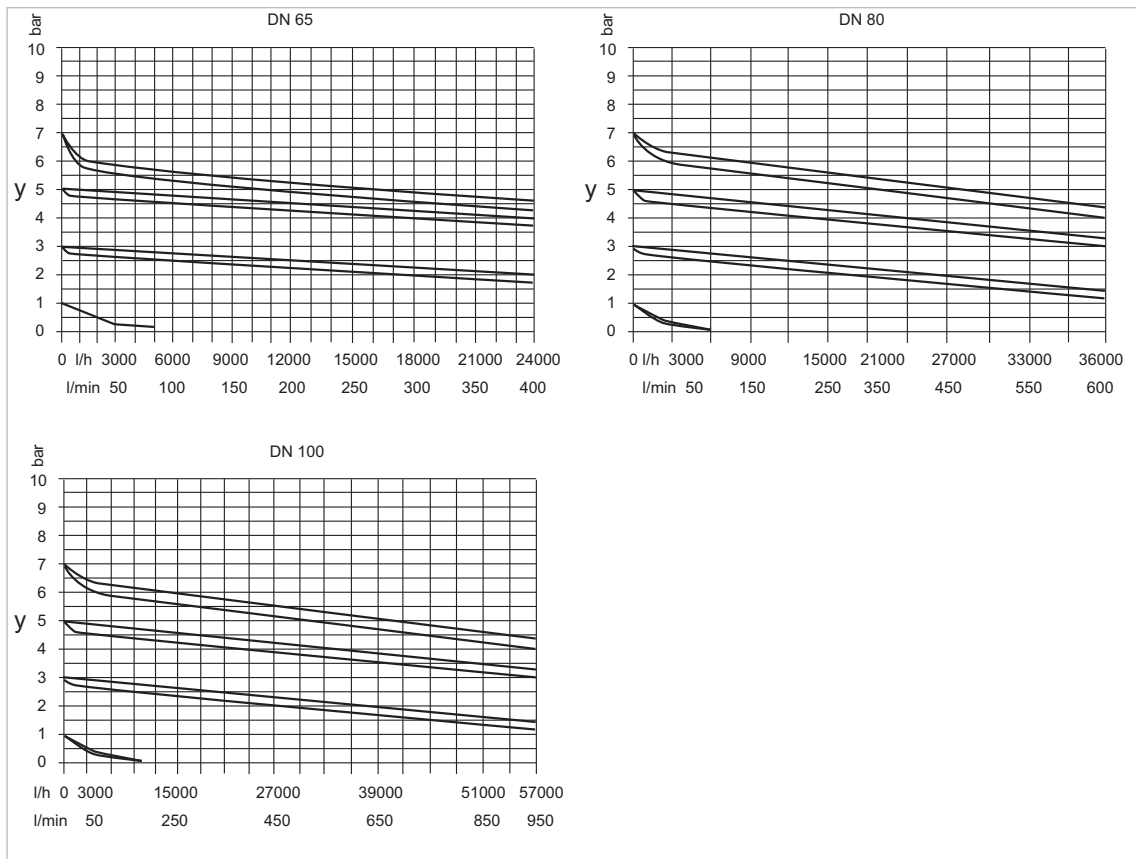
T Temperature (°C, °F)
 P Permissible pressure (bar, psi)

The pressure-temperature diagram is based on a lifetime of 25 years and water or similar media.

Dimensions

d (mm)	DN (mm)	øD (mm)	h (mm)	H (mm)	L (mm)	L (mm)	L1 (mm)	L2 (mm)	
						PVC-U solvent cement spigots PVDF fusion spigots	PVDF-HP/PP butt fusion spigots BCF, IR	PVC-U, PP/PVDF	PVC-U, PP/PVDF
16	10	70	100	130	134	-	154	140	
20	15	70	100	130	134	150	154	140	
25	20	100	134	180	174	190	185	180	
32	25	100	134	180	174	190	185	180	
40	32	130	175	230	224	240	248	230	
50	40	130	175	230	224	240	252	230	
63	50	150	210	285	244	260	280	250	
75	65	200	250	350	300	300	-	306	
90	80	250	305	425	360	360	-	370	
110	100	300	345	495	420	420	-	430	

Characteristics Type V82



■ Mobile apps and online tools to support configuration and calculation at www.gfps.com/tools



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