



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

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



Type Poppet valve, Can be assembled into

blocks

See table below

Parts 3/2-directional valve, electrically operated

Nominal flow See table below

Nominal flow 1 ▶ 2

2000 I/min

Nominal flow 2 ▶ 3

380 I/min

Working pressure min./max. See table below

Medium Compressed air Neutral gases

Medium temperature min./max.  $-10 \dots 50 \,^{\circ}\text{C}$ Ambient temperature min./max.  $-10 \dots 50 \,^{\circ}\text{C}$ Sealing principle Soft sealing
Max. particle size  $25 \, \mu\text{m}$ 

Protection class acc. to DIN EN 61140

with plug

Weight 0,219 kg

#### Technical data

Part No.			Compressed air connection input	Compressed air connection output	Exhaust
R412006264	21 13 13	_	G 1/4	G 1/4	G 1/4
R412006268	2 1 3 W	_	G 3/8	G 3/8	G 1/4
R412006258	LT 3W	_	G 1/4	G 1/4	G 1/4
R412006259	2 1 3 W	_	G 3/8	G 3/8	G 1/4
R412006265	₹₽₽₽₩		G 1/4	G 1/4	G 1/4
R412006266	₹₽ŢŢw		G 1/4	G 1/4	G 1/4
R412006267	₹₽₽₽₩		G 1/4	G 1/4	G 1/4
R412006269	₹₽ŢŢw		G 3/8	G 3/8	G 1/4
R412006270	₹₽₽₽₩		G 3/8	G 3/8	G 1/4
R412006271	₹₽ŢŢw		G 3/8	G 3/8	G 1/4
R412006380	₹ T		G 1/4	G 1/4	G 1/4
R412006381	₹ 1 1 1 1 m		G 3/8	G 3/8	G 1/4

Part No.	Operational voltage DC	Operational voltage AC 50 Hz	Operational voltage 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 DC	Operational voltage AC 50 Hz	Operational voltage 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 I/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	-	



Part No.	Electrical connection Pilot valve	Connector standard
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. 2	1)
R412006258	-	Fig. 3	1)
R412006259	-	Fig. 4	1)
R412006265	Protected against polarity reversal	Fig. 5	-
R412006266	Protected against polarity reversal	Fig. 5	-
R412006267	Protected against polarity reversal	Fig. 5	-
R412006269	Protected against polarity reversal	Fig. 6	-
R412006270	Protected against polarity reversal	Fig. 6	-
R412006271	Protected against polarity reversal	Fig. 6	-
R412006380	-	Fig. 7	-
R412006381	-	Fig. 8	-

Nominal flow Qn with secondary pressure p2 = 6 bar at  $\Delta p$  = 1 bar

#### Technical information

The pressure dew point must be at least 15  $^{\circ}$ C under ambient and medium temperature and may not exceed 3  $^{\circ}$ C .

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

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

<sup>1)</sup> Suitable for use in Ex zones 1, 2, 21, 22.

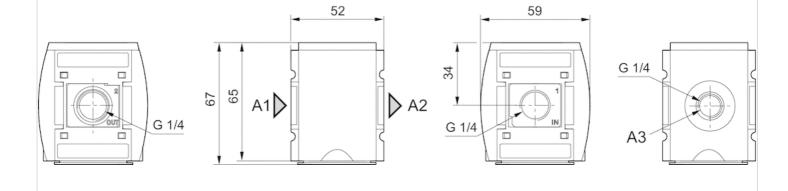




Material	
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

#### Dimensions

Dimensions in mm, Fig. 1, 3/2-directional valve without pilot valve with porting configuration for series DO16



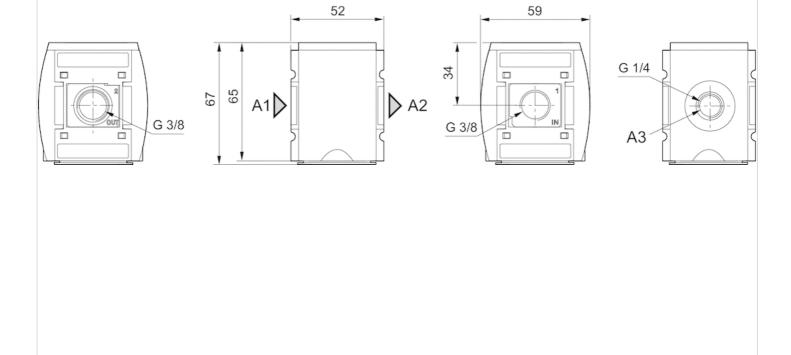
A1 = input

A2 = output





Dimensions in mm, Fig. 2, 3/2-directional valve without pilot valve with porting configuration for series DO16

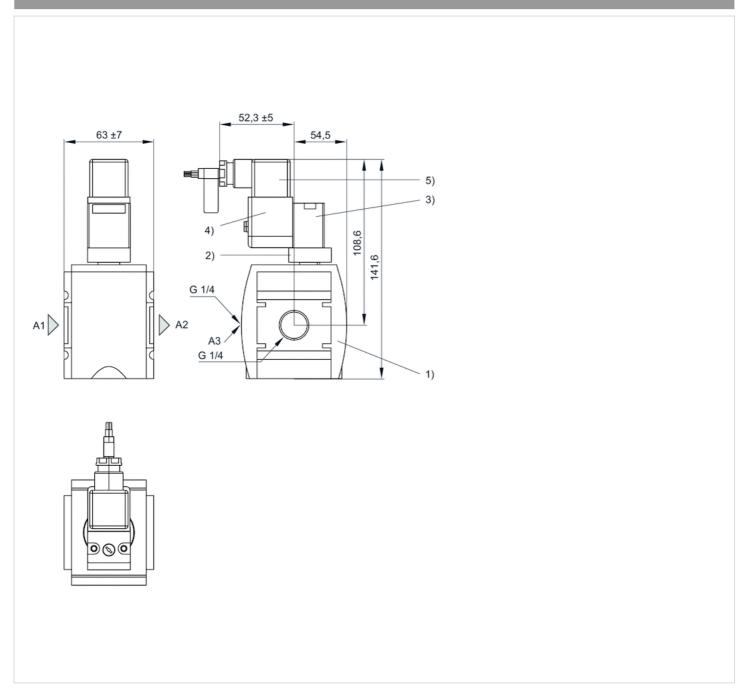


A1 = input

A2 = output



# Dimensions in mm, Fig. 3, 3/2 directional valve with transition plate (suitable for ATEX)



A1 = input

A2 = output

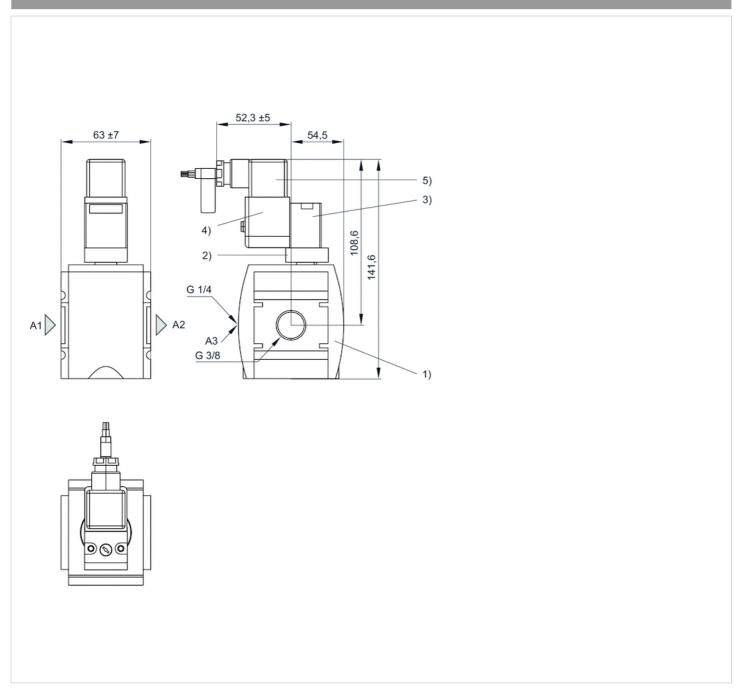
A3 = ventilation port

- 1) Shut-off valve
- 2) Transition plate
- 3) Pilot valve
- 4) Coil
- 5) Electrical connector

See accessories for pilot valve and coil



# Dimensions in mm, Fig. 4, 3/2 directional valve with transition plate (suitable for ATEX)



A1 = input

A2 = output

A3 = ventilation port

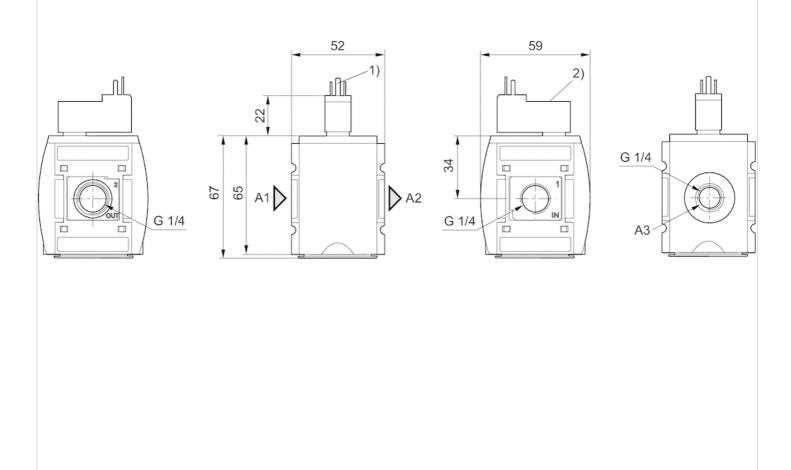
- 1) Shut-off valve
- 2) Transition plate
- 3) Pilot valve
- 4) Coil
- 5) Electrical connector

See accessories for pilot valve and coil





Dimensions in mm, Fig. 5, 3/2-directional valve with pilot valve and port for electrical connector form C



A1 = input

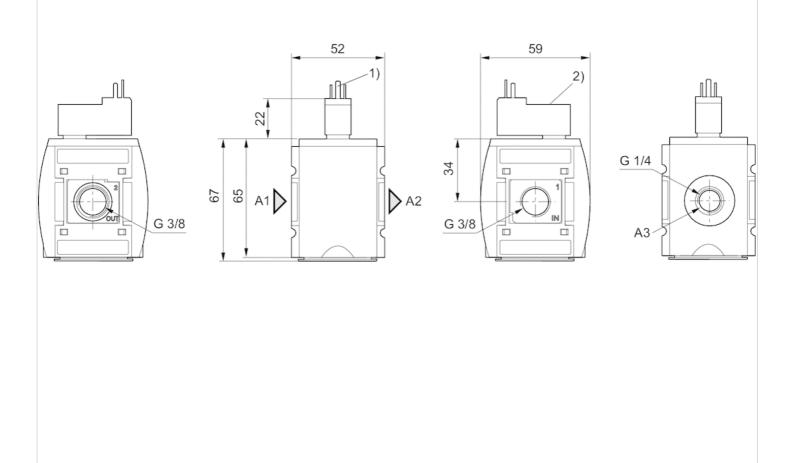
A2 = output

- 1) For valve plug connectors according to ISO 15217 (form C)
- 2) Manual override





Dimensions in mm, Fig. 6, 3/2-directional valve with pilot valve and port for electrical connector form C



A1 = input

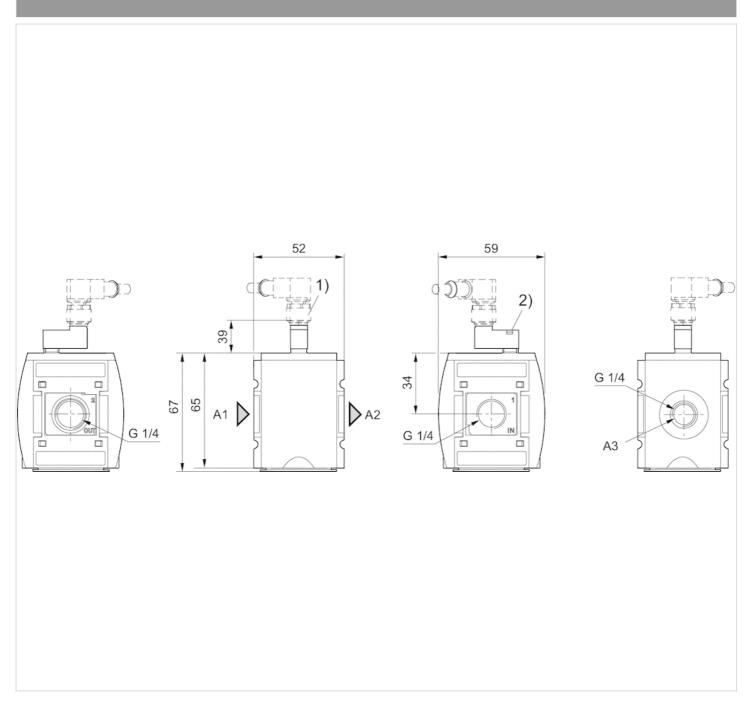
A2 = output

- 1) For valve plug connectors according to ISO 15217 (form C)
- 2) Manual override





# Dimensions in mm, Fig. 7, 3/2-directional valve with pilot valve, push-in fitting M12x1



A1 = input

A2 = output

A3 = ventilation port

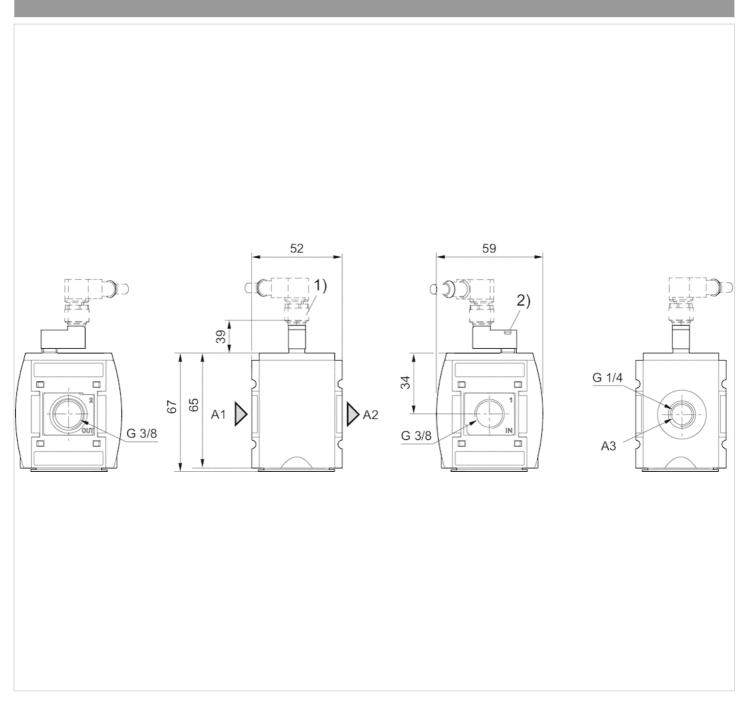
1) plug M12

2) Manual override





# Dimensions in mm, Fig. 8, 3/2-directional valve with pilot valve, push-in fitting M12x1



A1 = input

A2 = output

A3 = ventilation port

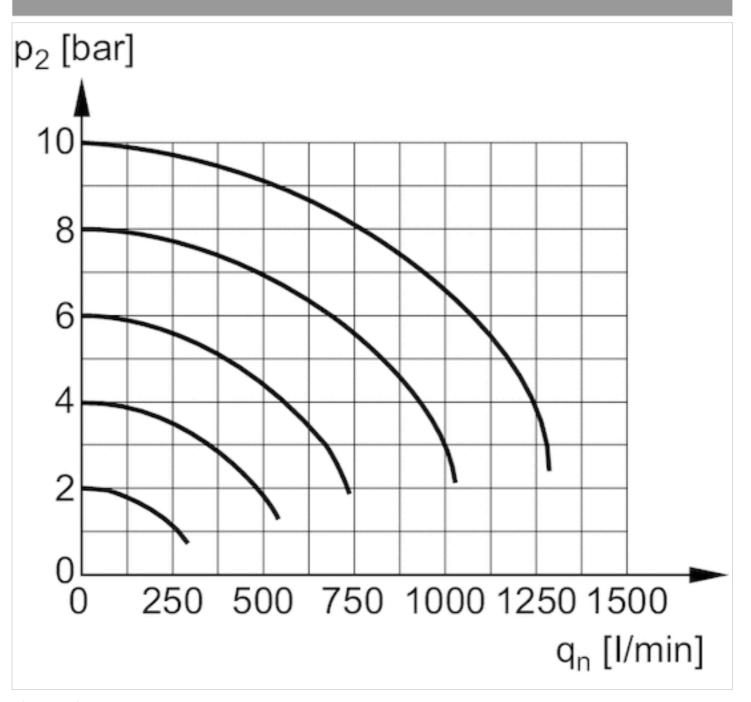
1) plug M12

2) Manual override



## Diagrams

#### Rear exhaus

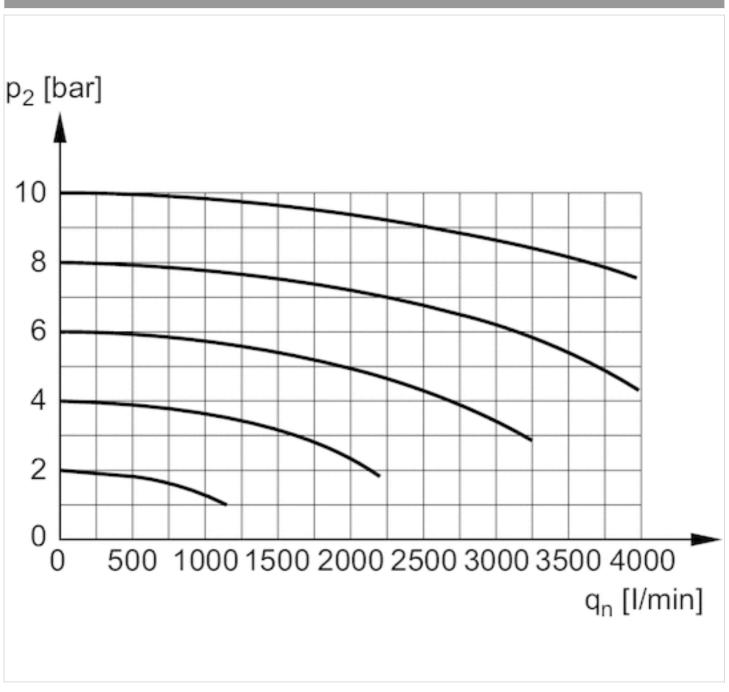


p2 = secondary pressure qn = nominal flow





#### Flow rate characteristic



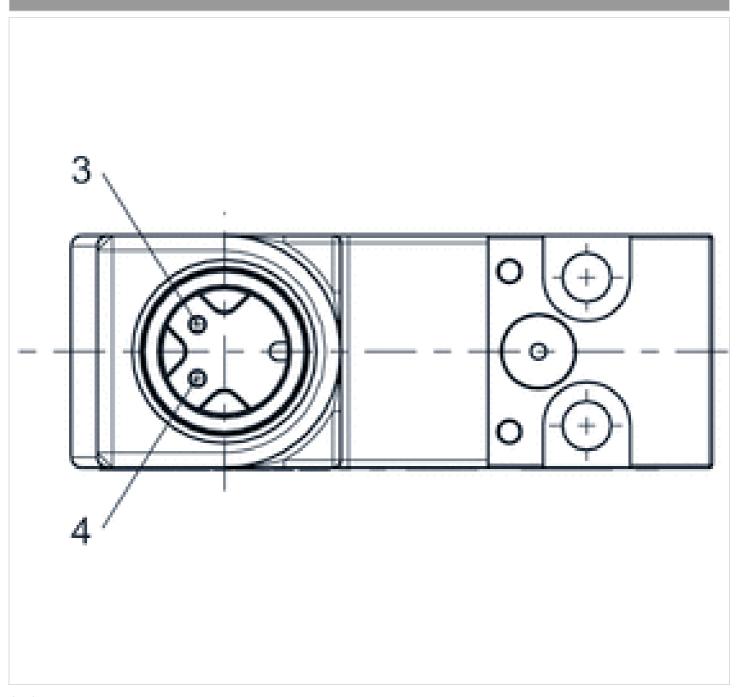
p2 = secondary pressure

qn = nominal flow



# Pin assignments

#### Pin assignment M12x1

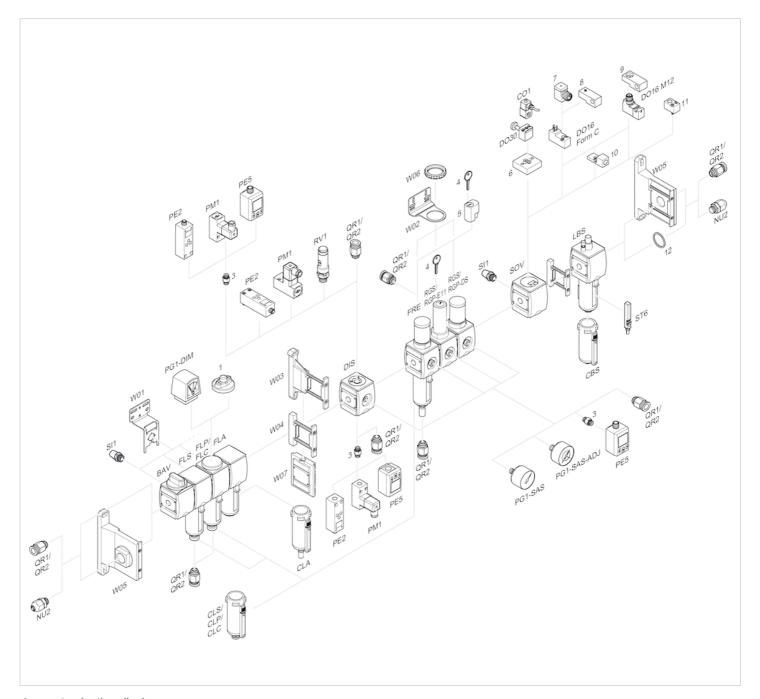


3: +/-

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

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