



## Riduttore di pressione

### Impiego

Le valvole riduttrici di pressione tipo V82 riducono la pressione all'interno di una linea ad un valore preimpostato.

Usando la pressione differenziale, la pressione della valvola viene regolato sul valore impostato.

La pressione in uscita (pressione di lavoro) non è direttamente correlata alla pressione d'ingresso.

Se la pressione d'uscita aumenta (o diminuisce) rispetto al valore impostato la membrana viene sollevata (o premuta) dalla molla interna fino a ristabilire il valore desiderato: la pressione di uscita rimane costante indipendentemente da un aumento o una diminuzione pressione di ingresso.

L'ampia gamma di materiali disponibili per i corpi valvola (PVC-U, PP, PVDF) e per le membrane (EPDM o EPDM rivestite in PTFE) consentono l'applicazione per fluidi tecnicamente puri, fluidi neutri e aggressivi nonché ultrapuri e per applicazioni idriche.

### Caratteristiche

- Tutte le parti a contatto con il fluido sono realizzate in materiali plastici altamente resistenti
- La membrana separa la parte attuatore dalla sezione di passaggio del flusso
- La pressione di esercizio è tarata attraverso una vite di regolazione e fissata con un dado di bloccaggio (il valore impostato può anche essere piombato se desiderato)
- La conformazione del corpo valvola permette di ottenere basse perdite di carico
- Non è necessaria alcuna energia ausiliaria per azionare la valvola
- La valvola è esente da manutenzione e può essere installata in qualsiasi posizione
- La valvola può anche essere regolata durante il funzionamento in pressione
- Versione standard con manometro

### Materiali

- Corpo: PVC  
Membrana/Guarnizioni: EPDM o EPDM rivestito PTFE  
Range temperature: 0 °C ÷ +60 °C
- Corpo: PP  
Membrana/Guarnizioni: EPDM o EPDM rivestito PTFE  
Range temperature: -10 °C ÷ +80 °C
- Corpo: PVDF  
Membrana/Guarnizioni: EPDM rivestito PTFE  
Range temperature: -20 °C ÷ +100 °C

### Dati tecnici

- Tipo: V82
- Range pressioni:  
DN 10 ÷ 50: 0,5 ÷ 10 bar  
DN 65 ÷ 80: 0,5 ÷ 6 bar  
DN 100: 0,5 ÷ 4 bar
- Isteresi: ca. 0,4 ÷ 1 bar
- Diff. pressione ing./usc.: min. 1 bar

## Pressure reducing valve

### Use

*The V82 pressure reducing valves reduces the pressure within the system to a pre-set value.*

*By using the differential pressure, the pressure reducing valve adjusts itself to the set working pressure.*

*The outlet pressure (working pressure) is not directly related to the inlet pressure.*

*If the outlet pressure increases (or decreases) compared to the desired value, the diaphragm is lifted against the spring force (or pressed) down by the spring force until a state of equilibrium is re-established: the outlet pressure remains constant irrespective of an increasing or decreasing inlet pressure.*

*The wide range of materials available for the valve bodies (PVC-U, PP, PVDF) and the diaphragms (EPDM or EPDM-PTFE-coated) cover many areas of application for technically pure, neutral and aggressive fluids as well as ultrapure water applications.*

### Features

- *All parts that come into contact with the medium are made of highly-resistant plastics*
- *The control diaphragm separates the actuating drive from the flow section*
- *The operating pressure is set with an adjustment screw and secured with a lock nut - the setting can also be lead-sealed if desired*
- *The shape of the housing that assists flow results in good flow values*
- *No auxiliary energy is required in order to operate the valve*
- *The valve is largely maintenance-free and can be installed in any position*
- *The valve can also be adjusted during pressure operation*
- *Standard version with manometer*

### Materials

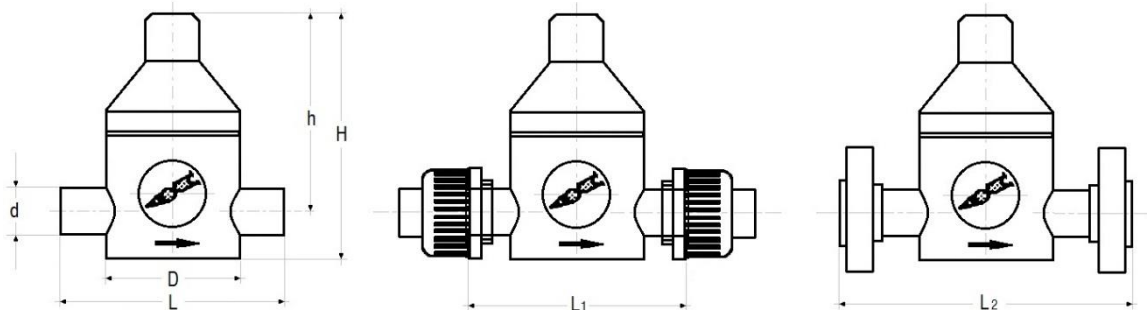
- *Body: PVC  
Diaphragm/Seals: EPDM or EPDM coated PTFE  
Range temperature: 0 °C ÷ +60 °C*
- *Body: PP  
Diaphragm/Seals: EPDM or EPDM coated PTFE  
Range temperature: -10 °C ÷ +80 °C*
- *Body: PVDF  
Diaphragm/Seals: EPDM coated PTFE  
Range temperature: -20 °C ÷ +100 °C*

### Technical data

- *Type: V82*
- *Pressure ranges:  
DN 10 ÷ 50: 0,5 ÷ 10 bar  
DN 65 ÷ 80: 0,5 ÷ 6 bar  
DN 100: 0,5 ÷ 4 bar*
- *Hysteresis: approx. 0,4 ÷ 1 bar*
- *Pressure difference between inlet and outlet: min. 1 bar*



Dimensioni (mm)  
Dimensions (mm)

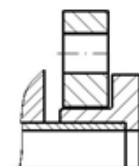
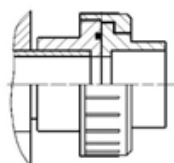
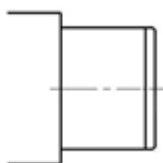


d	DN	D	h	H	L	
					PVC incollaggio PVC solvent welding PP/PVDF sald. tasca PP/PVDF socket fusion	PP/PVDF sald. testa PP/PVDF buttfusion
16	10	70	100	130	134	-
20	15	70	100	130	134	150
25	20	100	134	180	174	190
32	25	100	134	180	174	190
40	32	130	175	230	224	240
50	40	130	175	230	224	240
63	50	150	210	285	244	260
75	65	200	250	350	300	300
90	80	250	305	425	360	360
110	100	300	345	495	420	420

d	DN	L <sub>1</sub>	L <sub>2</sub>	Peso (Kg) Weight (Kg)						
				PVC, PP, PVDF	PVC, PP, PVDF	PVC		PP		PVDF
						L	L <sub>1</sub>	L <sub>2</sub>	L	L
16	10	154	140	0,68	0,73	0,84	0,55	0,79		
20	15	154	140	0,68	0,76	0,88	0,51	0,78		
25	20	185	180	1,35	1,49	1,64	1,03	1,62		
32	25	185	180	1,63	1,56	1,75	1,02	1,59		
40	32	248	230	2,96	3,32	3,62	2,24	5,32		
50	40	252	230	2,96	3,38	3,74	2,24	5,32		
63	50	280	250	5,18	5,90	6,18	3,96	9,33		
75	65	-	306	10,43	-	11,77	7,91	13,76		
90	80	-	370	19,63	-	21,25	12,91	-		
110	100	-	430	31,64	-	33,76	23,30	-		

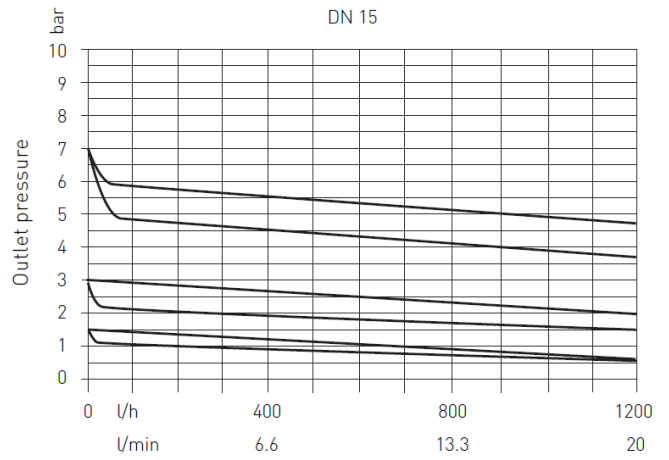
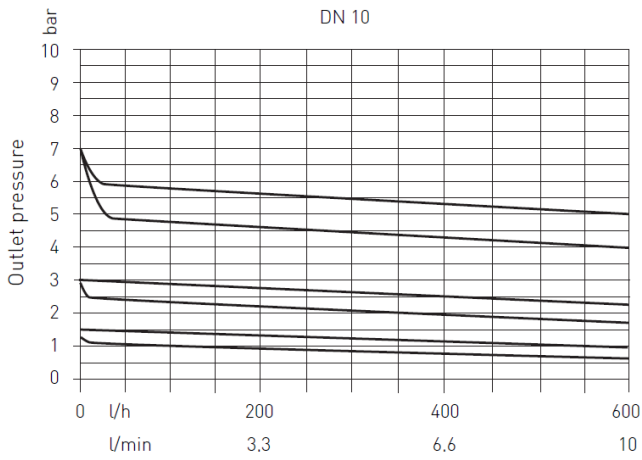
Connessioni  
Connections

- L: attacchi standard maschio
- L: male standard connections
- L<sub>1</sub>: attacchi a bocchettoni
- L<sub>1</sub>: socket union connections
- L<sub>2</sub>: attacchi flangiati (UNI o ANSI)
- L<sub>2</sub>: flange connections (UNI or ANSI)

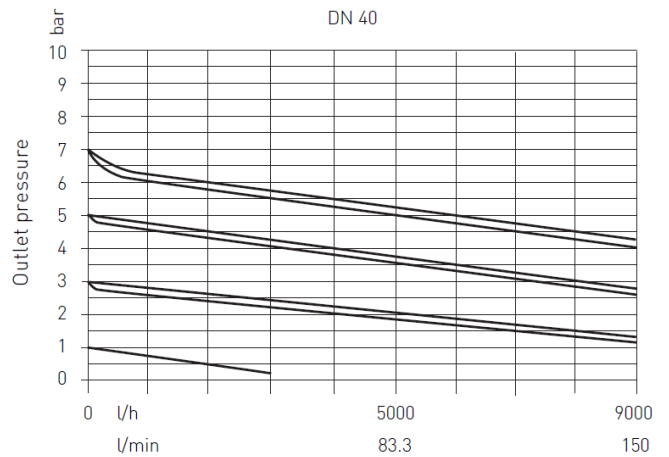
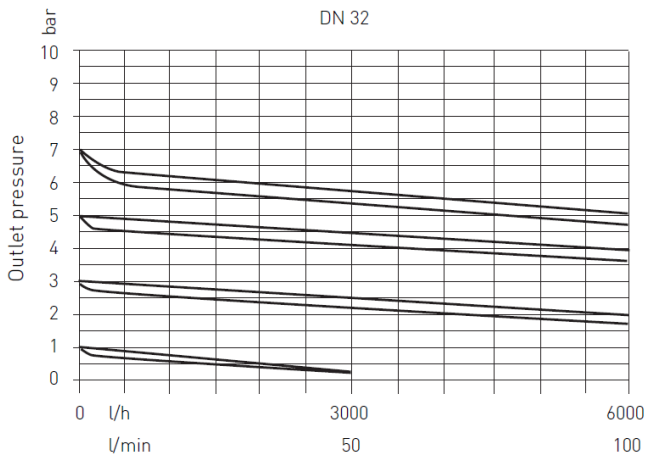
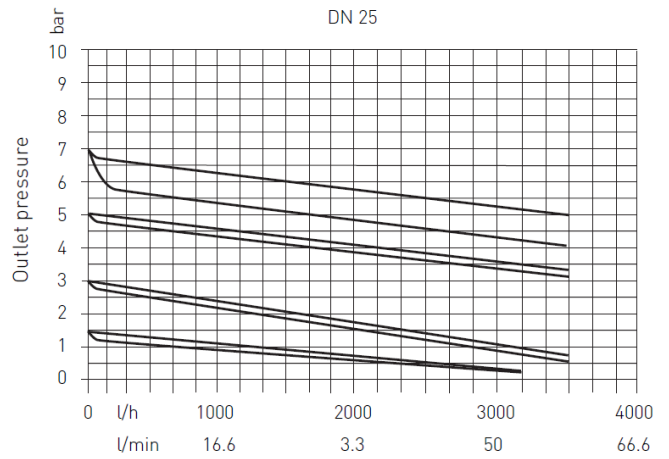
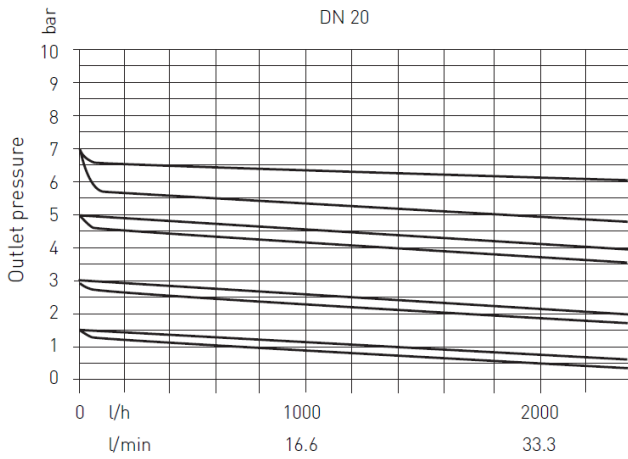




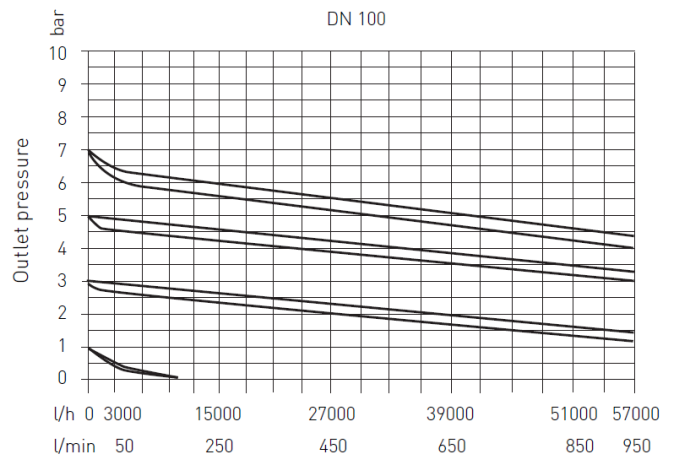
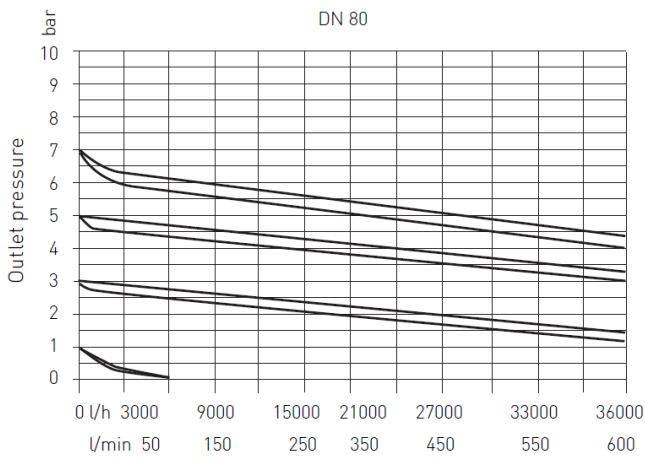
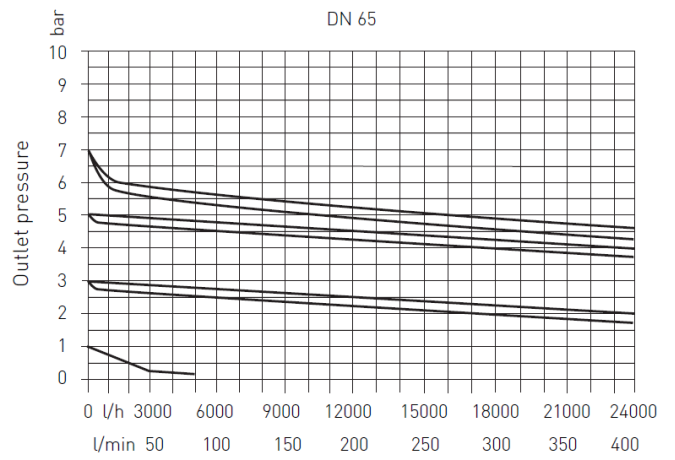
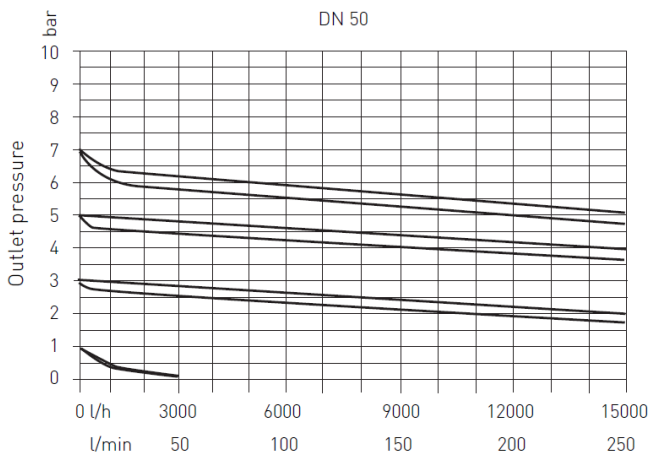
Curve riferimento valvola V 82  
 Performance diagram valve V82



Characteristics are valid for a flow rate of 2 m/s



L/hr, l/min = Flow volume H<sub>2</sub>O



l/hr, l/min = Flow volume H<sub>2</sub>O