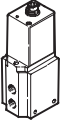



Proportional pressure regulators MPPE/MPPES



# Proportional pressure regulators MPPE/MPPEs

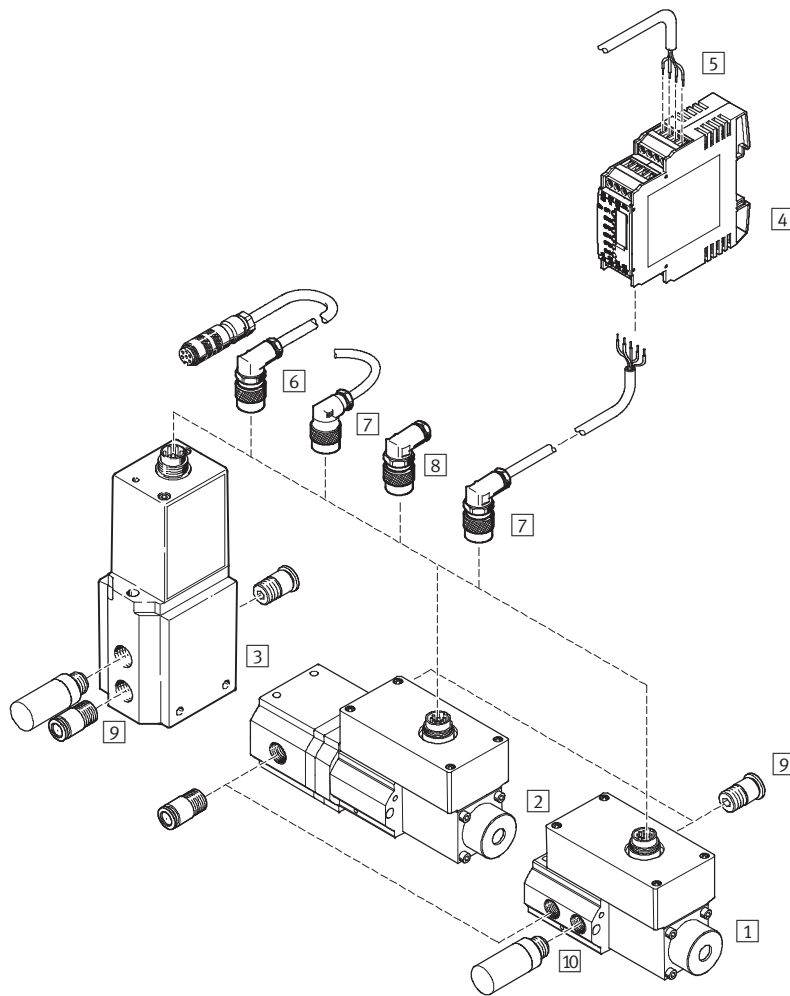
Product range overview

Function	Version	Type	Design	Pneumatic connection 1	Nominal size pressurise/exhaust [mm]	Pressure regulation range <sup>1)</sup> [bar]	Setpoint input		→ Page/Internet
							Voltage type 0 ... 10 V	Current type 4 ... 20 mA	
Pressure regulators	<b>With pilot control via 2/2-way valves (switching valves)</b>								
		MPPE	Pilot-actuated valve	G <sup>1</sup> / <sub>8</sub>	5/5	0 ... 1	■	■	5
				G <sup>3</sup> / <sub>4</sub>	7/7	0 ... 2.5	■	■	
				G <sup>1</sup> / <sub>2</sub>	11/12	0 ... 6	■	■	
	<b>With proportional solenoid</b>								
		MPPEs	Directly actuated valve	G <sup>1</sup> / <sub>8</sub>	3/2	0 ... 2	■	■	11
				G <sup>3</sup> / <sub>4</sub>	7/7	0 ... 6	■	■	
			Pilot-actuated valve	G <sup>1</sup> / <sub>2</sub>	11/12	0 ... 10	■	■	

1) Pressure regulation range also by customer request

# Proportional pressure regulators MPPE/MPPES

Peripherals overview



Accessories				
		Type	Brief description	→ Page/Internet
1	Proportional pressure regulator	MPPES	Directly controlled	11
2	Proportional pressure regulator	MPPES	Indirectly controlled	11
3	Proportional pressure regulator	MPPE	–	5
4	Setpoint module MPZ	MPZ	For generating 6+1 analogue voltage signals	15
5	Digital input/output	–	For controlling the setpoint module	–
6	Connecting cable	KVIA-MPPE	–	15
7	Plug socket with cable	KMPE-B	–	
8	Angled socket	MPPE-3-B	–	
9	Push-in fitting	QS	For connecting compressed air tubing	quick star
10	Silencer	U	For fitting in exhaust ports	u

# Proportional pressure regulators MPPE

Type codes

## Basic version

MPPE - 3 - 1/8 - 1 - 010 - B

Type	
MPPE	Proportional pressure regulator with switching valve head
Valve function	
3	3-way pressure regulator
Pneumatic connection	
1/8	Female thread G1/8
1/4	Female thread G1/4
1/2	Female thread G1/2
Pressure regulation range	
1	0 ... 1 bar
2,5	0 ... 2.5 bar
6	0 ... 6 bar
10	0 ... 10 bar
Analogue setpoint input	
010	0 ... 10 V
420	4 ... 20 mA
Generation	
B	B series

## Special pressure regulation range by customer request

MPPE - 3 - 1/8 - 2 - 4 - 010 - B


Type	
MPPE	Proportional pressure regulator with switching valve head
Valve function	
3	3-way pressure regulator
Pneumatic connection	
1/8	Female thread G1/8
1/4	Female thread G1/4
1/2	Female thread G1/2
Required pressure at 0 V or 4 mA [bar]	
2	0 ... 2 bar
Required pressure at 10 V or 20 mA [bar]	
4	0 ... 4 bar
Analogue setpoint input	
010	0 ... 10 V
420	4 ... 20 mA
Generation	
B	B series

# 513. Proportional pressure regulators MPPE

Technical data

Flow rate  
350 ... 8,800 l/min

Voltage  
18 ... 30 V DC

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

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

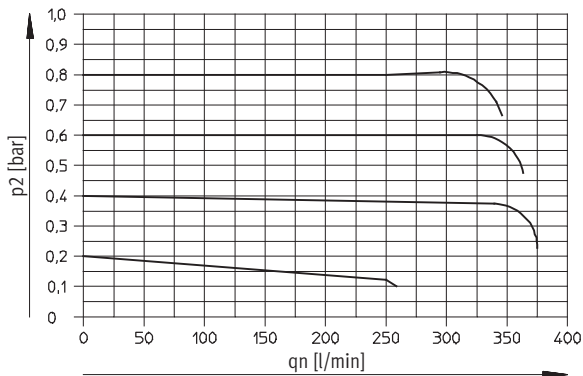


General technical data					
Pneumatic connection		G1/8	G1/4	G1/2	
Design	Pilot-actuated piston regulator				
Sealing principle	Soft				
Actuation type	Electrical				
Type of control	Pilot-actuated via 2/2-way valves				
Type of mounting	Via through-hole				
Mounting position	Any				
Nominal size	Pressurisation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

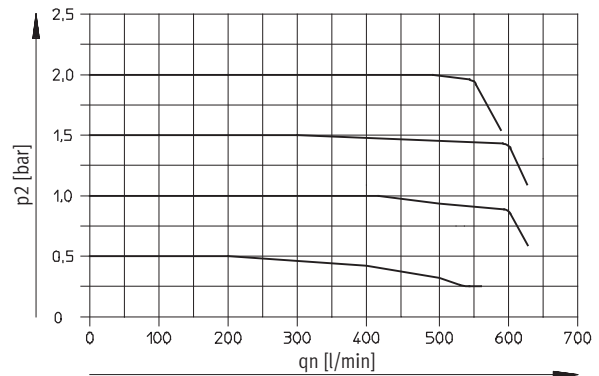
## Flow rate qn as a function of output pressure p2

Pneumatic connection G1/8

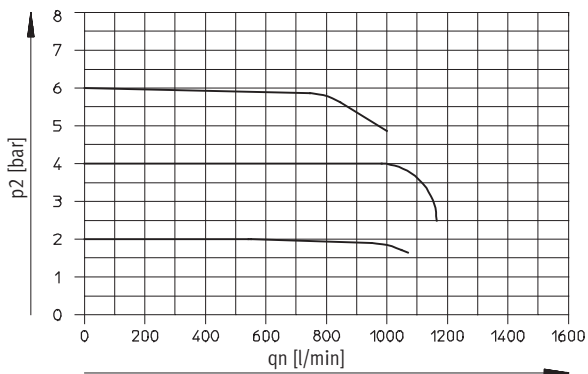
Pressure regulation range 0 ... 1 bar



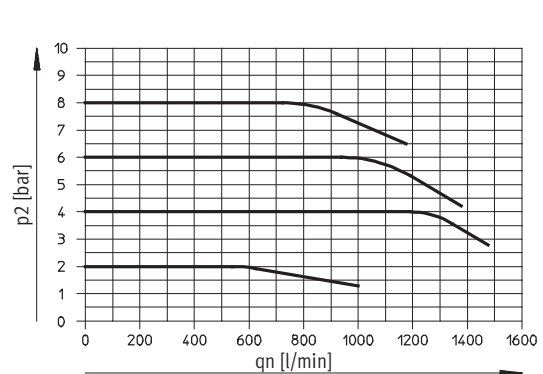
Pressure regulation range 0 ... 2.5 bar



Pressure regulation range 0 ... 6 bar



Pressure regulation range 0 ... 10 bar



# 514. Proportional pressure regulators MPPE

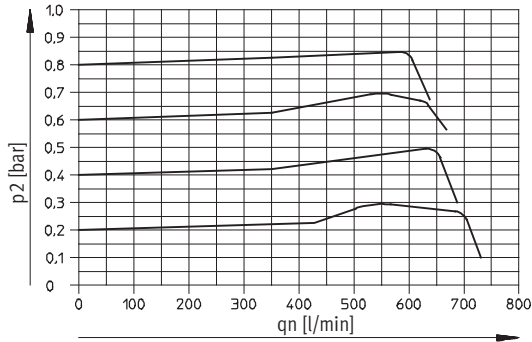
Technical data



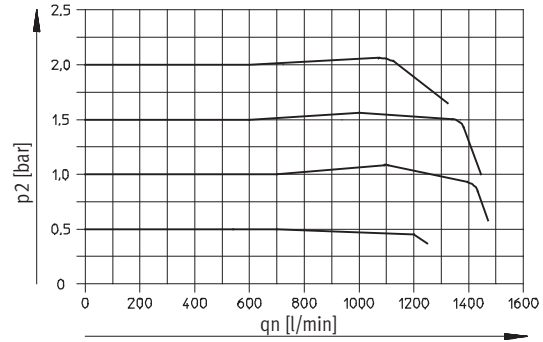
## Flow rate $q_n$ as a function of output pressure $p_2$

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

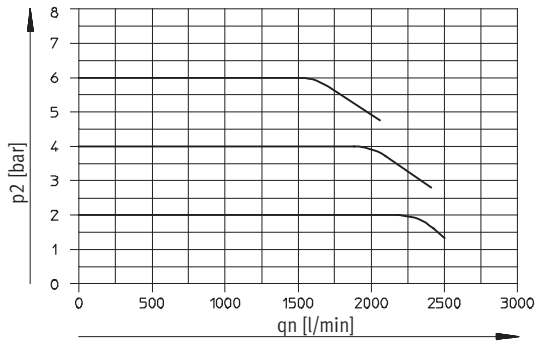
Pressure regulation range 0 ... 1 bar



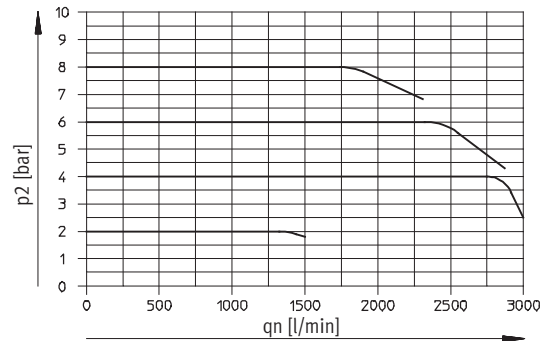
Pressure regulation range 0 ... 2.5 bar



Pressure regulation range 0 ... 6 bar

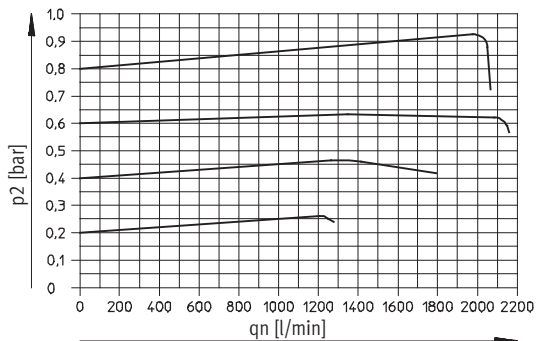


Pressure regulation range 0 ... 10 bar

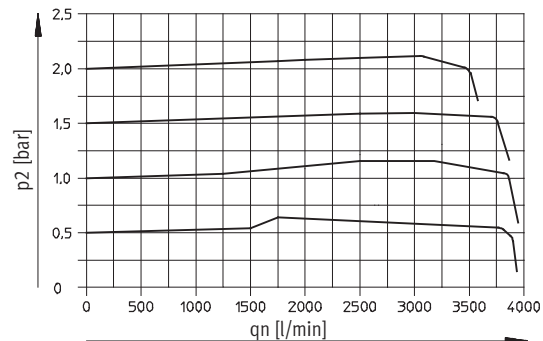


Pneumatic connection  $G\frac{1}{2}$

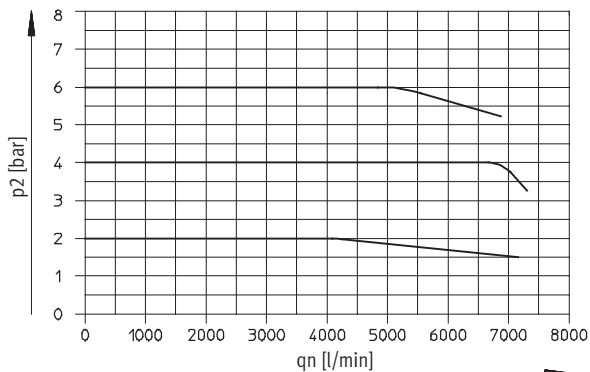
Pressure regulation range 0 ... 1 bar



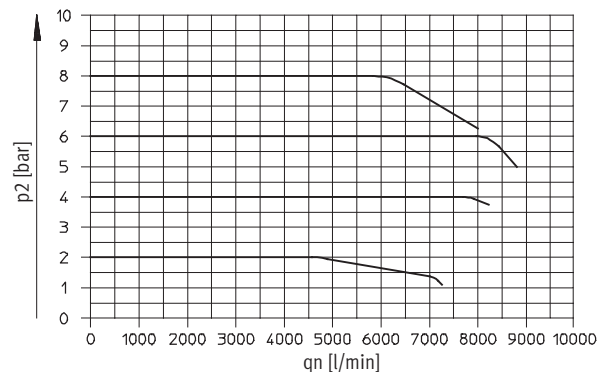
Pressure regulation range 0 ... 2.5 bar



Pressure regulation range 0 ... 6 bar



Pressure regulation range 0 ... 10 bar



# 515. Proportional pressure regulators MPPE

Technical data

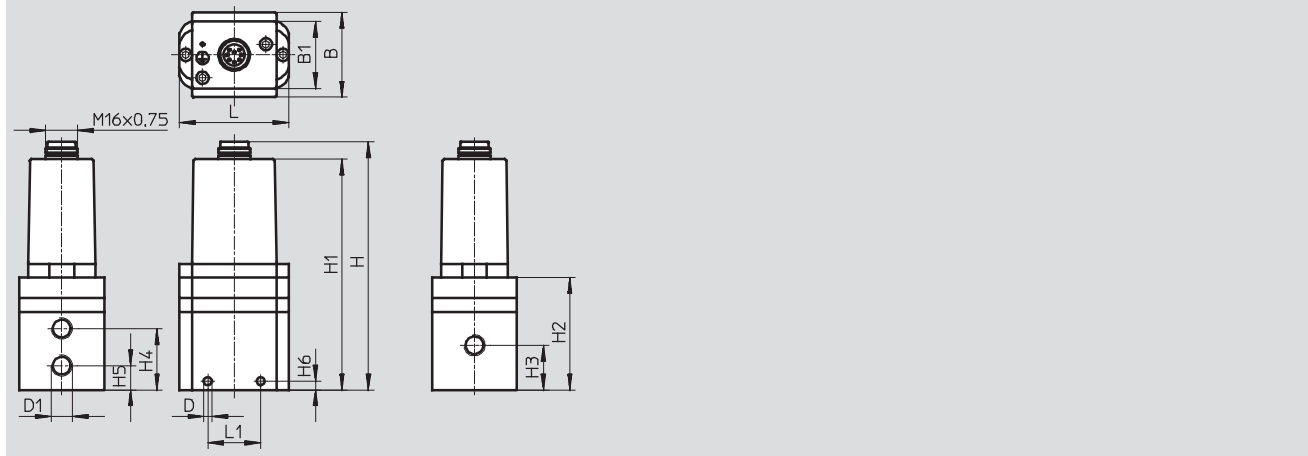
Operating and environmental conditions					
Pressure regulation range	[bar]	0 ... 1	0 ... 2.5	0 ... 6	0 ... 10
Operating medium		Filtered compressed air, lubricated or unlubricated, grade of filtration 40 µm, neutral gases			
Supply pressure 1	[bar]	1.5 ... 2	3.5 ... 4.5	7 ... 8	11 ... 12
Max. pressure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

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

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 <sub>B</sub>	[V DC]	18 ... 30		
Residual ripple		10%			
Power consumption	P <sub>max.</sub>	[W]	3.6 (at 30 V DC and 100% duty cycle)		
Setpoint input signal	Voltage	V <sub>w</sub>	[V DC]	0 ... 10	
	Current	I <sub>w</sub>	[mA]	4 ... 20	
Actual value output signal	Voltage	V <sub>x</sub>	[V DC]	0 ... 10	
	Current	I <sub>x</sub>	[mA]	4 ... 20	
Actual value input signal, external	Voltage	V <sub>x,ext.</sub>	[V DC]	0 ... 10	
	Current	I <sub>x,ext.</sub>	[mA]	4 ... 20	
Protection class to DIN 60 529		IP65 (with connection socket)			
Safety note		In the event of a broken supply power wire or setpoint wire, output pressure remains and is uncontrolled. In the long-term, leakage results in pressure drop.			
Reverse polarity protection	Setpoint input, voltage signal 0 ... 10 V	For all electrical connections			
	Setpoint input, current signal 4 ... 20 mA	For operating voltage			
Protection against short circuit		Yes, for the types with voltage signal as setpoint input			

Materials	
Housing	Wrought aluminium alloy
Seals	NBR

Dimensions Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)



Connection D1	B	B1	∅ D	H	H1	H2	H3	H4	H5	H6	L	L1
G <sup>1</sup> / <sub>8</sub>	38	-	4.5	129.1	119.1	60.2	18.8	26.8	9.3	4	62	34
G <sup>1</sup> / <sub>4</sub>	48	38	4.5	140.7	130.7	63.6	25.3	34.8	13.8	5	62	30

G1/2	76	38	7	194.6	184.6	117.5	53	74	32	18	86	50
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# 516. Proportional pressure regulators MPPE

Technical data

Pin allocation		Switching function	
	1 WH	$X_{ext,in}$ (external actual value input)	
	2 BN	GND	
	3 GN	GND	
	4 YE	$W_{in}$ (setpoint input)	
	5 GY	10 V <sub>out</sub> (external potentiometer supply)	
	6 PK	$X_{out}$ (actual value output)	
	7 RD	24 V DC (supply voltage)	
	8 BU	GND	

Ordering data					
Pneumatic connection	Pressure regulation range [bar]	Voltage type 0 ... 10 V		Current type 4 ... 20 mA	
		Part No.	Type	Part No.	Type
<b>Basic version</b>					
G <sup>1</sup> / <sub>8</sub>	0 ... 1	161160	MPPE-3-1/8-1-010-B	161163	MPPE-3-1/8-1-420-B
	0 ... 2.5	164315	MPPE-3-1/8-2,5-010-B	164316	MPPE-3-1/8-2,5-420-B
	0 ... 6	161161	MPPE-3-1/8-6-010-B	161164	MPPE-3-1/8-6-420-B
	0 ... 10	161162	MPPE-3-1/8-10-010-B	161165	MPPE-3-1/8-10-420-B
G <sup>1</sup> / <sub>4</sub>	0 ... 1	161166	MPPE-3-1/4-1-010-B	161169	MPPE-3-1/4-1-420-B
	0 ... 2.5	164317	MPPE-3-1/4-2,5-010-B	164318	MPPE-3-1/4-2,5-420-B
	0 ... 6	161167	MPPE-3-1/4-6-010-B	161170	MPPE-3-1/4-6-420-B
	0 ... 10	161168	MPPE-3-1/4-10-010-B	161171	MPPE-3-1/4-10-420-B
G <sup>1</sup> / <sub>2</sub>	0 ... 1	161172	MPPE-3-1/2-1-010-B	161175	MPPE-3-1/2-1-420-B
	0 ... 2.5	164319	MPPE-3-1/2-2,5-010-B	164320	MPPE-3-1/2-2,5-420-B
	0 ... 6	161173	MPPE-3-1/2-6-010-B	161176	MPPE-3-1/2-6-420-B
	0 ... 10	161174	MPPE-3-1/2-10-010-B	161177	MPPE-3-1/2-10-420-B
<b>Special adaptation type<sup>1)</sup></b>					
G <sup>1</sup> / <sub>8</sub>	0 ... 10	164330	MPPE-3-1/8-...-...-010-B <sup>1)</sup>	164330	MPPE-3-1/8-...-...-420-B <sup>1)</sup>
G <sup>1</sup> / <sub>4</sub>	0 ... 10	164331	MPPE-3-1/4-...-...-010-B <sup>1)</sup>	164331	MPPE-3-1/4-...-...-420-B <sup>1)</sup>
G <sup>1</sup> / <sub>2</sub>	0 ... 10	164332	MPPE-3-1/2-...-...-010-B <sup>1)</sup>	164332	MPPE-3-1/2-...-...-420-B <sup>1)</sup>

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

# Proportional pressure regulators MPPES

Type codes

## Basic version

		MPPES	-	3	-	1/8	-	1	-	010
<b>Type</b>										
MPPES	Proportional pressure regulator with proportional solenoid									
<b>Valve function</b>										
3	3-way pressure regulator									
<b>Pneumatic connection</b>										
1/8	Female thread G1/8									
1/4	Female thread G1/4									
1/2	Female thread G1/2									
<b>Pressure regulation range</b>										
2	0 ... 2 bar									
6	0 ... 6 bar									
10	0 ... 10 bar									
<b>Analogue setpoint input</b>										
010	0 ... 10 V									
420	4 ... 20 mA									

## Special pressure regulation range by customer request

		MPPES	-	3	-	1/8	-	2	-	4	-	010
<b>Type</b>												
MPPES	Proportional pressure regulator with proportional solenoid											
<b>Valve function</b>												
3	3-way pressure regulator											
<b>Pneumatic connection</b>												
1/8	Female thread G1/8											
1/4	Female thread G1/4											
1/2	Female thread G1/2											
<b>Required pressure at 0 V or 4 mA [bar]</b>												
<b>Required pressure at 10 V or 20 mA [bar]</b>												
<b>Analogue setpoint input</b>												
010	0 ... 10 V											
420	4 ... 20 mA											

# Proportional pressure regulators MPPES

Technical data

- Flow rate  
230 ... 8,500 l/min
- Voltage  
18 ... 30 V DC
- Pressure  
0 ... 2 bar  
0 ... 6 bar  
0 ... 10 bar
- Variants
- Setpoint input as analogue voltage signal 0 ... 10 V
  - Setpoint input as analogue current signal 4 ... 20 mA

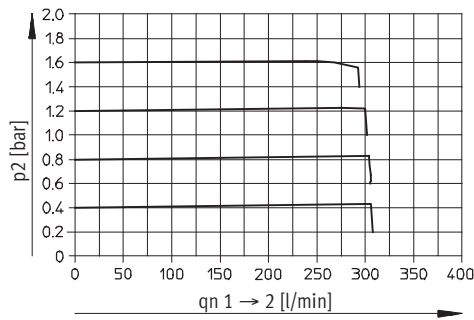


General technical data					
Pneumatic connection		G1/8	G1/4	G1/2	
Design		Directly actuated piston regulator	Pilot-actuated piston regulator		
Sealing principle		Soft			
Actuation type		Electrical			
Type of mounting		Via through-hole			
Mounting position		Any			
Nominal size	Pressurisation	[mm]	3	7	11
	Exhaust	[mm]	2	7	12
Standard nominal flow rate		[l/min]	→ Graphs		
Product weight		[g]	915	1,310	2,670

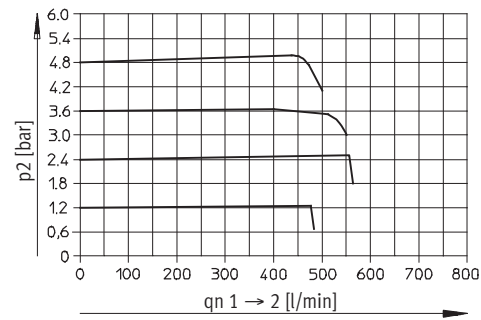
Flow rate qn as a function of output pressure p2

Pneumatic connection G1/8

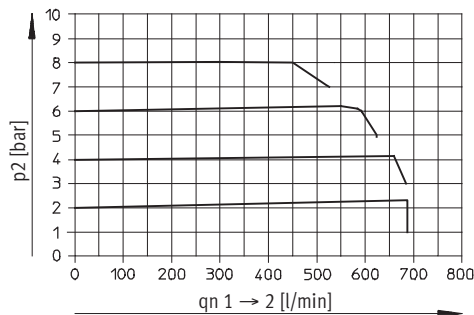
Pressure regulation range 0 ... 2 bar



Pressure regulation range 0 ... 6 bar



Pressure regulation range 0 ... 10 bar



# Proportional pressure regulators MPPES

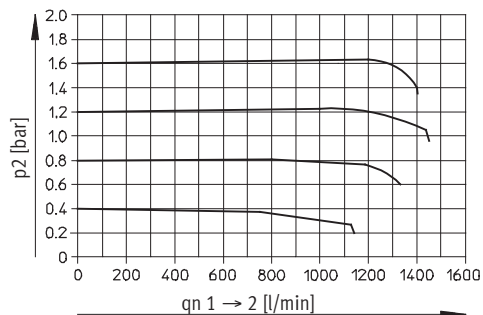
Technical data

FESTO

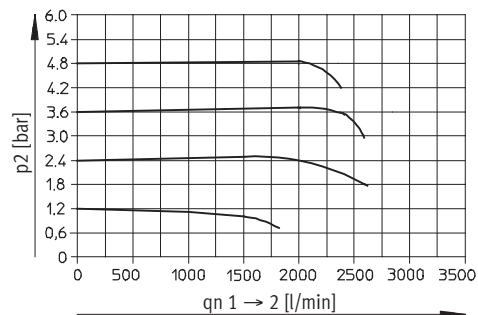
## Flow rate $q_n$ as a function of output pressure $p_2$

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

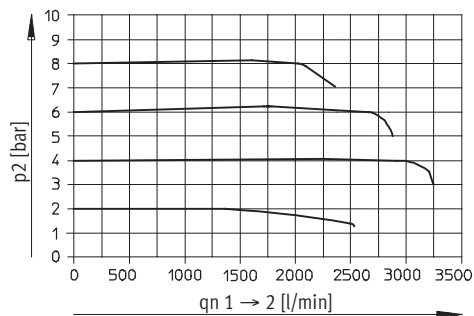
Pressure regulation range 0 ... 2 bar



Pressure regulation range 0 ... 6 bar

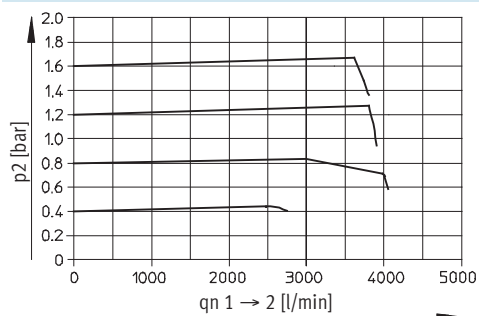


Pressure regulation range 0 ... 10 bar

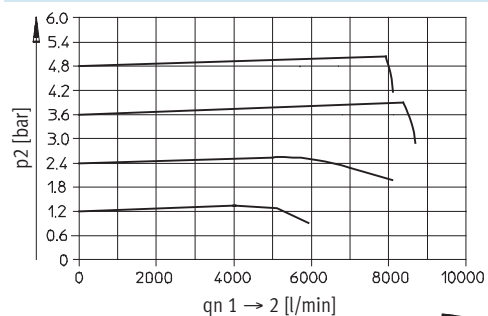


Pneumatic connection G $\frac{1}{2}$

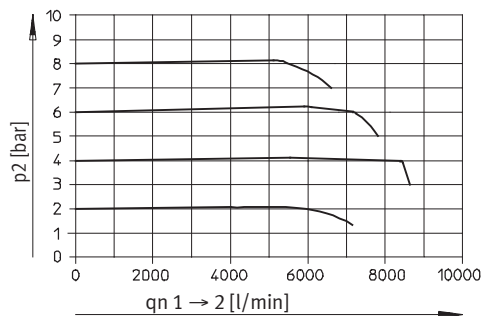
Pressure regulation range 0 ... 2 bar



Pressure regulation range 0 ... 6 bar



Pressure regulation range 0 ... 10 bar



# Proportional pressure regulators MPPES

Technical data

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

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

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 <sub>B</sub>	[V DC]	18 ... 30	
Residual ripple			10%	
Power consumption	P <sub>max.</sub>	[W]	20 (at 30 V DC)	
Setpoint input signal	Voltage	V <sub>w</sub>	[V DC]	0 ... 10
	Current	I <sub>w</sub>	[mA]	4 ... 20
Actual value output signal	Voltage	V <sub>x</sub>	[V DC]	0 ... 10
	Current	I <sub>x</sub>	[mA]	4 ... 20
Protection class to DIN 60 529			IP65 (with connection socket)	
Safety note			Output pressure is not maintained if the power supply cable is interrupted	
Reverse polarity protection	Setpoint input, voltage signal 0 ... 10 V		For all electrical connections	
	Setpoint input, current signal 4 ... 20 mA		For operating voltage	
Protection against short circuit			Yes, for the types with voltage signal as setpoint input	

Materials	
Housing	Wrought aluminium alloy
Seals	NBR

## Note

The working line is vented if the power supply cable is interrupted.

# Proportional pressure regulators MPPES

Technical data

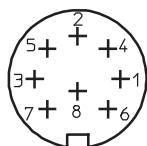
FESTO

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)

Connection D1	B	B1	øD	H	H1	H2	H3	H4	H5	H6	L	L1
G <sup>1</sup> / <sub>8</sub>	77.1	67.1	4.4	116.5	100	55	34	45	23	4	62	34
G <sup>1</sup> / <sub>4</sub>	82.1	72.1	4.5	170.2	153.7	63.7	25.3	34.8	13.8	5	62	30
G <sup>1</sup> / <sub>2</sub>	96.1	86.1	7	227.1	210.6	120.6	53	74	32	18	86	50

## Connections

Pin allocation

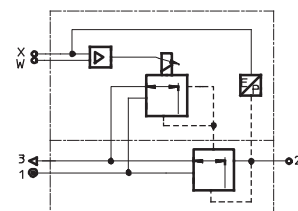
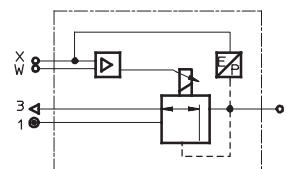


- 1 WH n.c.
- 2 BN GND
- 3 GN GND
- 4 YE W<sub>in</sub> (setpoint input)
- 5 GY n.c.
- 6 PK X<sub>out</sub> (actual value output)
- 7 RD 24 V DC (supply voltage)
- 8 BU GND

## Switching function

MPPES-3-1/8-...

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

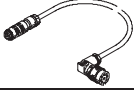


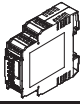


Ordering data			
Pneumatic connection	Pressure regulation range [bar]	Voltage type 0 ... 10 V Part No. Type	Current type 4 ... 20 mA Part No. Type
<b>Basic version</b>			
G <sup>1</sup> / <sub>8</sub>	0 ... 2	187350 MPPES-3-1/8-2-010	187351 MPPES-3-1/8-2-420
	0 ... 6	187352 MPPES-3-1/8-6-010	187353 MPPES-3-1/8-6-420
	0 ... 10	187348 MPPES-3-1/8-10-010	187349 MPPES-3-1/8-10-420
G <sup>1</sup> / <sub>4</sub>	0 ... 2	187335 MPPES-3-1/4-2-010	187336 MPPES-3-1/4-2-420
	0 ... 6	187337 MPPES-3-1/4-6-010	187338 MPPES-3-1/4-6-420
	0 ... 10	187333 MPPES-3-1/4-10-010	187334 MPPES-3-1/4-10-420
G <sup>1</sup> / <sub>2</sub>	0 ... 2	187328 MPPES-3-1/2-2-010	187329 MPPES-3-1/2-2-420
	0 ... 6	187330 MPPES-3-1/2-6-010	187331 MPPES-3-1/2-6-420
	0 ... 10	187326 MPPES-3-1/2-10-010	187327 MPPES-3-1/2-10-420
<b>Special adaptation type<sup>1)</sup></b>			
G <sup>1</sup> / <sub>8</sub>	0 ... 10	187347 MPPES-3-1/8-PU-PO-010	187762 MPPES-3-1/8-PU-PO-420
G <sup>1</sup> / <sub>4</sub>	0 ... 10	187339 MPPES-3-1/4-PU-PO-010	187744 MPPES-3-1/4-PU-PO-420
G <sup>1</sup> / <sub>2</sub>	0 ... 10	187332 MPPES-3-1/2-PU-PO-010	187735 MPPES-3-1/2-PU-PO-420

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

# Proportional pressure regulators MPPE/MPPES

Accessories

Ordering data				
	Description	Cable length [m]	Part No.	Type
Connecting cable <span style="float: right;">Technical data → Internet: kvia-mppe</span>				
	Connecting cable to the analogue module of valve terminal type 03/04	5	163882	KVIA-MPPE-5
		10	163883	KVIA-MPPE-10
Plug socket with cable <span style="float: right;">Technical data → Internet: kmppe-b</span>				
	Angled, 8-pin, M16x0.75	2.5	161879	KMPPE-B-2,5
		5	161878	KMPPE-B-5
Angled socket <span style="float: right;">Technical data → Internet: mppe</span>				
	Angled, 8-pin, M16x0.75	–	161839	MPPE-3-B
Setpoint module <span style="float: right;">Technical data → Internet: mpz</span>				
	Setpoint module for generating 6 + 1 analogue voltage signals	–	546224	MPZ-1-24DC-SGH-6-SW

# Product Range and Company Overview

## A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



**Custom Automation Components**  
Complete custom engineered solutions



**Custom Control Cabinets**  
Comprehensive engineering support and on-site services



**Complete Systems**  
Shipment, stocking and storage services

## The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



**Electromechanical**  
Electromechanical actuators, motors, controllers & drives



**Pneumatics**  
Pneumatic linear and rotary actuators, valves, and air supply



**PLCs and I/O Devices**  
PLC's, operator interfaces, sensors and I/O devices

## Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

## Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



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