

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.

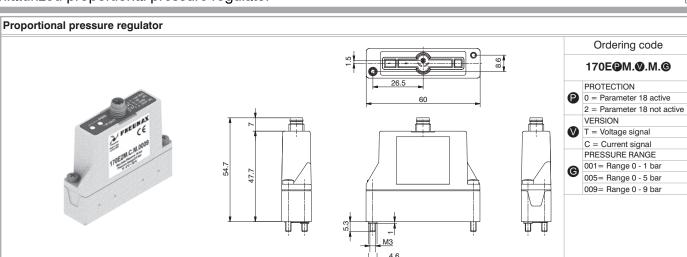
Pneumax miniaturized proportional regulators series integrates all the main features of the 521 series with the exclusion of the display and analogue/digital output.

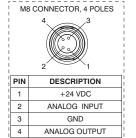
High precision in pressure regulation, fast response speed, assembling options and reduced dimensions are the main advantages.

Features

	Fluid		Air filtered at 5 micron and dehumidified						
	Minimum inlet pressure		Desired outlet pressure + 1 bar						
	Maximum inlet pressure	10 bar							
	Outlet pressure	Ordering code		009					
<u>ي</u>	Outlet pressure	Pressure 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						
<u> </u>	(at 6 bar with 1 bar overpressure)	· ·							
	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							
ပ္ပ	Reference signal	Voltage*		0 - 10 V					
Electric	Helefelice Signal	Current*		4 - 20 mA					
ш	Input impedance	Voltage		10 ΚΩ					
	mpat impodanoo	Current							
	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.							
nal	Repeatability	< ± 0,5 % F.S.							
Functional	Sensitivity		< ± 0,5 % F.S.						
E	Assembly position	Indifferent							
	Protection grade	IP65 (with casing fitted)							
	Ambient temperature	-5° - 50°C / 23° - 122°F							
Constructional	Body		Technopolymer						
cţi	Seals		NBR						
str	Cover for electrical part		Technopolymer						
ပ္ပ	Weight		60 gr.						
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^{*} Request during ordering process

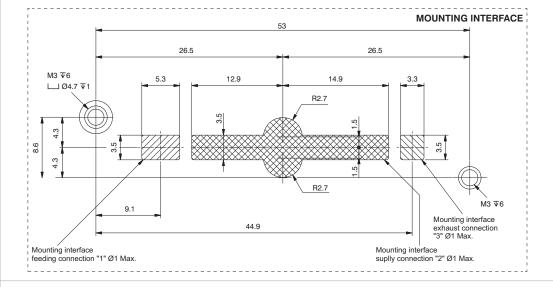


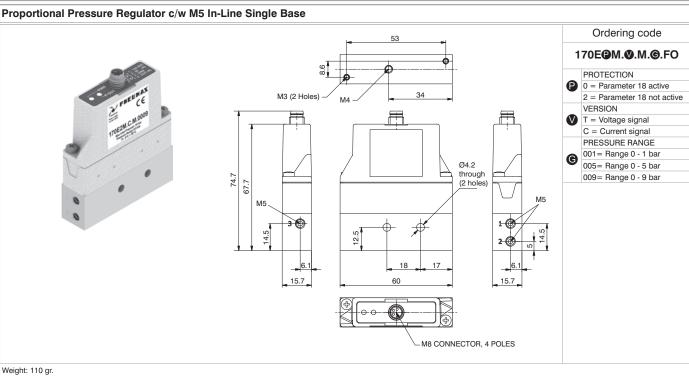




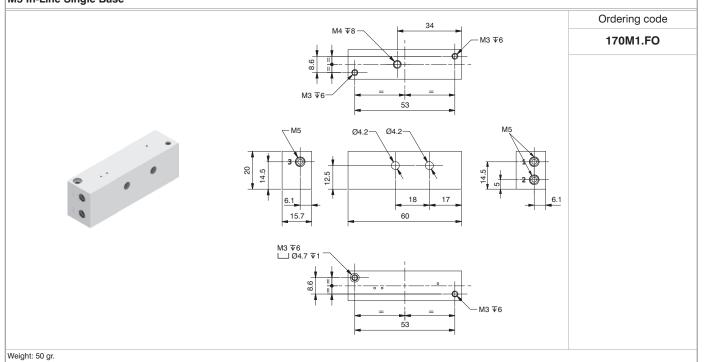
PWR	Green Led: The regulator is properly powered								
P-OUT	Green Led: lights up when the outlet pressure is higher than the desired pressure minus 0.2 bar and less than the desired pressure more 0.2 bar								

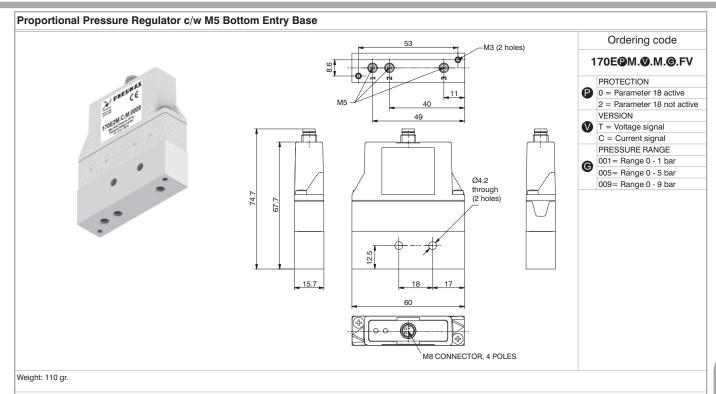
M8 CONNECTOR, 4 POLES

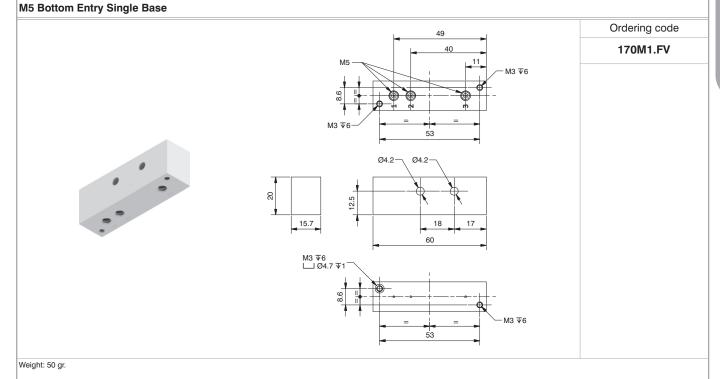


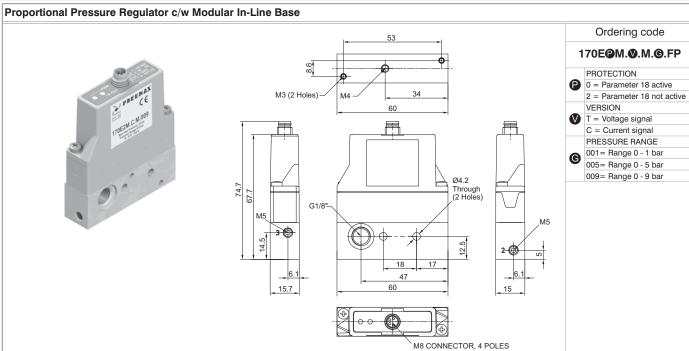








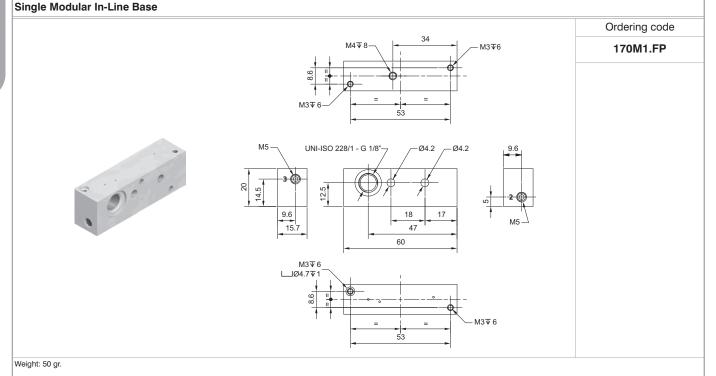


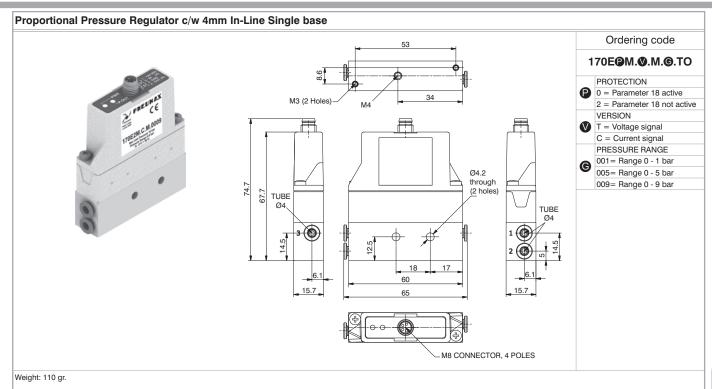




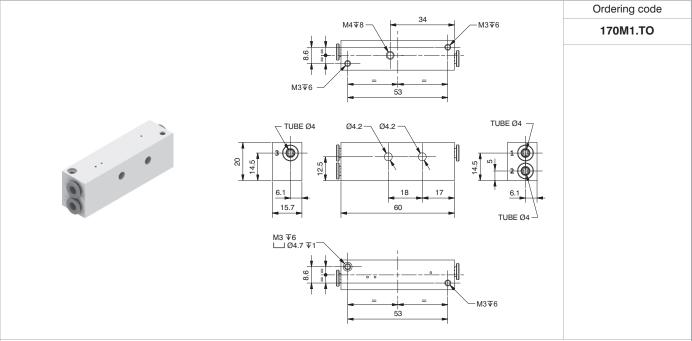
Weight: 110 gr.

Series 1700

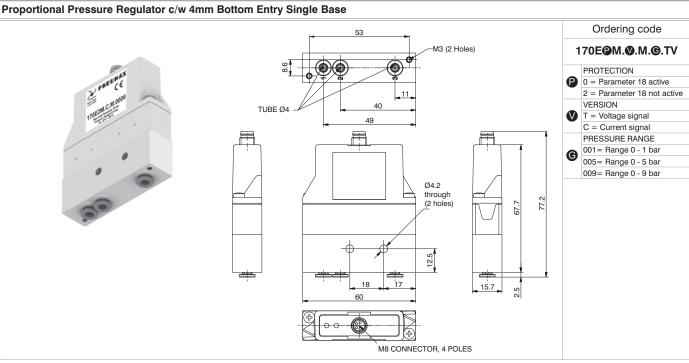






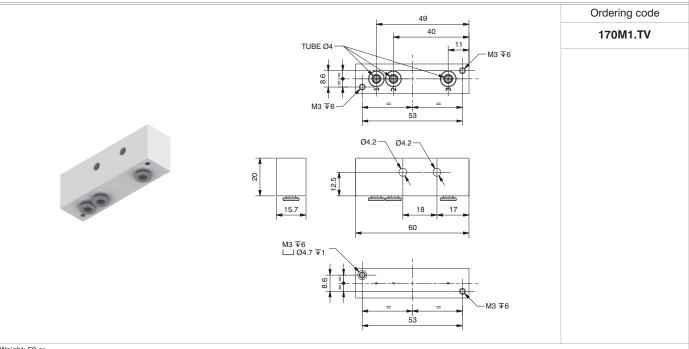


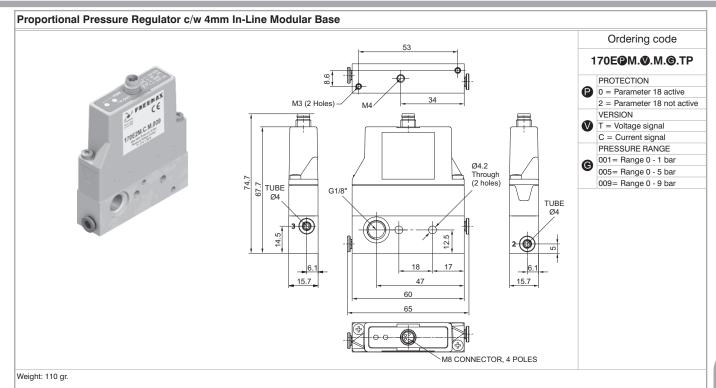
Series 1700



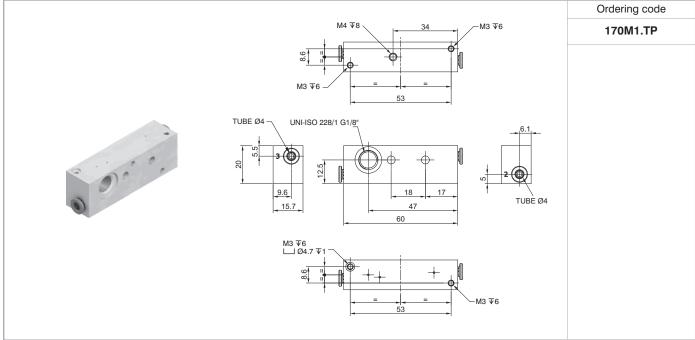
Weight: 110 gr.

Single 4mm Bottom Entry Base

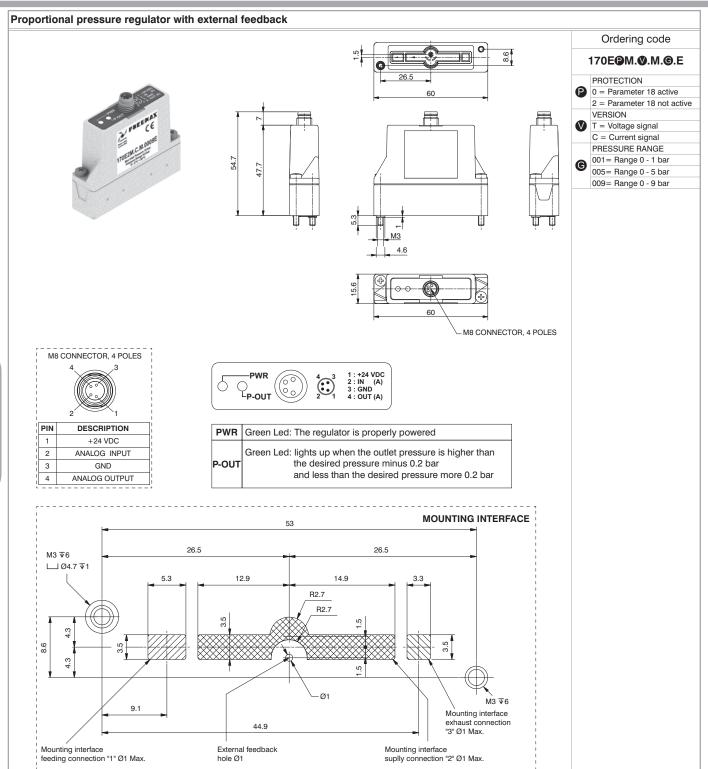


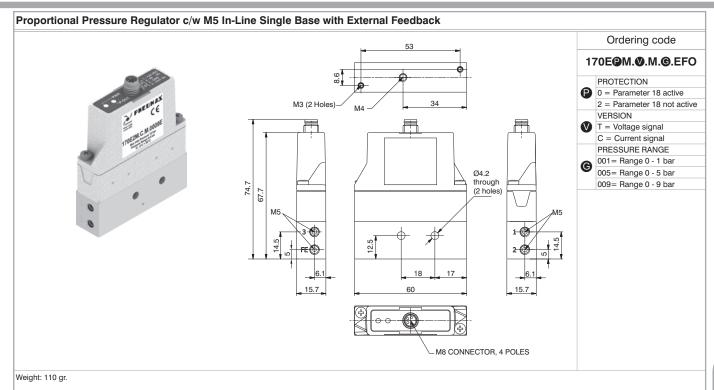




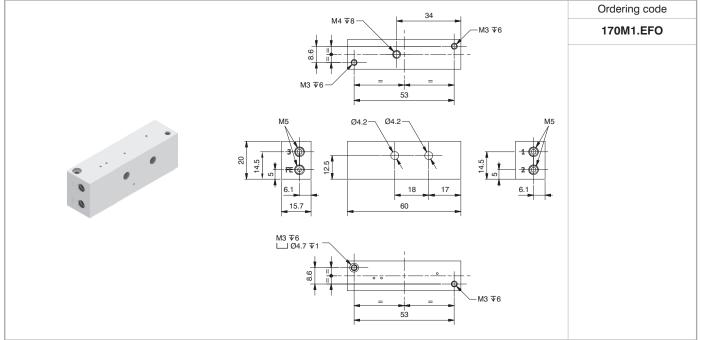




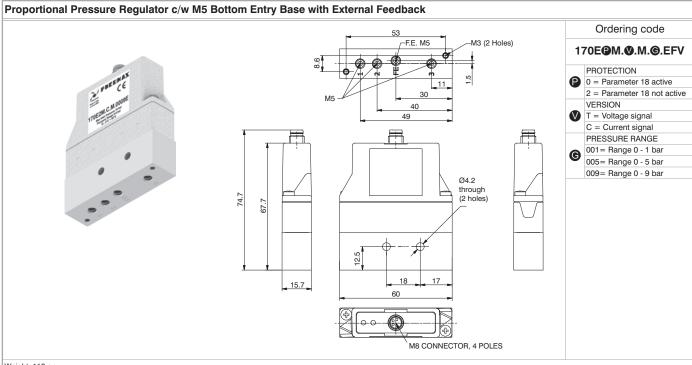






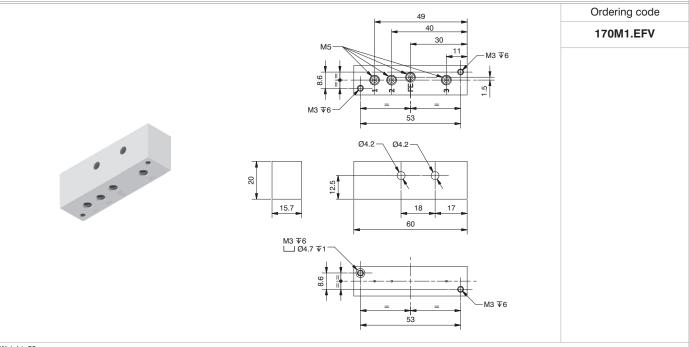


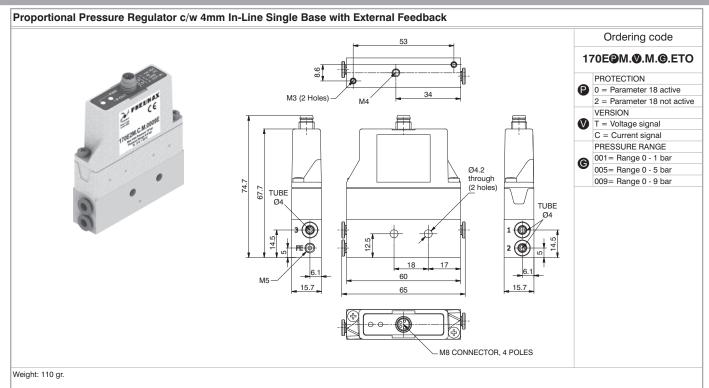




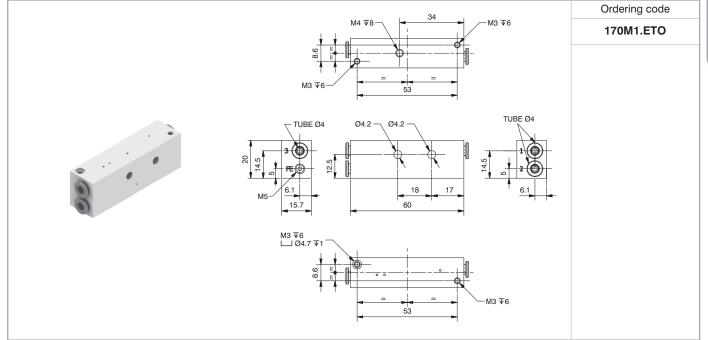
Weight: 110 gr.

Single M5 Bottom Entry Base with External Feedback

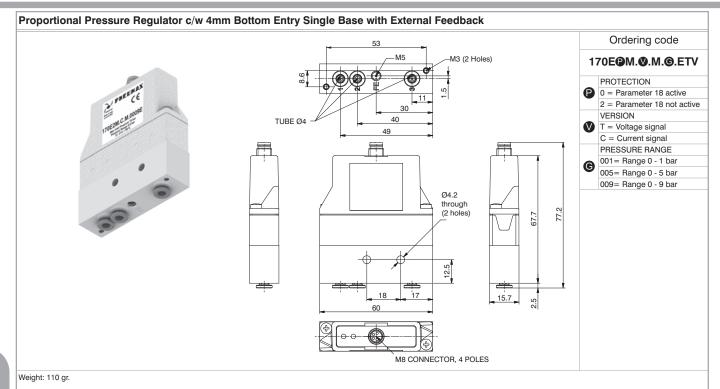




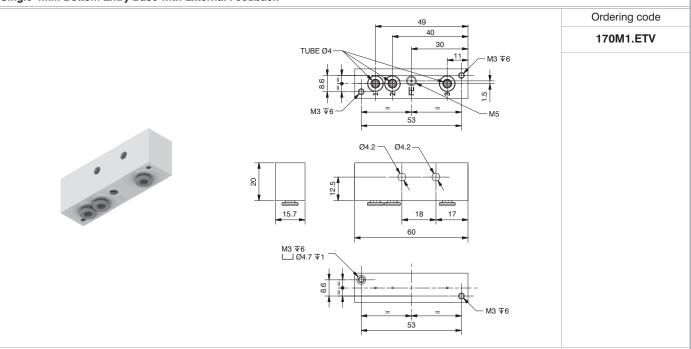
Single 4mm In-Line Base with External Feedback







Single 4mm Bottom Entry Base with External Feedback





Coding For Proportional Pressure Regulator Modular Manifold

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

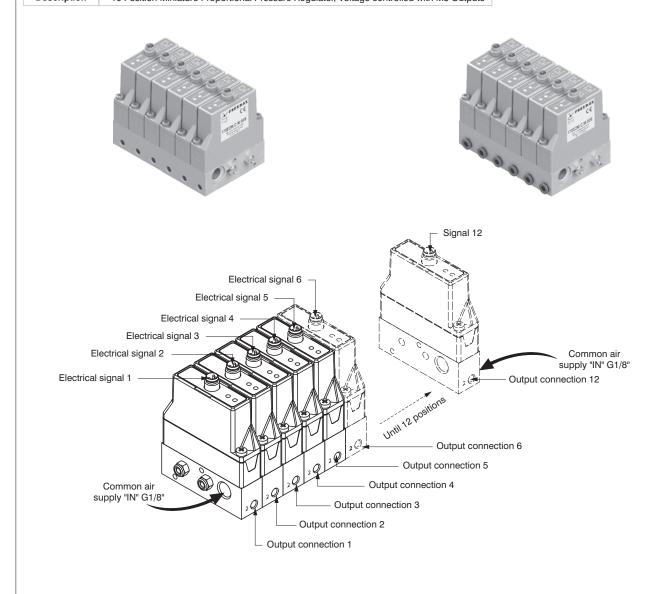
For the coding of the Manifold, refer to the configuration Table below.

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.

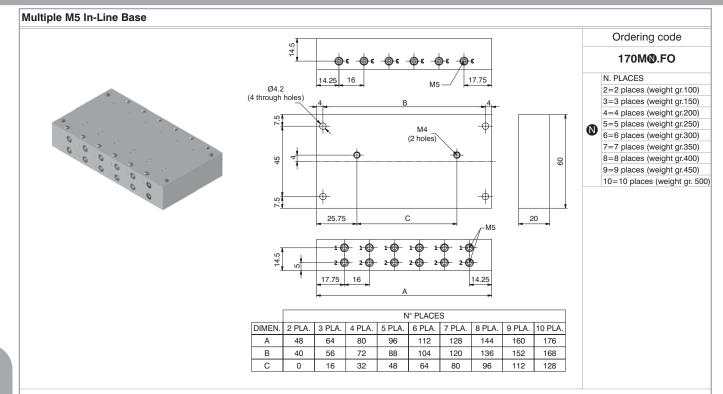
There are also configured single bases up to a maximum of 12 positions with power supplies and independent consumptions (See following pages).

G	1	7	0	_	_	_	М	_	_	_	_	Р	_				
Group	Sei	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	1 bar	T=Tube Ø4		= Standard *				
				2=Eco P18 Off	B =03	C=Current		005	=0 - 5	5 bar	F=M5 Thread		E= External feedback				
					C =04			009	=0 - 9	9 bar			* no additional				
					D =05								letter required				
					E =06												
					F =07												
					G =08												
					H =09												
					I =10												
					L=11												
					M =12												

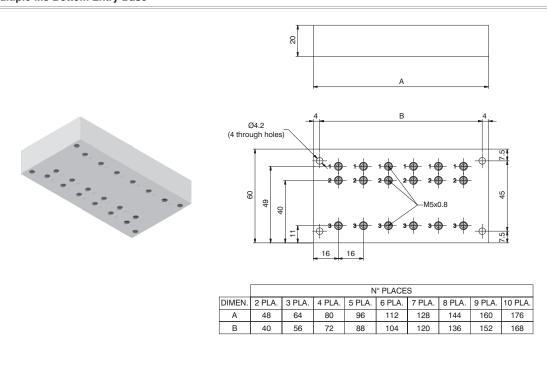
	Example		
	Code	G1700ITM009FP	
	Description	10 Position Miniatur	e Proportional Pressure Regulator, Voltage controlled with M5 Outputs







Multiple M5 Bottom Entry Base



Ordering code

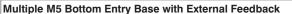
170MO.FV

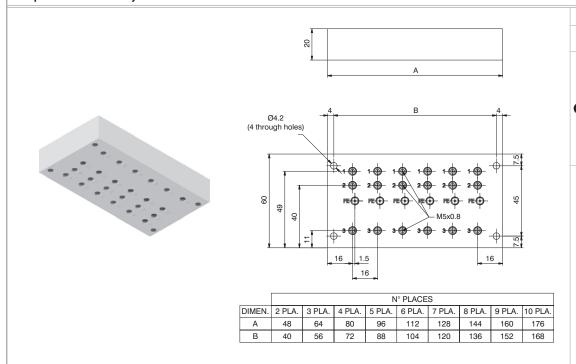
N. PLACES
2=2 places (weight gr.100)
3=3 places (weight gr.150)
4=4 places (weight gr.200)
5=5 places (weight gr.250)

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)



Multiple M5 In-Line Base with External Feedback Ordering code Фэ Фэ Фэ Фэ 170M**②**.EFO N. PLACES Ø4.2 2=2 places (weight gr.100) 16 (4 through holes) 3=3 places (weight gr.150) 4=4 places (weight gr.200) 5=5 places (weight gr.250) 6=6 places (weight gr.300) (2 holes 7=7 places (weight gr.350) 8=8 places (weight gr.400) 9 9=9 places (weight gr.450) 10=10 places (weight gr. 500) ф 25.75 20 1 - 1 - 1 - 1 - 1 - 1 - 1 2 16 N° PLACES DIMEN. 2 PLA. 3 PLA. 4 PLA. 5 PLA. 6 PLA. 7 PLA. 8 PLA. 9 PLA. 10 PLA.





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Α

В

С

64

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16

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72

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96

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48

112

104

64

128

120

80

144

136

96

160

152

112

176

168

128

Ordering code

170M**®**.EFV

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)

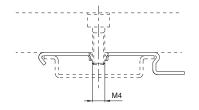
10=10 places (weight gr. 500)



Ordering code

800.00





Weight gr. 5