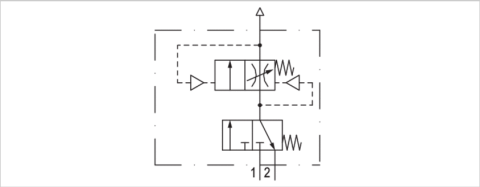
UK Office
5 Caulside Drive
Antrim
BT41 2DU
United Kingdom
+44 (0) 28 9448 1808

European Office
Unit 6, Saint Anthony's Business Park
Dublin
D22 VW95
Ireland
+353 (0) 1 4373653

Filling unit, electrically operated, Series AS3-SSU

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



Version	Poppet valve, Can be assembled into blocks
Parts	Filling valve, 3/2-directional valve, electrically operated
Nominal flow	3500 l/min
Nominal flow 1 ▸ 2	3500 l/min
Nominal flow 2 ▸ 3	3200 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	See table

Technical data

Part No.			Compressed air connection input	Compressed air connection output	Exhaust
R412007277		–	G 3/8	G 3/8	G 1/2
R412007286		–	G 3/8	G 1/2	G 1/2
R412007282		–	G 1/2	G 1/2	G 1/2
R412007287		–	G 1/2	G 1/2	G 1/2
R412007278			G 3/8	G 3/8	G 1/2
R412007279			G 3/8	G 3/8	G 1/2
R412007280			G 3/8	G 3/8	G 1/2
R412007394			G 1/2	-	G 1/2
R412007283			G 1/2	G 1/2	G 1/2
R412007284			G 1/2	G 1/2	G 1/2
R412007285			G 1/2	G 1/2	G 1/2

Part No.	Operationalvoltage	Operationalvoltage	Operationalvoltage	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
R412007277	-	-	-	-
R412007286	-	-	-	-
R412007282	-	-	-	-
R412007287	-	-	-	-
R412007278	24 V	-	-	2 W
R412007279	-	110 V	110 V	-
R412007280	-	220 V	230 V	-

UK Office
5 Caulside Drive
Antrim
BT41 2DU
United Kingdom
+44 (0) 28 9448 1808

European Office
Unit 6, Saint Anthony's Business Park
Dublin
D22 VW95
Ireland
+353 (0) 1 4373653

Part No.	Operationalvoltage	Operationalvoltage	Operationalvoltage	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
R412007394	24 V	-	-	2 W
R412007283	24 V	-	-	2 W
R412007284	-	110 V	110 V	-
R412007285	-	220 V	230 V	-

Part No.	Holding power	Holding power	Switch-on power	Switch-on power
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
R412007277	-	-	-	-
R412007286	-	-	-	-
R412007282	-	-	-	-
R412007287	-	-	-	-
R412007278	-	-	-	-
R412007279	1,6 VA	1,4 VA	2,2 VA	1,6 VA
R412007280	1,6 VA	1,4 VA	2,2 VA	1,6 VA
R412007394	-	-	-	-
R412007283	-	-	-	-
R412007284	1,6 VA	1,4 VA	2,2 VA	1,6 VA
R412007285	1,6 VA	1,4 VA	2,2 VA	1,6 VA

Part No.	Electrical connection	Connector standard
	Pilot valve	
R412007277	-	-
R412007286	-	-
R412007282	-	-
R412007287	-	-
R412007278	Plug, ISO 15217, form C	ISO 15217
R412007279	Plug, M12x1	-
R412007280	Plug, ISO 15217, form C	ISO 15217
R412007394	Plug, M12x1	-
R412007283	Plug, ISO 15217, form C	ISO 15217
R412007284	Plug, ISO 15217, form C	ISO 15217
R412007285	Plug, ISO 15217, form C	ISO 15217

Part No.	basic valve with electrical connector
R412007277	Basic valve without pilot valve
R412007286	Basic valve without pilot valve, with CNOMO subbase
R412007282	Basic valve without pilot valve
R412007287	Basic valve without pilot valve, with CNOMO subbase
R412007278	Basic valve with pilot valve
R412007279	Basic valve with pilot valve
R412007280	Basic valve with pilot valve
R412007394	Basic valve with pilot valve
R412007283	Basic valve with pilot valve
R412007284	Basic valve with pilot valve
R412007285	Basic valve with pilot valve

UK Office
5 Caulside Drive
Antrim
BT41 2DU
United Kingdom
+44 (0) 28 9448 1808

European Office
Unit 6, Saint Anthony's Business Park
Dublin
D22 VW95
Ireland
+353 (0) 1 4373653

Technical information

2) With adjustment screw lock

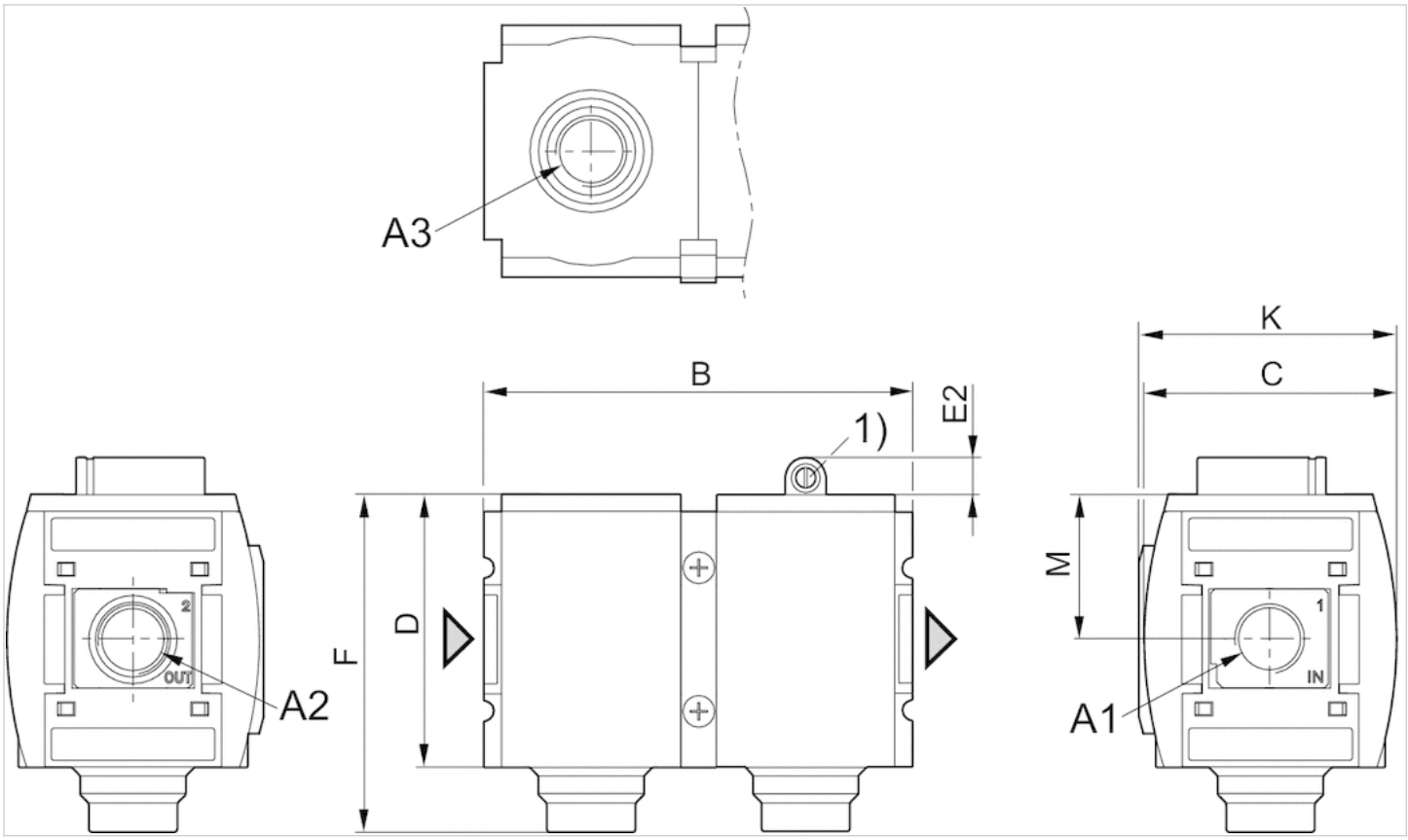
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.
ATEX optional: The ATEX ID depends on the selected pilot valve.
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.
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.

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 DO16



A1 = inputA2 = output
1) Adjustment screw for filling time

UK Office
5 Caulside Drive
Antrim
BT41 2DU
United Kingdom
+44 (0) 28 9448 1808

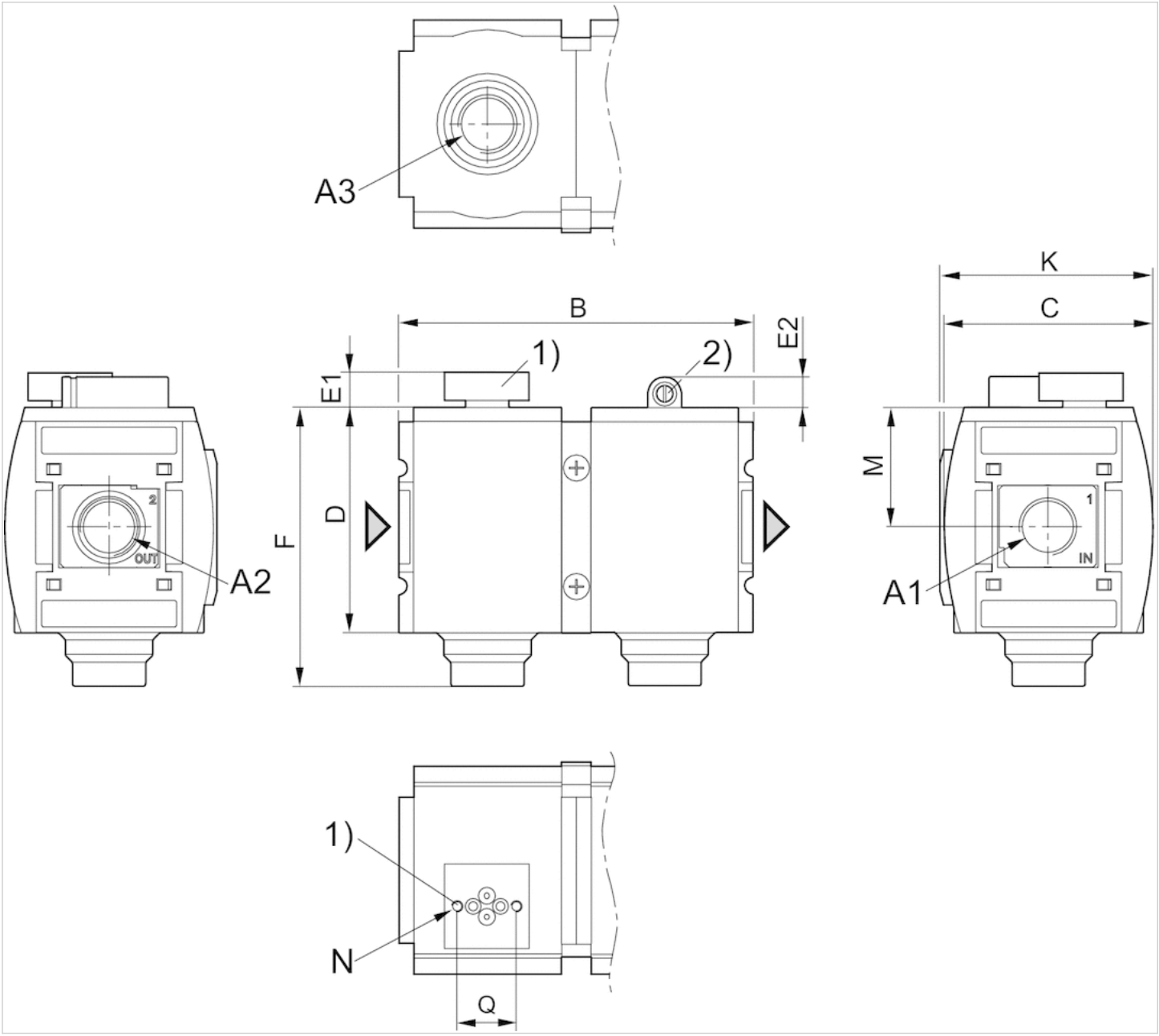
European Office
Unit 6, Saint Anthony's Business Park
Dublin
D22 VW95
Ireland
+353 (0) 1 4373653

Dimensions in mm

A1	A2	A3	B	C	D	E2	F	K	M
G 3/8	G 3/8	G 1/2	125.75	74	80	11	99	75.5	42.5
G 1/2	G 1/2	G 1/2	125.75	74	80	11	99	75.5	42.5

Dimensions

Fig. 2: Filling unit with transition plate for pilot valve series DO30



A1 = inputA2 = outputA3 = ventilation port
1) Transition plate with CNOMO porting configuration for pilot valve DO30
2) Adjustment screw for filling time

UK Office
5 Caulside Drive
Antrim
BT41 2DU
United Kingdom
+44 (0) 28 9448 1808

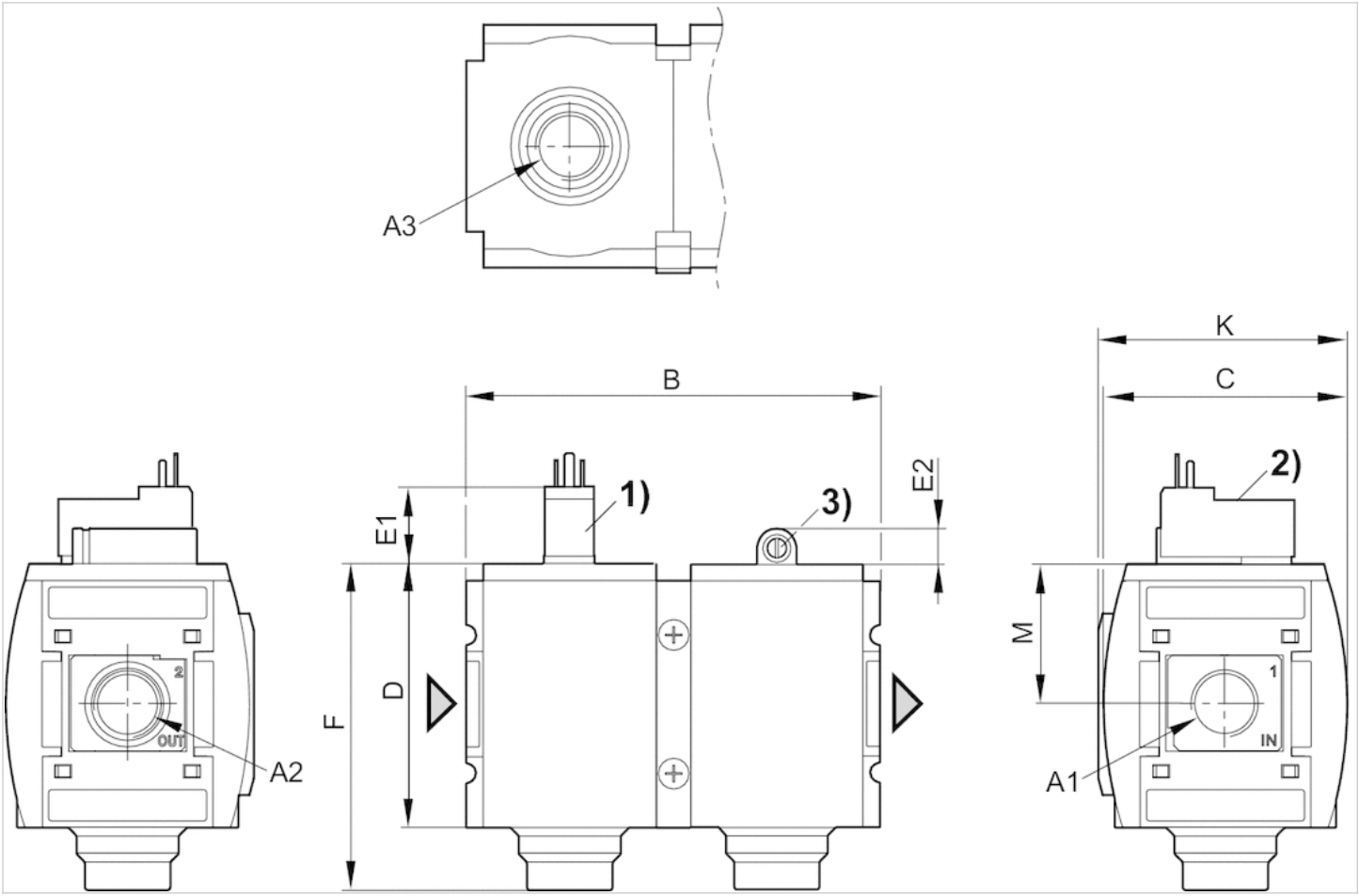
European Office
Unit 6, Saint Anthony's Business Park
Dublin
D22 VW95
Ireland
+353 (0) 1 4373653

Dimensions in mm

A1	A2	A3	B	C	D	E1	E2	F	K	M	N	Q
G 3/8	G 3/8	G 1/2	125.75	74	80	12.3	11	99	75.5	42.5	M4	21
G 1/2	G 1/2	G 1/2	125.75	74	80	12.3	11	99	75.5	42.5	M4	21

Dimensions

Fig. 3: Filling unit with pilot valve and port for valve plug connector



A1 = inputA2 = outputA3 = ventilation port
1) Connection for valve plug connector according to ISO 15217 (form C)
2) Manual override
3) Adjustment screw for filling time

Dimensions in mm

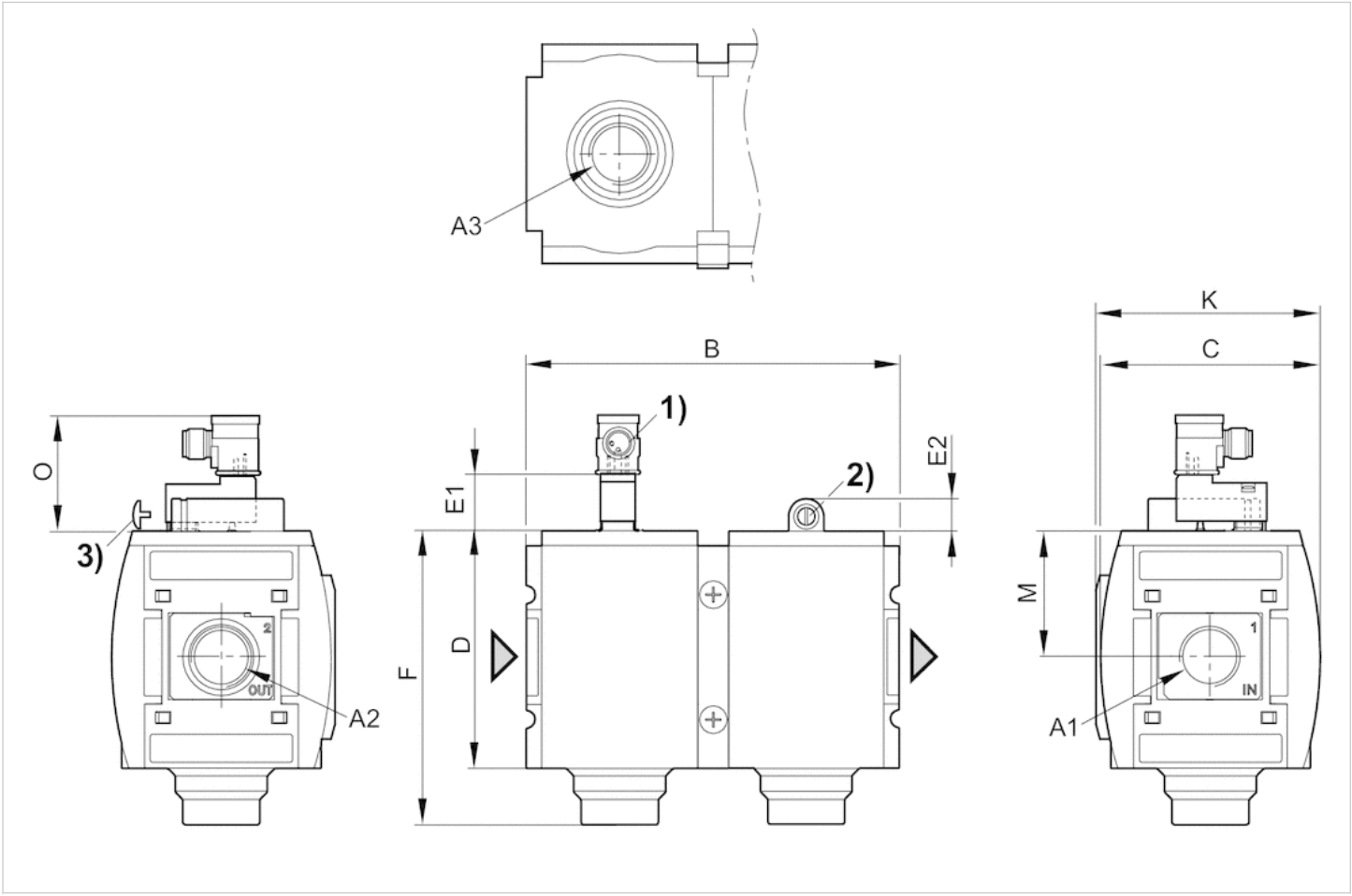
A1	A2	A3	B	C	D	E1	E2	F	K	M
G 3/8	G 3/8	G 1/2	125.75	74	80	23.2	11	99	75.5	42.5
G 1/2	G 1/2	G 1/2	125.75	74	80	23.2	11	99	75.5	42.5

UK Office
5 Caulside Drive
Antrim
BT41 2DU
United Kingdom
+44 (0) 28 9448 1808

European Office
Unit 6, Saint Anthony's Business Park
Dublin
D22 VW95
Ireland
+353 (0) 1 4373653

Dimensions

Fig. 4: Filling unit with pilot valve and valve plug connector for plug



A1 = inputA2 = outputA3 = ventilation port
1) Port for plug M12x1
2) Adjustment screw for filling time
3) Adjustment screw lock

Dimensions in mm

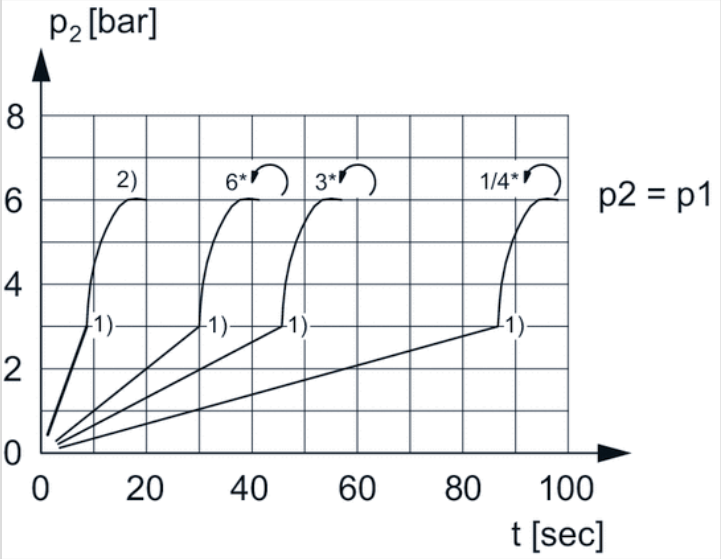
A1	A2	A3	B	C	D	E1	E2	F	K	M
G 1/2	G 1/2	G 1/2	125.75	74	80	39	11	99	75.5	42.5

UK Office
5 Caulside Drive
Antrim
BT41 2DU
United Kingdom
+44 (0) 28 9448 1808

European Office
Unit 6, Saint Anthony's Business Park
Dublin
D22 VW95
Ireland
+353 (0) 1 4373653

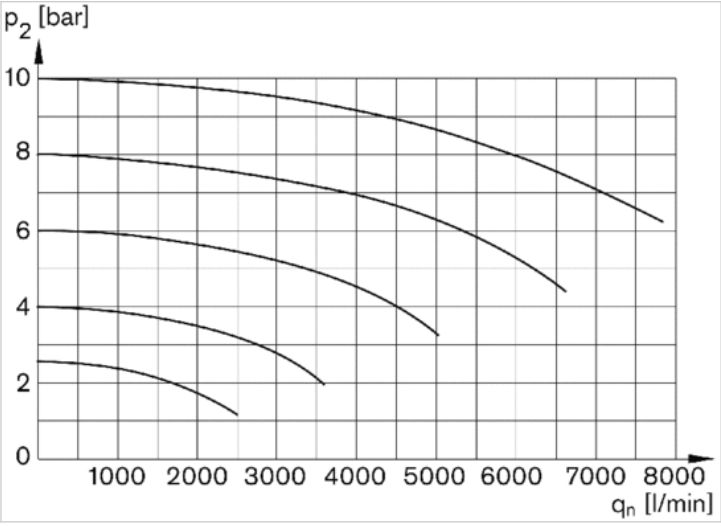
Diagrams

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 ≈ 0.5 x p1 (50%)
2) Throttle fully opened
* Adjustment screw rotations

Flow rate characteristic



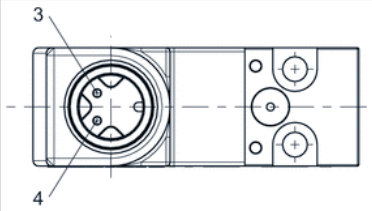
p2 = secondary pressureqn = nominal flow

UK Office
5 Caulside Drive
Antrim
BT41 2DU
United Kingdom
+44 (0) 28 9448 1808

European Office
Unit 6, Saint Anthony's Business Park
Dublin
D22 VW95
Ireland
+353 (0) 1 4373653

Pin assignments

Pin assignment M12x1



3: +/-
4: +/-