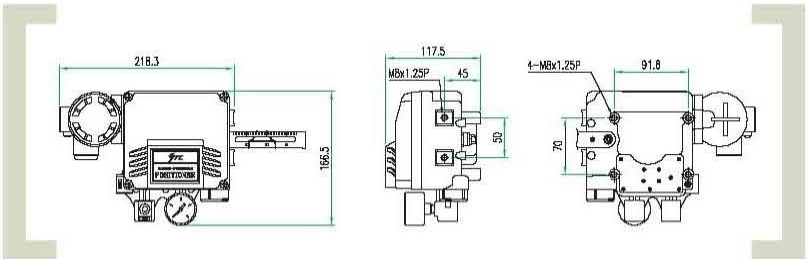
Electro-Pneumatic Positioner MH-700 (Linear / Rotary Type)

Ordering Symbols:

Model	Acting Type	Explosion Proof	Lever Type	Orifice Type	Connection Type	Ambient Temp	Option
MH-700	S Single Acting	m ExdmIIBT5	1 10~40mm	1 Φ1	1 G1/2 - PT1/4	S -20℃~60℃	0 NONE
	D Double Acting	n Non-Explosion	2 30~70mm	2 Φ2	2 G1/2 - NPT1/4		2 +SPTM(Smart type)
			3 60~100mm	3 None	3 G1/2 - G1/4		
			4 100~150mm		5 NPT1/2 - NPT1/4		

*NPT 1/2 adapter is attched to entry



Specifications

Item.Type	Single	Double
Input Signal	4-20mA DC	
Impedance	250±15 Ohm	
Supply Pressure	1.4~7kgf/㎠ (20~100psi)	
Stroke	10~150mm	
Air Connection	PT (NPT) 1/4	
Gauge Connection	PT (NPT) 1/8	
Conduit	PF 1/2 (G1/2)	
Explosion Proof	Ex dm IIB T5 (KCs)	
Protection	IP66	
Ambient Temp	-20℃~70℃(Operating) -20℃~60℃(Explosion)	
Linearity	±1% F.S.	±2% F.S.
Hysteresis	±1% F.S.	
Sensitivity	±0.2% F.S.	±0.5% F.S.
Repeatability	±0.5% F.S.	
Air Consumption	3LPM (Sup=1.4kgf/㎠, 20psi)	
Flow Capacity	80LPM(Sup=1.4kgf/㎠, 20psi)	
Material	Aluminum Diecasting	
Weight	2.7kg(6.1lb)	

The Electro-Pneumatic Positioner MH-700(L/R) is used for operation of pneumatic linear valve actuators by means of electrical controller or control system with an analog output signal of DC 4 to 20 mA or split Ranges.

- There is no resonance at 5~200Hz.
- The change of RA/DA Action is convenient, it is able to apply to single or double acting actuator.
- It is possible to prevent the hunting with orifice to the small size actuator.
- It is economical due to less air consumption.
- It is able to control the 1/2 split range with simple operation without replacement of parts.

Smart Positioner MH-740 / MH-745

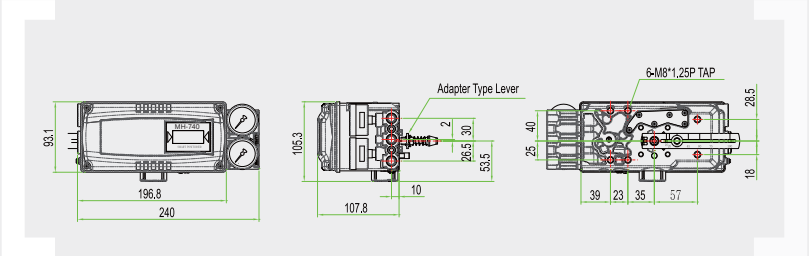
Product Number: MH-740 / MH-745 □□□□□□□□ (specify your requirement)

Model	Motion Type	Acting Type	Explosion Proof	Lever Type Linear *	Lever Type Rotary	Connection Type	Communication	Option	Ambient Temp
MH-740	L Linear	S Single	n Non-Explosion	0 10~40mm	1 M6×34L	1 PT	0 NONE	0 NONE	S -30℃~ 85℃
MH-745	R Rotary	D Double	i Ex ia IIC T5/T6	1 20~100mm	2 M6×63L	2 NPT	2 + HART	1 + PTM	L -40℃~ 85℃
				2 90~150mm	3 M8×34L				
				3 16~30mm	4 M8×63L				
				4 16~60mm	5 NAMUR				
				5 16~100mm					
				6 90~150mm					

*Lever 3~6 is adapter type.

* MH-745 is available for NPT connection type ONLY.

MH-740



Item · Type		MH-740	MH-745
Input Signal		4~20mA DC	
Supply Pressure		0.14~0.7MPa(1.4~7 bar)	
Stroke	Linear Type	10~150mm	
	Rotary type	0 ~ 90°	
Impedance		Max.500Ω @ 20mA DC	
Air Connection		PT(NPT)1/4	NPT 1/4
Gauge Connection		PT(NPT)1/8	NPT 1/8
Conduit		PF1/2 (G1/2)	
Ambient Temp.	Standard Type.	-30℃ ~ 85℃ (-22~185° F)	
	Low Temp Type.	-40℃ ~ 85℃ (-40 ~ 185° F)	
	Explosion Temp.	-40~60℃(T5) / -40~40℃(T6)	
	LCD Operating Temp.	-30℃ ~ 85℃ (-22~185° F)	
Linearity		±0.5% F.S.	
Hysteresis		±0.5% F.S.	
Sensitivity		±0.2% F.S.	
Repeatability		±0.3% F.S.	
Air Consumption		Below 2LPM (sup=0.14MPa)	
Flow Capacity		70LPM (sup=0.14MPa)	
Output Characteristics		Linear, EQ%, Quick Open user set (16 Point)	
Material		Aluminum Diecasting	Stainless Steel 316
Enclosure		IP66	
Explosion Proof Type		Ex ia IIC T5 / T6	
Weight		2kg (4.4lb)	5.1kg(11.2lb)

MH-740/745 Smart Valve Positioner accurately controls valve stroke, according to input signal of 4-20mA being delivered from controller.

- Auto calibration
- LCD display
- Feedback signal
- Auto/Manual switch
- PID control
- Limit switches
- HART communication
- 4 buttons for local control

Smart Positioner MH-750 / MH-755

Product Number

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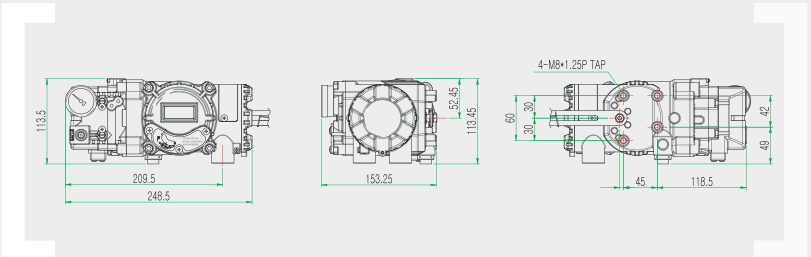
Model	Motion Type	Acting Type	Explosion Proof	Lever Type		Connection Type	Communication	Option	Ambient Temp
				Linear	Rotary				
MH-750	L Linear	S Single	C Ex d IIC T6	1 10~40mm	1 M6×34L	1 PT	0 NONE	0 NONE	S -30℃~ 85℃
	R Rotary	D Double		2 20~70mm	2 M6×63L	2 NPT	2 + HART	1 +PTM	L -40℃~ 85℃
				3 50~100mm	3 M8×34L				
				4 100~150mm	4 M8×63L				
					5 NAMUR				

MH-750



Item · Type		MH-750L	MH-750R
Input Signal		4~20mA DC	
Supply Pressure		0.14~0.7MPa(1.4~7 bar)	
Stroke		10~150mm	0 ~ 90°
Impedance		Max.450Ω @ 20mA DC	
Air Connection		PT(NPT)1/4	
Gauge Connection		PT(NPT)1/8	
Conduit		PF1/2 (G1/2)	
Repeatability		±0.3% F.S.	
Ambient Temp.	Standard Type	-30℃ ~ 85℃(-22~185° F)	
	Low Temp Type	-40℃ ~ 85℃ (-40~185° F)	
	Explosion Temp.	-40℃~70℃(T6) / -40℃~85℃(T5)	
Linearity		±0.5% F.S.	
Hysteresis		±0.5% F.S.	
Sensitivity		±0.2% F.S.	
Air Consumption		Below 2LPM (sup=0.14MPa)	
Flow Capacity		70LPM	
Output Characteristics		Linear, EQ%, Quick Open user set (16 Point)	
Material		Aluminum Diecasting	
Enclosure		IP66	
Explosion Proof Type		Ex d IIC T6 / T5	
Weight		3.4kg (7.5lb)	

MH-750 Smart Valve Positioner accurately controls valve stroke, according to input signal of 4-20mA being delivered from controller.

- Auto calibration
- Auto/Manual switch
- LCD display
- PID control
- Feedback signal
- Limit switches
- HART communication
- 4 buttons for local control

Air Filter Regulater MR-5000R

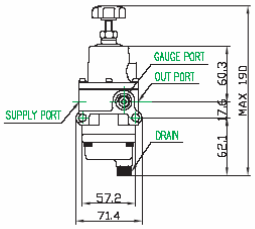
Ordering Symbols: MR-5000R

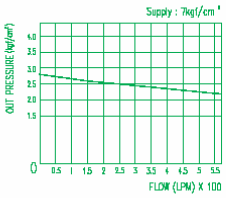
Model	Adjustable Range	Connection Type	Gauge	Ambient Temp
MR-5000R	A 0~4.2kgf/㎠	P PT1/4	O NONE	1 Standard
	B 0~8.4kgf/㎠	N NPT1/4	1 4Kgf/㎠	2 Max.100℃
	C 0~2.1kgf/㎠		2 10Kgf/㎠	

MR-5000R

Specifications

Item.Type	MR-5000R		
	A	B	C
Max.Supply Pressure	15kgf/㎠(231psi)		
Max.Output Pressure	4.2kgf/㎠(57psi)	8.4kgf/㎠(120psi)	2.1kgf/㎠
Air Connection	PT(NPT)1/4		
Gauge Connection	PT(NPT)1/4		
Ambient Temp	-20~70℃		
Min.Filtering Size	5micron		
Material	Aluminum Diecasting	Stainless Steel(STS)	
Weight	0.6kg(1.7lb)	1.3kg(2.9lb)	





Air filter regulator MR-5000R reduces the supply pressure of plant's main air line suitably and supplies valve positioner or control device.

- maintains the stable outlet pressure regardless of the fluctuation of inputting pressure or flow rate.
- It is easy to install and maintain due to light weight and small size.
- To filter minuteness particle is available with 5 micron filter.
- There is relief function which discharges to atmosphere if the outlet pressure is higher than setting pressure.
- MR-5000R has relief function which discharges to atmosphere if the outlet pressure is higher than setting pressure.