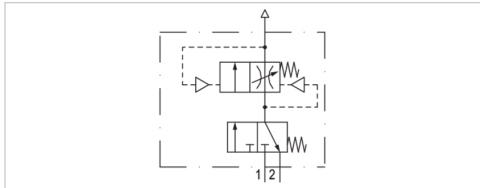




















# Filling unit, electrically operated, Series AS2-SSU

- Compressed air connection G 1/4
- Pipe connection
- suitable for ATEX
- suitable for ATEX



Version	Poppet valve, Can be assembled into blocks
Parts	Filling valve, 3/2-directional valve, electrically operated
Nominal flow	1300 l/min
Nominal flow 1 ▶ 2	1300 l/min
Nominal flow 2 ▶ 3	380 l/min
Working pressure min./max.	2,5 ... 10 bar
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
Protection class acc. to DIN EN 61140 with plug	IP65
Duty cycle	100 %
Weight	0,424 kg

## Technical data

Part No.			Compressed air connection input	Compressed air connection output	Exhaust
R412006277		—	G 1/4	G 1/4	G 1/4
R412006282		—	G 3/8	G 3/8	G 1/4
R412006286		—	G 1/4	G 1/4	G 1/4
R412006287		—	G 3/8	G 3/8	G 1/4
R412006278			G 1/4	G 1/4	G 1/4
R412006279			G 1/4	G 1/4	G 1/4
R412006280			G 1/4	G 1/4	G 1/4
R412006383			G 1/4	G 1/4	G 1/4
R412006283			G 3/8	G 3/8	G 1/4
R412006284			G 3/8	G 3/8	G 1/4
R412006285			G 3/8	G 3/8	G 1/4

Part No.	Operationalvoltage		Operationalvoltage		Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC	
R412006277	-	-	-	-	
R412006282	-	-	-	-	
R412006286	-	-	-	-	
R412006287	-	-	-	-	
R412006278	24 V	-	-	2 W	
R412006279	-	110 V	110 V	-	

Part No.	Operationalvoltage		Operationalvoltage		Power consumption
	DC	AC 50 Hz	AC 60 Hz	AC 60 Hz	DC
R412006280	-	220 V	230 V	230 V	-
R412006383	24 V	-	-	-	2 W
R412006283	24 V	-	-	-	2 W
R412006284	-	110 V	110 V	110 V	-
R412006285	-	220 V	230 V	230 V	-

Part No.	Holding power		Switch-on power	
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
R412006277	-	-	-	-
R412006282	-	-	-	-
R412006286	-	-	-	-
R412006287	-	-	-	-
R412006278	-	-	-	-
R412006279	1,6 VA	1,4 VA	2,2 VA	1,6 VA
R412006280	1,6 VA	1,4 VA	2,2 VA	1,6 VA
R412006383	-	-	-	-
R412006283	-	-	-	-
R412006284	1,6 VA	1,4 VA	2,2 VA	1,6 VA
R412006285	1,6 VA	1,4 VA	2,2 VA	1,6 VA

Part No.	Electrical connection		Connector standard
	Pilot valve		
R412006277	-		-
R412006282	-		-
R412006286	-		-
R412006287	-		-
R412006278	Plug, ISO 15217, form C		ISO 15217
R412006279	Plug, ISO 15217, form C		ISO 15217
R412006280	Plug, ISO 15217, form C		ISO 15217
R412006383	Plug, M12x1		-
R412006283	Plug, ISO 15217, form C		ISO 15217
R412006284	Plug, ISO 15217, form C		ISO 15217
R412006285	Plug, ISO 15217, form C		ISO 15217

Part No.	basic valve with electrical connector
R412006277	Basic valve without pilot valve
R412006282	Basic valve without pilot valve
R412006286	Basic valve without pilot valve, with CNOMO subbase
R412006287	Basic valve without pilot valve, with CNOMO subbase
R412006278	Basic valve with pilot valve
R412006279	Basic valve with pilot valve
R412006280	Basic valve with pilot valve
R412006383	Basic valve with pilot valve
R412006283	Basic valve with pilot valve
R412006284	Basic valve with pilot valve
R412006285	Basic valve with pilot valve

## Technical information

### 2) IP65

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

Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.

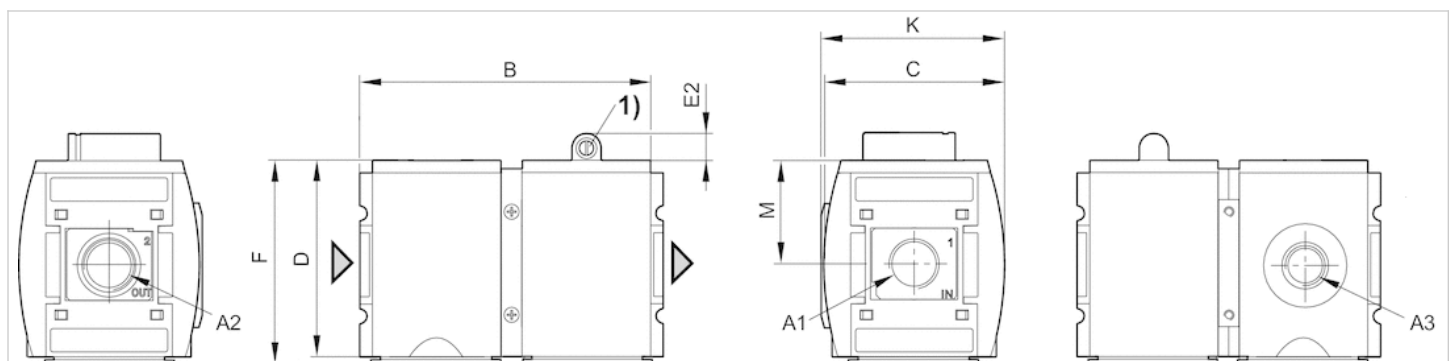
Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

## Technical information

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

## Dimensions

Fig. 1: Filling unit without pilot valve with porting configuration for series D016



A1 = input A2 = output

A3 = ventilation port

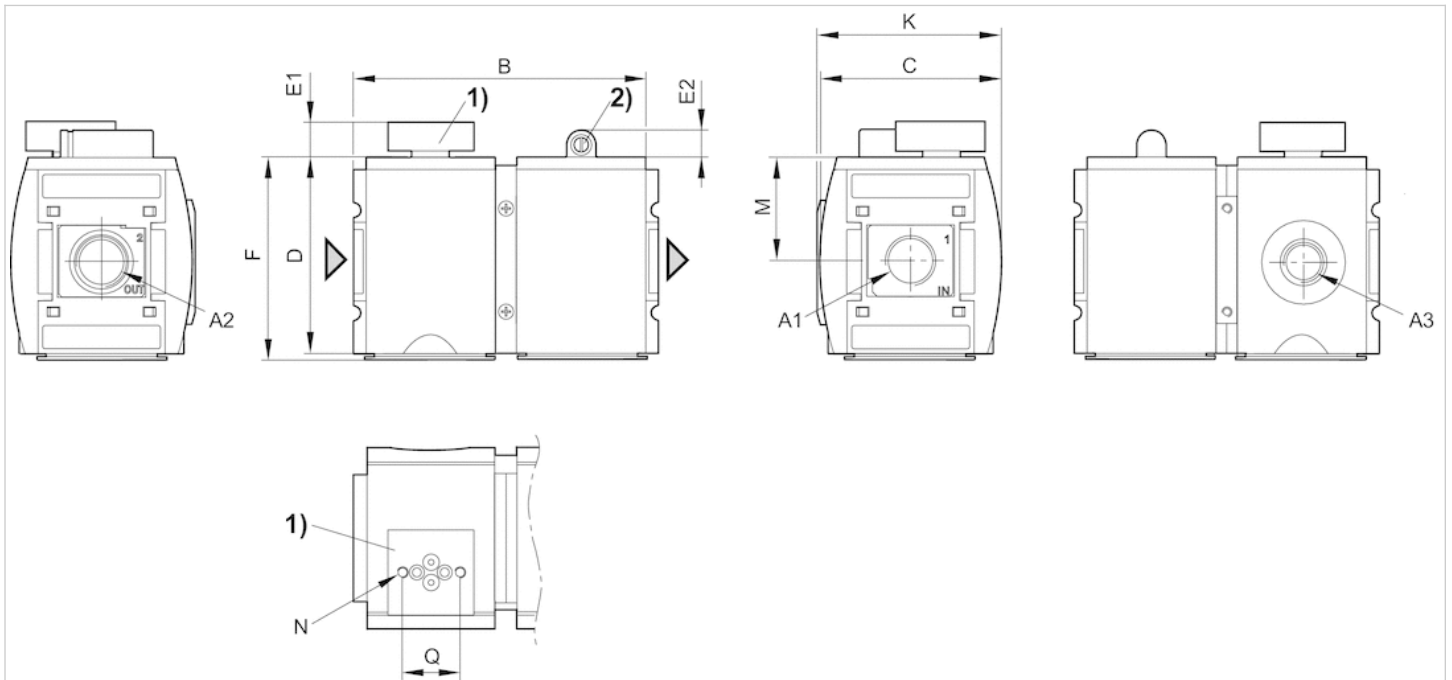
1) Adjustment screw for filling time

## Dimensions in mm

A1	A2	A3	B	C	D	E2	F	K	M
G 1/4	G 1/4	G 1/4	104	59	65	11	67	60.9	34
G 3/8	G 3/8	G 1/4	104	59	65	11	67	60.5	34

## Dimensions

Fig. 2: Filling unit 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

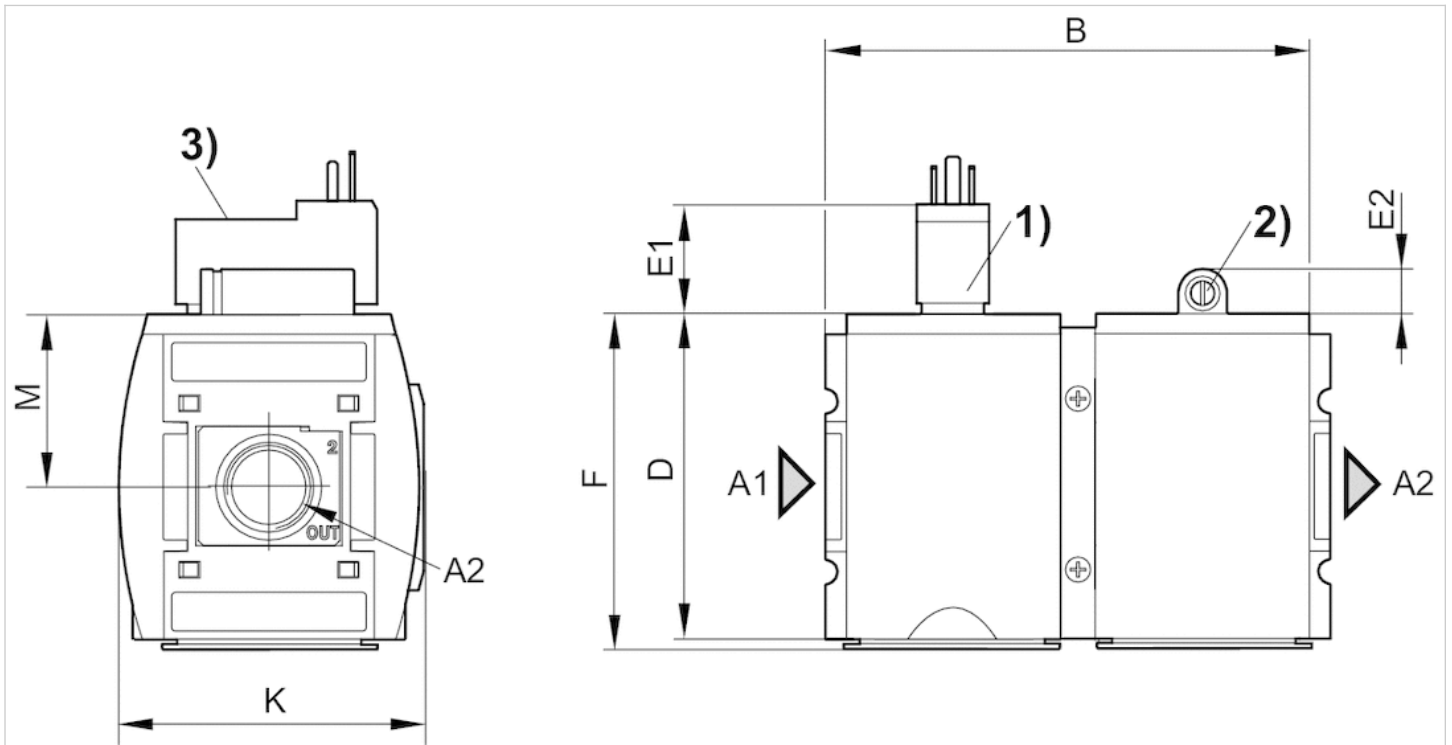
2) Adjustment screw for filling time

### Dimensions in mm

A1	A2	A3	B	C	D	E1	E2	F	K	M	N	Q
G 1/4	G 1/4	G 1/4	104	59	65	11	11	67	60.9	34	M4	21
G 3/8	G 3/8	G 1/4	104	59	65	11	11	67	60.5	34	M4	21

## Dimensions

Fig. 3: Filling unit with pilot valve and port for electrical connector form C



A1 = input A2 = output

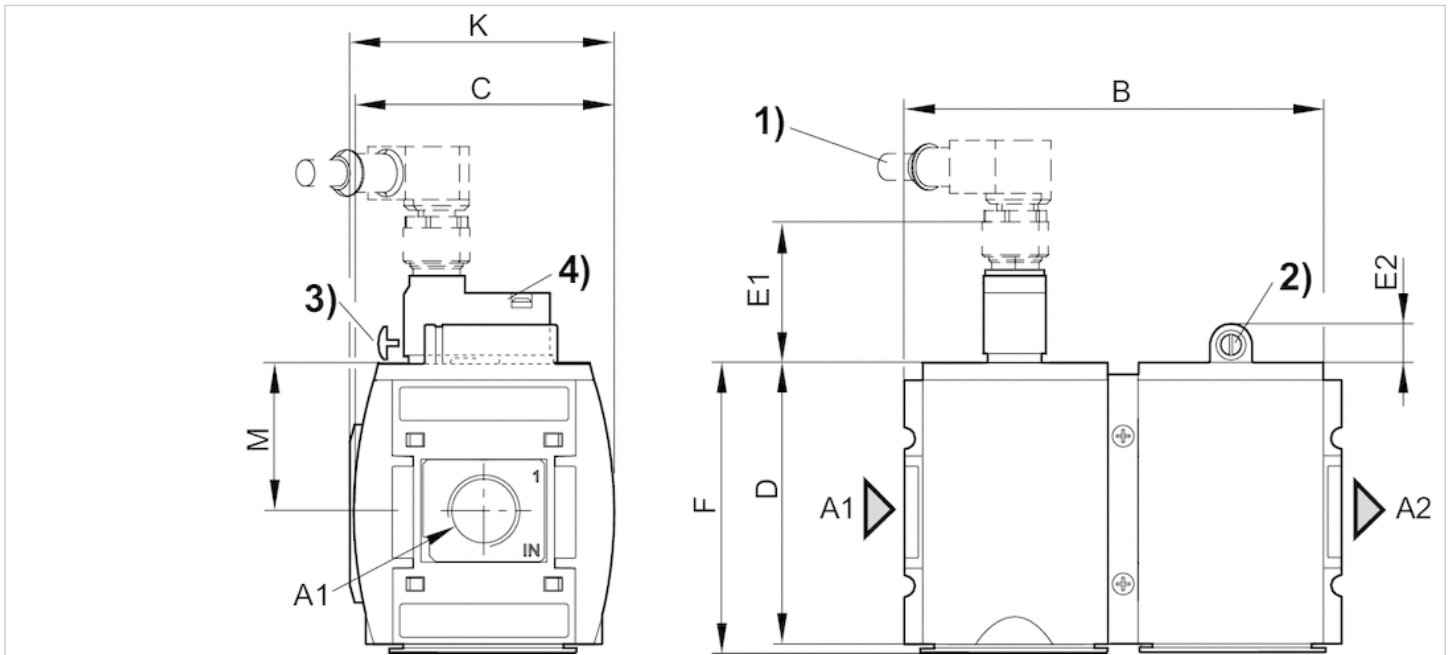
- 1) Connection for valve plug connector according to ISO 15217 (form C)
- 2) Adjustment screw for filling time
- 3) Manual override

## Dimensions in mm

A1	A2	B	D	E1	E2	F	K	M
G 1/4	G 1/4	104	65	22	11	67	60.9	34
G 3/8	G 3/8	104	65	22	11	67	60.9	34

## Dimensions

Fig. 4: Filling unit with pilot valve push-in fitting M12x1



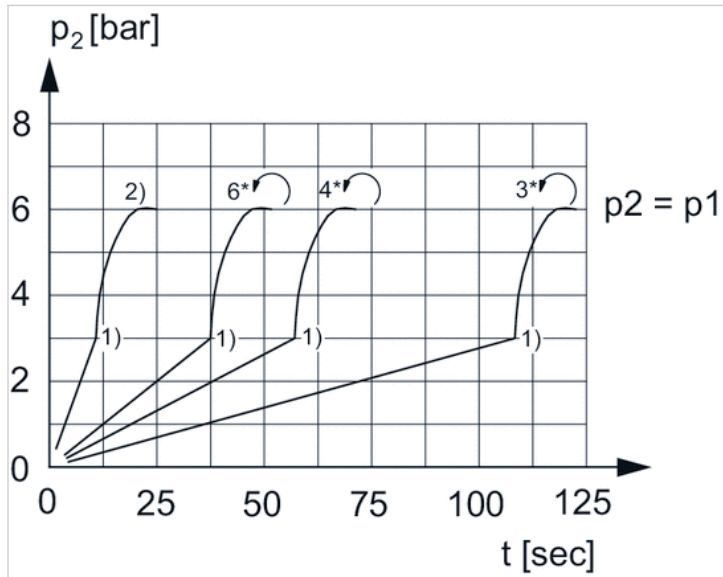
- A1 = input A2 = output  
 1) Port for plug M12x1  
 2) Adjustment screw for filling time  
 3) Adjustment screw lock  
 4) Manual override

## Dimensions in mm

A1	A2	B	C	D	E1	E2	F	K	M
G 1/4	G 1/4	104	59	65	39	11	67	60.9	34

## Diagrams

### Secondary pressure while filling



p1 = working pressure

p2 = secondary pressure

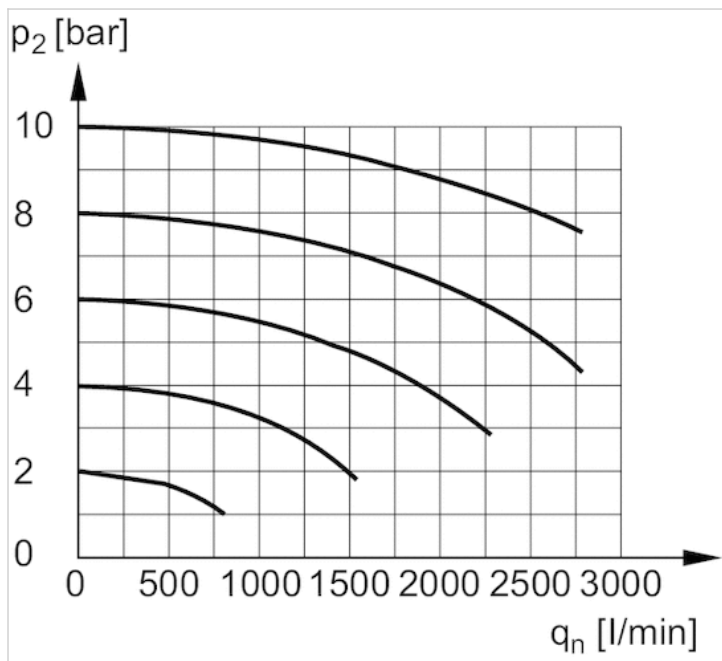
t = filling time, adjustable via adjustment screw (throttle)

1) Switching point: adjustable filling time, fixed change-over pressure  $\approx 0.5 \times p1$  (50%)

2) Throttle fully opened

\* Adjustment screw rotations

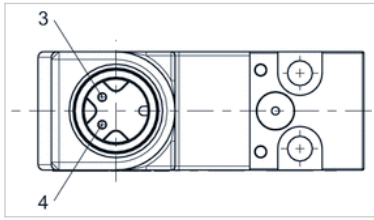
### Flow rate characteristic



p2 = secondary pressure  
qn = nominal flow

## Pin assignments

### Pin assignment M12x1



3: +/-

4: +/-