

Directional valves ▶ Pneumatically operated

Series 840

Brochure



Directional valves ▶ Pneumatically operated

Series 840



4/2-directional valve, Series 840

▶ Single air pilot ▶ Qn = 200 l/min ▶ pipe connection ▶ Compressed air connection
output: Ø6x1

3

Accessories



Subbases and accessories, Series 840

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Silencers, Series SI1

▶ Sintered bronze

6



Name plates

7

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4/2-directional valve, Series 840

▶ Single air pilot ▶ Qn = 200 l/min ▶ pipe connection ▶ Compressed air connection output: Ø6x1



00138519_a

Version	Poppet valve
Sealing principle	Soft sealing
Mounting on manifold strip	PRS strip
Working pressure min./max.	2 bar / 10 bar *
Control pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-15 °C / +60 °C *
Medium temperature min./max.	-15 °C / +60 °C *
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 1 mg/m³

Materials:

Housing	Polyoxymethylene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Polyoxymethylene

* The maximum operating pressure depends on the ambient temperature. The following values are applicable:

- 15 °C - 60 °C: Operating pressure 1.5 bar - 8 bar possible.
- 15 °C - 40 °C: Operating pressure 1.5 bar - 10 bar possible.

Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.

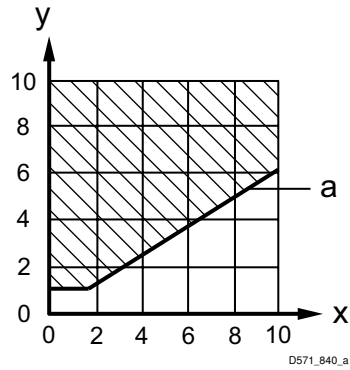
	Compressed air connection				Flow rate value	Weight	Note	Part No.
	Input	Output	Exhaust	Pilot control exhaust				
					[l/min]	[kg]		
	Ø6x1	Ø6x1	Ø6x1	Ø6x1	200	0.048	1)	5718400000

1) See diagram
Nominal flow Qn at 6 bar and Δp = 1 bar

4/2-directional valve, Series 840

▶ Single air pilot ▶ $Q_n = 200$ l/min ▶ pipe connection ▶ Compressed air connection output: $\text{Ø}6 \times 1$

Control pressure



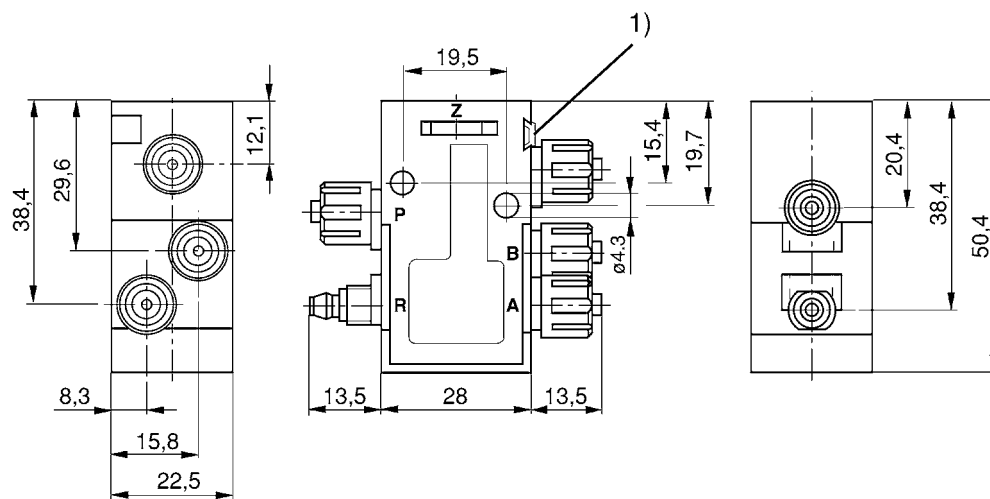
Pilot pressure range diagram

x: working pressure (bar)

y: pilot pressure (bar)

a: min. pilot pressure at port 14 (Z) depending on working pressure

Dimensions



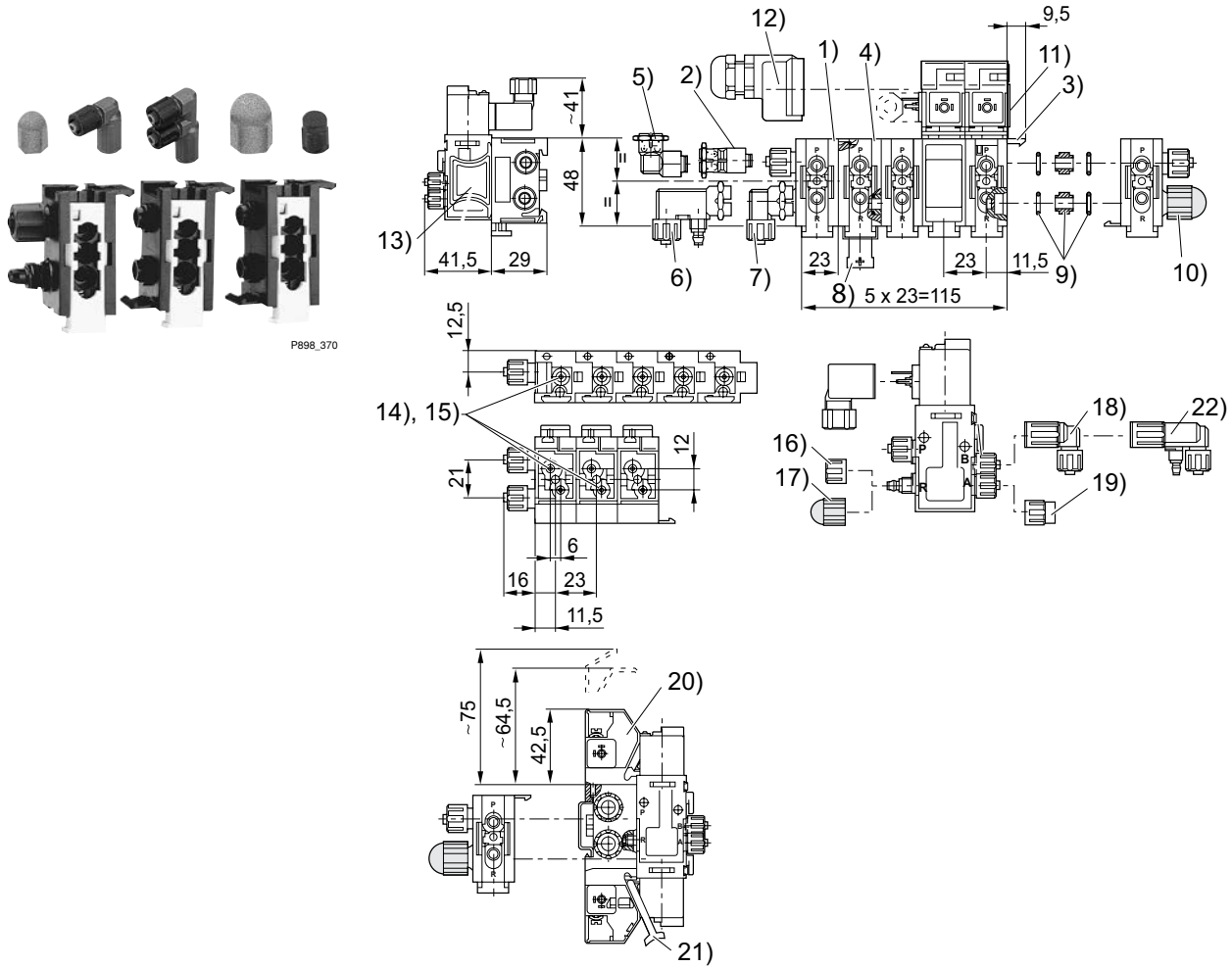
1) mounting space for name plate

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Subbases and accessories, Series 840



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Part No.	Type	Material	Material Seal	Fig.		
8985003702	Supply plate complete with seals	Polyoxymethylene	Acrylonitrile butadiene rubber	Fig. 1		
8938000910	Reducing fitting Ø 8x1 to Ø 6x1, push-in incl. O-ring	-	-	Fig. 2		
8938000920	Reducing fitting Ø 8x1 to Ø 8x1, push-in incl. O-ring	-	-	Fig. 2		
8985003722	End plate, complete with O-rings	Polyoxymethylene	Acrylonitrile butadiene rubber	Fig. 3		
8985003712	sandwich plate complete with seals	Polyoxymethylene	Acrylonitrile butadiene rubber	Fig. 4		
8938306550	elbow fitting Ø 8x1 to Ø 6x1, push-in, incl. O-ring	-	-	Fig. 5		
8938306560	elbow fitting Ø 8x1 to Ø 8x1, push-in, incl. O-ring	-	-	Fig. 5		
8938307900	Elbow fitting, 2x, plastic tubing Ø 6x1 for supply plate	-	-	Fig. 6		
8938307800	Elbow fitting, 2x, plastic tubing Ø 8x1 for supply plate	-	-	Fig. 6		

Series 840 Accessories

Part No.	Type	Material	Material Seal	Fig.		
8938306500	Elbow fitting, 1x, plastic tubing Ø 6x1 for supply plate	Polyoxymethylene	Acrylonitrile butadiene rubber	Fig. 7		
8938306510	Elbow fitting, 1x, plastic tubing Ø 8x1 for supply plate	Polyoxymethylene	Acrylonitrile butadiene rubber	Fig. 7		
5728400414	Cover plate for manifold	Polyamide	-	Fig. 8		
5728400092	Connecting kit for second inlet base	Brass	Acrylonitrile butadiene rubber	Fig. 9		
5324002020	silencer for port R of supply plate	Sintered bronze	-	Fig. 10		
5728400424	Cover plate for plug module	Polyamide	-	Fig. 11		
8942003902	PG-fitting for plug module	Polyamide	-	Fig. 12		
5728406004	Dummy flange for reserve places complete with seals	Polyamide	-	Fig. 13		
8938009390	Tubing connector for separate or additional P-supply for plastic tubing Ø 6x1	Brass	-	Fig. 14		
8938013600	Tubing connector for separate or additional P-supply for plastic tubing Ø 5x1	Brass	-	Fig. 15		
8930714804	Tube nut for valve conn. R	Polyamide	-	Fig. 16		
5324002000	silencer for valve connection R	Sintered bronze	-	Fig. 17		
8938403900	Elbow fitting 1x, for tubing Ø6x1, incl. O-ring	Polyoxymethylene	-	Fig. 18		
8930715002	Screw plug for valve connection A or B	Polyamide	-	Fig. 19		
8941013312	El. conn. module for max. 250 V, with cable conduit	Polyamide	-	Fig. 20		
5728417904	Actuating element+	Polyethylene	-	Fig. 21		
8938403950	Elbow fitting, 2x, for tube Ø6x1, incl. O-ring and tube nut	Polyoxymethylene	-	Fig. 22		

Silencers, Series SI1 ▶ Sintered bronze



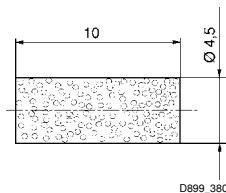
P899_380

Working pressure min./max. 0 bar / 10 bar
 Ambient temperature min./max. -25°C / +80°C
 Medium Compressed air

Materials:
 Silencers Sintered bronze

Weight	Part No.
[kg]	
0.008	8993800114

Dimensions



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Name plates



P894_305

Part No.	Type	Order quantity [Piece]								
8943056312	1-10	5								
8943056322	11-20	5								

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An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. © AVENTICS S.à r.l.
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