

3/2-directional valve, electrically operated, Series AS2-SOV

- Compressed air connection G 1/4 G 3/8
- Pipe connection
- ATEX optional



Version	Poppet valve, Can be assembled into blocks
Parts	3/2-directional valve, electrically operated
Nominal flow	See table below
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
Sealing principle	Soft sealing
Max. particle size	25 µm
Protection class acc. to DIN EN 61140 with plug	See table below
Weight	0,219 kg

Technical data

Part No.			Compressed air connection input	Compressed air connection output	Exhaust
R412006264		—	G 1/4	G 1/4	G 1/4
R412006268		—	G 3/8	G 3/8	G 1/4
R412006258		—	G 1/4	G 1/4	G 1/4
R412006259		—	G 3/8	G 3/8	G 1/4
R412006265			G 1/4	G 1/4	G 1/4
R412006266			G 1/4	G 1/4	G 1/4
R412006267			G 1/4	G 1/4	G 1/4
R412006269			G 3/8	G 3/8	G 1/4
R412006270			G 3/8	G 3/8	G 1/4
R412006271			G 3/8	G 3/8	G 1/4
R412006380			G 1/4	G 1/4	G 1/4
R412006381			G 3/8	G 3/8	G 1/4

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
R412006264	-	-	-
R412006268	-	-	-
R412006258	-	-	-
R412006259	-	-	-
R412006265	24 V	-	-
R412006266	-	110 V	110 V
R412006267	-	220 V	230 V
R412006269	24 V	-	-

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
R412006270	-	110 V	110 V
R412006271	-	220 V	230 V
R412006380	24 V	-	-
R412006381	24 V	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
R412006264	-	-	-	-
R412006268	-	-	-	-
R412006258	-	-	-	-
R412006259	-	-	-	-
R412006265	2 W	-	-	-
R412006266	-	1,6 VA	1,4 VA	2,2 VA
R412006267	-	1,6 VA	1,4 VA	2,2 VA
R412006269	2 W	-	-	-
R412006270	-	1,6 VA	1,4 VA	2,2 VA
R412006271	-	1,6 VA	1,4 VA	2,2 VA
R412006380	2 W	-	-	-
R412006381	2 W	-	-	-

Part No.	Switch-on power	Flow	Working pressure min./max.	Protection class
	AC 60 Hz	Qn		
R412006264	-	2000 l/min	2,5 ... 16 bar	-
R412006268	-	2000 l/min	2,5 ... 16 bar	-
R412006258	-	2000 l/min	2,5 ... 16 bar	-
R412006259	-	2000 l/min	2,5 ... 16 bar	-
R412006265	-	2000 l/min	2,5 ... 10 bar	IP65
R412006266	1,6 VA	2000 l/min	2,5 ... 10 bar	IP65
R412006267	1,6 VA	2000 l/min	2,5 ... 10 bar	IP65
R412006269	-	2000 l/min	2,5 ... 10 bar	IP65
R412006270	1,6 VA	2000 l/min	2,5 ... 10 bar	IP65
R412006271	1,6 VA	2000 l/min	2,5 ... 10 bar	IP65
R412006380	-	2000 l/min	2,5 ... 10 bar	IP65
R412006381	-	-	2,5 ... 10 bar	IP65

Part No.	Electrical connection	Connector standard
	Pilot valve	
R412006264	-	-
R412006268	-	-
R412006258	-	-
R412006259	-	-
R412006265	Plug, ISO 15217, form C	ISO 15217
R412006266	Plug, ISO 15217, form C	ISO 15217
R412006267	Plug, ISO 15217, form C	ISO 15217
R412006269	Plug, ISO 15217, form C	ISO 15217
R412006270	Plug, ISO 15217, form C	ISO 15217
R412006271	Plug, ISO 15217, form C	ISO 15217
R412006380	Plug, M12x1	-
R412006381	Plug, M12x1	-

Part No.	basic valve with electrical connector
R412006264	Basic valve without pilot valve
R412006268	Basic valve without pilot valve
R412006258	Basic valve without pilot valve, with CNOMO subbase
R412006259	Basic valve without pilot valve, with CNOMO subbase
R412006265	Basic valve with pilot valve
R412006266	Basic valve with pilot valve
R412006267	Basic valve with pilot valve
R412006269	Basic valve with pilot valve
R412006270	Basic valve with pilot valve
R412006271	Basic valve with pilot valve
R412006380	Basic valve with pilot valve
R412006381	Basic valve with pilot valve

Part No.	Reverse polarity protection	Fig.	
R412006264	-	Fig. 1	1)
R412006268	-	Fig. 1	1)
R412006258	-	Fig. 2	1)
R412006259	-	Fig. 2	1)
R412006265	Protected against polarity reversal	Fig. 3	-
R412006266	Protected against polarity reversal	Fig. 3	-
R412006267	Protected against polarity reversal	Fig. 3	-
R412006269	Protected against polarity reversal	Fig. 3	-
R412006270	Protected against polarity reversal	Fig. 3	-
R412006271	Protected against polarity reversal	Fig. 3	-
R412006380	-	Fig. 4	-
R412006381	-	Fig. 4	-

Nominal flow Q_n with secondary pressure $p_2 = 6$ bar at $\Delta p = 1$ bar

1) Suitable for use in Ex zones 1, 2, 21, 22

Technical information

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

ATEX optional: The ATEX ID depends on the selected pilot valve.

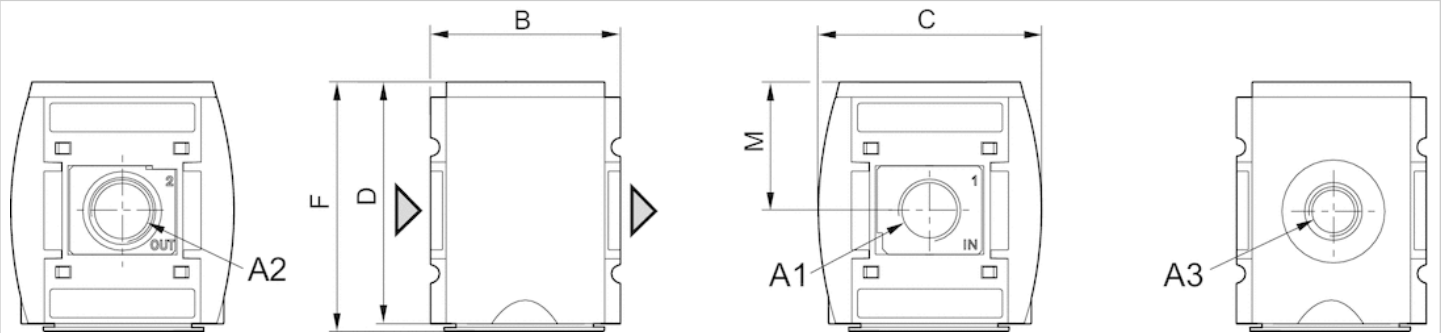
A short silencer is required for wall mounting (see accessories e.g. R412004817).

Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

Dimensions

Fig. 1: 3/2-directional valve without pilot valve with porting configuration for series DO16



A1 = input

A2 = output

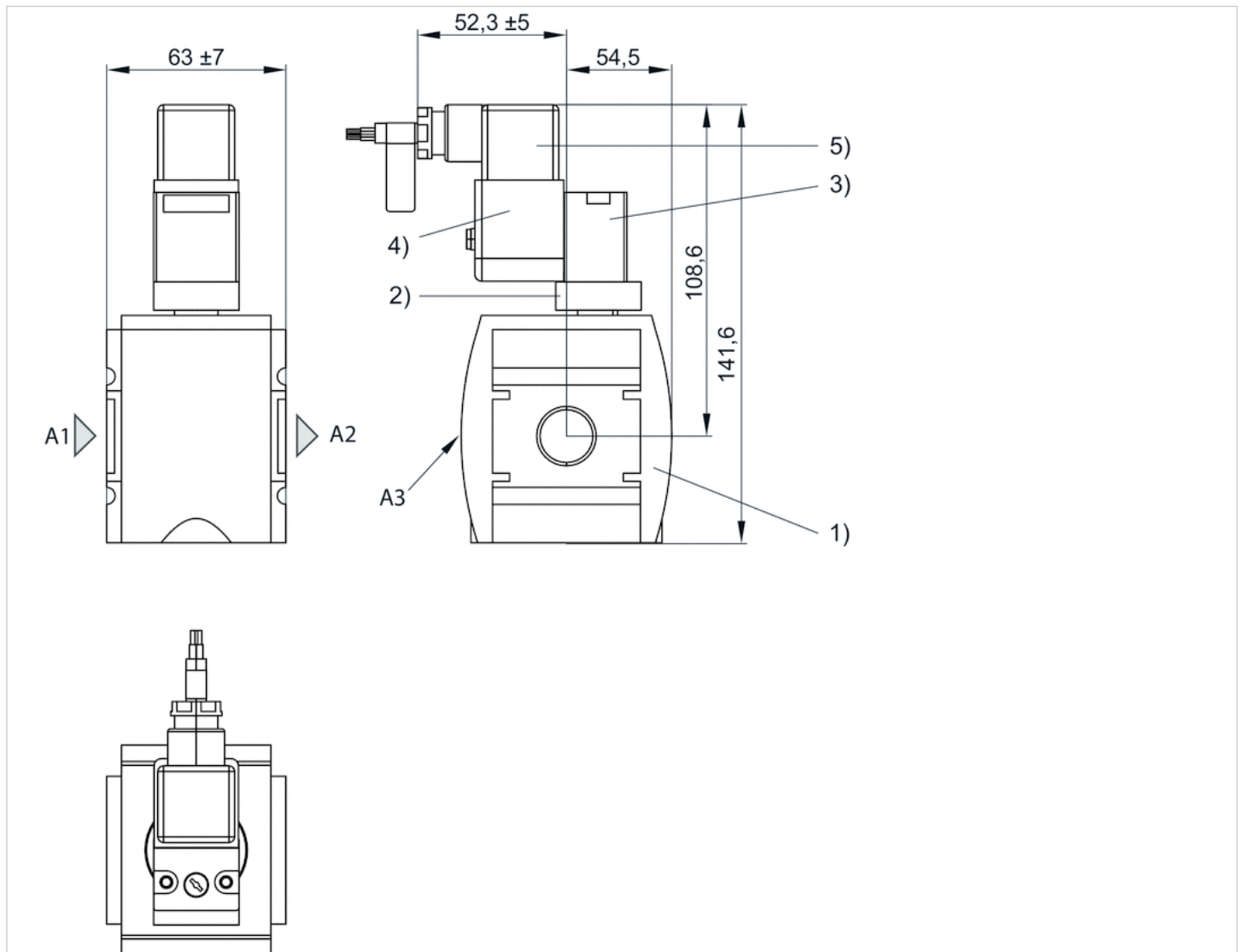
A3 = ventilation port

Dimensions in mm

A1	A2	A3	B	C	D	F	M
G 1/4	G 1/4	G 1/4	52	59	65	67	34
G 3/8	G 3/8	G 1/4	52	59	65	67	34

Dimensions

Fig. 2: 3/2 directional valve with transition plate (suitable for ATEX)



A1 = input

A2 = output

A3 = ventilation port

1) Shut-off valve

2) Transition plate

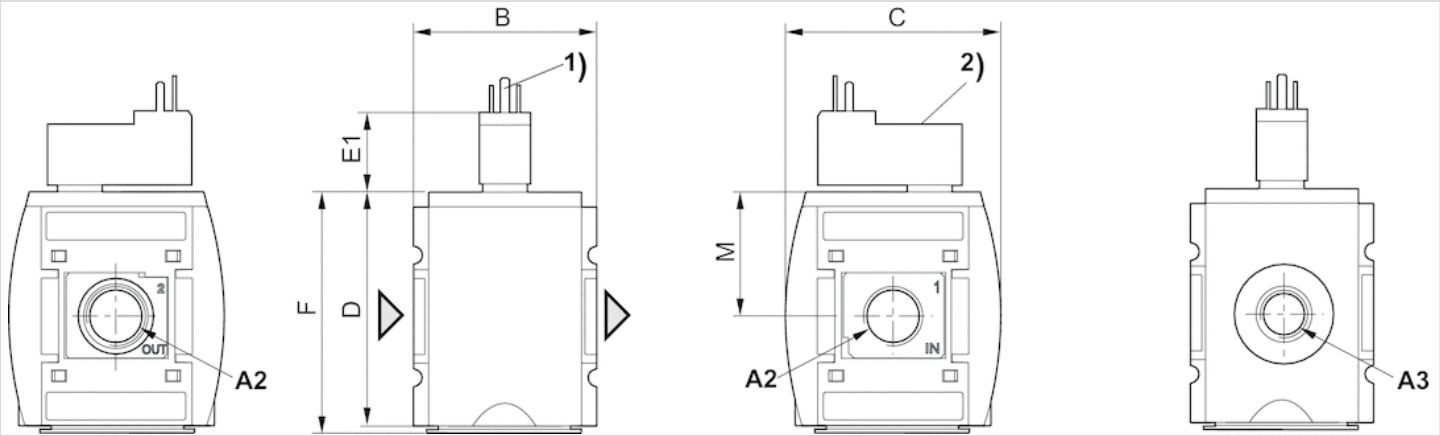
3) Pilot valve

4) Coil

5) Electrical connector

See accessories for pilot valve and coil

3/2-directional valve with pilot valve and port for electrical connector form C



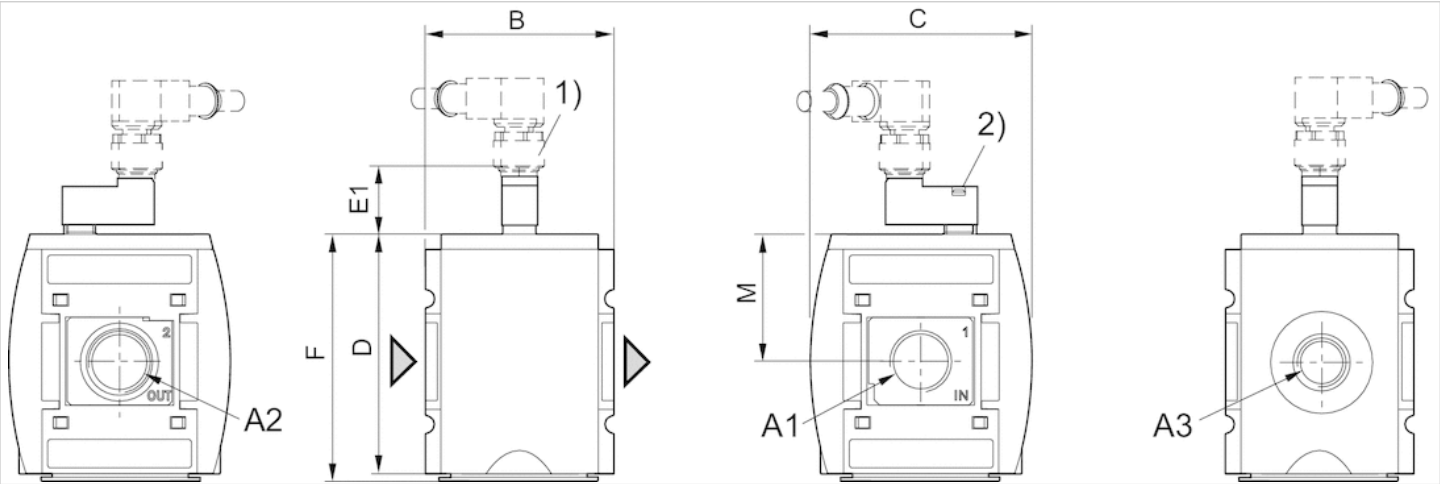
- A1 = input
A2 = output
A3 = ventilation port
1) For valve plug connectors according to ISO 15217 (form C)
2) Manual override

Dimensions in mm

A1	G 1/4	A3	B	C	D	F	M
G 1/4	G 1/4	G 1/4	52	59	65	67	34
G 3/8	G 3/8	G 1/4	52	59	65	67	34

Dimensions

Fig. 4: 3/2-directional valve with pilot valve, push-in fitting M12x1



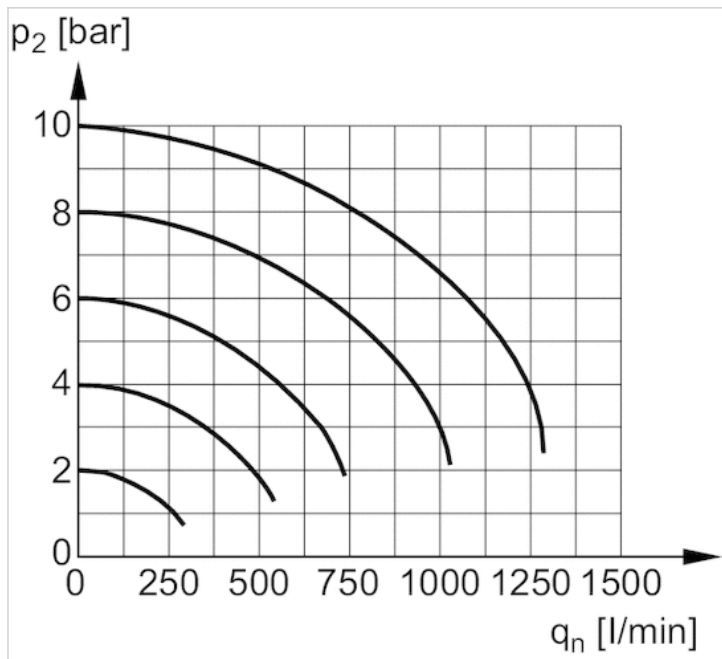
- A1 = input
A2 = output
A3 = ventilation port
1) plug M12
2) Manual override

Dimensions in mm

A1	A2	A3	B	C	D	E1	F	M
G 1/4	G 1/4	G 1/4	52	59	65	39	67	34
G 3/8	G 3/8	G 1/4	52	59	65	39	67	34

Diagrams

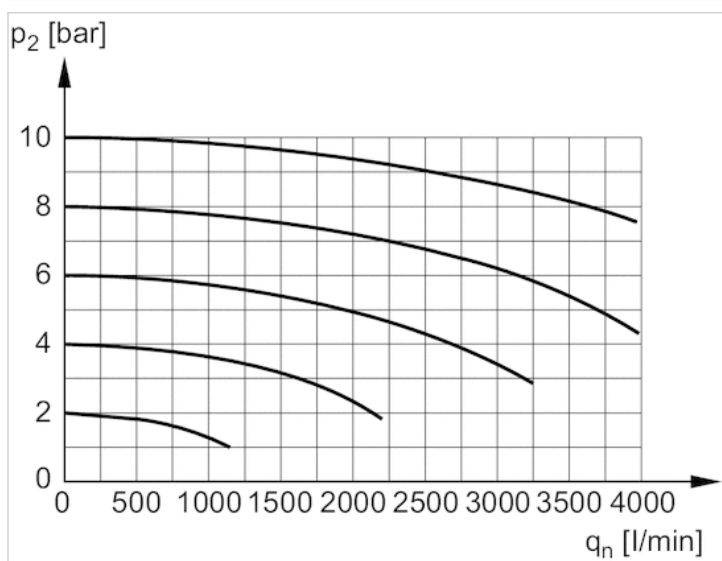
Rear exhaust



p_2 = secondary pressure

q_n = nominal flow

Flow rate characteristic

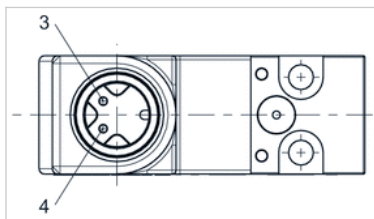


p_2 = secondary pressure

q_n = nominal flow

Pin assignments

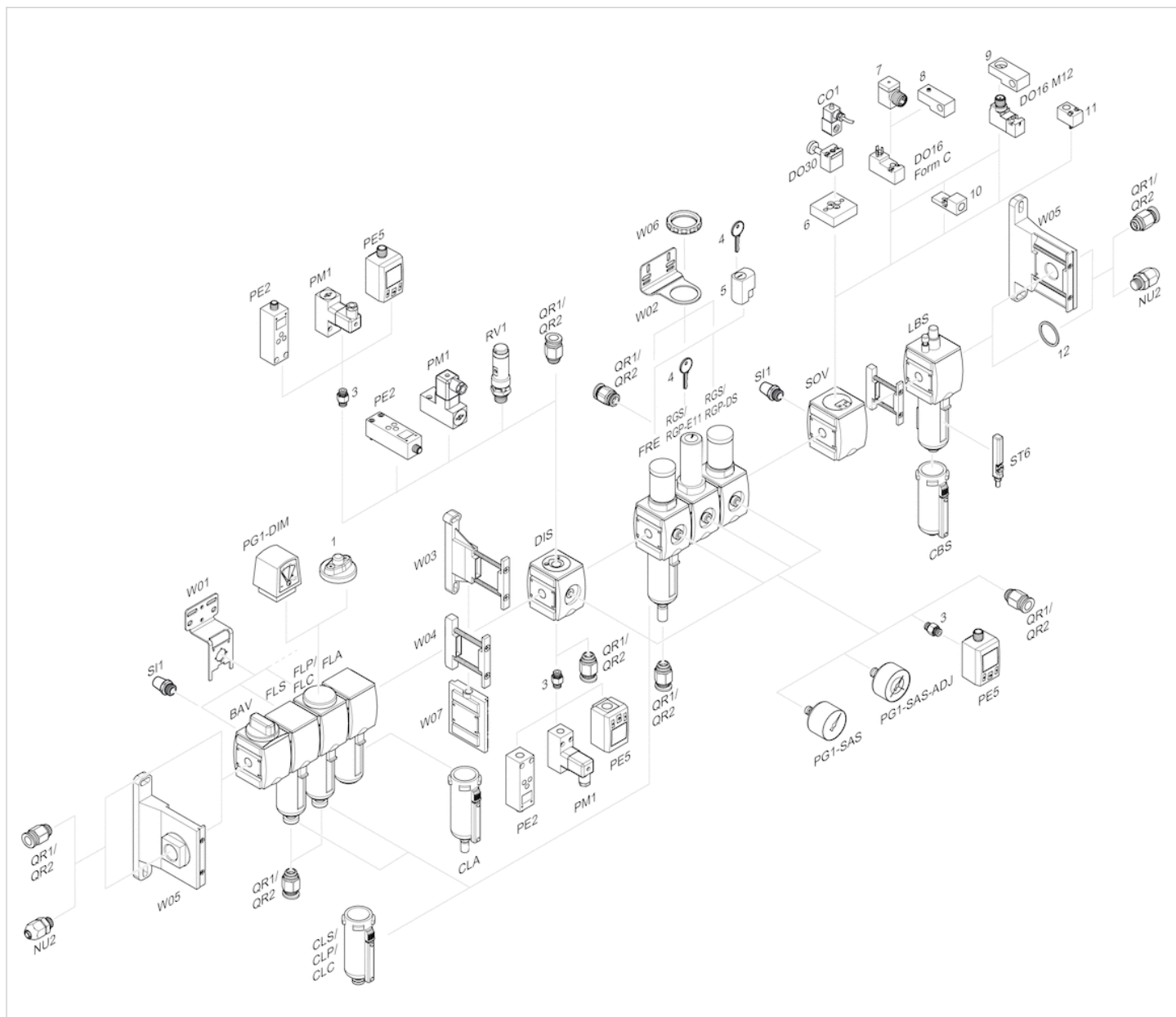
Pin assignment M12x1



3: +/-

4: +/-

Accessories overview



1 = contamination display

- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 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
- 12 = Sealing ring