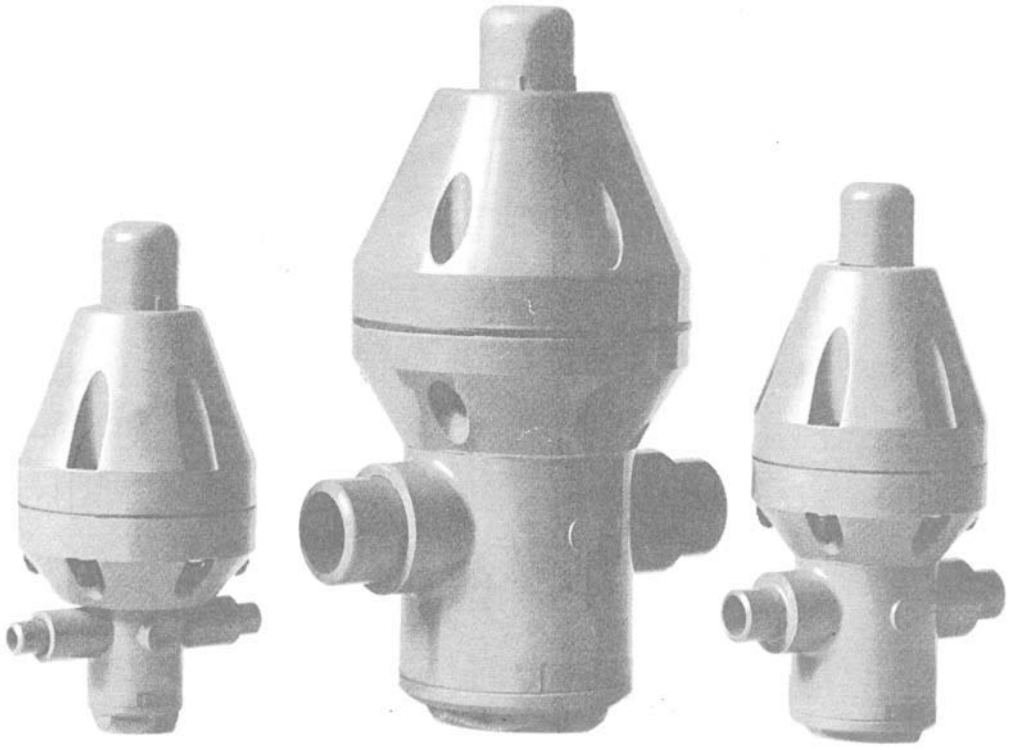
Pressure Reducing Valve V782

DN 10 to DN 40



Introduction:
The comprehensive range of safety and control valves and equipment are ideal for the chemical and process industries where a high degree of reliability and quality are required. They offer the engineer many advantages:

- All parts in contact with the liquid are made of chemical resistant polymers.
- A choice of materials.
- A choice of seals.

Description:
Installed where it is required to reduce from one pressure to another and to maintain the reduced pressure on the downstream side, irrespective of fluctuations of inlet pressure or changes in flow demand. The valve is adjusted by an adjusting screw and secured with a lock nut.

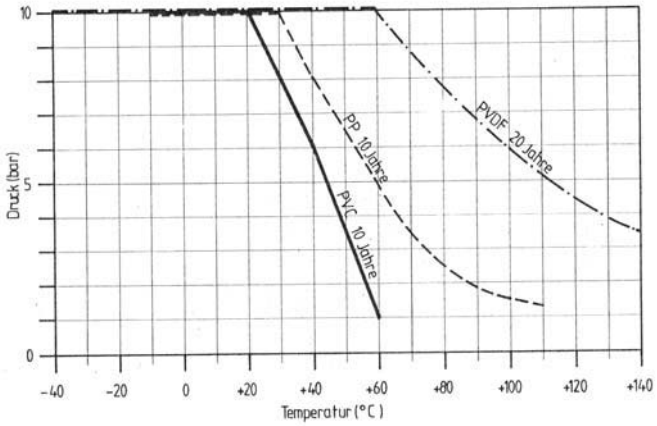
Installation:
Can be installed in any position. It is recommended that a line strainer is installed in front of the unit when being used with contaminated liquids.

ASAHI/AMERICA

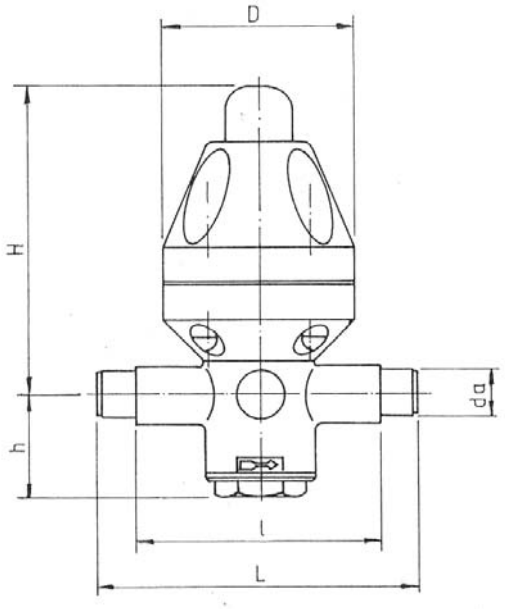
35 Green St. PO Box 653 Malden, MA 02148 T: (781)321-5409 F: (781)388-4781 www.asahi-america.com

Technical data:	782
Materials:	Housing: PP, PVDF
Recommended operating temperture:	PVC -0 bis + 60℃ PP -20 bis + 80℃ PVDF -40 bis + 120℃

Operating pressure:



Hysterisis: 0.1 - 0.4 bar
Pressure difference between inlet and outlet: min 0.2 bar
Adjustment range on outlet with an inlet pressure of 10 bar: 0.5 - 9.5 bar



da	DN	L	l	H	h	D	Weight(kg)
16	10	134	102	138	48	83	0,62
20	15	134	102	138	48	83	0,62
25	20	154	110	205	65	112	1,70
32	25	154	110	205	65	112	1,70
40	32	224	162	248	95	165	4,84
50	40	224	162	248	95	165	4,84

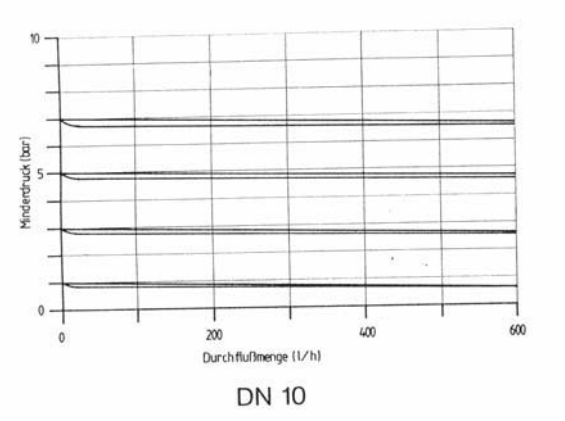
Technical specifications may change without notice.

ASAHI/AMERICA

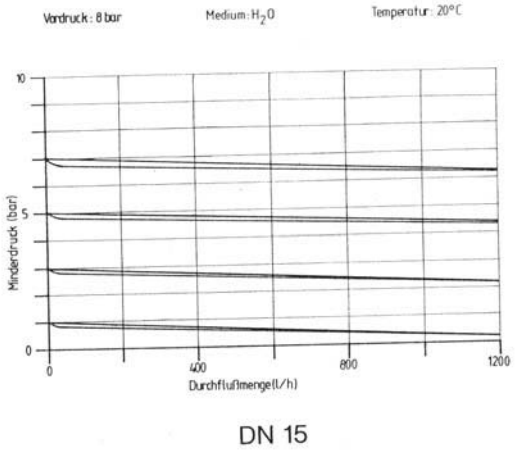
35 Green St. PO Box 653 Malden, MA 02148 T: (781)321-5409 F: (781)388-4781 www.asahi-america.com

Pressure vs. Flow: Pressure Reducing Valve V782

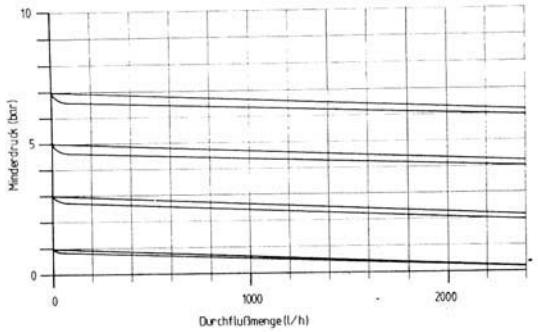
Input pressure: 8 bar



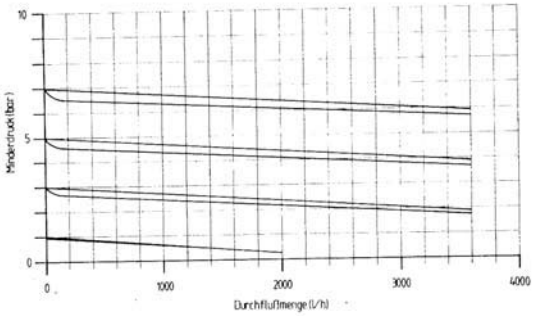
DN 10



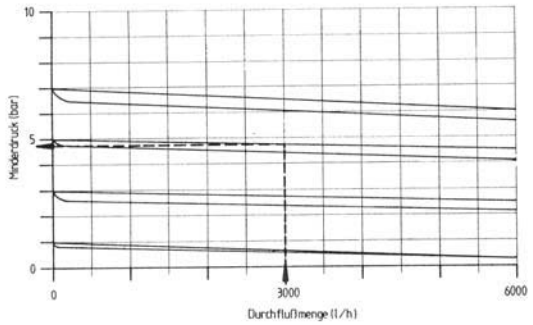
DN 15



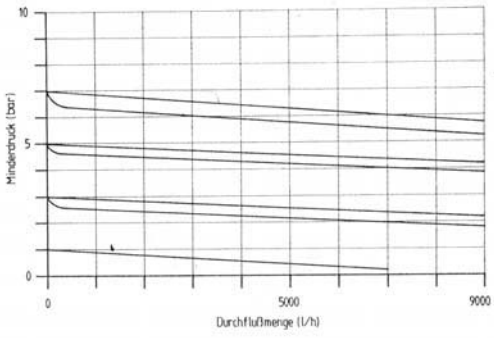
DN 20



DN 25



DN 32



DN 40

Example: Flow volume 3000 l/h
Operating pressure 4.8 bar

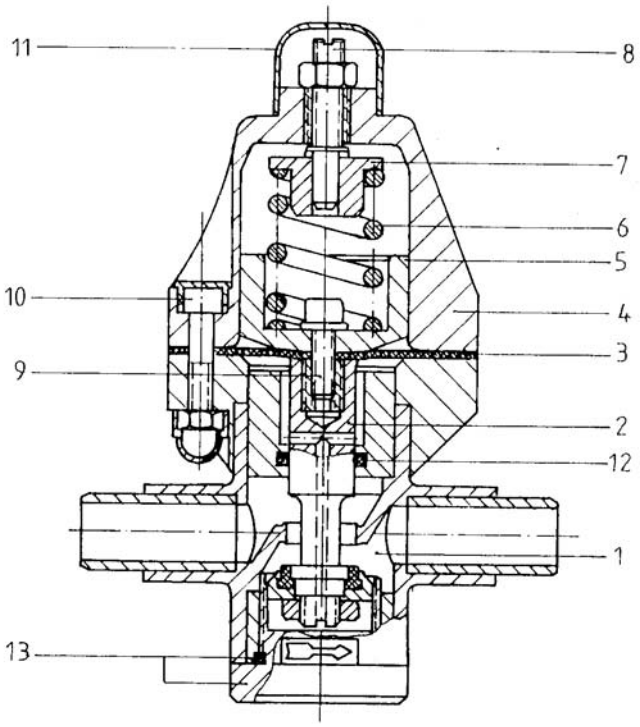
The valve DN 32 have a pressure rise from 0.3 bar and hysterisis of 0.3 bar.

ASAHI/AMERICA

35 Green St. PO Box 653 Malden, MA 02148 T: (781)321-5409 F: (781)388-4781 www.asahi-america.com

da	DN	operating pressure In bar	PVC With solvent cement spigots EPDM	PTFE	PP With fusion spigots EPDM	PTFE	PVDF With fusion spigots PTFE
16	10	0,5-10	17.001.345	17.002.173	17.001.348	17.001.179	17.001.352
20	15	0,5-10	17.001.353	17.002.174	17.001.356	17.002.180	17.001.360
25	20	0,5-10	17.001.386	17.002.175	17.001.389	17.002.181	17.001.393
32	25	0,5-10	17.001.394	17.002.176	17.001.397	17.002.182	17.001.401
40	32	0,5-10	17.001.427	17.002.177	17.001.430	17.002.183	17.001.434
50	40	0,5-10	17.001.435	17.002.178	17.001.438	17.002.184	17.001.442

Other materials and connections available on request.



Spare parts:

Pos.	Description	piece
1	Lower body	1
***2**	Piston	1
***3**	Diaphragm	1
4	Upper body	1
5	Compressor	1
***6**	spring	1
7	Compressor spring	1
8	Set screw.	1
9	Hexagonal screw	1
10	Hexagonal screw with nuts & caps	4
11	cap	1
***12**	Lip seal	1
13	Sealing plug and seal.	1

* Wear and spare parts.

Installation:

1. The valves should be installed on pipeline systems free of tensions and, if possible, with a detachable connection (flange or union)
2. It can be installed in any position
3. Observe the flow direction. It is marked with an arrow on the valve body
4. In case of contaminated liquids, we recommend you install a line strainer in front of the unit

ASAHI/AMERICA

35 Green St. PO Box 653 Malden, MA 02148 T: (781)321-5409 F: (781)388-4781 www.asahi-america.com

Setting the operating pressure:

1. Detach the plastic cap from the top of the valve
2. Undo the counter nut
3. Turn the set screw with a screwdriver/hex key as follows:
   Clockwise to increase the operating pressure
   Counter-clockwise to decrease the operating pressure
4. Once the operating pressure is set, secure it with a counter nut

Maintenance:

1. The pressure reducing valve type V782 requires very little maintenance
2. In case the fluids are full of dirt and/or particles, the pressure reducing valve may need to be cleaned, depending on the degree of pollution
3. When dismantling the reducing valve, unlock the set screw until the spring assem bly is discharged. Only then can the cylinder screws be unlocked from the relief screws

3a. Remove the protection caps from the hexagonal screws from the valve housing, unlock the screws, and put away the housing and the spring compressor with the spring assembly

4. Depending on the operating conditions and duration, several parts may be affected by normal wear and tear. In this case, we recommend you keep the following spare parts:
   Diaphragm, piston, spring assembly and lip seal

Replacing the diaphragm and the lip seal res. O-ring:

1. Unscrew and remove the bottom valve
2. Lay down the valve (now open on both sides)
3. Hold the piston firmly with a convenient tool from the lower side of the valve, and at the same time, open the cylinder screw with a hex key from the upper side
4. Remove the cylinder screw, compressor and diaphragm
5. Remove the lip seal for the inside of the valve body. For reassembly, proceed the opposite way