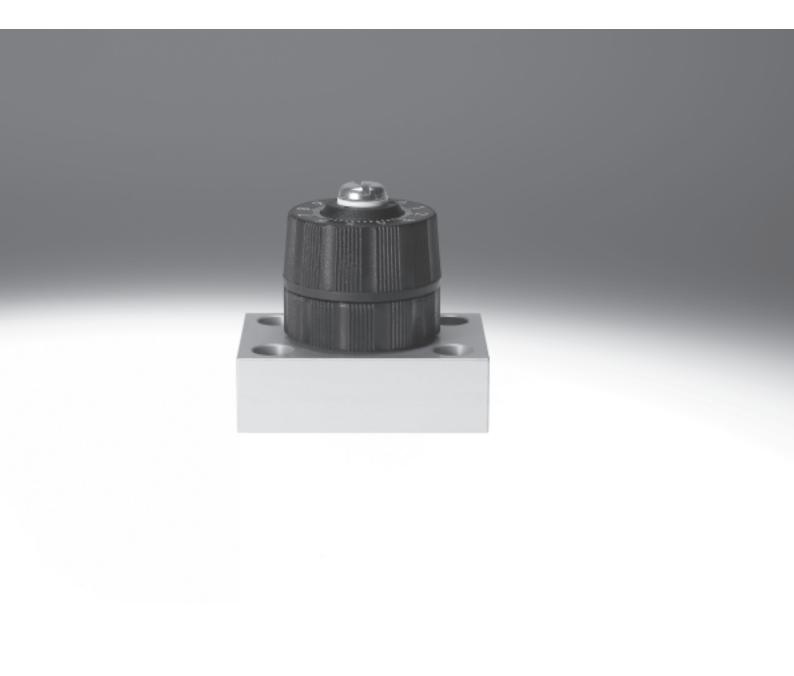
# **FESTO**

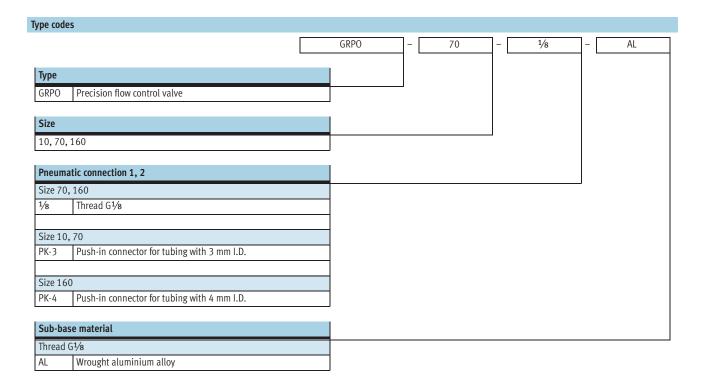




Product range overview and type codes

Product range overview										
Valve function	Version	Туре	Connection direction	Pneumatic connection 2	Pneumatic connection 1	qnN <sup>1)</sup>	Adjustment component	→ Page/ Internet		
						[l/min]				
Metal										
Flow control	( <b>®</b> )	GRPO	-	G1/8	G1/8	40.7 75.8	Rotary knob	3		
function							with scale			
			-	PK-3, PK-4	PK-3, PK-4	3.8 75.8	Rotary knob with scale			
	Wetal Flow control	Metal Flow control function	Valve function   Version   Type	Valve function   Version   Type   Connection	Valve function   Version   Type   Connection   Girection   Connection 2	Valve function     Version     Type     Connection direction     Pneumatic connection 2     Pneumatic connection 1       Metal     Flow control function     GRPO     -     G½8     G½8	Valve function     Version     Type     Connection direction     Pneumatic connection 2     Pneumatic connection 1     qnN¹)       Metal     Flow control function     GRPO     -     G¹/8     G¹/8     40.7 75.8	Valve function     Version     Type     Connection direction     Pneumatic connection 2     qnN¹)     Adjustment component       Metal     Flow control function     GRPO     -     G¹/8     G¹/8     40.7 75.8     Rotary knob with scale       PK-3, PK-4     PK-3, PK-4     3.8 75.8     Rotary knob		

<sup>1)</sup> Standard nominal flow rate in direction of flow control.





Technical data

Function



Flow rate  $3.8 \dots 75.8 \ l/min$  Temperature range  $-10 \dots +50 \ ^{\circ}\text{C}$  Pressure

0 ... 8 bar



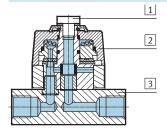
General technical data									
Valve function	Flow control function	ow control function							
Туре	GRPOAL	GRPOPK							
Pneumatic connection 1	G <sup>1</sup> / <sub>8</sub>	PK-3	PK-4						
Pneumatic connection 2	G½8	PK-3	PK-4						
Adjustment component	Rotary knob with scale	·							
Actuation type	Manual	Manual							
Type of mounting	On sub-base	Front panel mounting	Front panel mounting						
Mounting position	Any	•							

Note: This product conforms to ISO 1179-1 and ISO 228-1

Operating and environmental conditions							
Operating pressure [bar]	0 8						
Operating pressure $2 \rightarrow 1$ [bar]	0 0.5						
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [5:4:3]						
	Inert gases						
Note on operating/pilot medium	Operation with lubricated medium not possible						
Ambient temperature [°C]	-10 +50						
Temperature of medium [°C]	-10 +50						

## Materials





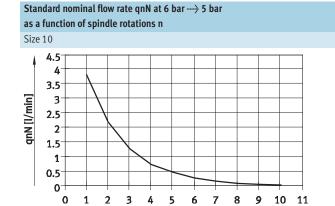
<u> </u>	1
	2
	3

Precision flow control valve GRPOAL						
1 Screws	Steel					
2 Housing	PA, reinforced					
3 Sub-base	Wrought aluminium alloy					
– Seals	NBR, PVC					
Note on materials	Contains PWIS (paint-wetting impairment					
	substances)					

Precision flow control valve GRPOPK							
1 Screws	Steel						
2 Housing	PA, reinforced						
3 Retainer	Wrought aluminium alloy						
4 PK connections	Brass, wrought aluminium alloy						
- Seals	NBR, PVC						
Note on materials	Contains PWIS (paint-wetting impairment						
	substances)						



Technical data

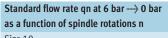


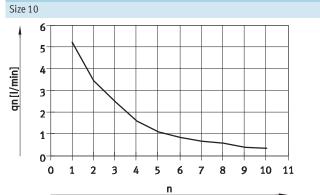
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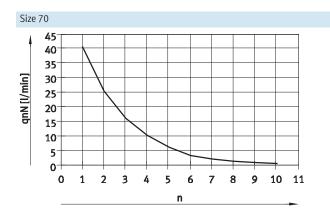
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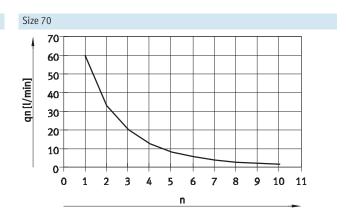
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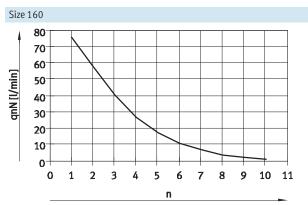
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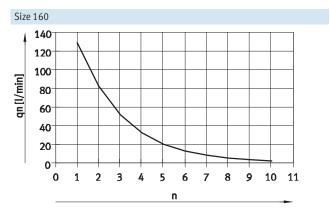










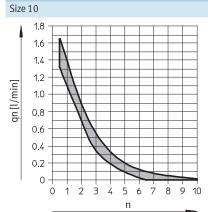


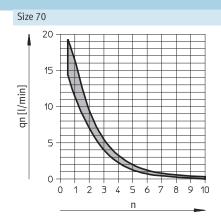


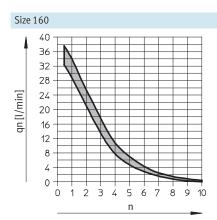
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Technical data



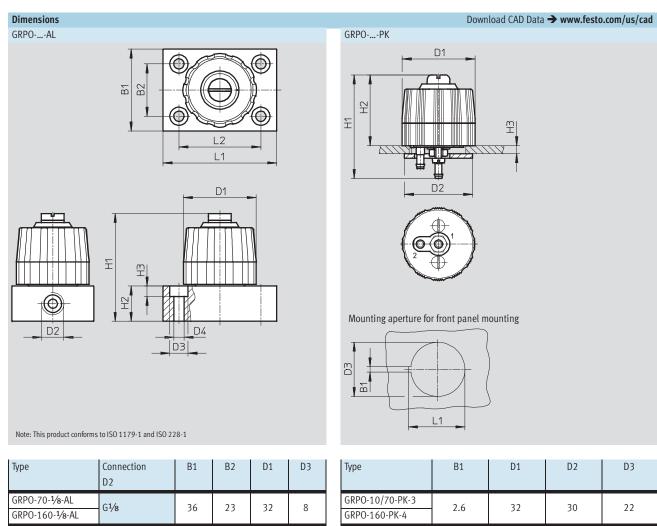






**FESTO** 

Technical data



іуре	D2	OII	DI	D2	DI	υs		Туре	DI	DI	D2	כט
GRPO-70-1/8-AL GRPO-160-1/8-AL	G1/8		36	23	32	8		GRPO-10/70-PK-3 GRPO-160-PK-4	2.6	32	30	22
							1		•			
Туре	D4	H1	H2	Н3	L1	L2		Туре	H1	H2	Н3	L1
GRPO-70-1/8-AL	4.5	47.4	15.5	4.6	50	36		GRPO-10/70-PK-3	45.6	31.2	1.5 10	23.5
GPPΩ-16Ω-1/6-ΔI	4.5	47.4	15.5	4.0	50	٥٥	l	GPPO-160-PK-//	44.5	21.2	1.5 10	۷٥.٥

GRPO-160-PK-4

44.5

Ordering dat	ta							
	Pneuma	atic	Standard nominal flow rate	Standard flow rate qn	Standard flow rate qn	Weight	Part No.	Туре
	connect	ion	qnN at 6 bar 5 bar	at 6 bar 0 bar	at 1 bar 0 bar			
			In direction of flow	In direction of flow	In direction of flow			
			control	control	control			
	1	2	[l/min]	[l/min]	[l/min]	[g]		
Rotary knob	with scale							
	G <sup>1</sup> /8	G1/8	40.7	60	19	110	542024	GRPO-70-1/8-AL
			75.8	129	38	110	542025	GRPO-160-½8-AL
		•			•	•		
B	PK-3	PK-3	3.8	5.2	1.65	48	13229	GRPO-10-PK-3
	PK-3	PK-3	40.7	60	19	48	10803	GRPO-70-PK-3
	PK-4	PK-4	75.8	129	38	48	13230	GRPO-160-PK-4

GRPO-160-1/8-AL

**FESTO** 

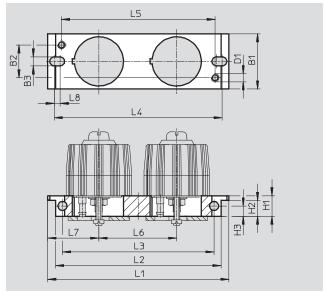
Accessories

## Mounting plates APL-2N-GRP

for precision flow control valve GRPO-...-PK

Material: PA





Dimensions														
B1	B2	В3	D1	H1	H2	H3	L1	L2	L3	L4	L5	L6	L7	L8
26.8	16	4.4	M4	10	7.7	5	88.5	80.8	74	81	75	38	25	2.3

Ordering data	Ordering data								
	Bore $\varnothing$	Weight	Part No.	Туре					
	[mm]	[g]							
	22	16	10391	APL-2N-GRP					
	2 x 22	22	10392	APL-2N-GRPX2					

## **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

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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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