3/2-directional valve, electrically operated, Series AS1-SOV

- Compressed air connection G 1/4
- Air supply right
- Pipe connection
- NC

Type	Poppet valve, Can be assembled into blocks
Parts	3/2-directional valve, electrically operated
Nominal flow 1 ▸ 2	2000 l/min
Nominal flow 2 ▸ 3	380 l/min
Working pressure min./max.	See table below
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10 ... 50 °C
Ambient temperature min./max.	-10 ... 50 °C
Pilot	Internal
Sealing principle	Soft sealing
Max. particle size	25 µm
Oil content of compressed air	0 ... 5 mg/m³
Protection class acc. to DIN EN 61140 with plug	IP65
Weight	See table below

Technical data

Part No.				Compressed air connection input	Compressed air connection output	Exhaust
R412014747		–	NC	G 1/4	G 1/4	G 1/4
R412014748		–	NC	G 1/4	G 1/4	G 1/4
R412014744			NC	G 1/4	G 1/4	G 1/4
R412014746			NC	G 1/4	G 1/4	G 1/4
R412010681			NC	G 1/4	G 1/4	G 1/4

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
R412014747	-	-	-
R412014748	-	-	-
R412014744	24 V	-	-
R412014746	-	230 V	230 V
R412010681	24 V	-	-

Part No.	Power consumption	Holding power	Switch-on power	Switch-on power
	DC	AC 50 Hz	AC 50 Hz	AC 60 Hz
R412014747	-	-	-	-
R412014748	-	-	-	-
R412014744	2 W	-	-	-
R412014746	-	1,6 VA	3 VA	3 VA
R412010681	2 W	-	-	-

Part No.	Working pressure min./max.	Electrical connection	Connector standard
		Pilot valve	
R412014747	2 ... 12 bar	-	-
R412014748	2 ... 12 bar	-	-
R412014744	2 ... 10 bar	Plug, ISO 15217, form C	EN 175301-803, form C
R412014746	2 ... 10 bar	Plug, ISO 15217, form C	EN 175301-803, form C
R412010681	2 ... 10 bar	Plug, M12	-

Part No.	basic valve with electrical connector	Weight	Fig.
R412014747	Basic valve without pilot valve	0,196 kg	Fig. 1
R412014748	Basic valve without pilot valve, with CNOMO subbase	0,21 kg	Fig. 1
R412014744	Basic valve with pilot valve	0,215 kg	Fig. 2
R412014746	Basic valve with pilot valve	0,214 kg	Fig. 2
R412010681	Basic valve with pilot valve	0,232 kg	Fig. 3

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar, MO = Manual override

Technical information

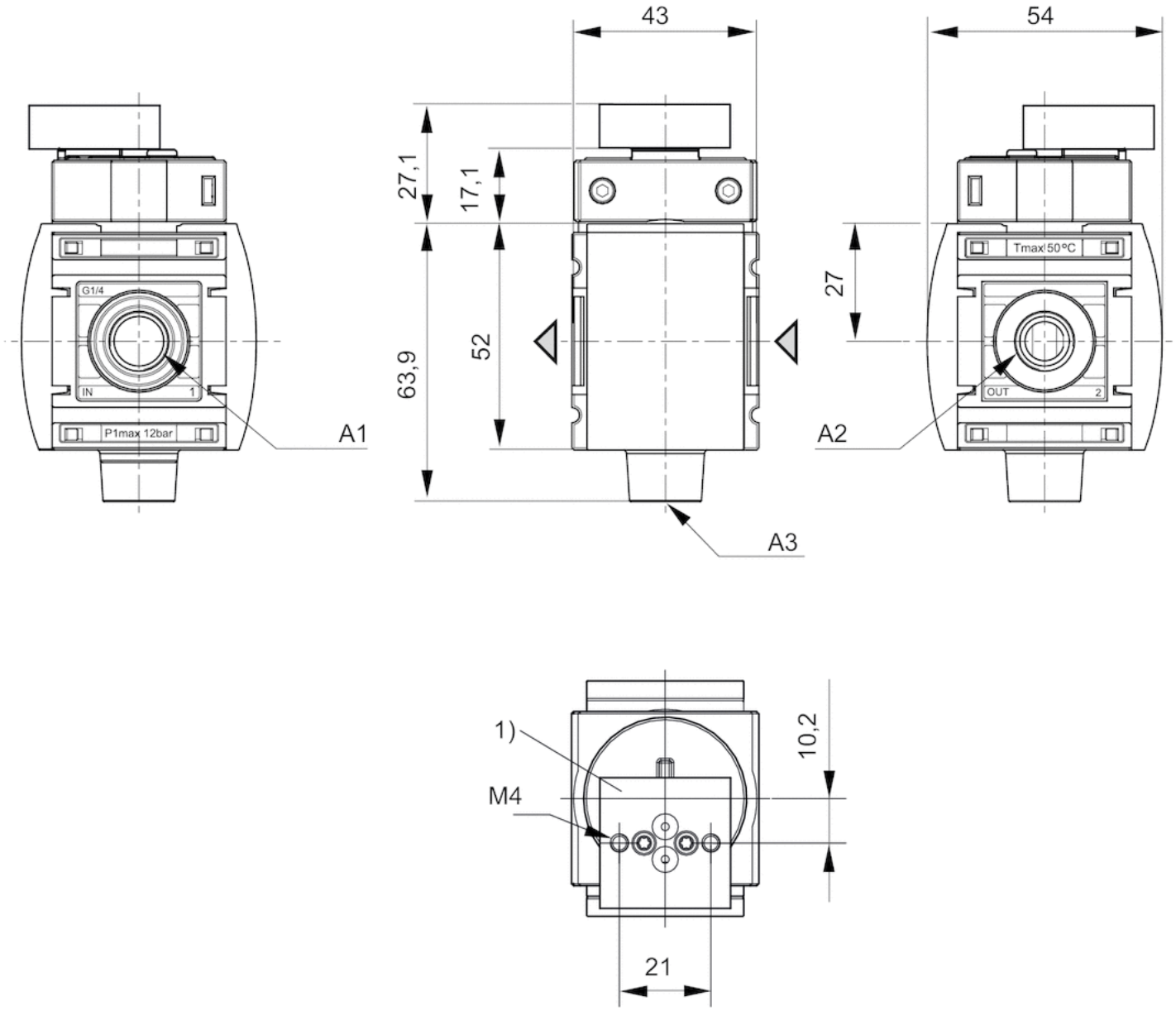
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

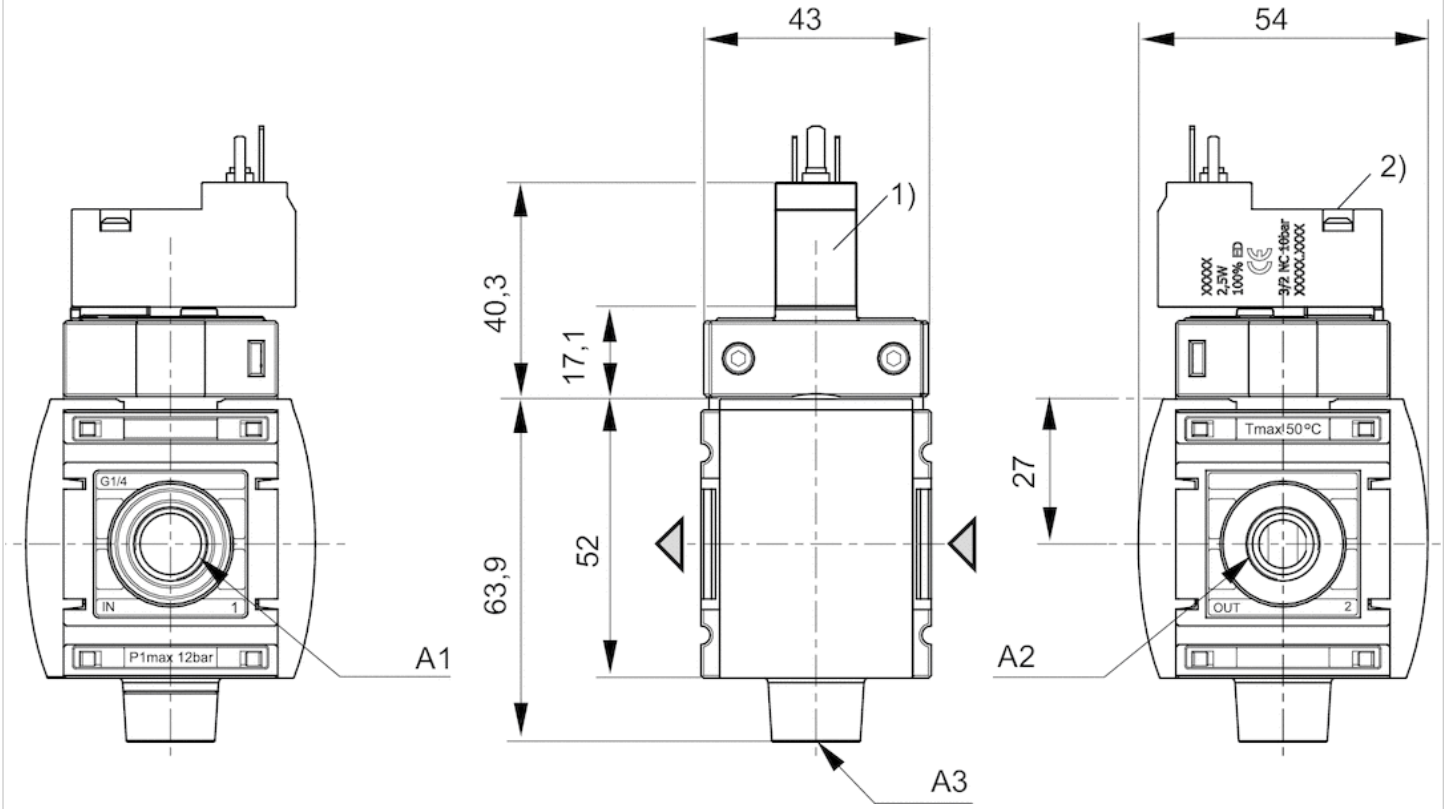
Dimensions

Dimensions in mm, Fig. 1: 3/2-directional valve with transition plate for pilot valve series DO30



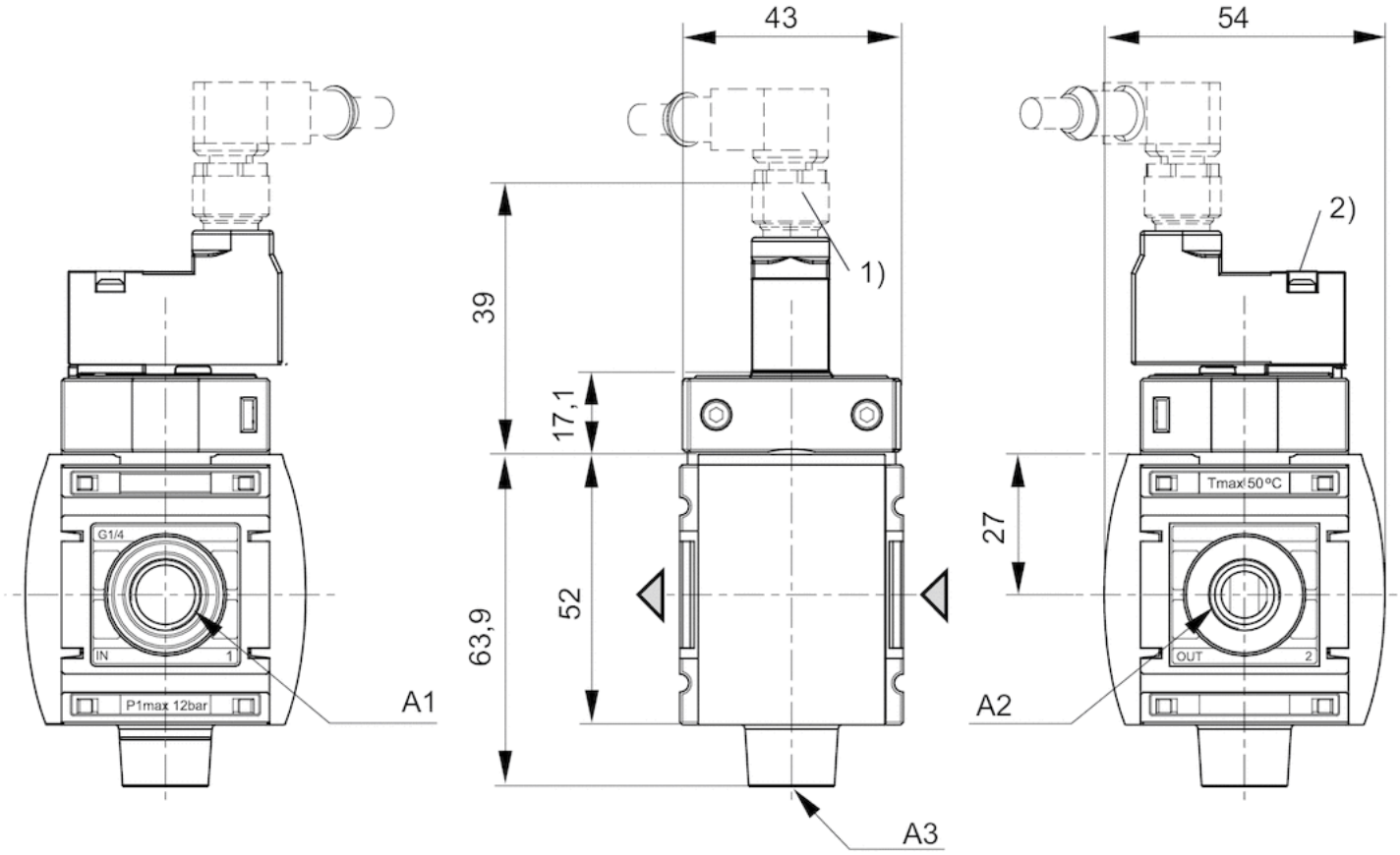
A1 = input
A2 = output
A3 = ventilation port
1) Transition plate with CNOMO porting configuration for pilot valve DO30

Dimensions in mm, Fig. 2: 3/2 directional valve with pilot valve and connection for valve plug connector form C



A1 = input
A2 = output
A3 = ventilation port
1) For valve plug connectors according to ISO 15217 (form C)
2) Manual override

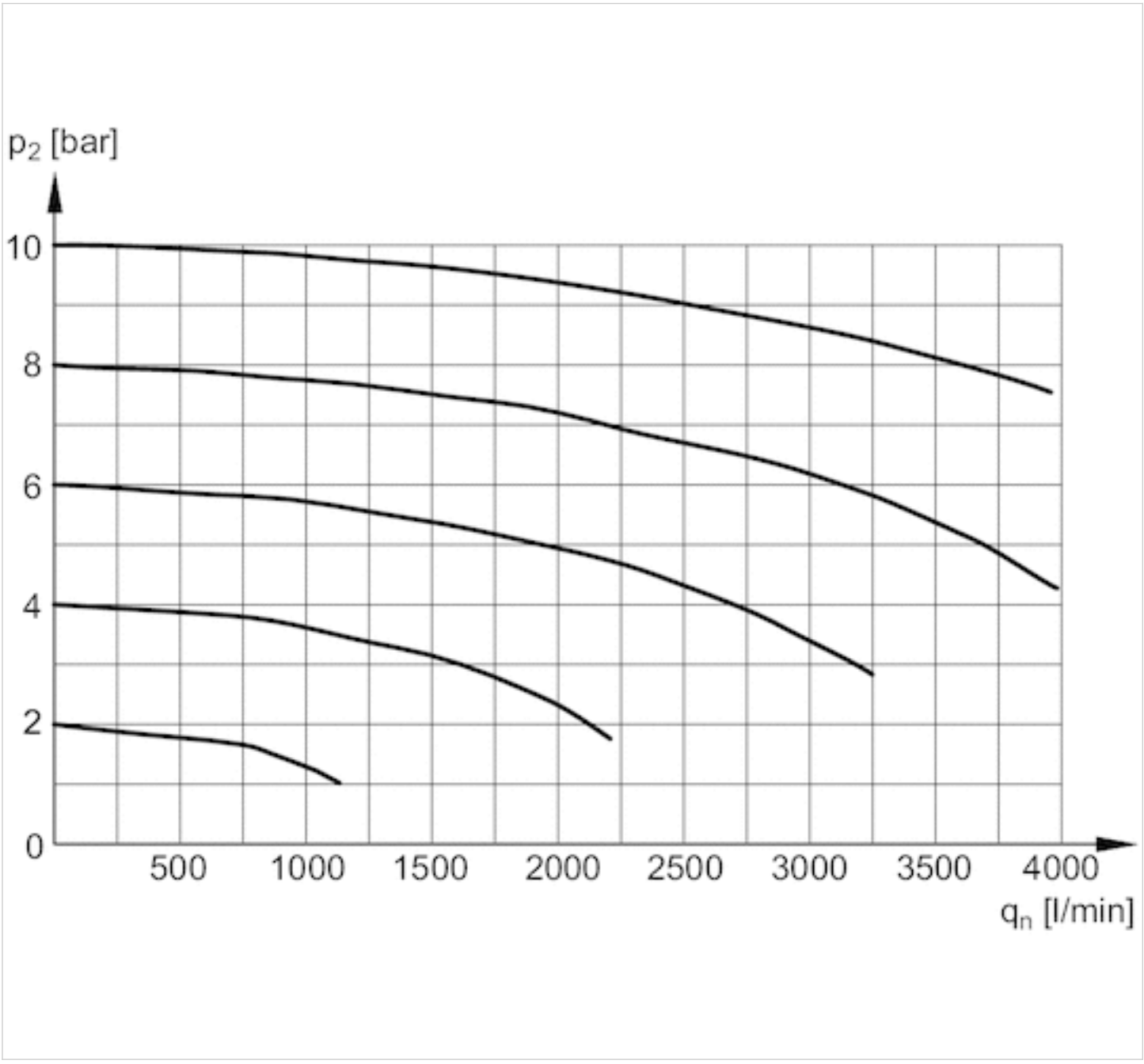
Dimensions in mm, Fig. 3: 3/2-directional valve with pilot valve, push-in fitting M12x1



A1 = input
A2 = output
A3 = ventilation port
1) plug M12
2) Manual override

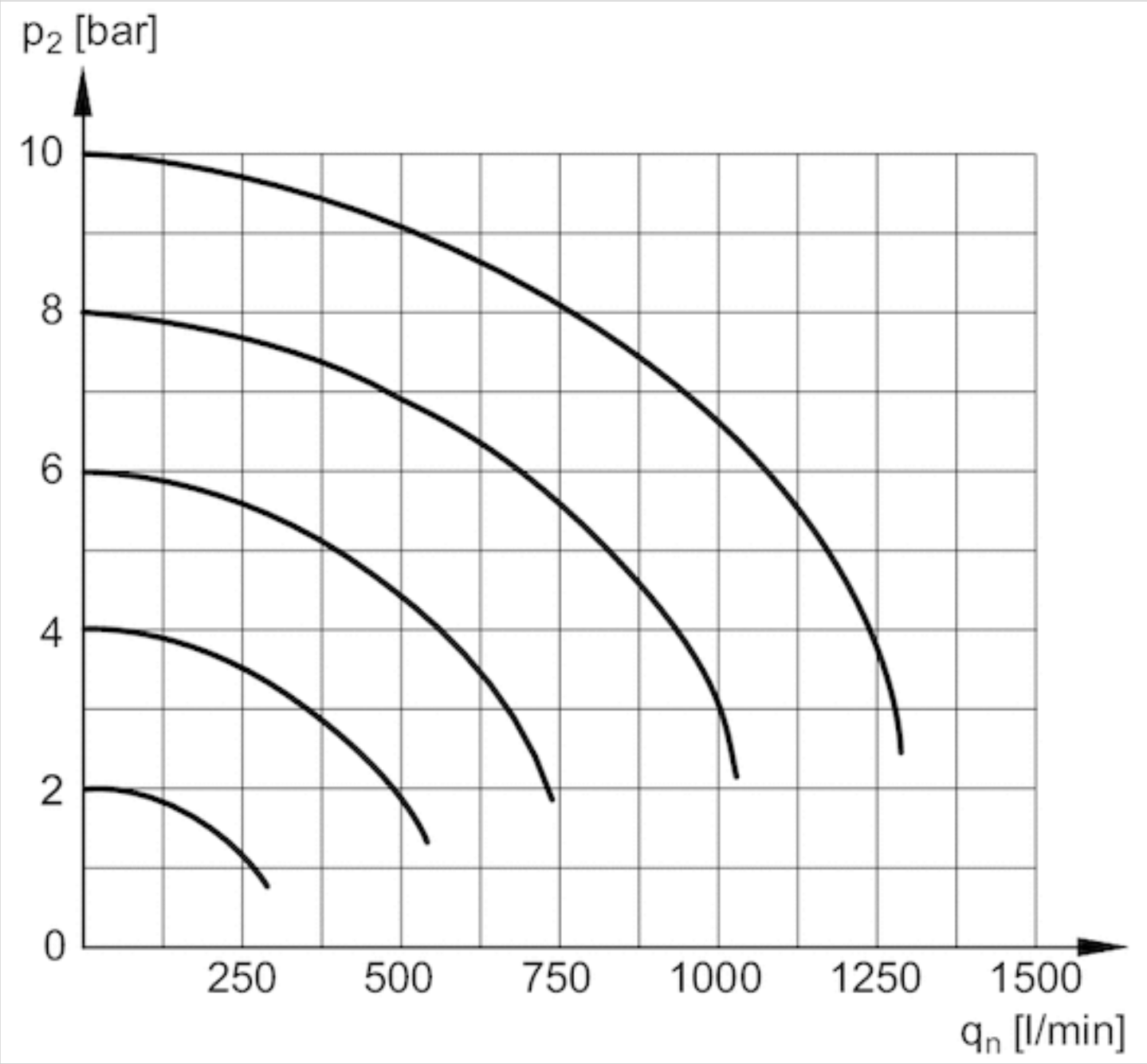
Diagrams

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

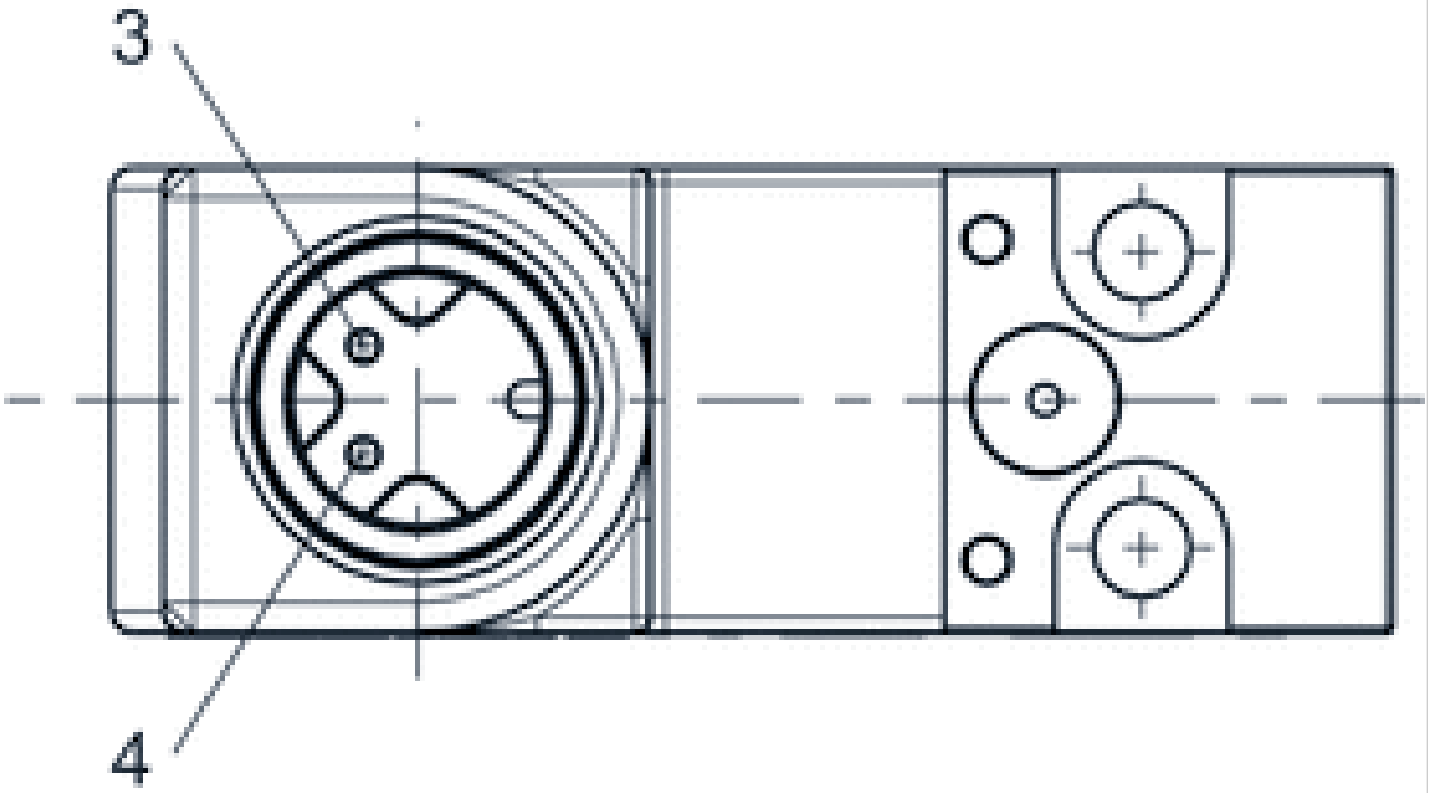
Rear exhaust



p2 = secondary pressure
qn = nominal flow

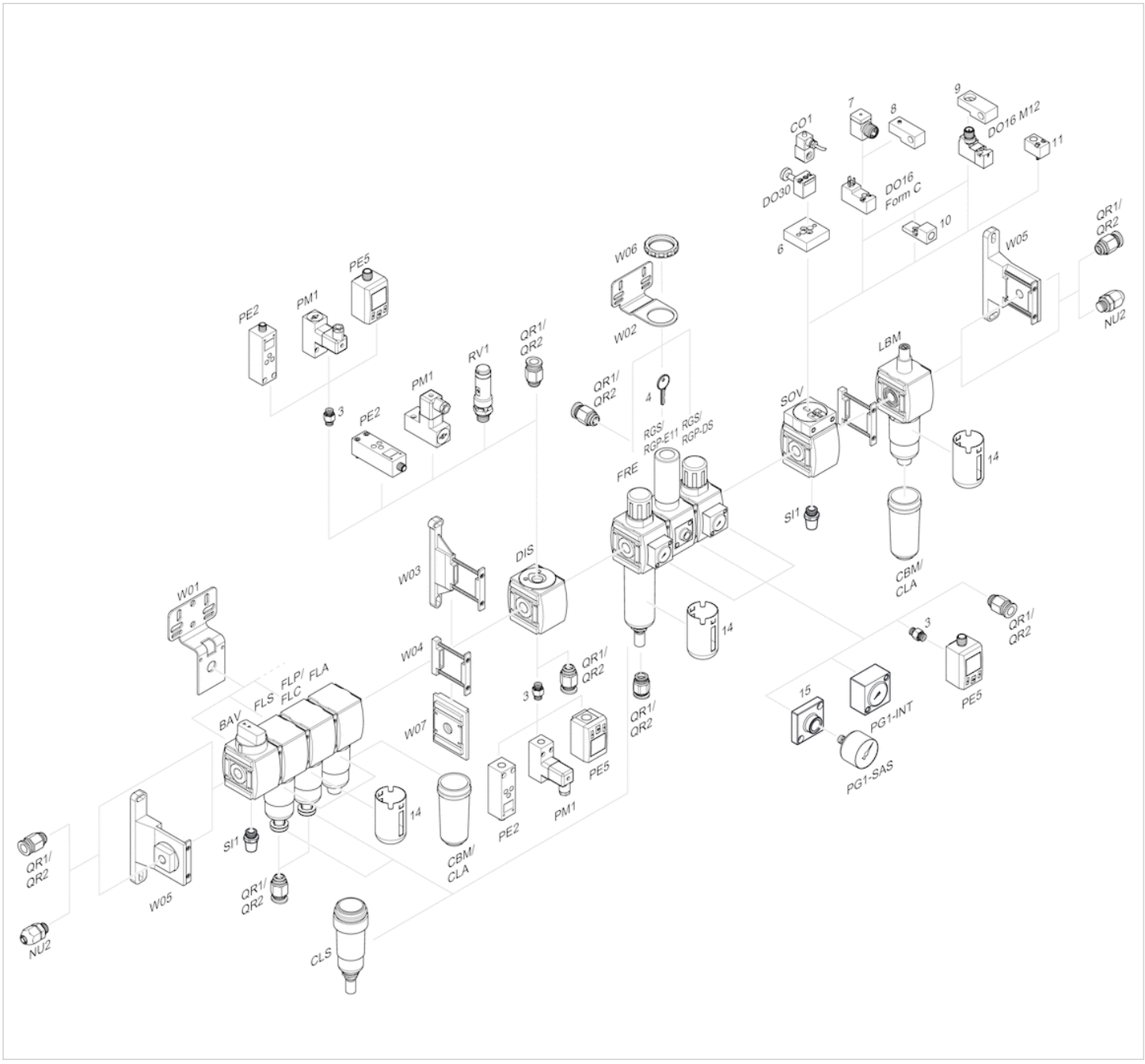
Pin assignments

Pin assignment M12x1



3: +/-
4: +/-

Accessories overview



3 = Double nipple
4 = Key for E11 locking
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
14 = Protective guard
15 = Transition plate for assembling a pressure gauge with connection thread G 1/8

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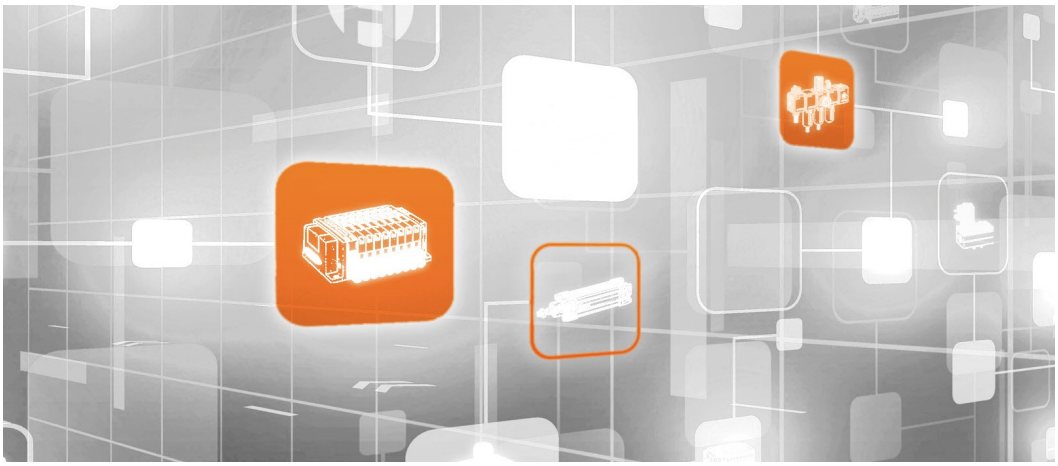

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