

Series 1700 - Electronic proportional regulators

General

Modern industrial applications require increasingly high performances from their pneumatic components. For example, the speed and thrust of a pneumatic actuator may need to be varied. These parameters often need to be modified dynamically while an operation is running.

This solution can be achieved by means of a regulator that can vary pressure over time.

Pneumax portfolio includes 1700 Series electronic proportional regulator, available in three different sizes with flow rates of 7, 1100, and 4000 NI/min respectively and supporting Analog/Digital, CANopen® or IO-Link communication interfaces.

Application fields

Typical applications will include the necessity to dynamically control the force of the actuator, be it thrust of torque.

Examples include: Closing systems, painting systems, tensioning systems, packaging systems, pneumatic braking systems, force control for welding grippers, thickness compensation systems, balancing systems, laser cutting, pressure transducers for the control of modulating valves, test benches for system testing, force control for buffers on polishers, etc.

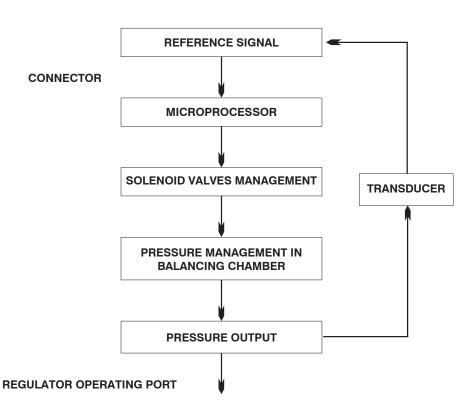
Product presentation

The supply and exhaust connections are on one side of the regulator and the working port is on the opposite side. The two remaining sides carry G 1/8" ports that are blanked off with removable plugs, these can be used to connect a pressure gauge or as an outlet port. If you order the version with the external feedback there is a M5 threaded connection to which connect the feedback pressure (to the pressure transducer). This connection is placed on the outlet connection side. This option allows to take the signal from a remote point instead of directly from the outlet connection; this function is typically used when the regulated pressure is used far away to the regulator. The control solenoid valves, the pressure sensor, and the management electronics are placed in upper part of the regulator. The electronic management system is the same for all the size 0, size 1 and size 3 regulators.

Functional diagram Analogic/Digital +24VDC 0 VDC MICROPROCESS. E P

CLOSED LOOP diagram (internal control circuit)

The proportional regulator is known as a CLOSED LOOP regulator because a pressure transducer in the circuit transmits a continuous analog signal to the microprocessor, which compares the reference value and supplies the control solenoid valves accordingly.



Features

Pneumatic

Fluid	Air filtered at 5 mi	Air filtered at 5 micron and dehumidified						
Minimum inlet pressure	Desired outlet pre	Desired outlet pressure + 1 bar						
Maximum inlet pressure	10 bar							
Outlet pressure	0 ÷ 9 bar	0 ÷ 9 bar						
Nominal flowrate from 1 to 2	Size 0	Size 1	Size 3					
(6 bar ΔP 1 bar)	7 NI/min	1100 NI/min	4000 NI/min					
Discharge flowrate (a 6 bar with 1 bar overpressure)	7 NI/min	1300 NI/min	4500 NI/min					
Air consumption	< 1 NI/min	< 1 NI/min	< 1 NI/min					
Supply connection	M5	G 1/4"	G 1/2"					
Operating connection	M5	G 1/4"	G 1/2"					
Exhaust connection	Ø1,8	G 1/8"	G 3/8"					
Maximum fitting tightening	3 Nm	15 Nm	15 Nm					

Electric

Supply voltage		24VDC ± 10% (stabilized with ripple<1%)				
Standby current consumption		70mA				
Current consumption with solenoid	valves on	400mA				
**Reference Signal	Voltage	*0 ÷ 10 V *0 ÷ 5 V *1 ÷ 5 V				
	Current	*4 ÷ 20 mA *0 ÷ 20 mA				
**!	Voltage	10 kΩ				
**Input Impedance	Current	250 Ω				
**Digital Inputs		24VDC ± 10%				
**Digital Output		24 VDC PNP (max current 50 mA)				

Functional

Linearity	± Insensitivity
Hysteresis	± Insensitivity
Repeatability	± Insensitivity
Sensitivity	0,01 bar
Assembly position	Indifferent
Protection grade	IP65 (with casing fitted)
Ambient temperature	-5° ÷ 50° / 23°F ÷ 122°F

Constructional

Body	Anodized aluminum					
Shutters	Brass with vulcanized NBR					
Diaphragm	Cloth-covered rubber					
Seals	NBR					
Cover for electrical part	Technopolymer					
Springs	AISI 302					
Mainh	Size 0	Size 1	Size 3			
Weight	168 gr.	360 gr.	850 gr.			

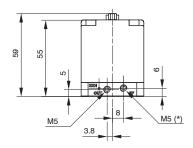
^{*} Selectable by keyboard or by RS-232

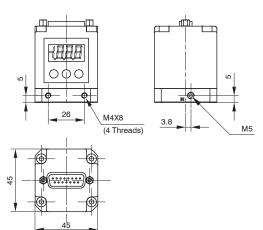
^{**} Valid only for devices with analog input

Overall dimensions ("521" standard version and CANopen® version with SUB-D 15 poles)

Size 0







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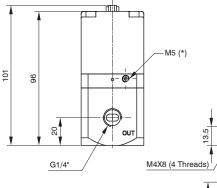
G1/8"

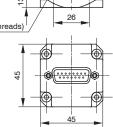
* = EXTERNAL FEEDBACK INPUT CONNECTION (AVAILABLE ONLY ON THE EXTERNAL FEEDBACK VERSION)

Size 1







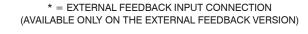


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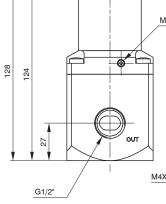
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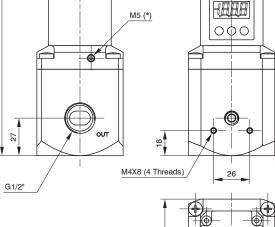
G1/4"



Size 3

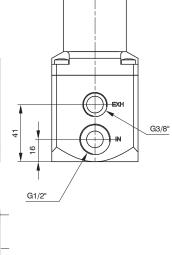






62

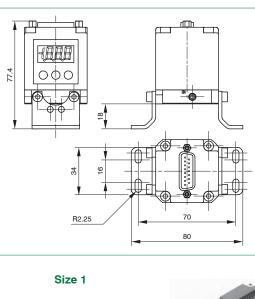
62



* = EXTERNAL FEEDBACK INPUT CONNECTION (AVAILABLE ONLY ON THE EXTERNAL FEEDBACK VERSION)

Mounting options ("521" standard version and CANopen® version with SUB-D 15 poles)

In addition to mounting directly using the M4 tappings on the body, the 170M5 bracket may also be used, as shown below:



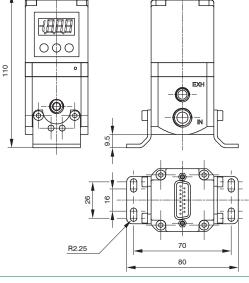




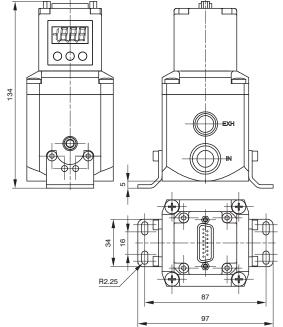
Size 0







Size 3







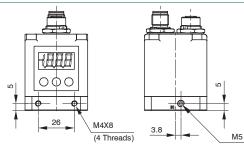
2

Overall dimensions ("521 M12 version" - CANopen® version)

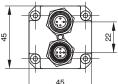
Size 0



22 M5 M5 (*)

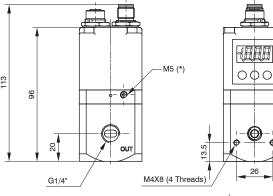


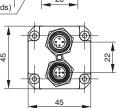
* = EXTERNAL FEEDBACK INPUT CONNECTION (AVAILABLE ONLY ON THE EXTERNAL FEEDBACK VERSION)



Size 1



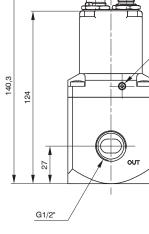


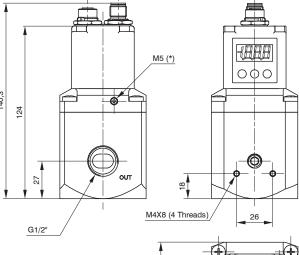


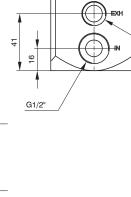
* = EXTERNAL FEEDBACK INPUT CONNECTION (AVAILABLE ONLY ON THE EXTERNAL FEEDBACK VERSION)

Size 3









G1/4"

G1/8"

G3/8"

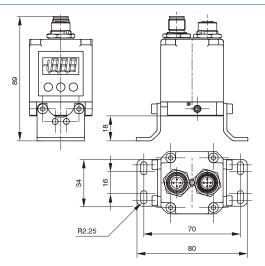
* = EXTERNAL FEEDBACK INPUT CONNECTION (AVAILABLE ONLY ON THE EXTERNAL FEEDBACK VERSION)

62

Size 0

Mounting options ("521 M12 version" - CANopen® version)

In addition to mounting directly using the M4 tappings on the body, the 170M5 bracket may also be used, as shown below:



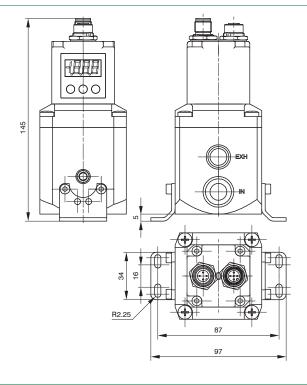
Size 1





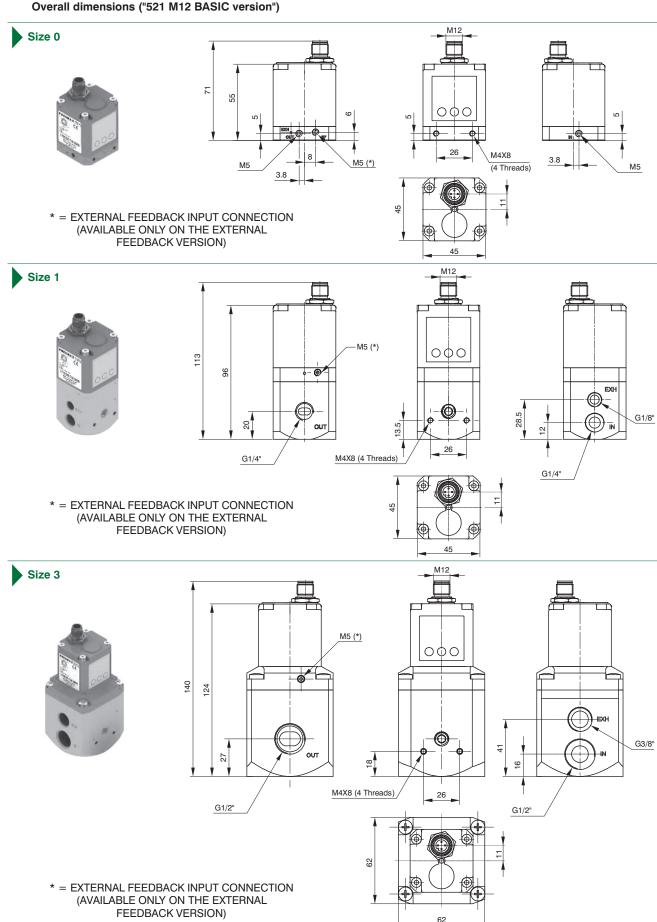
122

Size 3



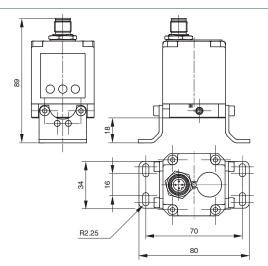


2



Mounting options ("521 M12 BASIC version")

In addition to mounting directly using the M4 tappings on the body, the 170M5 bracket may also be used, as shown below:

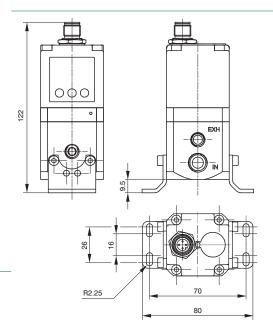


Size 0



Size 1

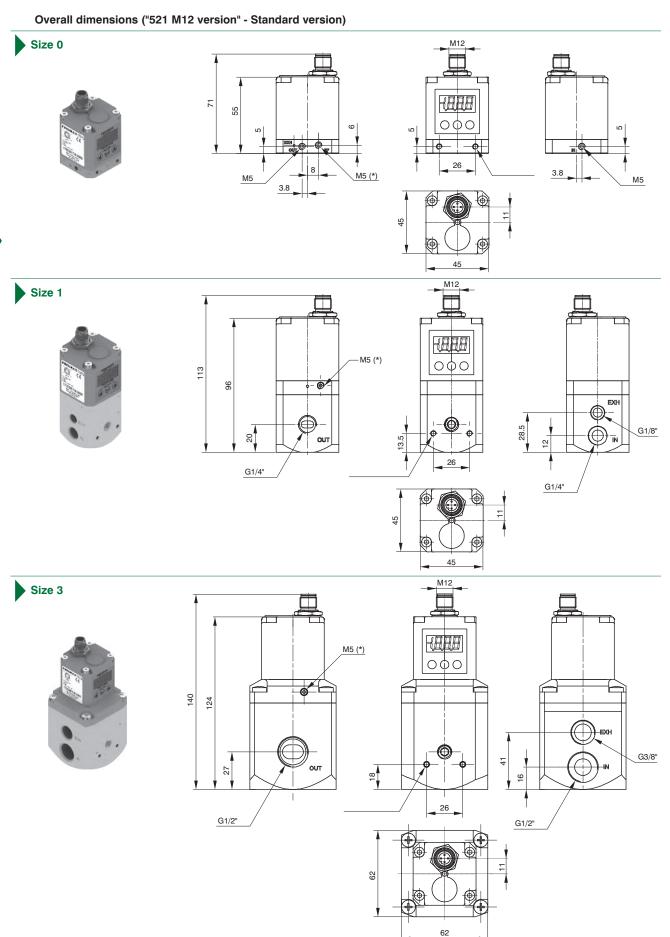




000 145



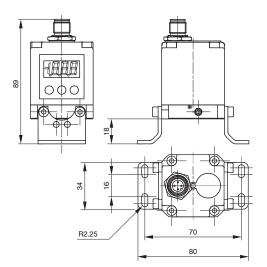
Size 3





Mounting options ("521 M12 version" - Standard version)

In addition to mounting directly using the M4 tappings on the body, the 170M5 bracket may also be used, as shown below:

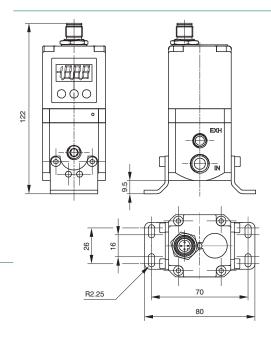


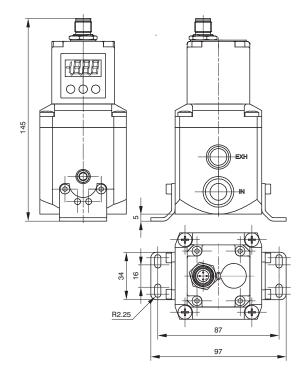
Size 0



Size 1







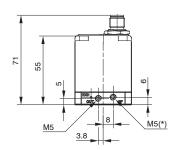


Size 3

Overall dimensions ("521 IO-Link version")

Size 0





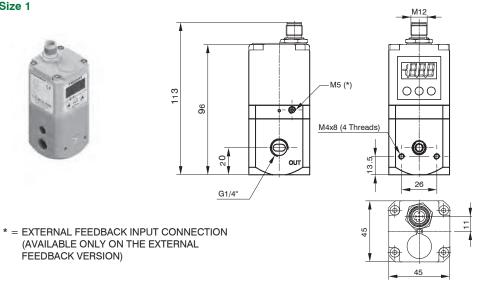
M12 000 26 M4x8 (4 Threads) 3.8

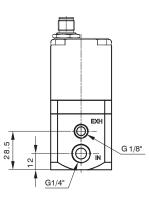
* = EXTERNAL FEEDBACK INPUT CONNECTION (AVAILABLE ONLY ON THE EXTERNAL FEEDBACK VERSION)

Size 1



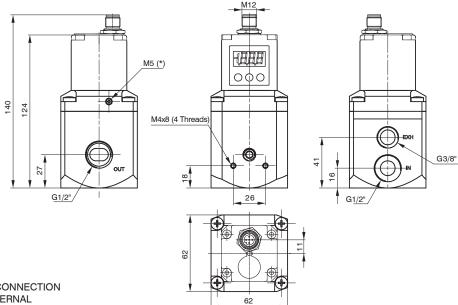
FEEDBACK VERSION)





Size 3



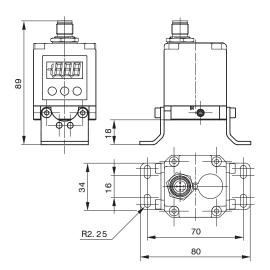


* = EXTERNAL FEEDBACK INPUT CONNECTION (AVAILABLE ONLY ON THE EXTERNAL FEEDBACK VERSION)



Mounting options ("521 IO-Link version")

In addition to mounting directly using the M4 tappings on the body, the 170M5 bracket may also be used, as shown below.

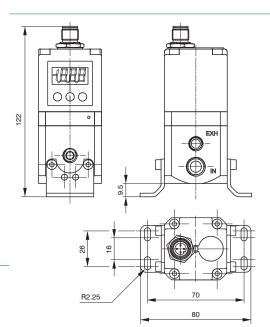


Size 0



Size 1





R2.25



Size 3



Installation/Operation

PNEUMATIC CONNECTION



The compressed air is connected by means of M5 threaded holes (for size 0 regulators), G 1/4" threaded holes (for size 1 regulators) and G 1/2" threaded holes (for size 3 regulators) on the body.

Before making the connections, eliminate any impurities in the connecting pipes to prevent chippings or dust entering the unit. Do not supply the circuit with more than 10 bar pressure and make sure that the compressed air is dried (excessive condensate could cause the appliance to malfunction) and filtered at 5 micron. The supply pressure to the regulator must always be at least 1 bar greater than the desired outlet pressure.

If a silencer is applied to the discharge path the unit response time may change; periodically check that the silencer is not blocked and replace it if necessary.



ELECTRICAL CONNECTION

For the electrical connection a SUB-D 15-pole female or a M12 connector is used (accordingly to the model, to be ordered separately). Wire in accordance with the wiring diagram shown below.

Warning: INCORRECT CONNECTIONS MAY DAMAGE THE DEVICE

NOTES ON OPERATION



If the electric supply is interrupted, the outlet pressure is maintained at the set value. However, maintaining the exact value cannot be ensured as it is impossible to operate the solenoid valves.

In order to discharge the circuit downstream, zero the reference, make sure that the display shows a pressure value equal to zero and then disconnect the electric power supply.

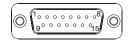
A version of the device is available that exhausts the downstream circuit when the power supply is removed. (Option "A" at the end of the ordering code).

If the compressed-air supply is suspended and the electric power supply is maintained a whirring will be heard that is due to the solenoid valves; an operating parameter can be activated (P18) that triggers the regulator protection whenever the requested pressure is not reached within 4 seconds of the reference signal being sent. In this case the system will intervene to interrupt the control of the solenoid valves. Every twenty seconds, the unit will start the reset procedure until standard operating conditions have been restored.

"521" Standard version with D-SUB connector



TOP VIEW OF THE REGULATOR CONNECTOR



- CONNECTOR PINOUT: = DIGITAL INPUT 1

- = DIGITAL INPUT 6 = DIGITAL INPUT 7
- = DIGITAL INPUT 2
- = DIGITAL INPUT 3
- = DIGITAL INPUT 4
- = DIGITAL INPUT 5

- **DIGITAL INPUT 8**
- = ANALOG INPUT / SUPPLY (24 VDC)
- 10 = DIGITAL OUTPUT (24 VDC PNP) 11 = ANALOG OUTPUT (CURRENT)
- 12 = ANALOG OUTPUT (VOLTAGE)
- 13 = Rx RS-232
- 14 = Tx RS-232
- 15 = GND

"521" M12 BASIC and Standard versions



M12 BASIC version

- CONNECTOR PINOUT:
- = POWER SUPPLY (24 VDC)
- 2 = NC
- 3 = GND
- = ANALOG INPUT 4

M12 4P MALE

M12 Standard version

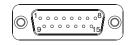
CONNECTOR PINOUT:

- 1 = POWER SUPPLY (24 VDC)
- = ANALOG OUTPUT
- (depending on the model)
- = GND
- = ANALOG INPUT 4

"521" CANopen® version with D-SUB connector



TOP VIEW OF THE REGULATOR CONNECTOR



"521" CANopen® version with M12 connector



M12 5P

FFMAI F

M12 4P MALE

CONNECTOR PINOUT: 1 = CAN_SHIELD $2 = CAN^{-}V +$

3 = CAN_GND

 $4 = CAN^{-}H$ 5 = CAN L

6 = NC 7 = NC

8 = NC9 = SUPPLY

(+24 VDC) 10 = CAN SHIELD

11 = CAN V+ 12 = CAN GND

13 = CAN H 14 = CAN L

15 = GND

"521 IO-Link version"





MALE

CONNECTOR PINOUT:

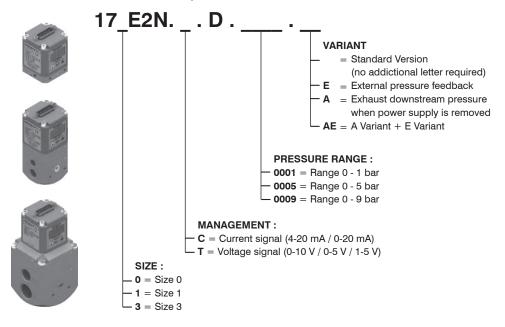
= +24 VDC (P24)

3 = L-= C/Q

= GND (N24)

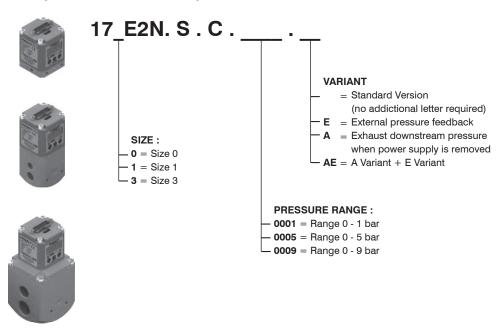
ORDERING CODES

"521" standard version with SUB-D 15 poles

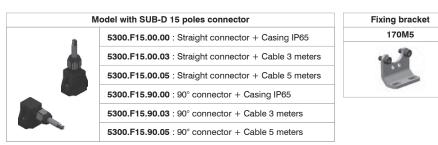


ORDERING CODES

"521" CANopen® version with SUB-D 15 poles



Accessories

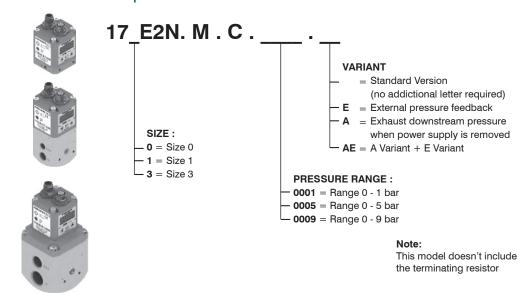


* Whitout cable



ORDERING CODES

"521 M12 version" - CANopen® version



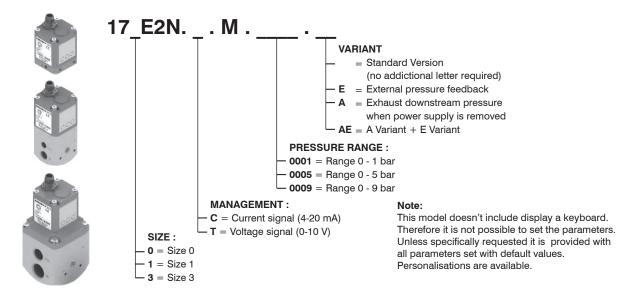
Accessoris







ORDERING CODES "521 M12 BASIC version"



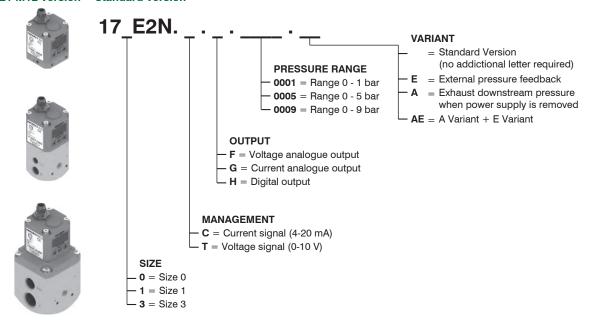
Accessories





ORDERING CODES

"521 M12 version" - Standard version

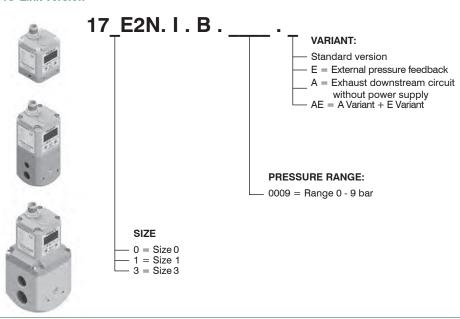


Accessories





ORDERING CODES "521 IO-Link version"



Accessories







Series 1700 - Miniaturized proportional pressure regulator

General

Modern industrial applications constantly require more sophisticated and better performing pneumatic components.

Flexibility and adaptability are key factor when designing a machine. The possibility to change the application parameter during operation such as for example the speed of a cylinder or the force generated by a rotary actuator are beneficial to the designer.

In the past it was necessary to design complicated pneumatic circuits based on pneumatic logic elements which required a lot of space and complicated set up, today, thanks to the electronic proportional regulators such operations are extremely easy to achieve and offer even more flexibility.

Pneumax miniaturized proportional regulators series integrates all the main features of the 521 series with the exclusion of the display and analogue/digital output.

High precision in pressure regulation, fast response speed, assembling options and reduced dimensions are the main advantages.

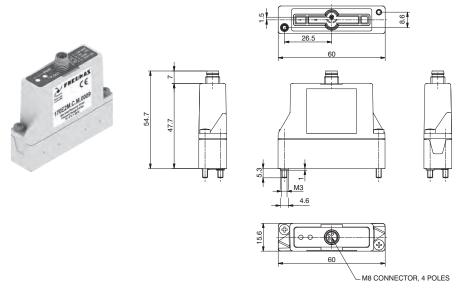
Features

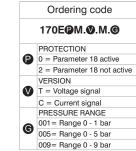
	Fluid	Air filtered at 5 micron and dehumidified					
	Minimum inlet pressure	Desired outlet pressure + 1 bar					
	Maximum inlet pressure	10 bar					
	Outlet pressure	Orderin	g code	009			
ပ	Outlet pressure	Pressur	e value	0 - 9 bar			
Pneumatic	Nominal flowrate from 1 to 2 (6 bar Δp 1 bar)			7 NI /min			
nen	Discharge flowrate			7 NI /min			
۳,	(at 6 bar with 1 bar overpressure)			7 131/111111			
	Air consumption			M5 / Ø4			
	Operating connection			M5 / Ø4			
	Exhaust connection			M5 / Ø4			
	Maximum fitting tightening			3 Nm			
	Supply voltage		24VDC ±	10% (stabilised with ripple <1%)			
	Standby current consumption			55 mA			
	Current consumption with solenoid valves on	145 mA					
<u>ပ</u>	Reference signal	Voltage* 0 - 10 V					
Electric	Helefelice Signal	Current*	4 - 20 mA				
Ш	Input impedance	Voltage	Voltage 10 KΩ				
	input impedance	Current	250 Ω				
	Analog outputs voltage	0,2 - 10 V (10 V to 9 bar)					
	Connector	M8 4 poles					
	Linearity	< ± 0,3 % F.S.					
	Hysteresis			<0,3 % F.S.			
Functional	Repeatability			< ± 0,5 % F.S.			
ctio	Sensitivity			< ± 0,5 % F.S.			
Fun	Assembly position			Indifferent			
	Protection grade		I	P65 (with casing fitted)			
	Ambient temperature			-5° - 50°C / 23° - 122°F			
Constructional	Body	Technopolymer					
ıcti	Seals	NBR					
strı	Cover for electrical part	Technopolymer					
Son	Weight	60 g					
_							

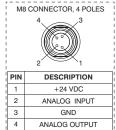
^{*} Request during ordering process

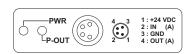


Proportional pressure regulator

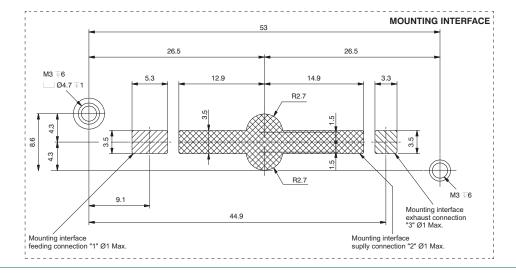






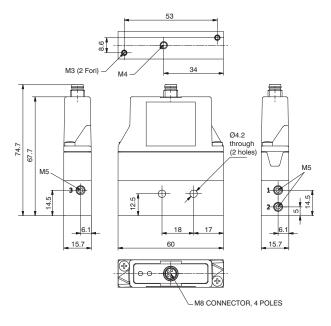


PWR	Green Led: The regulator is properly powered
P-OUT	Green Led: lights up when the outlet pressure is higher than the desired pressure minus 0.2 bar and less than the desired pressure more 0.2 bar



Proportional Pressure Regulator c/w M5 In-Line Single Base





Ordering code

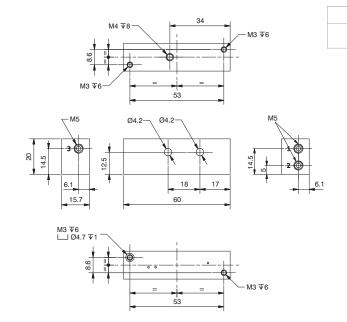
170E@M. .M. .G.FO

PROTECTION
0 = Parameter 18 active
2 = Parameter 18 not active
VERSION
T = Voltage signal
C = Current signal
PRESSURE RANGE
001 = Range 0 - 1 bar
005 = Range 0 - 5 bar
009 = Range 0 - 9 bar

Weight: 110 g

M5 In-Line Single Base



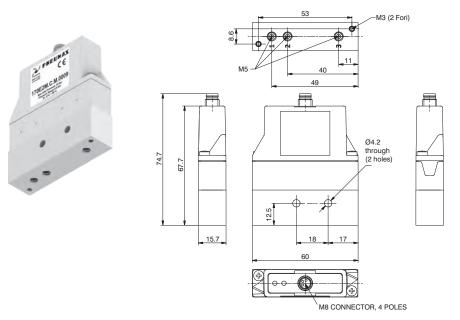


Ordering code

170M1.FO



Proportional Pressure Regulator c/w M5 Bottom Entry Base



Ordering code 170E@M.**Ø**.M.**@**.FV PROTECTION 0 = Parameter 18 active 2 = Parameter 18 not active VERSION T = Voltage signal C = Current signal

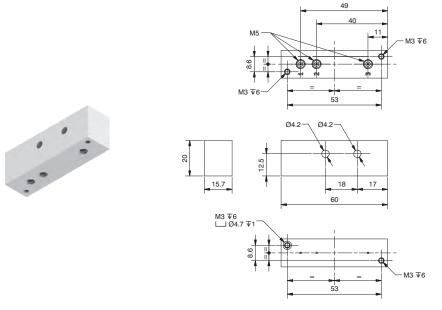
PRESSURE RANGE

001 = Range 0 - 1 bar

005 = Range 0 - 5 bar 009= Range 0 - 9 bar

Weight: 110 g

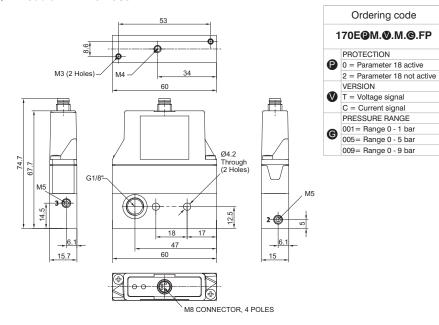
M5 Bottom Entry Single Base



Ordering code 170M1.FV

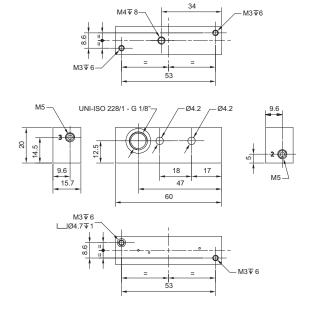
Proportional Pressure Regulator c/w Modular In-Line Base





Weight: 110 g

Single Modular In-Line Base

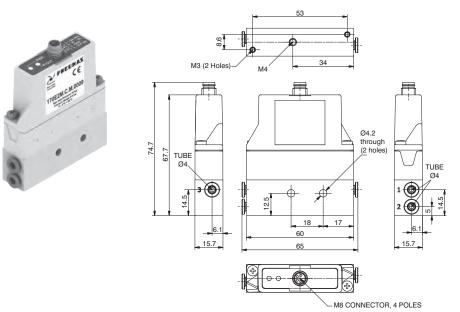


Ordering code

170M1.FP

Proportional technology Series 1700 Miniaturized proportional pressure regulator

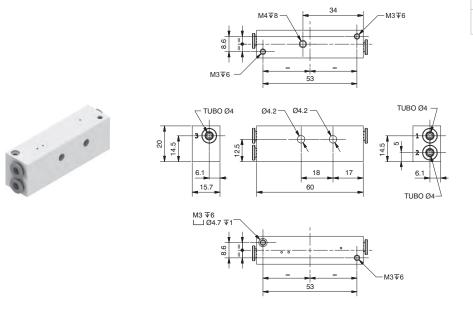
Proportional Pressure Regulator c/w 4mm In-Line Single base



Ordering code 170E@M.**Ø**.M.**@**.TO PROTECTION 0 = Parameter 18 active 2 = Parameter 18 not active VERSION T = Voltage signal C = Current signal
PRESSURE RANGE
001 = Range 0 - 1 bar
005 = Range 0 - 5 bar 009= Range 0 - 9 bar

Weight: 110 g

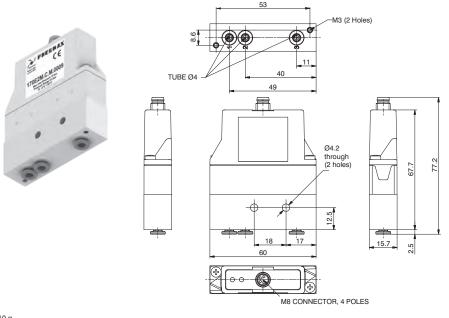
Single 4mm In-Line Base



Ordering code

170M1.TO

Proportional Pressure Regulator c/w 4mm Bottom Entry Single Base



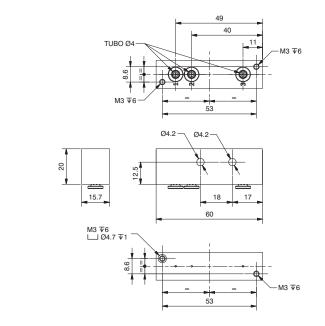
Ordering code

170E@M. Ø. M. G.TV

PROTECTION
0 = Parameter 18 active
2 = Parameter 18 not active
VERSION
T = Voltage signal
C = Current signal
PRESSURE RANGE
001 = Range 0 - 1 bar
005 = Range 0 - 5 bar
009 = Range 0 - 9 bar

Weight: 110 g

Single 4mm Bottom Entry Base

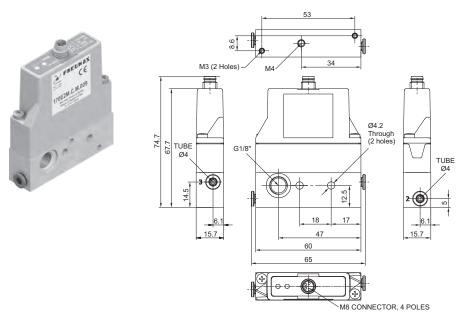


Ordering code

170M1.TV



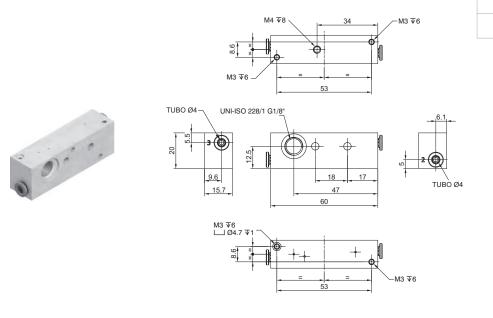
Proportional Pressure Regulator c/w 4mm In-Line Modular Base



Ordering code 170E@M.♥.M.@.TP PROTECTION 0 = Parameter 18 active 2 = Parameter 18 not active VERSION ▼ T = Voltage signal C = Current signal
PRESSURE RANGE
001 = Range 0 - 1 bar
005 = Range 0 - 5 bar 009= Range 0 - 9 bar

Weight: 110 g

Single 4mm In-Line Modular Base

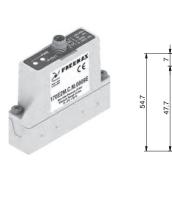


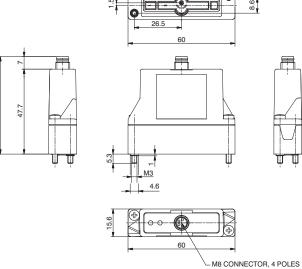
Ordering code

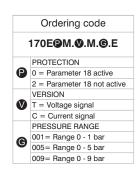
170M1.TP

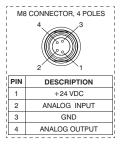
PNEUMAX

Proportional pressure regulator with external feedback



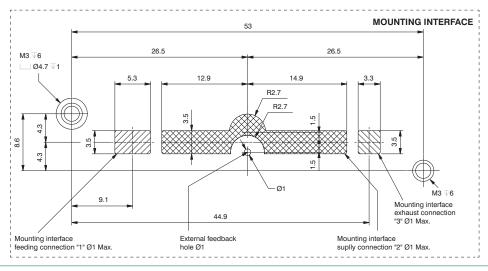








PWR	Green Led: The regulator is properly powered
P-OUT	Green Led: lights up when the outlet pressure is higher than the desired pressure minus 0.2 bar and less than the desired pressure more 0.2 bar





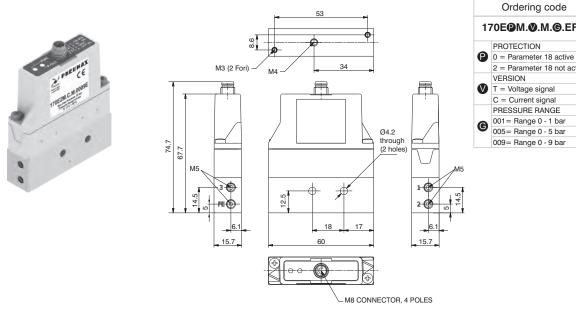
Ordering code 170E@M.♥.M.@.EFO PROTECTION

2 = Parameter 18 not active

009= Range 0 - 9 bar

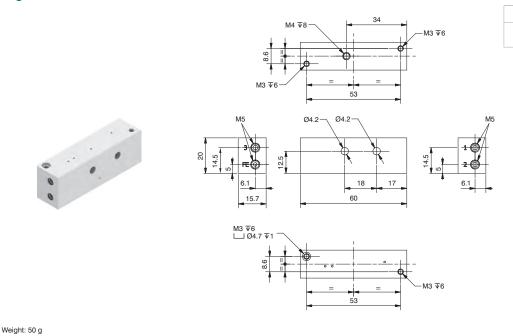
VERSION

Proportional Pressure Regulator c/w M5 In-Line Single Base with External Feedback



Weight: 110 g

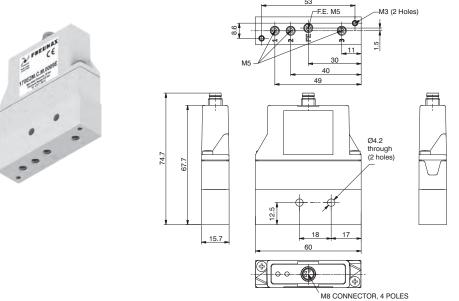
Single M5 In-Line Base with External Feedback



Ordering code

170M1.EFO

Proportional Pressure Regulator c/w M5 Bottom Entry Base with External Feedback



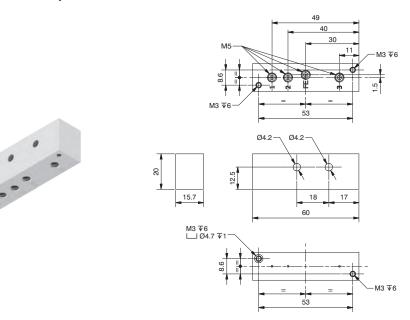
Ordering code

170E@M. . M. . G. EFV

PROTECTION
0 = Parameter 18 active
2 = Parameter 18 not active
VERSION
T = Voltage signal
C = Current signal
PRESSURE RANGE
001= Range 0 - 1 bar
005= Range 0 - 5 bar
009= Range 0 - 9 bar

Weight: 110 g

Single M5 Bottom Entry Base with External Feedback



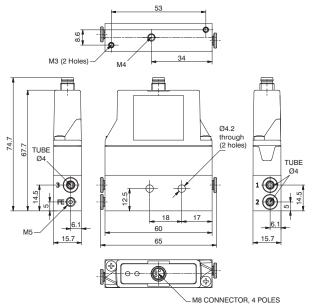
Ordering code

170M1.EFV



Proportional Pressure Regulator c/w 4mm In-Line Single Base with External Feedback





PROTECTION

0 = Parameter 18 active
2 = Parameter 18 not active
VERSION

V = Voltage signal
C = Current signal
PRESSURE RANGE
001 = Range 0 - 1 bar
005 = Range 0 - 5 bar
009 = Range 0 - 9 bar

Ordering code

170E@M. ... M. .. E.TO

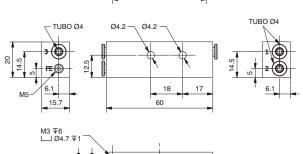
Weight: 110 g

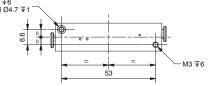
Single 4mm In-Line Base with External Feedback

M3 ¥6 — 53 — 53

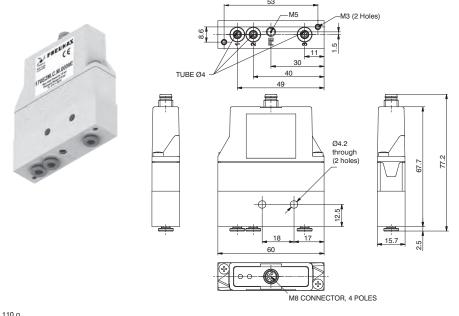
Ordering code 170M1.ETO







Proportional Pressure Regulator c/w 4mm Bottom Entry Single Base with External Feedback



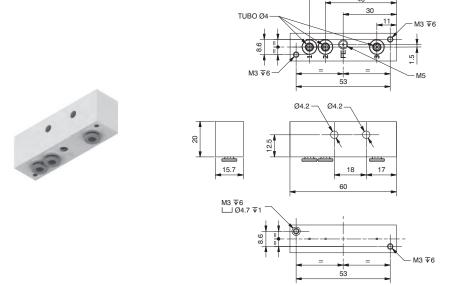
Ordering code

170E@M. Ø. M. G. ETV

PROTECTION
0 = Parameter 18 active
2 = Parameter 18 not active
VERSION
T = Voltage signal
C = Current signal
PRESSURE RANGE
001 = Range 0 - 1 bar
005 = Range 0 - 5 bar
009 = Range 0 - 9 bar

Weight: 110 g

Single 4mm Bottom Entry Base with External Feedback



Ordering code

170M1.ETV

Coding For Proportional Pressure Regulator Modular Manifold

It is possible to assemble a manifold of Miniature Proportional Regulators to a maximum of 12 Regulators.

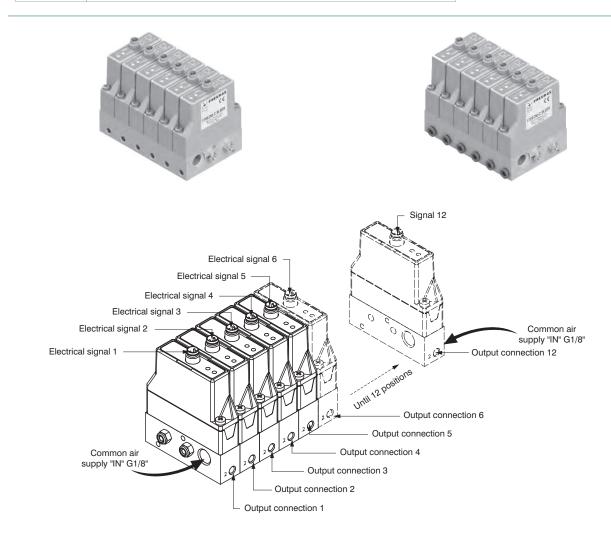
For the coding of the Manifold, refer to the configuration Table below.

The Regulators are feed by a single supply pressure via the G1/8" connection. In the Manifold, the Pressure Regulators operate independently, the output pressure is supplied via the M5 or 4mm output connection depending on the model requested. The electrical signal is controlled via the M8 connector.

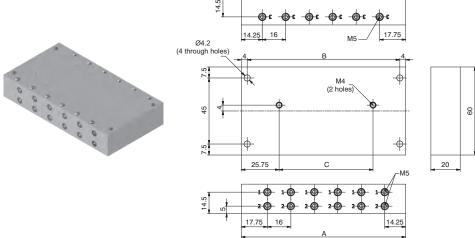
There are also configured single bases up to a maximum of 12 positions with power supplies and independent consumptions (See following pages).

G	1	7	0	_	_	_	М	_	_		_	_	Р	_																		
Group	Se	ries	Size	Parameter 18	N. Places	Control Type	Electrical connection	Pressure range																						Connection	Version	Options
				0 =Eco P18 On	A =02	T =Voltage		001	=0 -	1 b	oar	T =Tube Ø4		= Standard *																		
				2=Eco P18 Off	B =03	C=Current		005	=0 -	5 b	oar	F=M5 Thread		E= External feedback																		
					C =04			009	=0 -	9 b	oar			* no additional																		
					D =05									letter required																		
					E =06																											
					F =07																											
					G =08																											
					H=09																											
					I =10																											
					L=11																											
					M=12																											

Example						
Code	G1700ITM009FP					
Description	10 Position Miniature Proportional Pressure Regulator, Voltage controlled with M5 Ou					



Multiple M5 In-Line Base



		-								
	N° PLACES									
DIMEN.	2 PLA.	3 PLA.	4 PLA.	5 PLA.	6 PLA.	7 PLA.	8 PLA.	9 PLA.	10 PLA.	
Α	48	64	80	96	112	128	144	160	176	
В	40	56	72	88	104	120	136	152	168	
С	0	16	32	48	64	80	96	112	128	

Ordering code

170MQ.FO

N. PLACES	5
2=2 places (weight g	es (weight gr.100)
3=3 places (weight g	es (weight gr.150)

4=4 places (weight gr.200) 5=5 places (weight gr.250)

5=5 places (weight gr.300) 6=6 places (weight gr.300)

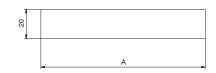
7=7 places (weight gr.350)

8=8 places (weight gr.400) 9=9 places (weight gr.450)

10=10 places (weight gr. 500)

Multiple M5 Bottom Entry Base





	_4		В			_4	
Ø4.2 (4 through holes)							
	•	1	1 1	1	1 .		7.5
+	 	1-1	1	1-1	1-1	Ψ	1
-	2 🚳	2	2	2	2		
9	'	'	, //,	1	'		45
40			<u></u>	M5x0.8			
4		- 📥	- 4/- 4		- 4		
=	+ * *	3-1	3 🚳 - 3 🚳 -	3	3	ф	7.5
	16 1	6					

	N° PLACES								
DIMEN.	2 PLA.	3 PLA.	4 PLA.	5 PLA.	6 PLA.	7 PLA.	8 PLA.	9 PLA.	10 PLA.
Α	48	64	80	96	112	128	144	160	176
В	40	56	72	88	104	120	136	152	168

Ordering code

170M@.FV

1701110111
N. PLACES
2=2 places (weight gr.100)

3=3 places (weight gr.150) 4=4 places (weight gr.200)

5=5 places (weight gr.250) 6=6 places (weight gr.300)

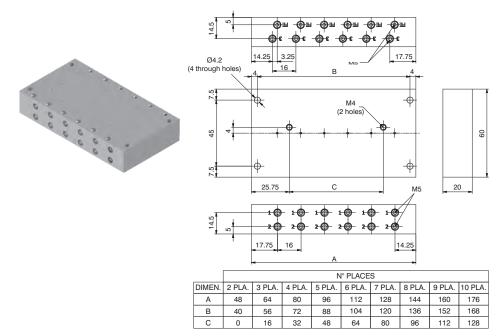
7=7 places (weight gr.350) 8=8 places (weight gr.400)

9=9 places (weight gr.450)

10=10 places (weight gr. 500)

Proportional technology

Multiple M5 In-Line Base with External Feedback



20

	Ordering code
	170M ℚ .EFO
	N. PLACES
	2=2 places (weight gr.100)
	3=3 places (weight gr.150)
	4=4 places (weight gr.200)
	5=5 places (weight gr.250)
W	6=6 places (weight gr.300)
	7=7 places (weight gr.350)
	8=8 places (weight gr.400)
	9=9 places (weight gr.450)
	10=10 places (weight gr. 500)

Ordering code 170M**②**.EFV

2=2 places (weight gr.100)

3=3 places (weight gr.150) 4=4 places (weight gr.200) 5=5 places (weight gr.250) 6=6 places (weight gr.300)

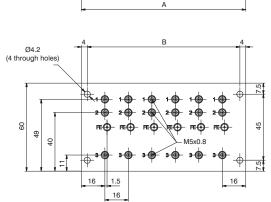
7=7 places (weight gr.350)

8=8 places (weight gr.400) 9=9 places (weight gr.450) 10=10 places (weight gr. 500)

N. PLACES

Multiple M5 Bottom Entry Base with External Feedback





	N° PLACES								
DIMEN.	2 PLA.	3 PLA.	4 PLA.	5 PLA.	6 PLA.	7 PLA.	8 PLA.	9 PLA.	10 PLA.
Α	48	64	80	96	112	128	144	160	176
	40	EG	70	00	104	100	126	150	160

Clip



M4

Orc	lering	code

800.00