



- Multiple pressure ranges selectable
- Special adaptation to individual pressure ranges
- Setpoint value input as analogue voltage or current signal
- Optional setpoint module
- Connection sizes G $\frac{1}{8}$, G $\frac{1}{4}$, G $\frac{1}{2}$

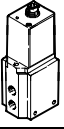
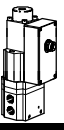
Proportional pressure regulators MPPE/MPPES

Product range overview



Proportional valves
Proportional pressure valves

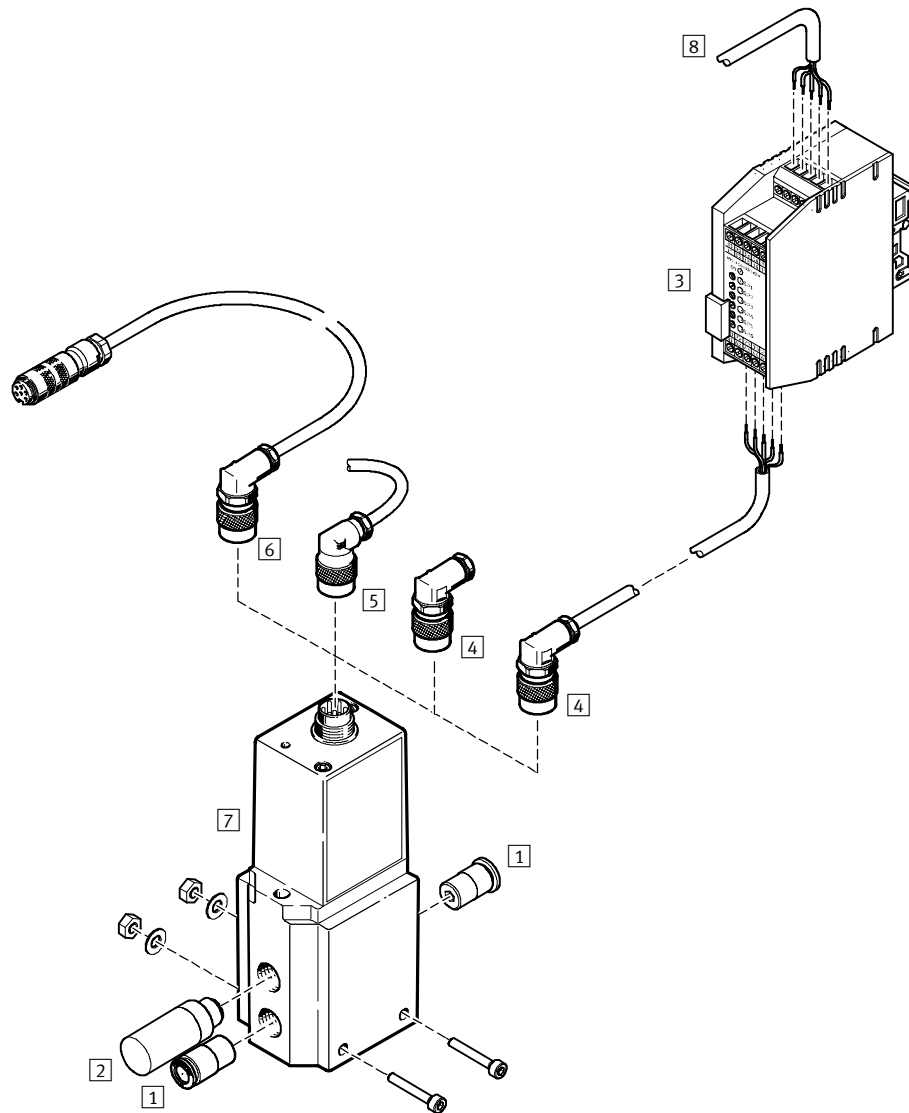
6.1

Function	Version	Type	Construc- tional design	Pneumatic connection 1	Nominal size Ventilation/ exhaust [mm]	Pressure regulation range ¹⁾ [bar]	Setpoint/actual values ¹⁾		→ Page
							Voltage type 0 ... 10 V	Current type 4 ... 20 mA	
Pressure regulators	with pilot control via 2x 2/2-way valves (switching valve)								
		MPPE	Pilot actuated poppet valve	G $\frac{1}{8}$	5/5	0 ... 1	■	■	2 / 6.1-5
				G $\frac{1}{4}$	7/7	0 ... 2.5	■	■	
				G $\frac{1}{2}$	11/12	0 ... 6 0 ... 10	■	■	
	with proportional solenoid								
		MPPES	Directly actuated piston regulator	G $\frac{1}{8}$	3/2	0 ... 2	■	■	2 / 6.1-11
G $\frac{1}{4}$				7/7	0 ... 6	■	■		
G $\frac{1}{2}$				11/12	0 ... 10	■	■		

1) Pressure regulation range and setpoint/actual values also by customer request

Proportional pressure regulators MPPE/MPPES

Peripherals overview



Accessories			
	Brief description	→ Page	
1	Push-in fitting QS	For connecting compressed air tubing with standard O.D.	Volume 3
2	Silencer	For fitting in exhaust ports	Volume 3
3	Setpoint value generator MPZ	For generating 6+1 analogue voltage signals	2 / 6.1-16
4	Angled plug socket MPPE-3-B	–	2 / 6.1-18
5	Angled plug socket with cable KMPE-B	–	2 / 6.1-18
6	Connecting cable KVIA-MPPE	–	2 / 6.1-18
7	Proportional pressure regulator MPPE	–	2 / 6.1-5
8	Digital input/output	For controlling the setpoint module	–

Proportional pressure regulators MPPE

Type codes

FESTO

Proportional valves
Proportional pressure valves

6.1

Basic version


MPPE		-	3	-	1/8	-	1	-	010	-	B
Type											
MPPE	Proportional pressure regulator with switching valve										
Valve function											
3	3/2-way valve										
Pneumatic connection											
1/8	G1/8										
1/4	G1/4										
1/2	G1/2										
Pressure regulation range											
1	0 ... 1 bar										
2.5	0 ... 2.5 bar										
6	0 ... 6 bar										
10	0 ... 10 bar										
Setpoint value input											
010	Analogue voltage signal										
420	Analogue current signal										
Generation											
B	B series										


Special pressure regulation range by customer request


MPPE		-	3	-	1/8	-	1	-	6	-	010	-	B
Type													
MPPE	Proportional pressure regulator with switching valve												
Valve function													
3	3/2-way valve												
Pneumatic connection													
1/8	G1/8												
1/4	G1/4												
1/2	G1/2												
Required pressure at 0 V or 4 mA [bar]													
Required pressure at 10 V or 20 mA [bar]													
Setpoint value input													
010	Analogue voltage signal												
420	Analogue current signal												
Generation													
B	B series												

Proportional pressure regulators MPPE

Technical data

-  - Flow rate
350 ... 5,500 l/min

-  - Voltage
18 ... 30 V DC

-  - Pressure regulation ranges
0 ... 1 bar
0 ... 2.5 bar
0 ... 6 bar
0 ... 10 bar

Variants

- Setpoint value input as analogue voltage signal 0 ... 10 V
- Setpoint value input as analogue current signal 4 ... 20 mA

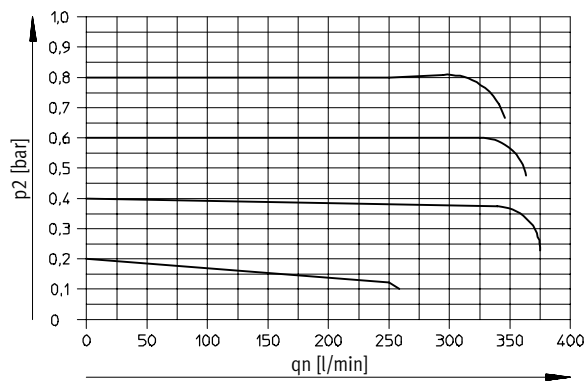


General technical data					
Pneumatic connection		G1/8	G1/4	G1/2	
Constructional design		Pilot actuated piston regulator			
Sealing principle		Soft			
Actuation type		Electrical			
Type of pilot control		Pilot actuated using 2/2-way valves			
Type of mounting		Via through-holes			
Mounting position		Any			
Nominal size	Ventilation	[mm]	5	7	11
	Exhaust	[mm]	5	7	12
Standard nominal flow rate		[l/min]	→ Diagrams		
Product weight		[g]	710	920	2,400

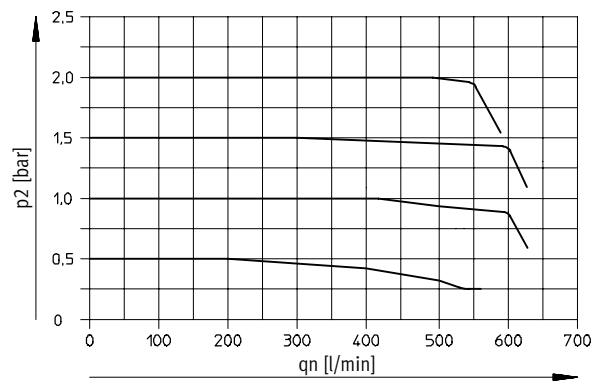
Flow rate qn as a function of the output pressure p2

Pneumatic connection G1/8

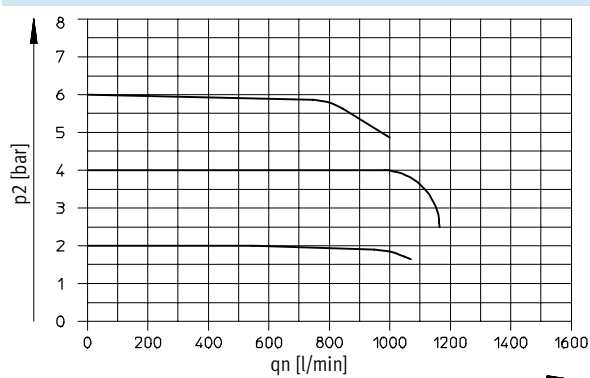
Pressure regulation range 0 ... 1 bar



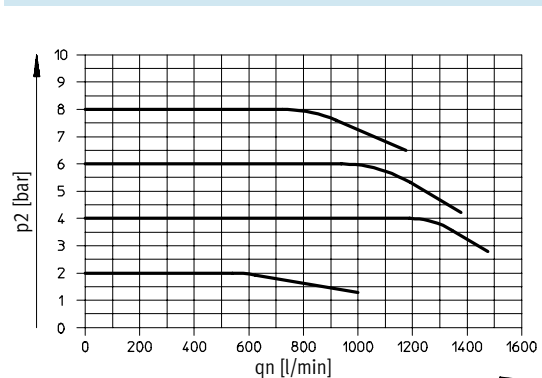
Pressure regulation range 0 ... 2.5 bar



Pressure regulation range 0 ... 6 bar



Pressure regulation range 0 ... 10 bar



Proportional pressure regulators MPPE

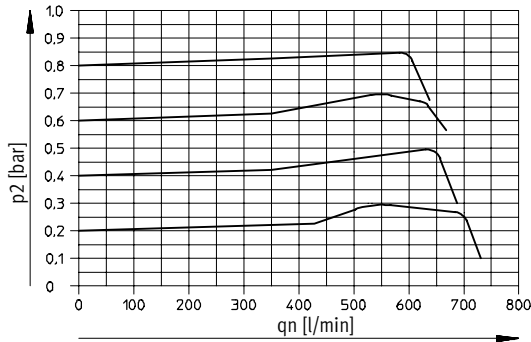
Technical data



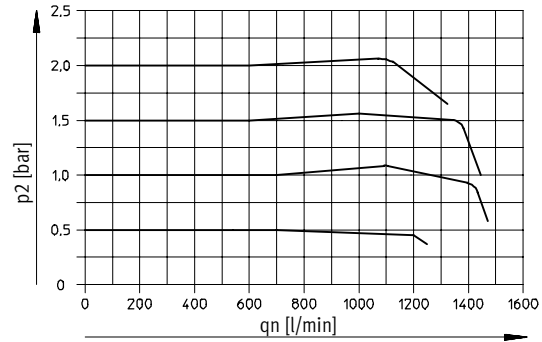
Flow rate q_n as a function of the output pressure p_2

Pneumatic connection G $\frac{1}{4}$

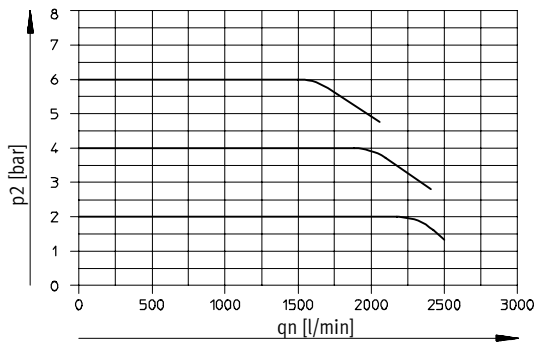
Pressure regulation range 0 ... 1 bar



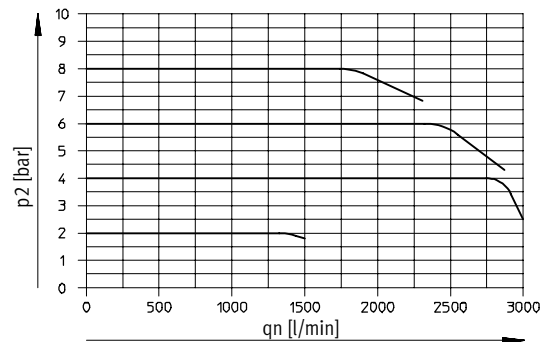
Pressure regulation range 0 ... 2.5 bar



Pressure regulation range 0 ... 6 bar

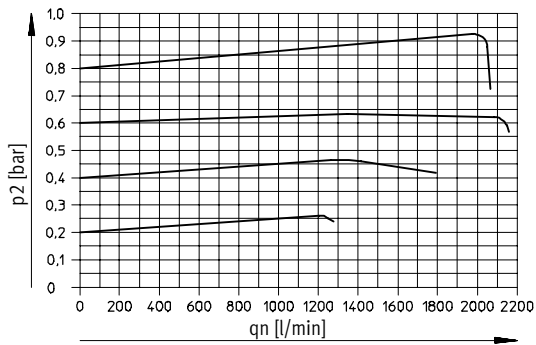


Pressure regulation range 0 ... 10 bar

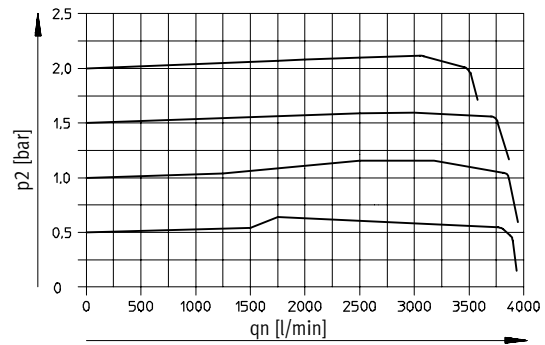


Pneumatic connection G $\frac{1}{2}$

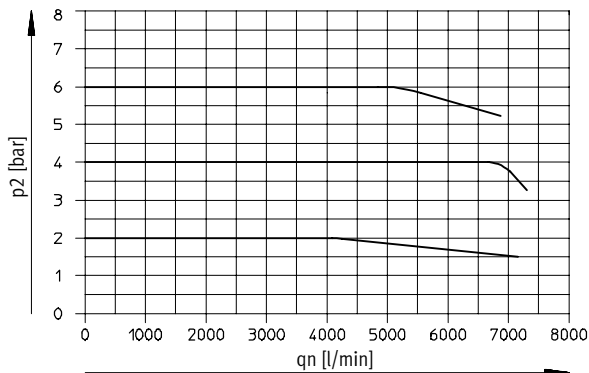
Pressure regulation range 0 ... 1 bar



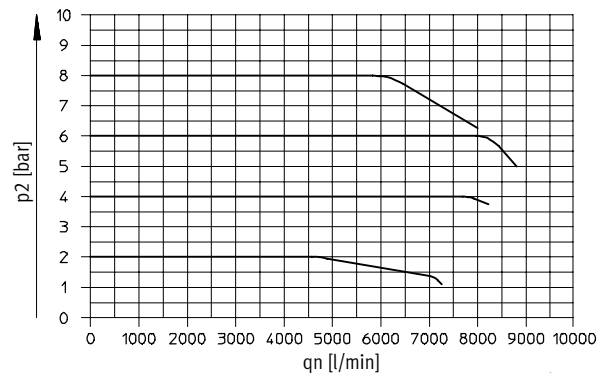
Pressure regulation range 0 ... 2.5 bar



Pressure regulation range 0 ... 6 bar



Pressure regulation range 0 ... 10 bar



Proportional pressure regulators MPPE

Technical data

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Operating and environmental conditions					
Pressure regulation range	[bar]	0 ... 1	0 ... 2.5	0 ... 6	0 ... 10
Operating medium		Filtered compressed air, lubricated or unlubricated Neutral gases			
Input pressure 1	[bar]	1.5 ... 2	3.5 ... 4.5	7 ... 8	11 ... 12
Max. hysteresis	[mbar]	30	40	40	50
Ambient temperature	[°C]	0 ... 50			
Temperature of medium	[°C]	0 ... 60			
Corrosion resistance class CRC ¹⁾		2	2	2	2

- 1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents.

Response times/step responses to output 2 at p _{1max} [s]									
Pressure regulation range [bar]	Volume to output 2	0 ... 1		0 ... 2.5		0 ... 6		0 ... 10	
		On ¹⁾	Off ²⁾	On ¹⁾	Off ²⁾	On ¹⁾	Off ²⁾	On ¹⁾	Off ²⁾
0 l	G ¹ / ₈	0.095	0.165	0.100	0.180	0.100	0.190	0.125	0.220
	G ¹ / ₄	0.140	0.225	0.150	0.260	0.150	0.260	0.160	0.280
	G ¹ / ₂	0.170	0.500	0.170	0.500	0.170	0.510	0.140	0.535
0.7 l	G ¹ / ₈	0.140	0.250	0.180	0.310	0.220	0.340	0.250	0.380
	G ¹ / ₄	0.150	0.280	0.170	0.320	0.180	0.360	0.200	0.390
	G ¹ / ₂	0.120	0.510	0.130	0.520	0.160	0.560	0.180	0.600
2 l	G ¹ / ₈	0.340	0.730	0.380	0.990	0.430	1.250	0.600	1.160
	G ¹ / ₄	0.360	0.620	0.400	0.700	0.540	0.930	0.540	1.050
	G ¹ / ₂	0.330	0.600	0.410	0.720	0.570	1.000	0.540	1.000

- 1) On = 0 ... 90% p_{2max}.
2) Off = 100 ... 10% p_{2max}.

Electrical data					
Pressure regulation range	[bar]	0 ... 1	0 ... 2.5	0 ... 6	0 ... 10
Electrical connection		Plug, round design to DIN 45 326, M16 x 0.75, 8-pin			
Operating voltage range	U _B [V DC]	18 ... 30	18 ... 30	18 ... 30	18 ... 30
Residual ripple		10%			
Power consumption	P _{max.} [W]	3.6 (at 30 V DC and 100% duty cycle)			
Signal setpoint value input	Voltage U _w [V DC]	0 ... 10	0 ... 10	0 ... 10	0 ... 10
	Current I _w [mA]	4 ... 20	4 ... 20	4 ... 20	4 ... 20
Signal actual value output	Voltage U _x [V DC]	0 ... 10	0 ... 10	0 ... 10	0 ... 10
	Current I _x [mA]	4 ... 20	4 ... 20	4 ... 20	4 ... 20
Signal actual value input external	Voltage U _{x,ext.} [V DC]	0 ... 10	0 ... 10	0 ... 10	0 ... 10
	Current I _{x,ext.} [mA]	4 ... 20	4 ... 20	4 ... 20	4 ... 20
Protection class to DIN 60 529		IP65 (with connection socket)			
Safety note		If the power supply cable is interrupted, output pressure is maintained unregulated.			
Protection against polarity reversal	Setpoint value input Voltage signal 0 ... 10 mV	For all electrical connections			
	Setpoint value input Current signal 4 ... 20 mA	For operating voltage			
Protection against short circuit		No			

Proportional pressure regulators MPPE

Technical data

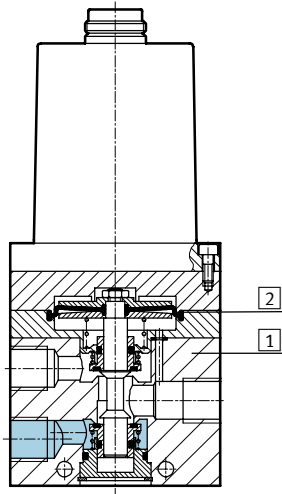


Proportional valves
Proportional pressure valves

6.1

Materials

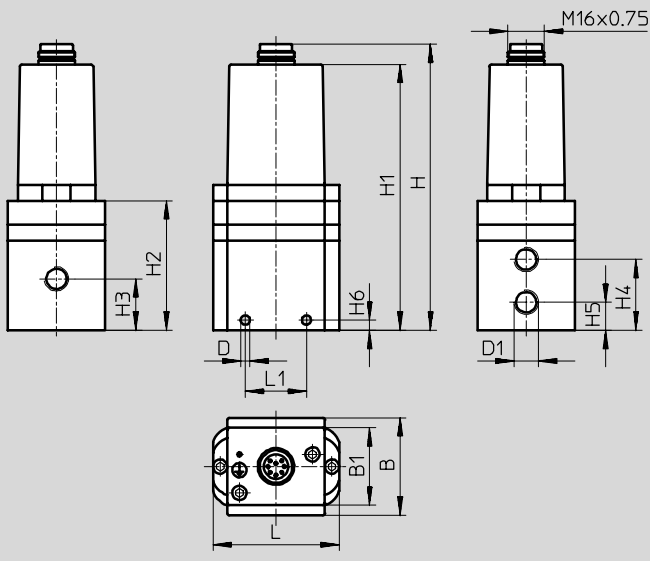
Sectional view



1	Housing	Wrought aluminium alloy
2	Diaphragm	Nitrile rubber

Dimensions

Download CAD data → www.festo.com/en/engineering



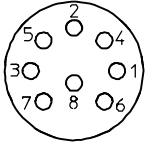
Pneumatic connection	B	B1	D	H	H1	H2	H3	H4	H5	H6	L	L1
D1			∅									
G $\frac{1}{8}$	38	-	4.5	129.1	119.1	60.2	18.8	26.8	9.3	4	62	34
G $\frac{1}{4}$	48	38	4.5	140.7	130.7	63.6	25.3	34.8	13.8	5	62	30
G $\frac{1}{2}$	76	38	7	194.6	184.6	117.5	53	74	32	18	86	50

Proportional pressure regulators MPPE

Technical data

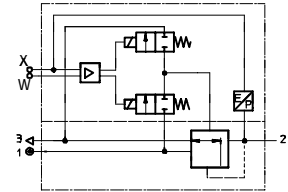
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Terminal allocation



1	WH	X _{ext,in} (external actual value input)
2	BN	GND
3	GN	GND
4	YE	W _{in} (setpoint value input)
5	GY	10 V _{out} (external potentiometer supply)
6	PK	X _{out} (actual value output)
7	RD	24 V DC (supply voltage)
8	BU	GND

Switching function



Ordering data

Pneumatic connection	Pressure regulation range [bar]	Voltage type 0 ... 10 mV		Current type 4 ... 20 mA	
		Part No.	Type	Part No.	Type
Basic version					
G ¹ / ₈	0 ... 1	161 160	MPPE-3-1/8-1-010-B	161 163	MPPE-3-1/8-1-420-B
	0 ... 2.5	164 315	MPPE-3-1/8-2,5-010-B	164 316	MPPE-3-1/8-2,5-420-B
	0 ... 6	161 161	MPPE-3-1/8-6-010-B	161 164	MPPE-3-1/8-6-420-B
	0 ... 10	161 162	MPPE-3-1/8-10-010-B	161 165	MPPE-3-1/8-10-420-B
G ³ / ₄	0 ... 1	161 166	MPPE-3-1/4-1-010-B	161 169	MPPE-3-1/4-1-420-B
	0 ... 2.5	164 317	MPPE-3-1/4-2,5-010-B	164 318	MPPE-3-1/4-2,5-420-B
	0 ... 6	161 167	MPPE-3-1/4-6-010-B	161 170	MPPE-3-1/4-6-420-B
	0 ... 10	161 168	MPPE-3-1/4-10-010-B	161 171	MPPE-3-1/4-10-420-B
G ¹ / ₂	0 ... 1	161 172	MPPE-3-1/2-1-010-B	161 175	MPPE-3-1/2-1-420-B
	0 ... 2.5	164 319	MPPE-3-1/2-2,5-010-B	164 320	MPPE-3-1/2-2,5-420-B
	0 ... 6	161 173	MPPE-3-1/2-6-010-B	161 176	MPPE-3-1/2-6-420-B
	0 ... 10	161 174	MPPE-3-1/2-10-010-B	161 177	MPPE-3-1/2-10-420-B
Special adaptation type¹⁾					
G ¹ / ₈	0 ... 10	164 330	MPPE-3-1/8-...-010-B ¹⁾	164 330	MPPE-3-1/8-...-420-B ¹⁾
G ³ / ₄	0 ... 10	164 331	MPPE-3-1/4-...-010-B ¹⁾	164 331	MPPE-3-1/4-...-420-B ¹⁾
G ¹ / ₂	0 ... 10	164 332	MPPE-3-1/2-...-010-B ¹⁾	164 332	MPPE-3-1/2-...-420-B ¹⁾

1) The special adaptation type allows a lower pressure to be assigned to the setpoint value 0 V or 4 mA and an upper pressure to be assigned to the setpoint value 10 V or 20 mA. Upper and lower pressure by customer request.

Proportional pressure regulators MPPES

Type codes

FESTO

Proportional valves
Proportional pressure valves

6.1

Basic version

		MPPES	-	3	-	1/8	-	1	-	010
Type										
MPPES	Proportional pressure regulator with proportional solenoid									
Valve function										
3	3/2-way valve									
Pneumatic connection										
1/8	G1/8									
1/4	G1/4									
1/2	G1/2									
Pressure regulation range										
2	0 ... 2 bar									
6	0 ... 6 bar									
10	0 ... 10 bar									
Setpoint value input										
010	Analogue voltage signal									
420	Analogue current signal									


Special pressure regulation range by customer request


		MPPES	-	3	-	1/8	-	1	-	6	-	010
Type												
MPPES	Proportional pressure regulator with proportional solenoid											
Valve function												
3	3/2-way valve											
Pneumatic connection												
1/8	G1/8											
1/4	G1/4											
1/2	G1/2											
Required pressure at 0 V or 4 mA [bar]												
Required pressure at 10 V or 20 mA [bar]												
Setpoint value input												
010	Analogue voltage signal											
420	Analogue current signal											


Proportional pressure regulators MPPES



Technical data

-  - Flow rate
230 ... 5,500 l/min

-  - Voltage
18 ... 30 V DC

-  - Pressure regulation ranges
0 ... 2 bar
0 ... 6 bar
0 ... 10 bar

Variants

- Setpoint value input as analogue voltage signal 0 ... 10 V
- Setpoint value input as analogue current signal 4 ... 20 mA

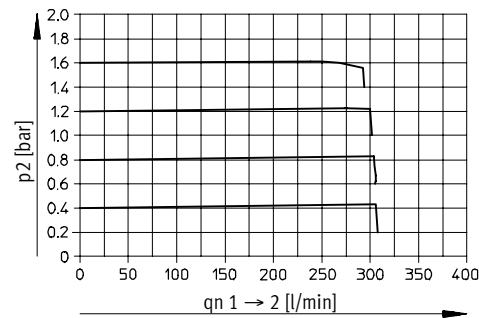


General technical data					
Pneumatic connection		G1/8	G1/4	G1/2	
Constructional design		Directly actuated piston regulator	Pilot actuated piston regulator		
Sealing principle		Soft			
Actuation type		Electrical			
Type of pilot control		Direct	Pilot actuated using 2/2-way valves		
Type of mounting		Via through-holes			
Mounting position		Any			
Nominal size	Ventilation	[mm]	5	7	11
	Exhaust	[mm]	5	7	12
Standard nominal flow rate		[l/min]	→ Diagrams		
Product weight		[g]	915	1 310	2 670

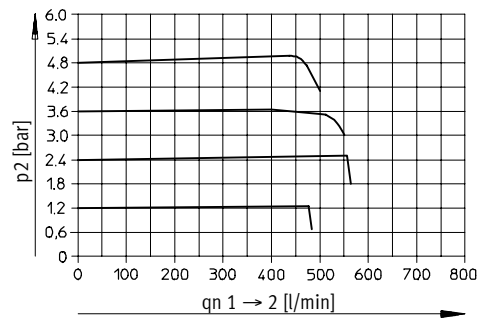
Flow rate q_n as a function of the output pressure p_2

Pneumatic connection G1/8

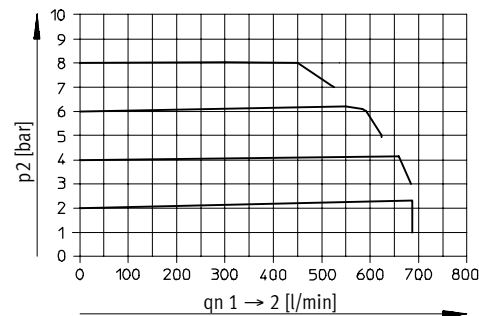
Pressure regulation range 0 ... 2 bar



Pressure regulation range 0 ... 6 bar



Pressure regulation range 0 ... 10 bar



Proportional pressure regulators MPPES

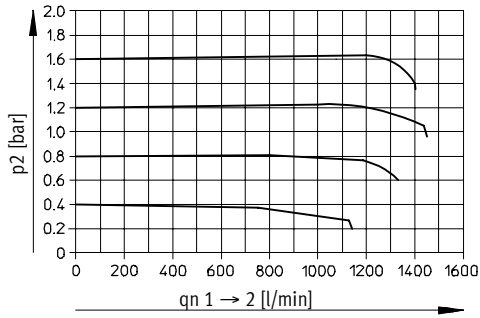
Technical data



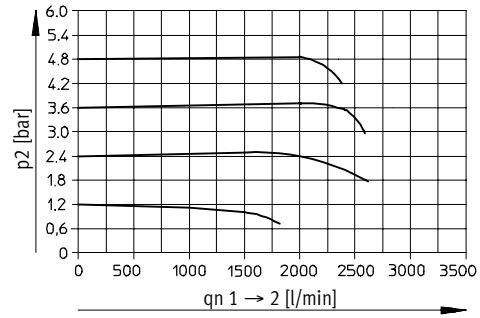
Flow rate q_n as a function of the output pressure p_2

Pneumatic connection $G\frac{1}{4}$

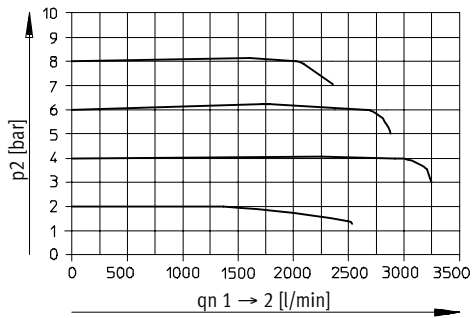
Pressure regulation range 0 ... 2 bar



Pressure regulation range 0 ... 6 bar

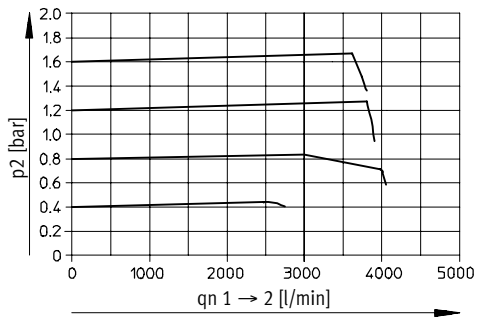


Pressure regulation range 0 ... 10 bar

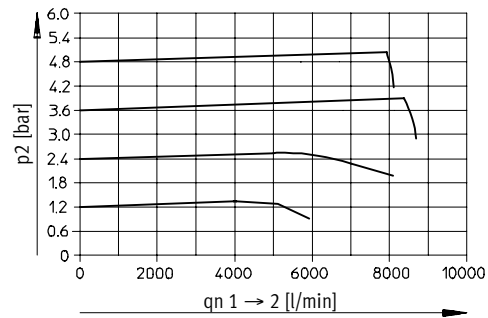


Pneumatic connection $G\frac{1}{2}$

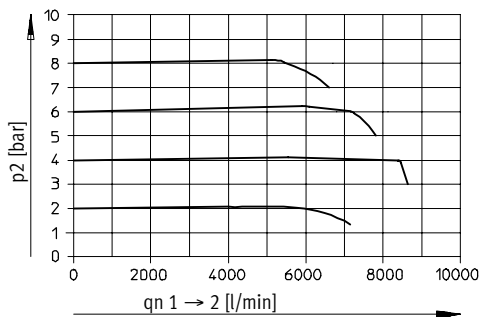
Pressure regulation range 0 ... 2 bar



Pressure regulation range 0 ... 6 bar



Pressure regulation range 0 ... 10 bar



Proportional pressure regulators MPPES

Technical data

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Operating and environmental conditions				
Pressure regulation range	[bar]	0 ... 2	0 ... 6	0 ... 10
Operating medium		Filtered compressed air, lubricated or unlubricated Neutral gases		
Input pressure 1	[bar]	3 ... 4	7 ... 8	11 ... 12
Max. hysteresis	[mbar]	10	50	50
Ambient temperature	[°C]	0 ... 50		
Temperature of medium	[°C]	0 ... 60		
Corrosion resistance class CRC ¹⁾		2	2	2

1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents.

Response times/step responses to output 2 at p _{1max} [s]							
Pressure regulation range [bar]	Volume to output 2	0 ... 2		0 ... 6		0 ... 10	
		On ¹⁾	Off ²⁾	On ¹⁾	Off ²⁾	On ¹⁾	Off ²⁾
0 l	G ¹ / ₈	0.220	0.410	0.210	0.280	0.200	0.290
	G ¹ / ₄	0.200	0.890	0.200	0.640	0.200	0.360
	G ¹ / ₂	0.220	1.000	0.230	0.660	0.230	0.450
2 l	G ¹ / ₈	0.660	2.530	1.200	5.760	1.370	6.300
	G ¹ / ₄	0.200	1.000	0.450	0.760	0.460	0.900
	G ¹ / ₂	0.320	1.000	0.340	0.570	0.350	0.630
10 l	G ¹ / ₈	2.700	2.800	5.150	24.000	5.800	27.000
	G ¹ / ₄	0.900	2.700	1.500	3.000	1.900	3.400
	G ¹ / ₂	0.800	1.400	1.100	1.500	1.300	1.800

1) On = 0 ... 90% p_{2max}.
2) Off = 100 ... 10% p_{2max}.

Electrical data				
Pressure regulation range	[bar]	0 ... 2	0 ... 6	0 ... 10
Electrical connection		Plug, round design to DIN 45 326, M16 x 0.75, 8-pin		
Operating voltage range	U _B [V DC]	18 ... 30	18 ... 30	18 ... 30
Residual ripple		10%		
Power consumption	P _{max.} [W]	20 (at 30 V DC)		
Signal setpoint value input	Voltage U _w [V DC]	0 ... 10	0 ... 10	0 ... 10
	Current I _w [mA]	4 ... 20	4 ... 20	4 ... 20
Signal actual value input	Voltage U _x [V DC]	0 ... 10	0 ... 10	0 ... 10
	Current I _x [mA]	4 ... 20	4 ... 20	4 ... 20
Signal actual value input external	Voltage U _{x,ext.} [V DC]	0 ... 10	0 ... 10	0 ... 10
	Current I _{x,ext.} [mA]	4 ... 20	4 ... 20	4 ... 20
Protection class to DIN 60 529		IP65 (with connection socket)		
Safety note		If the power supply cable is interrupted, output pressure is maintained unregulated.		
Protection against polarity reversal	Setpoint value input Voltage signal 0 ... 10 mV	For all electrical connections		
	Setpoint value input Current signal 4 ... 20 mA	For operating voltage		
Protection against short circuit		No		

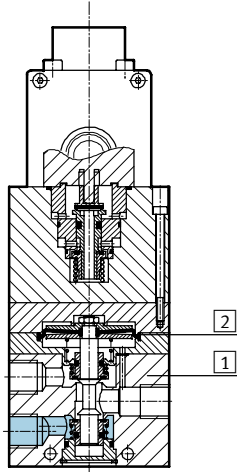
Proportional pressure regulators MPPES

Technical data



Materials

Sectional view



1	Housing	Wrought aluminium alloy
2	Diaphragm	Nitrile rubber

Dimensions

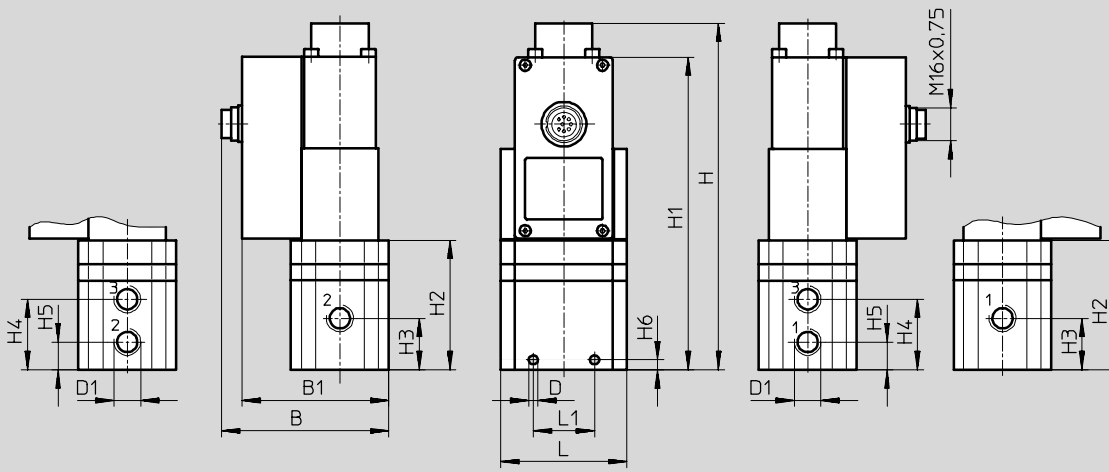
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MPPES-3-1/8-...

MPPES-3-1/4-...
MPPES-3-1/2-...

MPPES-3-1/4-...
MPPES-3-1/2-...

MPPES-3-1/8-...



Pneumatic connection D1	B	B1	D Ø	H	H1	H2	H3	H4	H5	H6	L	L1
G1/8	77.1	67.1	4.4	116.5	100	55	34	45	23	4	62	34
G1/4	82.1	72.1	4.5	170.2	153.7	63.7	25.3	34.8	13.8	5	62	30
G1/2	96.1	86.1	7	227.1	210.6	120.6	53	74	32	18	86	50

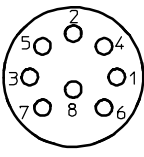
Proportional pressure regulators MPPES

Technical data



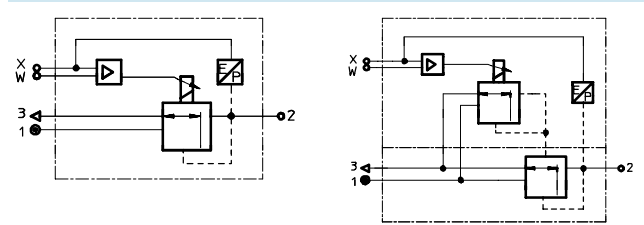
Connections

Terminal allocation



1	WH	n. c.
2	BN	GND
3	GN	GND
4	YE	W_{in} (setpoint value input)
5	GY	n. c.
6	PK	X_{out} (actual value output)
7	RD	24 V DC (supply voltage)
8	BU	GND

Switching function



Ordering data					
Pneumatic connection	Pressure regulation range [bar]	Voltage type 0 ... 10 mV		Current type 4 ... 20 mA	
		Part No.	Type	Part No.	Type
Basic version					
G ¹ / ₈	0 ... 2	187 350	MPPES-3-1/8-2-010	187 351	MPPES-3-1/8-2-420
	0 ... 6	187 352	MPPES-3-1/8-6-010	187 353	MPPES-3-1/8-6-420
	0 ... 10	187 348	MPPES-3-1/8-10-010	187 349	MPPES-3-1/8-10-420
G ¹ / ₄	0 ... 2	187 335	MPPES-3-1/4-2-010	187 336	MPPES-3-1/4-2-420
	0 ... 6	187 337	MPPES-3-1/4-6-010	187 338	MPPES-3-1/4-6-420
	0 ... 10	187 333	MPPES-3-1/4-10-010	187 334	MPPES-3-1/4-10-420
G ¹ / ₂	0 ... 2	187 328	MPPES-3-1/2-2-010	187 329	MPPES-3-1/2-2-420
	0 ... 6	187 330	MPPES-3-1/2-6-010	187 331	MPPES-3-1/2-6-420
	0 ... 10	187 326	MPPES-3-1/2-10-010	187 327	MPPES-3-1/2-10-420
Special adaptation type¹⁾					
G ¹ / ₈	0 ... 10	187 347	MPPES-3-1/8-PU-PO-010	187 762	MPPES-3-1/8-PU-PO-420
G ¹ / ₄	0 ... 10	187 339	MPPES-3-1/4-PU-PO-010	187 744	MPPES-3-1/4-PU-PO-420
G ¹ / ₂	0 ... 10	187 332	MPPES-3-1/2-PU-PO-010	187 735	MPPES-3-1/2-PU-PO-420

1) The special adaptation type allows a lower pressure PU to be assigned to the setpoint value 0 V or 4 mA and an upper pressure PO to be assigned to the setpoint value 10 V or 20 mA. PU and PO by customer request.

Proportional pressure regulators MPPE/MPPES

Accessories – Setpoint module MPZ



V Voltage
20 ... 30 V DC

- Function**
- Generation of 6+1 analogue setpoint values for the proportional pressure regulators MPPE, MPPES and proportional control valve MPYE
 - Digital controller
 - Output voltage adjustable with spindle potentiometer

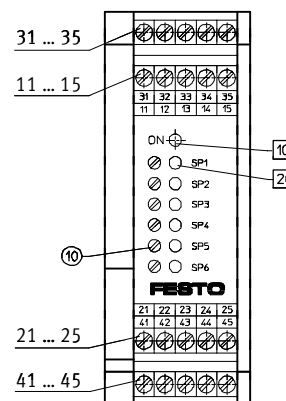


General technical data			
Function	Digital-analogue circuit with analogue output		
Type of mounting	Mounting on G or H rails		
Mounting position	Any		
Electrical connection	Screw terminal	[mm ²]	2.5
Operating voltage range		[V DC]	20 ... 30
Output voltage		[V DC]	0 ... 10
Output current		[mA]	5
Power consumption at 24 V DC		[W]	1.5
Supply setpoint value adjustment	Voltage ± 3 %	[V]	10
	Current ± 3 %	[mA]	6
External setpoint input	Voltage	[V DC]	0 ... 10
	Input resistance	[kΩ]	Approx. 100
	Potentiometer	[kΩ]	2.5 ... 10
Setpoint controller	Input resistance	[kΩ]	3
Electromagnetic compatibility (DIN 843 Part 2 and 4)	Severity level 2		
Residual ripple	Max. 10% within operating voltage		
Displays	Ready		Green LED
	Setpoint value active		Yellow LED
Ambient temperature		[°C]	0 ... 60
Protection class to DIN 60 529	IP20		
Product weight		[g]	190

Proportional valves
Proportional pressure valves

6.1

Connections and control elements			
Connections			Priority
31	Activate setpoint 1	SP1	1 (highest)
32	Activate setpoint 2	SP2	2
33	Activate setpoint 3	SP3	3
34	Activate setpoint 4	SP4	4
35	Activate setpoint 5	SP5	5
11	Activate setpoint 6	SP6	6
13	Pilot line	0 V	–
21	Pilot line	0 V	–
22	External setpoint value input	U _{w,in}	7 (lowest)
23	Pilot line	10 V DC	–
24	Screening	PE	–
41	Pilot line	0 V DC	–
42	Setpoint value output	U _{w, out}	–
43	Power supply	–	–
44	Earth	GND	–
45	Power supply	+	–



- Display**
- ⑩ Operational status display LED green
 - ⑫ Setpoint value active (SP1 ... SP6) Yellow LED

- Voltage adjustment**
- Ⓜ = Setpoint value potentiometer (SP1 ... SP6)

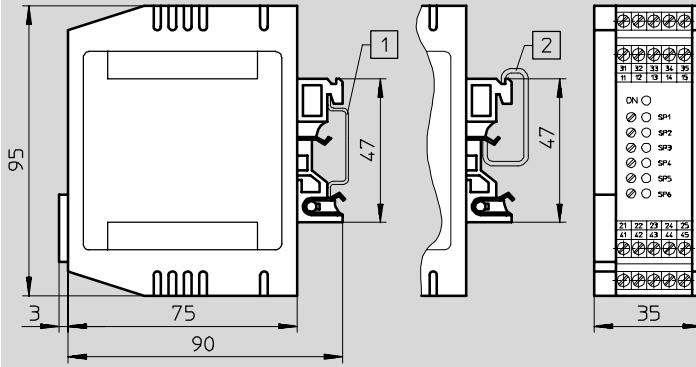
Proportional pressure regulators MPPE/MPPEs

Accessories – Setpoint module MPZ



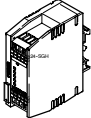
Dimensions

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- 1 H-rail
- 2 G-rail

Ordering data

	Description	Part No.	Type
	Setpoint module for generating 6 + 1 analogue voltage signals	36 101	MPZ-1-24DC-SGH-6-SW

Proportional valves
Proportional pressure valves

6.1



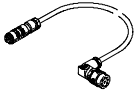


Proportional pressure regulators MPPE/MPPES

Accessories



Proportional valves
Proportional pressure valves

6.1

Ordering data							
	Cable length [m]	Part No.	Type			Part No.	Type
Angled plug socket without cable				Data sheets → 2 / 7.2-10			
	–	161 839	MPPE-3-B			→	Volume 3
Angled plug socket with cable				Data sheets → 2 / 7.3-21			
	2.5	161 879	KMPPE-...-B-2,5			→	Volume 3
	5	161 878	KMPPE-...-B-5				
Connecting cable				Data sheets → →			
	5	163 882	KVIA-MPPE-5			→	Volume 3
	10	163 883	KVIA-MPPE-10				
Push-in fittings							
							
Silencer							
							
Reducing nipple							
