

# **Product Selection Guide**

Valve Accessories Professional Manufacturer



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# Introduction & Qualification Certificate

# Introduction

MORC Controls Ltd. was established in October 2008, as Chinese High Technology and New Technology Enterprise and it mainly engaged in the research, development ,production and sales of valve accessories. The company has gained ISO9001 quality management system and ISO14001 environmental management system certification, and successfully joined the HART Communications Foundation. The products have obtained CE, ATEX, NEPSI, SIL3 ,3C as well as other quality and safety certificates. In June 2022,Our branch company Anhui MORC Technology Co., Ltd. was officially put into production, with a total area of more than 10,000 square meters, where is the main production base of MORC.

MORC product range involves in valve positioner, solenoid valve, limit switch, air filter regulator and Pneumatic /Electric Actuator, which are widely used in petrochemical, natural gas, metallurgy, power, new energy, paper-making, foodstuff, pharmaceutical, water treat-ment industries, aerospace industry, shipping and so on. We are also capable of providing complete set of control valve and onoff valve solution as we have a very close relationship with valve manufacturer.

With the rapid development of industrialization, automation and intelligence in the world, MORC will adhere to the development philosophy of "quality first, technology first, continuous improvement, customer satisfaction", provide customers with better products and services, and build MORC into world's leading valve accessories brand.

# **Qualification Certificate**









# History

2022.09	The company has successfully passed the examination of Sinopec Yipaike Commercial Credit Center and obtained the A-level credit evaluation certificate
2022.09	The company's solenoid valve, limit switch, Air Filter Regulator, Air Operatedvalve control valve Obtain the SIL 3 certificate issued by TUV
2022.06	2022.09 MORC branch company Anhui MORC Technology Co., Ltd. was officially put into production.
2021.12	The company was awarded the second prize of science and technology Progress issued by China Society of Automation
2021.12	The company's intelligent valve locator won the 23rd Hi-tech Fair excellent Product award
2021.11	The company and universities have established an industry-university-research cooperation and innovation base
2021.06	The company was awarded the first batch of Shenzhen specialized and special new small and medium- sized enterprises
2020.12	Obtained the Explosion proof 3C certification for related products.
2020.11	Joined the HART Communications Foundation and became a member of it.
2020.04	Continue to obtain the National and Shenzhen high-tech enterprise qualification certificate.
2020.03	Through the acceptance of Shenzhen's special fund project for future industrial development.
2019.01	Obtained ISO9001:2015 Quality Management System Cerfiticate
2018.12	Obtained ISO14001:2015 Environmental Management System Certificate
2017.08	Opening of the design and testing laboratory
2017.06	Certified SIL3 for Solenoid Valves & Limit Switch Box
2016.07	Obtained the National and Shenzhen high-tech enterprise qualification certificate
2016.07	Special funding provided by Shenzhen future industry development
2015.12	Obtained ISO 9001:2008 quality management system certification
2015.09	Moved to a newer and bigger MORC building
2014.07	Obtained air filter regulator and solenoid valve invention patent and software patent
2014.04	Obtained CE certificaton for all range of products
2012.06	Obtained Shenzhen innovative small and medium-sized company certification
2010.05	Implemented ERP management system
2008.10	Established Shenzhen Morc Controls Co., Ltd

# **Product Qualification**

Product Name	Model No.	Certificate	Certification number or certification level
		CE	Anbotek: AT011410545E
		ATEX	II2G Ex ia IIC T6 Gb ; II2D Ex iaD IIIC T100 /85 Db ; IP66
	MSP-25	CNEX/NEPSI	Ex ia IIC T6 Ga / Ex ia IICT6 Ga; Ex ia IIIC T135 Db
		SIL3	SWISS:086-03-026-00509/IEC61508 Parts1-7:2010
		3C	SITIIAS: 2020322307003475
Smart Positioner		CE	Anbotek: AT011410545E
		ATEX	II2G Ex d IIC T6 Gb ; II2D Ex tb IIIC T100 /85 Db ; IP66
	MSP-32	NEPSI	Ex db IIC T6 Gb; Ext b IIIC T85 Db
		SIL3	SWISS:086-03-026-00509/IEC61508 Parts1-7:2010
		3C	SiTiiAS: 2020322307003471
		CE	Anbotek: AT011410545E
Electro-Pneumatic		ATEX	II2G Ex dmb IIC T6 IP66
Positioner	MEP-10	NEPSI	Ex db IIC T6 Gb; Ex tb IIIC T85 Db / Ex iaIIC T6 Ga; Ex ia IIIC T135 Db
		SIL3	SWISS:086-03-026-00509/IEC61508 Parts1-7:2010
		CE	Anbotek: AT011410550E
	MC50-XXN/M	SIL3	TUVNORD: CER-IND 1102822209002002/3
-		CE	Anbotek: AT011410546E
	MC50-XXA	ATEX	II2G Ex ia IIC T 5/T6 Gb ; II2D Ex ia IIIC T100 /85 Db IP6X
		SIL3	TUVNORD: CER-IND 1102822209002002/3
Solenoid Valve	MC50-XXD	CE	Anbotek: AT011410546E
		ATEX	II2G Ex db IIC T6 Gb ; II2D Ex tb IIIC T85 Db ;IP66
		NEPSI	Ex db IIC T6 Gb; Ex tb IIIC T85 Db
		SIL3	TUVNORD: CER-IND 1102822209002002/3
		3C	SITIIAS: 2020322307003472
-	MC51-D	NEPSI	Ex db IIC T6 Gb; Ex tb IIIC T85 Db
	141.0400	CE	Anbotek: AT011410550E
	MLS100	SIL3	TUVNORD: CER-IND 1102822209002001
		CE	Anbotek: AT011410550E
		ATEX	II2G Ex d IIC T6 Gb ; II2D Ex tb IIIC T85 Db ;IP67
	MLS300 MLS300-S	NEPSI	Ex db IIC T6 Gb; Ex tb IIIC T85 Db / Ex ia IIC T6 Ga; Ex ia IIIC T135 Db
		SIL3	TUVNORD: CER-IND 1102822209002001
		3C	SiTiiAS: 2020322307003482
Limit Switch Box		CE	Anbotek: AT011410550E
Linin Ownen Dox	141.0500	ATEX	II2G Ex d IIC T6 Gb ; II2D Ex tb IIIC T85 Db ;IP67
	MLS500	NEPSI	Ex db IIC T6 Gb; Ex tb IIIC T85 Db / Ex ia IICT6 Ga; Ex ia IIIC T135 Db
		SIL3	TUVNORD: CER-IND 1102822209002001
		CE	Anbotek: AT011410550E
		ATEX	II2G Ex d IIC T6 Gb ; II2D Ex tb IIIC T85 Db ;IP67
	MLS800	NEPSI	Ex db IIC T6 Gb; Ex tb IIIC T85 Db / Ex ia IICT6 Ga; Ex ia IIIC T135 Db
		SIL3	TUVNORD: CER-IND 1102822209002001
		3C	SITIIAS: 2020322307003482
	NO 00	CE	Anbotek: AT011410549E
Air Filter Regulator	MC-22	SIL3	TUVNORD: CER-IND 1102822209002004
Pneumatic Control Valve	MC60	SIL3	TUVNORD: CER-IND 1102822209002005

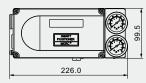
MORC MORC CONTROLS LTD.

### MSP-25 Series Smart Mounting Positioner

MSP-25 Series is a control device that receives the 4~20mA output signal from the controller or control system, then transforms into the air pressure signal driving the pneumatic actuator to control the valve. Mainly used for valve position control of pneumatic linear or rotary valves.

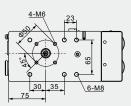
- Use piezoelectric valve electric pneumatic conversion structure.
- Suitable for hazardous area by intrinsically safe electronics.
- Easy to install and auto-calibration.
- LCD display and on board button operation.
- Fail safe function under loss of power, loss of air supply and loss of control signal.

Mode	el No.	MSP-25			
Input signal		4~20mA DC			
Supply	pressure	0.14~0.7MPa(20~105psi)			
Stroke	Linear	10~150mm(standard);5~130mm(adaptor)			
Stroke	Rotary	0~90°			
Impeda	ance	450Ω(without HART) , 500Ω(with HART)			
Air con	nection	NPT1/4			
Gauge co	onnection	NPT1/8			
Power co	onnection	G1/2, NPT1/2, M20*1.5			
Repeat	tability	±0.5%F.S.			
Ambient temp.		Normal:-20~80°C; low: -40~80°C			
Explosive temp.		-40~60°C			
Linearity		±0.5%F.S.			
Hyster	esis	±0.5%F.S.			
Sensiti	vity	±0.5%F.S.			
Flow ra	ite	Fully open : 130L/min(@6.0bar)			
Air cons	umption	Stable condition : <0.0006Nm <sup>3</sup> /h			
Output characteristics		Linear (default); Quick open; Equal percentage ; User defined			
Shell m	naterial	Aluminum or SS316L			
Ingress	s tion	IP66			
Explosio	on-proof	Ex ia IIC T6 Ga; Ex ia IIIC T135℃ Db			
Weigh	t	Aluminum:2.3kg; SS316L: 4.6kg			



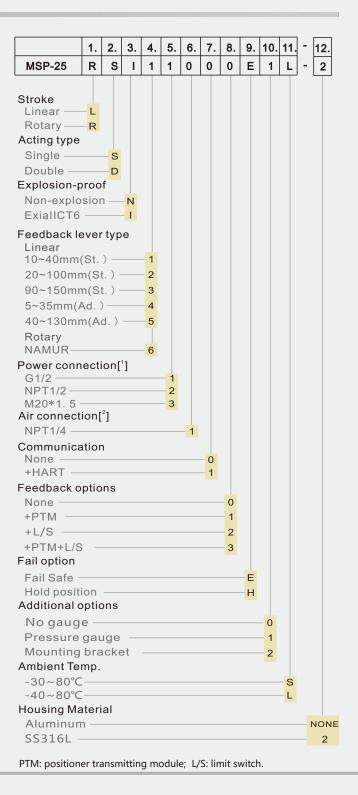














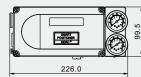
MORC MORC CONTROLS LTD.

# **MSP-25 Series Remote Type Smart Positioner**

MSP-25 series Smart Valve Positioner is a control device that receives 4 ~ 20 mA command signal output from controller or control system and output air pressure signal to drive pneumatic actuator to control valve opening. This model is a split remote transmission structure, sensor and body separation, suitable for high temperature and space limited installation environment.

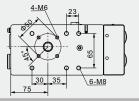
- Use piezoelectric valve electric / pneumatic conversion structure.
- Suitable for hazardous area by intrinsically safe electronics.
- Easy to install and auto-calibration.
- LCD display and on board button operation.
- Fail safe function under loss of power, loss of air supply and loss of control signal.

Mode	el No.	MSP-25			
Input signal		4~20mA DC			
Supply	pressure	0.14~0.7MPa(20~105psi)			
Stroke	Linear	10~150mm(standard);5~130mm(adaptor)			
Stroke	Rotary	0~90°			
Impeda	ance	450Ω(without HART) , 500Ω(with HART)			
Air con	nection	NPT1/4			
Gauge co	onnection	NPT1/8			
Power co	onnection	G1/2, NPT1/2, M20*1.5			
Repeat	tability	±0.5%F.S.			
Ambient	temp.	Normal:-20~80°C; low: -40~80°C			
Explosiv	e temp.	-40~60℃			
Lineari	ty	±0.5%F.S.			
Hyster	esis	±0.5%F.S.			
Sensiti	vity	±0.5%F.S.			
Flow ra	ite	Fully open : 130L/min(@6.0bar)			
Air cons	umption	Stable condition : <0.0006Nm <sup>3</sup> /h			
Output charact	eristics	Linear (default); Quick open; Equal percentage ; User defined			
Shell m	naterial	Aluminum or SS316L			
Ingress protect	stion	IP66			
Explosio	on-proof	Ex ia IIC T6 Ga; Ex ia IIIC T135℃ Db			
Weigh	t	Aluminum:2.3kg; SS316L:4.6kg			



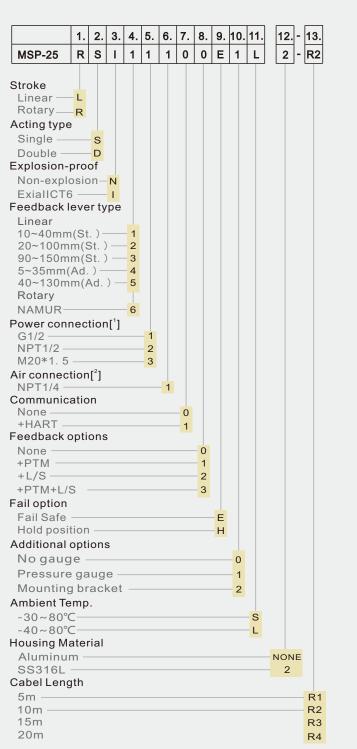












PTM: positioner transmitting module; L/S: limit switch.

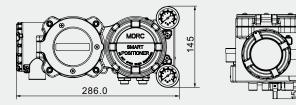
# **MSP-32 Series Smart Positioner**

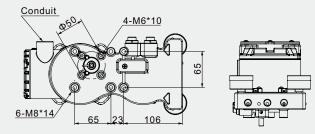
MSP-25 Series is a control device that receives the 4~20mA output signal from the controller or control system, then transforms into the air pressure signal driving the pneumatic actuator to control the valve. Mainly used for valve position control of pneumatic linear or rotary valves.

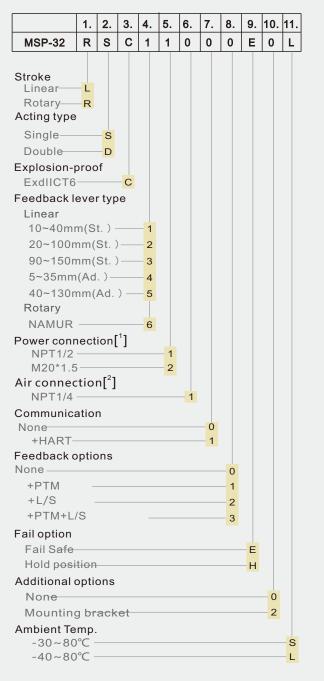
- Use piezoelectric valve electric pneumatic conversion structure.
- Suitable for hazardous area by intrinsically safe electronics.
- Easy to install and auto-calibration.
- LCD display and on board button operation.
- Fail safe function under loss of power, loss of air supply and loss of control signal.



Mode	el No.	MSP-32			
Input si	ignal	4~20mA DC			
Supply	oressure	0.14~0.7MPa(20~105psi)			
Stroke	Linear	10~150mm(standard);5~130mm(adaptor)			
SHOKE	Rotary	0~90°			
Impeda	ance	450Ω(without HART) , 500Ω(with HART)			
Air con	nection	NPT1/4			
Gauge co	onnection	NPT1/8			
Power co	onnection	NPT1/2, M20*1.5			
Repeat	tability	±0.5%F.S.			
Ambient	temp.	Normal:-20~80°C; low: -40~80°C			
Explosive temp.		-40~60℃			
Lineari	ty	±0.5%F.S.			
Hyster	esis	±0.5%F.S.			
Sensiti	vity	±0.5%F.S.			
Flow ra	te	Fully open : 130L/min(@6.0bar)			
Air cons	umption	Stable condition : <0.0006Nm <sup>3</sup> /h			
Output characteristics		Linear (default); Quick open; Equal percentage; User defined			
Shell m	aterial	Aluminum			
Ingress protect	ion	IP66			
Explosio	on-proof	Ex db IIC T6 Gb; Ex tb IIIC T85°C Db			
Weigh	t	4.0kg			







 $\left[1\right]$  : The default power connection is G1/2, please consult MORC for other interfaces.

[2] : The default air connection is NPT1/4, please consult MORC for other interfaces.

PTM: positioner transmitting module; L/S: limit switch.

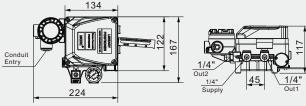
# MEP-10L Series Electro-pneumatic Positioner

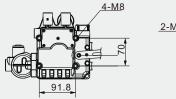
MEP-10L Electro-pneumatic positioner delivers fast and accurate positioner used and general purpose. Long life service assured by robust and simple design, delivering maximum reliability in all environments while maintaining precise, accurate positioning of the control element.

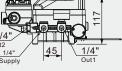
- Use mechanical nozzle baffle structure
- High vibration resistance no resonance between 5 to 200 Hz.
- Direct and reverse acting, single and double acting are interchangeable.
- Robust, simple and low maintenance design.
- 1/2 Split-range control can be achieved by changing the stroke spring.

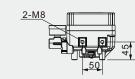


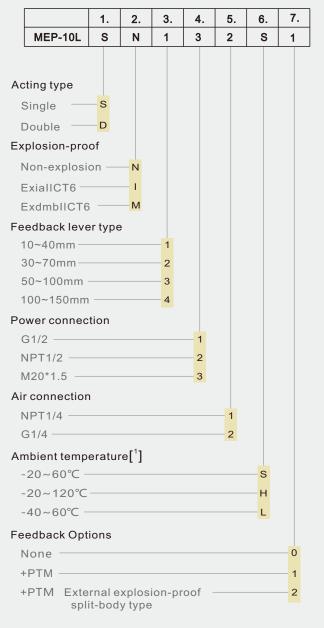
Mode	l No.	MEP-10L		
Input si	gnal	4~20mA DC		
Supply p	oressure	0.14~0.7MPa		
Pressure	e output	0~0.7MPa		
Stroke		10~150mm		
Impeda	ince	250Ω±15Ω		
Air con	nection	NPT1/4,G1/4		
Gauge co	nnection	NPT1/8		
Power co	nnection	G1/2, NPT1/2, M20*1.5		
Repeat	ability	±0.5%F.S.		
	Normal temp.	-20~60℃		
Ambient temp.	High temp.	-20~120 (Only for Non-explosive)		
	Low temp.	-40~60°C		
Linear	ity	±1.0%F.S.(Single); ±2.0%F.S.(Double)		
Hyste	resis	±1.0%F.S.		
Sensit	tivity	±0.5%F.S.		
Flow r	ate	80L/min(@1.4bar)		
	sumption	2.5L/min(@1.4bar)		
Output charac	teristics	Linear (default)		
Shell material		Aluminum		
Ingress protection		IP66		
Explosion-proof		Ex db IIC T6 Gb; Ex tb IIIC T85°C Db Ex ia IIC T6 Ga; Ex ia IIIC T135°C Db		
Wei	ight	2.7kg		











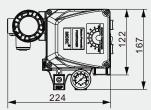
[1]: H Only available for Non-explosion and no feedback.

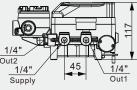
# MEP-10R Series Electro-pneumatic Positioner

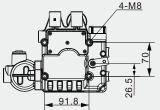
MEP-10R Electro-pneumatic positioner delivers fast and accurate positioner used and general purpose. Long life service assured by robust and simple design, delivering maximum reliability in all environments while maintaining precise, accurate positioning of the control element.

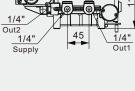
- Use mechanical nozzle baffle structure
- High vibration resistance no resonance between 5 to 200 Hz.
- Direct and reverse acting, single and double acting are interchangeable.
- Robust, simple and low maintenance design.
- 1/2 Split-range control can be achieved by changing the stroke spring.

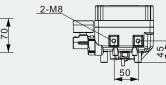
Mode	l No.	MEP-10L		
Input si	gnal	4~20mA DC		
Supply p	oressure	0.14~0.7MPa		
Pressure	e output	0~0.7MPa		
Stroke		0~90°		
Impeda	nce	250Ω±15Ω		
Air con	nection	NPT1/4,G1/4		
Gauge co	nnection	NPT1/8		
Power co	nnection	G1/2, NPT1/2, M20*1.5		
Repeat	ability	±0.5%F.S.		
	Normal temp.	-20~60°C		
Ambient temp.	High temp.	-20~120°C(Only for Non-explosive)		
	Low temp.	-40~60°C		
Linear	ity	±1.0%F.S.(Single); ±2.0%F.S.(Double)		
Hyster	resis	±1.0%F.S.		
Sensit	tivity	±0.5%F.S.		
Flow r	ate	80L/min(@1.4bar)		
	sumption	2.5L/min(@1.4bar)		
Output charac	teristics	Linear (default)		
Shell material		Aluminum		
Ingress protection		IP66		
Explosion-proof		Ex db IIC T6 Gb; Ex tb IIIC T85°C Db Ex ia IIC T6 Ga; Ex ia IIIC T135°C Db		
Wei	ght	2.8kg		











	1.	2.	3.	4.	5.	6.	7.	8.
MEP-10R	S	N	1	3	2	S	0	1
cting type								
Singel	- <mark>S</mark>							
Double —								
Explosion-pr								
Non-explos		— N						
ExialICT6-		-1						
ExdmbIICT		—м						
Feedback lev	vertv	ype						
M6*34L —			- 1					
M8*34L —			- 2					
M6*63L —			— 3 — 4					
M8*63L — NAMUR —			- 4					
	4: -		5					
G1/2	ectio	n		_ 1				
NPT1/2				-2				
M20*1.5 —				- 3				
Air connect	ion							
NPT1/4					- 1			
G1/4					- 2			
Ambient temp	pera	ture <sup>[1</sup>	]					
-20~60°C						-S		
-20~120°C	2 —					-н		
-40~60°C						– L		
ndicator <sup>[2]</sup>								
Standard							- 0	
Dome Cov							- 1	
eedback Op	otion	S						
None —								- 0
+PTM (insid								- 1
+PTM (outs				•	/			- 2
+L/S (inside	e No	n-exp	olosic	on) —				- 3
+L/S (outsi	de ex	xplos	ion-p	roof)				- 4
L/O (Outsi		do N	n-ov	nlosi	on) -			-
+PTM+L/S	(insi	uen	JII-EX	piooi	011)			- 5

[3]: Non-explosion-proof type optional only

PTM: positioner transmitting module; L/S: limit switch.





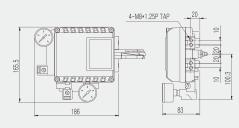


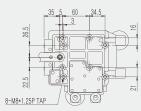
# MEP-12 series Pneumatic-pneumatic positioner

The MPP-12 series is a device that receives 0.02~0.1MPa signal from the controller or control system to control the valve.

- Use mechanical nozzle baffle structure
- High vibration resistance no resonance
- between 5 to 200 Hz.
- Direct and reverse acting, single and double acting are interchangeable.
- Robust, simple and low maintenance design.
- 1/2 Split-range control can be achieved by
- changing the stroke spring

Model No.	MPP-12L	MPP-12R		
Input signal	0.02~0.	.1MPa		
Supply pressure	0.14~0	.7MPa		
Stroke	10~150mm	0~90°		
Air connection	PT(NP	PT)1/4		
Gauge connection	PT(NP	T)1/ 8		
Repeatability	±0.5%	6F.S .		
Ambient temp.	-20~60°C(-4~158°F)			
Linearity	±1%F.S.(Double Act is ±2% )			
Hysteresis	±1%F.S.			
Sensitivity	±0.2%F.S. (Double Act is ±0.5% )			
Air consumption	2.5LPM(sup=0.14MPa)			
Flow rate	80LPM(sup=	0.14MPa)		
Output characteristics	Linear			
Shell material	Aluminum			
Ingress protection	IP66			
Weight	1.7kg(	3.1lb)		

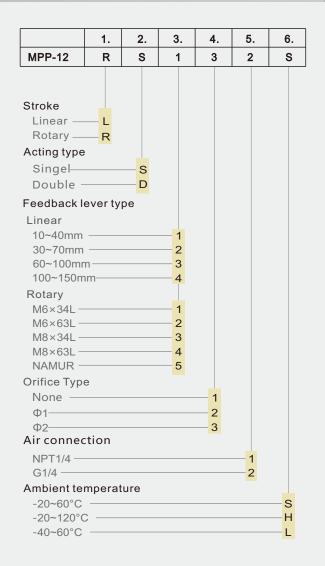






MPP-12L

MPP-12R



# MC50 Series Non-explosion Solenoid Valve 1/4"

- Pilot-operated type;
- Convertible from 3-way( 3/2) to 5-way(5/2). For 3-way, normally closed type is default option.
- Adopt Namur mounting standard, directly mounted to actuator, or by tubing.
- Sliding spool valve with good seal and fast response.
- Low starting pressure, long lifespan.
- Manual override.
- Body material aluminum or SS316L.



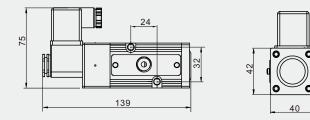
Þ

5/2 Single coil

3/2NC

5/2Double coil

Mode	el No.	MC50-XXN MC50-XXM				
Voltage	e	12/24/48V DC; 110/220/240VAC				
Acting	type	Single coil, Double coil				
Power Consui	mption	220VAC: 5.5VA; 24VDC: 3W	1			
Insulatio	on class	F class				
Working	medium	Clean air (after 40 um filtrati	on)			
Air pres	ssure	0.15~0.8MPa				
Port cor	nnection	G1/4, NPT1/4				
Power connection		DIN connector	Flying leads			
Ambient	Normal temp.	-20~70°C				
Temp.	High temp.	-20~120℃				
Explosio	on-proof	Non-explosion	Ex mb II T4			
Ingress protect	s ion	IP65				
Installation		32*24Namur or Tubing				
Section / Cv	n area	25mm²/1.4				
Body m	naterial	Aluminum or SS316L				



	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
MC50-	1	2	N	1	0	0	1	G	0	S
Acting type	•									
Single coi	I- <mark>1</mark>									
Double co										
Control vol	tage	<b>9</b> <sup>[1]</sup>								
220VAC -		- 1								
24VDC		- 2 - 3								
12VDC —		-4								
240VAC -		- 5								
48VDC		6								
Coil Type[ <sup>1</sup>	]									
Non-explo	sior	ר – ר	N							
ExmbIIT4			M							
Body mate	rial									
Aluminum				- 1						
SS316L -				- 2						
Body type General ty	ma				- 0					
Installation					0					
General ty						0				
Port conne	ctio	n								
1/4" —							1			
Port Standa	ard									
G1/4								-G -N		
Power coni	hect	ion[	<sup>2</sup> ]					. v		
Standard			_	pe)					-0	
Flying lea			- 71	/					-4	
Ambient te		eratu	ire							
-20~70°C										- <mark>S</mark>
-20~120°C										

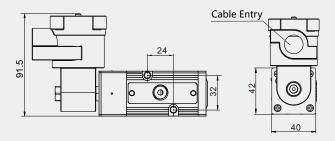
[1] : Non-explosion-proof coil default without indicator, if you need to wear led coil please indicate.

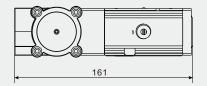
[2] Non-explosion only optional standard type, Pouring seals explosion only optional flying leads.

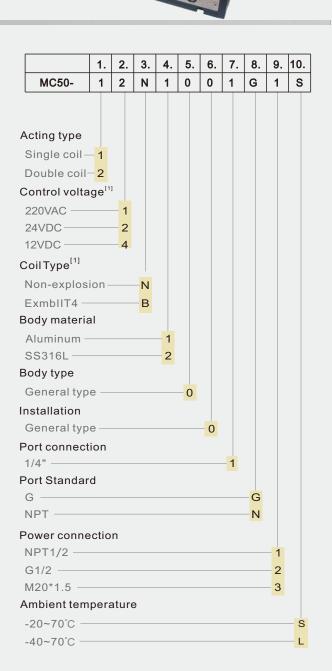
# MC50 Series Non-explosion/ Grumination and Explosion Solenoid Valve 1/4"

- Pilot-operated type;
- Convertible from 3-way( 3/2) to 5-way(5/2). For 3-way, normally closed type is default option.
- Adopt Namur mounting standard, directly mounted to actuator, or by tubing.
- Sliding spool valve with good seal and fast response.
- Low starting pressure, long lifespan.
- Manual override.
- Body material aluminum or SS316L.

Mode	el No.	MC50-XXN	MC50-XXB		
Voltage	Э	24V DC ; 220VAC			
Acting	type	Single coil, Double co	il		
Power Consu	mption	220VAC: 5.0VA; 24VD	0C: 3.5W		
Insulatio	on class	F class			
Working	medium	Clean air (after 40 um	filtration)		
Air pre	essure	0.15~0.8MPa			
Port co	nnection	G1/4, NPT1/4			
Cable I	Intry	NPT1/2 , M20*1.5 , G1/2			
Ambient	Normal temp.	-20~70°C			
Temp.	High temp.	-40~70°C			
Explosi	ve temp.	-40~60℃			
Explosion-proof		Non-explosion	Ex dm IIB T6 Gb Ex tb ⅢC T85℃ Db		
Ingress protection		IP66			
Install	ation	32*24Namur or Tubing			
Section	area / Cv	25mm²/1.4			
Body m	aterial	Aluminum or SS316L			







[1] Non-explosion-proof coil default without indicator, if you need to wear led coil please indicate.

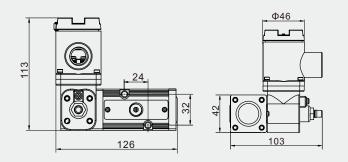
5/2 Single coil

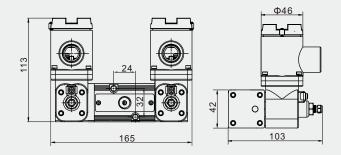


# MC50 Series Explosion-proof Solenoid 1/4"

- Pilot-operated type;
- Convertible from 3-way(3/2) to 5-way(5/2). For 3-way, normally closed type is default option.
- Adopt Namur mounting standard, directly mounted to actuator, or by tubing.
- Sliding spool valve with good seal and fast response.
- Low starting pressure, long lifespan.
- Manual override.
- Body material aluminum or SS316L.

Mode	el No.	MC50-XXD				
Voltage	e	24V DC ; 220VAC				
Acting	type	Single coil, Double coil				
Power Consu	mption	220VAC: 5.0VA; 24VDC: 3.5W				
Insulatio	on class	F class				
Working	medium	Clean air (after 40 um filtration)				
Air pre	essure	0.15~0.8MPa				
Port connection		G1/4, NPT1/4				
Cable I	Intry	NPT1/2 , M20*1.5 , G1/2				
Ambient	Normal temp.	-20~70℃				
Temp.	High temp.	-40~70℃				
Explosi	ve temp.	-40~60°C				
Explosic	on-proof	Ex db IIC T6 Gb ; Ex tb III CT85℃ Db				
Ingre prote		IP66				
Install	ation	32*24Namur or Tubing				
Section	area / Cv	25mm²/1.4				
Body m	aterial	Aluminum or SS316L				





	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
MC50-	1	2	D	1	0	0	1	G	1	S
Acting type Single coil— Double coil-										
Control voltag 220VAC — 24VDC — 110VAC — 240VAC — 48VDC — 48VDC — 110VDC — 125VDC — Coil Type <sup>[1]</sup> Flame proc Body materia Aluminum — SS316L —	of —	- 1 - 2 - 3 - 4	- <b>D</b>	-1-2						
Body type General type	e —				- 0					
Installation General type Port connecti 1/4"	9 —					- 0	-1			
Port Standard G1/4 —— NPT1/4 ——	t							G N		
Power conner NPT1/2 G1/2 M20*1.5	ctio	n							- 1 - 2 - 3	
Ambient temp	oera	ture	;							

[1] Non-explosion-proof coil default without indicator, if you need to wear led coil please indicate.



5/2 Single coil

3/2NC





# 

5/2Double coil

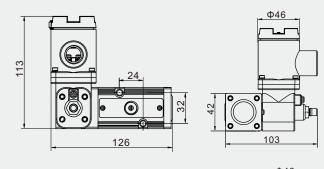
# MORC MORC CONTROLS LTD.

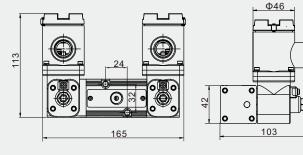
# MC50 Series Low-Power Explosion-proof Solenoid 1/4"

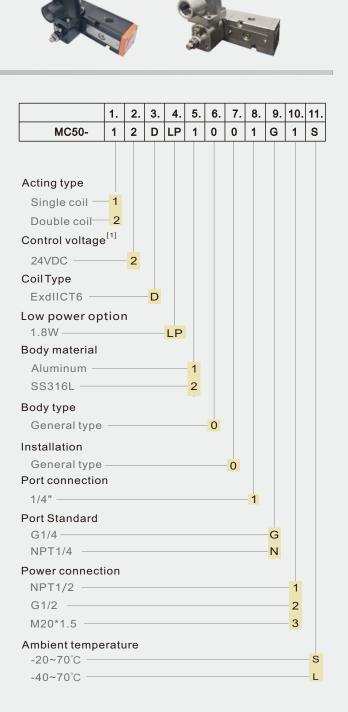
- Pilot-operated type;
- Convertible from 3-way( 3/2) to 5-way(5/2). For 3-way, normally closed type is default option.
- Adopt Namur mounting standard, directly mounted to actuator, or by tubing.
- Sliding spool valve with good seal and fast response.
- Low starting pressure, long lifespan.
- Manual override.
- Body material aluminum or SS316L.

Mode	el No.	MC50-XXDLP					
Voltage	e	24V DC					
Acting	type	Single coil, Double coil					
Power Consu	mption	1.8W					
Insulatio	on class	F class					
Working	medium	Clean air (after 40 µm filtration)					
Air pre	ssure	0.15~0.8MPa					
Port cor	nnection	G1/4, NPT1/4					
Power connection		NPT1/2 , M20*1.5 , G1/2					
Ambient	Normal temp.	-20~70℃					
Temp.	Low temp.	-40~70°C					
Explosiv	ve temp.	-40~60℃					
Explosi	on-proof	Ex db IIC T6 Gb;Ex tb IIIC T85°C Db					
Ingress	s tion	IP66					
Installa	ation	32*24Namur or Tubing					
Section / Cv	n area	25mm²/1.4					
Body m	naterial	Aluminum or SS316L					

Note: The insulation level is F, and H can be specially ordered.







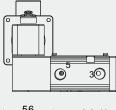
[1]The default voltage is 24VDC. Please consult MORC for additional voltages.

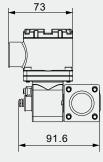
# 5/2 Single coil 3/2NC 5/2Double coil

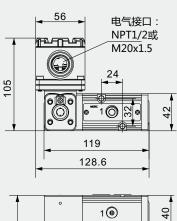
# MC50 Series Flameproof Solenoid Valve 1/4"

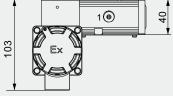
- Pilot-operated type;
- Convertible from 3-way( 3/2) to 5-way(5/2). For 3-way, normally closed type is default option.
- Adopt Namur mounting standard, directly mounted to actuator, or by tubing.
- Sliding spool valve with good seal and fast response.
- Low starting pressure, long lifespan.
- Manual override.
- Body material aluminum or SS316L.

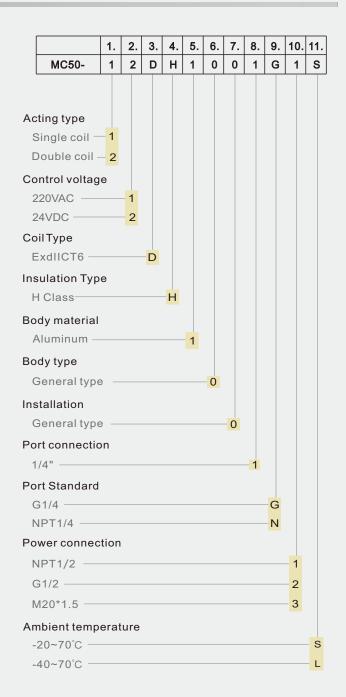
Mode	el No.	MC50-XXDH				
Voltage	e	24V DC ; 220VAC				
Acting	type	Single coil, Double coil				
Power Consu	mption	220VAC: 5.0VA; 24VDC: 2.5W				
Insulatio	on class	H class				
Working	medium	Clean air (after 40 µm filtration)				
Air pressure		0.15~0.8MPa				
Port cor	nnection	G1/4 NPT1/4				
Power co	nnection	NPT1/2 , M20*1.5 , G1/2				
Ambient	Normal temp.	-20~70°C				
Temp.	Low temp.	-40~70°C				
Explosi	on-proof	Ex db IIC T6 Gb; Ex tb IIIC T85℃ Db				
Ingres	s tion	IP66				
Installa	ation	32*24Namur or Tubing				
Sectio / Cv	narea	25mm²/1.4				
Bodyn	naterial	Aluminum				

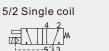










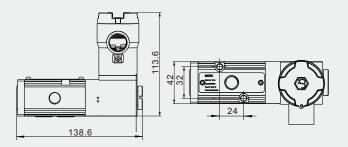


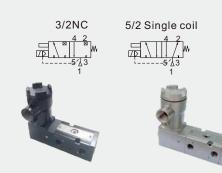
5/2Double coil

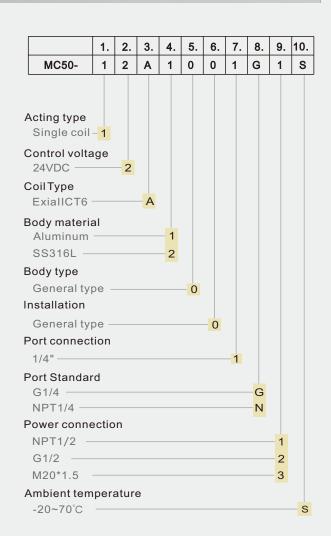
# MC50 Series Intrinsically Safe Solenoid 1/4"

- Pilot-operated type;
- Convertible from 3-way( 3/2) to 5-way(5/2). For 3-way, normally closed type is default option.
- Adopt Namur mounting standard, directly mounted to actuator, or by tubing.
- Sliding spool valve with good seal and fast response.
- Low starting pressure, long lifespan.
- Manual override.
- Body material aluminum or SS316L.

Model No.	MC50-XXA
Voltage	24V DC
Acting type	Single coil
Power Consumption	≤1.0W
Working medium	Clean air (after 40 µm filtration)
Air pressure	0.15~0.8MPa
Port connection	G1/4 NPT1/4
Power connection	NPT1/2 , M20*1.5 , G1/2
Ambient Temp.	-20~70°C
Explosion Temp.	-20~60°C
Explosion-proof	Ex ia IIC T6 Gb
Ingress protection	IP66
Installation	32*24Namur or Tubing
Section area / Cv	25mm²/1.4
Body material	Aluminum or SS316L







# MC50 Series Non-explosion 3/2 or 5/2 Solenoid 1/8"~1/2"

- Pilot-operated, normally closed type is default option.
- Sliding spool valve with good seal and fast response.
- Low starting pressure, long lifespan.
- Manual override.
- Direct mount to pneumatic actuator or tubing connection.

|--|--|

5/2 Single coil

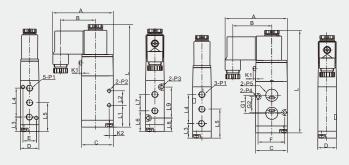
3/2Double coil

3/2NC

5/2Double coil

Port	Size	1/8"	1/4"	3/8"	1/2"			
Voltage	;	12/24/48VD	C; 110/220	/240VAC				
Acting	type	Single coil,	Double coi	I				
Power Consur	nption	220VAC: 5	.5VA; 24VD	C: 3W				
Insulati	on class	F class						
Working medium Clean air (after 40 µm filtration)								
Air pressure 0.15~0.8MPa								
Port connection DIN connector								
Ambient	Normal temp.	-20~70℃						
Temp.	High temp.	-20~120°C						
Ingress p	protection	IP65						
Installa	tion	Namur or Tubing						
Section	area / Cv	14mm²/0.78	25mm²/1.4	30mm <sup>2</sup> /1.68	50mm <sup>2</sup> /2.79			
Body material Aluminum								
Network a the fact of the level in Francisk beautients and the second state of the sec								

Note: The insulation level is F, and H can be specially ordered.



### 二位五通单电控管接

二位五通单电控板接

尺寸表		_						_				单	≜位:	mm
<u>明</u>	А	В	С	D	1	E	F		L	L1	L2	L3	L4	L5
1/8"	66.5	40	35	22	2 1	7	29	1	16.5	21.5	20	13.5	36	31.5
1/4"	69	40	35	27	7 2	20	32	1:	34.5	28	24	17.5	45	40
3/8"	69	40	40	27	7 2	20	32	1:	34.5	28	24	17.5	45	40
1/2"	74	-	50	34	1 2	27	45	1	68	43	28	25.5	63	57
<u>坂</u> 日 接口	L6	L7	L8	L9	G1	G2	к	1	K2	P1	P2/P3	3 P4		P5
1/8"	22.5	16	12.5	36	23	20	3	3	8	G1/8	Φ3.2	Φ3.2	Φ18	3深1.4
1/4"	29	22	15	50	-	24	2.	4	6.5	G1/4	Φ4.3	Φ4.3	Φ20	)深1.4
3/8"	29	22	15	50	-	24	2.	4	6.5	G3/8	Φ4.3	Φ5.5	Φ20	)深1.4
1/2"	39	36	21	72	-	40	2.	5	13.5	G1/2	Φ4.3	Φ5.5		-

注:此表仅列出进/出/排气口尺寸一致的外形尺寸,如需其它型号尺寸请联系MORC公司。

	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
MC50-	1	2	Ν	1	1	1	1	G	0	S
Acting type Single coil- Double coil Control volta 220VAC — 24VDC — 110VAC — 12VDC — 240VAC — 48VDC — Coil Type[ <sup>2</sup> ] Non-explos Body materia Aluminum – Body type	ion -	- 1 - 2 - 3 - 4 - 5 - 6	N	-1						
3/2 5/2 Installation NAMUR Tubing					- <mark>1</mark> - 2	1 2				
Inlet/outlet - 1/4"-1/4" 1/2"-1/2" 1/8"-1/8" 1/4"-1/8" 3/8"-1/4"							1   - 2 - 3 - 5 - 6			
Port Standar G NPT	d							G N		
Power conne Standard ty	pe (	DIN		e) —					0	
Ambient tem -20~70°C -20~120°C	pera	atur	9							S H

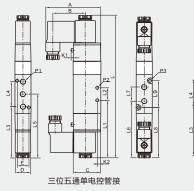
[1]: Please consult MORC for additional voltage specifications.

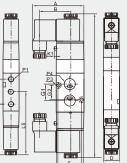
[2] : Non-explosion-proof coil default without indicator, If you need to LED indicators please indicate.

# MC50 Series Non-explosion 5/3 Solenoid 1/8"~1/2"

- Pilot-operated, normally closed type is default option.
- Sliding spool valve with good seal and fast response.
- Low starting pressure, long lifespan.
- Manual override.
- Direct mount to pneumatic actuator or tubing connection.

Port	Size	1/8"	1/4"	3/8"	1/2"			
Voltage	;	12/24/48VD	C; 110/220	/240VAC				
Acting	type	Double coil						
Power Consur	nption	220VAC: 5.	.5VA; 24VD	C: 3W				
Insulati	on class	F class						
Working medium Clean air (after 40 µm filtration)								
Air pressure 0.15~0.8MPa								
Port co	nnection	DIN connector						
Ambient	Normal temp.	<sup>II</sup> -20~70℃						
Temp.	High temp.	-20~120°C						
Ingress	protection	IP65						
Installa	tion	Namur or Tubing						
Section	area / Cv	14mm²/0.78	25mm²/1.4	30mm <sup>2</sup> /1.68	50mm <sup>2</sup> /2.79			
Body m	aterial	Aluminum						





三位五通单电控板接

单位:mm

尺寸	表	
	项目	

	<u></u> 项目	А	в	с	D	E	F	L	L1	L2	L3	L4	L5
Γ	1/8"	66.5	40	35	22	17	29	169.8	75	20	57	36	85
Γ	1/4"	69	40	35	27	20	32	188.8	82.4	24	71.9	45	94.4
	3/8"	69	40	40	27	20	32	188.8	82.4	24	71.9	45	94.4
Γ	1/2"	74	-	50	34	27	45	222	97	28	79.5	63	111

迈目 接口	L6	L7	L8	L9	G1	G2	K1	К2	P1	P2/P3	P4	P5
1/8"	76	16	66	36	23	20	3	8	G1/8	Φ3.2	Φ3.2	Φ18深1.4
1/4"	83.4	22	69.4	50	-	24	2.4	6.5	G1/4	Φ4.3	Φ4.3	Φ20深1.4
3/8"	83.4	24	69.4	50	-	24	2.4	6.5	G3/8	Φ4.3	Φ5.5	Φ20深1.4
1/2"	93	36	75	72	-	40	2.5	13.5	G1/2	Φ4.3	Φ5.5	-

注:此表仅列出进/出/排气口尺寸一致的外形尺寸,如需其它型号尺寸请联系MORC公司。

Seal off	
AB	

Exhaust Press 



	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
MC50-	2	2	N	1	3C	1	1	G	0	s
Acting type										
Double coil										
Control volta	ige <sup>[1</sup>	]								
220VAC		- 1								
24VDC		- 2								
110VAC		- 3								
240VAC		- 5								
48VDC		-6								
Coil Type <sup>2</sup>										
Non-explos	ion-		-N							
Body materia	al									
Aluminum -				- 1						
Body Type										
5/3(Seal) -					-3C					
5/3(Press)					-3P					
5/3(Exhaus	se)-				3E					
Installation										
NAMUR —						- 1				
Tubing						2				
Inlet/outlet -	Exn	aus	t por	t co	nnec	tior				
1/4"-1/4" —							-1 -2			
1/2 - 1/2							-3			
1/4"-1/8" —							-5			
3/8"-1/4"							-6			
Port Standar	d									
G NPT								G		
NPT								N		
Power conne			4. cm						0	
Standard ty				=) —					0	
Ambient tem	pera	atur	đ							6
-20~70°C -										– S – H
-20~120 C										11

[1]: Please consult MORC for additional voltage specifications. [2]: Non-explosion-proof coil default without indicator, If you need to LED indicators please indicate.





# MC50 Series Explosion-proof Solenoid 1/2"

- Pilot-operated, normally closed type is default option.
- Sliding spool valve with good seal and fast response.
- Low starting pressure, long lifespan.
- Manual override.
- Direct mount to pneumatic actuator or tubing connection.

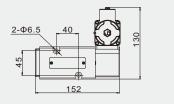


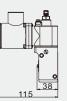
NAMUR



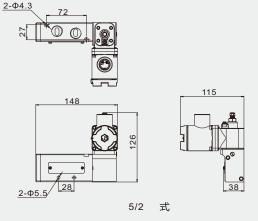
Tubing

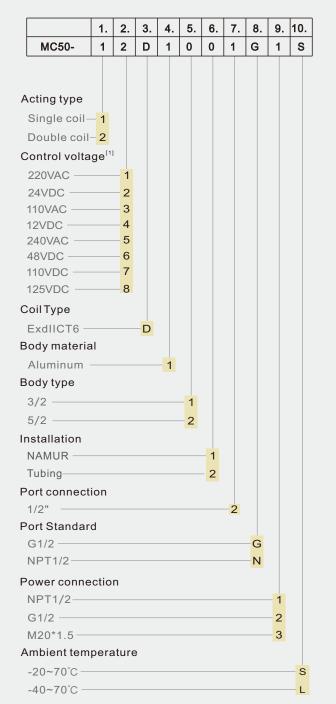
Mode	el No.	MC50-XXD					
Voltage	Э	24V DC ; 220VAC					
Acting	type	Single coil, Double coil					
Power Consu	mption	220VAC: 5.0VA; 24VDC: 3.5W					
Insulatio	on class	F class					
Working	medium	Clean air (after 40 µm filtration)					
Air pre	ssure	0.15~0.8MPa					
Port cor	nection	G1/2					
Power co	nnection	NPT1/2, M20*1.5, G1/2					
Ambient	Normal temp.	-20~70℃					
Temp.	Low temp.	-40~70°C					
Explosi	on-proof	Ex db IIC T6 Gb; Ex tb IIIC T85°C Db					
Ingress protection		IP66					
Installation		45*40Namur or Tubing					
Section area / Cv		50mm²/2.79					
Bodym	naterial	Aluminum					





5/2 板接式



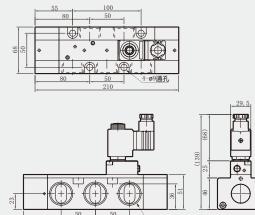


[1]: Please consult MORC for additional voltage specifications.

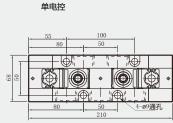
# MC50 Series Non-explosion 2/3 or 5/2 Solenoid 1"

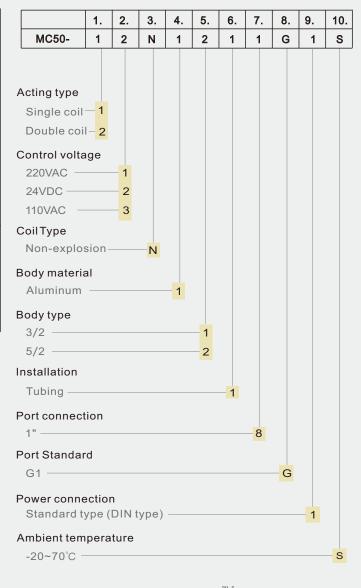
- Pilot-operated, normally closed type is default option.
- Sliding spool valve with good seal and fast response.
- Low starting pressure, long lifespan.
- Manual override.
- Direct mount to pneumatic actuator or tubing connection.

Model No.	MC50						
Voltage	110VAC, 220VAC(50/60Hz); 24V DC						
Acting type	Single coil	Double coil					
Power Consumption	AC: 13/11VA; DC: 1	10W					
Insulation class	H class						
Working medium	Clean air (after 40 µ	um filtration)					
Air pressure	0.2~0.7MPa						
Port connection	G1"						
Power connection	DIN connector						
Ambient Temp.	-20~70°C						
Explosion-proof	Non-explosion						
Ingress protection	IP65						
Installation	Namur or Tubing						
Section area	100mm <sup>2</sup>	100mm <sup>2</sup>					
Body material	Aluminum						
Weight	1817 g 2102 g						









双电控

# .



5/2 Single coil



3/2NC



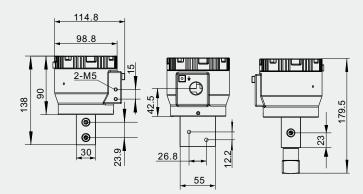
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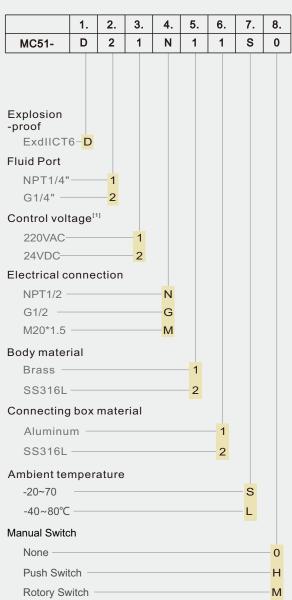
5/2 Double coil

# MC51 Series 3/2 Explosion-proof Direct Action Solenoid 1/4"

- Used for single acting actuator control, wide working pressure range, no minimum operating pressure difference.
- PTFE rider rings and graphite-filled PTFE seals reduce friction and eliminate sticking.
- Coils used in metal enclosures have class F insulation materials.
- Low-power design.
- Normally open and normally closed is universal.

Model No.	MC51
Voltage	DC : 24V ; AC : 220V
Power Consumption	24VDC: 3.6W ; 220VAC : 5.5VA
Insulation class	F Class
Working medium	Air, Inert gas, Water, Light oil
Differential pressure	0~1.0MPa
Fluid Port	G1/4, NPT1/4
Electrical connection	NPT1/2 , M20*1.5 , G1/2
Ambient Temp.	-20~70°C/-40~80°C
Explosion-proof	Ex db IIC T6 Gb;Ex tb IIIC T85℃ Db
Ingress protection	IP67
Installation	Tubing
Flow rate	7.5LPM
Body material	Brass or 316L





[1]The default AC voltage is 220VAC and DC voltage is 24VDC. For other voltages, Please consult MORC for additional voltages.

ontrol voltage <sup>[1]</sup>
220VAC
24VDC2
ectrical connection
NPT1/2N
G1/2G
M20*1.5M
dy material
Brass1
SS316L2
onnecting box material
Aluminum1
SS316L2
nbient temperature
-20~70S
-40~80°C L
nual Switch
None 0
Push Switch H
Rotory SwitchM



### MC-22 Series Air Filter Regulator

MC-22 series air filter regulator ables to accurately control pressure, as well as filter solid particles above 5 microns, and liquids from compressed air. Provide clean air source for air receiving equipment.

Die-cast aluminum body material with a polyester coating, which gives a long life and protects against corrosion. SS316L material is optional, suitable for severe corrosive environment. Quick response, stable pressure output even when inlet

- Filter solid particles with a minimum diameter of 5 microns
- and self-cleaning function.
- Designed with 3 air outlets, installation direction can be easily adjusted.
  Manual or auto drain function is available.



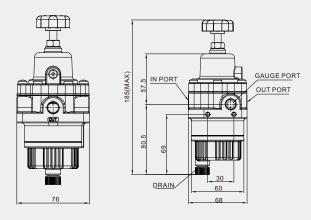


Manual drain

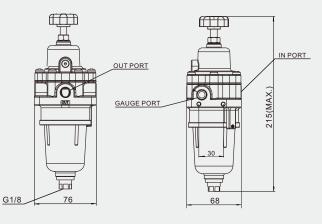
Auto drain

Mode	I No.	MC-22				
Max.inpu	t pressure	1.5MPa				
Output p	oressure	0~1.0MPa <sup>[1]</sup>				
Working	) medium	Compressed air				
Ambie	nt temp.	-20~70°C ; -20~120°C ; -40~70°C				
Min. filte	ering size	5µm				
Air con	nection	NPT1/4 ; G1/4				
Body m	naterial	Die-castAluminum ; SS316L				
		Manual drain: 0.6kg; Auto drain: 0.65kg;				
Weight	SS316	Manual drain: 1.95kg				

[1]: The pressure gauge range is 0~1.0 MPa, for other specifications please consult MORC .



Manual drain



Auto drain

	1.	2.	3.	4.	5.	6.	7.
MC-22	Ν	1	0	S	0	1	0
Port Standa	rd <sup>[2]</sup>						
NPT	<mark>N</mark>						
G							
Port connec							
1/4"		- 1					
1/2"		2					
Body materia	al						
Die-cast Alu			0				
SS316L-			<mark>_ 1</mark>				
Ambient ten	nperati	ıre					
-20~70°C				-s			
-20~120	°C —			—н			
-40~70°	c —			— L			
Copper opti	on						
Copper -					— <mark>0</mark>		
Non-copp	er —				— 1		
Gauge							
None —						— <mark>0</mark>	
Normal ty	ype —					— 1	
Stainless	ssteel					2	
Drain option	1						
Manual dr							0
Auto drain							1

[2]: The default screw standard is NPT, please consult MORC for other standards.

# MC-20 Series Air Filter Regulator

MC-20 series air filter regulator ables to accurately control pressure, as well as filter solid particles above 5 microns, and liquids from compressed air. Provide clean air source for air

receiving equipment.

- Die-cast aluminum body material with a polyester coating, which gives a long life and protects against corrosion.
- Quick response, stable pressure output even when inlet pressure and flow fluctuate.
- Filter solid particles with a minimum diameter of 5
- microns and self-cleaning function.
- Manual or auto drain function is available.









MC-20D

SILS

MC-20A

MC-20B

MC-20C

# Parameter

Model No.	MC-20A		MC-20B		MC-20C			MC-20D		
Air connection	1/8"	1/4"	1/4"	3/8"	3/8"	1/2"	3/4"	3/4"	1"	
Max. input pressure	1.5N	1.5MPa								
Regulating Range		Auto drain:0.15~0.9MPa Manual drain:0.05~0.9MPa								
Working medium	Com	Compressed air								
Ambient temp.	-20~	-70°C								
Min. filtering size	5µm									
Body material	Aluminum									

# Flow rate(L/min)

Model Size	MC-20A	MC-20B	MC-20C	MC-20D
1/8"	880	-	_	-
1/4"	950	1680	-	-
3/8"	_	1850	4160	
1/2"	-	_	4560	-
3/4"	_	_	4650	5000
1"	_	_	_	5500

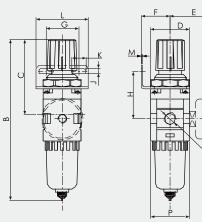
1. 2. 3. 4. 5. 6. Ν MC-20 Α 1 1 1 1 Model A Type -A B Type в С C Type -D D Type -Air connection 1/8" \_\_\_\_\_ 1/4" — 2 3/8"-3 4 3/4"-5 1"-6 **Connection Standard** NPT -N G — G PT— Р Сир Туре Metal cup Transparent cup 2 with metal cover **Drain Option** Manual drain -Auto drain 2 Gauge None -0 Normal type -1

Note1: Only 1/8" and 1/4" are available for A type, only 1/4 " and 3/8" are available for B type ,

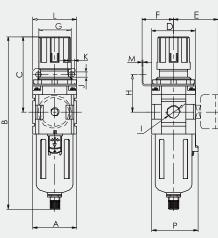
only 3/8", 1/2" and 3/4" are available for C type, only 3/4 " and 1" are available for D type.

Note2: Type A with metal cup can not be used to Auto drain.

# Dimensions

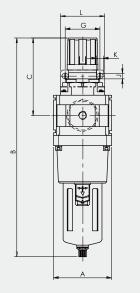


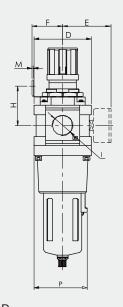
MC-20A



SIL3

MC-20B/MC-20C





MC-20D

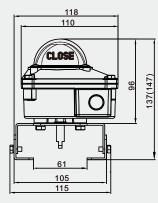
Size	Size													
Model	А	В	С	D	E	F	G	Н	I	J	К	L	М	Р
MC-20A1	40	164.5	78	40	56.8	30	34	43.5	G1/8"	5.4	15.4	55	2.3	40
MC-20A2	40	164.5	78	40	56.8	30	34	43.5	G1/4"	5.4	15.4	55	2.3	40
MC-20B2	53	211	92.5	53	60.8	39	40	46	G1/4"	6.5	8	53	2.3	56
MC-20B3	53	211	92.5	53	60.8	39	40	46	G3/8"	6.5	8	53	2.3	56
MC-20C3	70	262	112	70	70.5	49.2	54	53.5	G3/8"	8.5	10.5	70	2.3	73
MC-20C4	70	262	112	70	70.5	49.2	54	53.5	G1/2"	8.5	10.5	70	2.3	73
MC-20C5	75	267	114	70	70.5	49.2	54	55.5	G3/4"	8.5	10.5	70	2.3	73
MC-20D5	90	338	116	90	75.5	49.2	54	62	G3/4''	8.5	10.5	70	2.3	90
MC-20D6	90	338	116	90	75.5	49.2	54	62	G1"	8.5	10.5	70	2.3	90

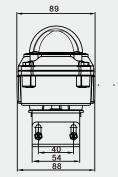
# **MLS100 Series Limit Switch Box**

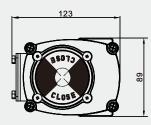
MLS100 series limit switch box have a proven track record for accurate and reliable signaling in linear and rotary applications. Providing both visual and remote electrical position indications, these cost-effective, compact unit unparalleled performance with ease of installation and calibration.

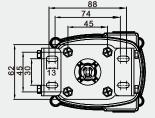
- Lightweight, dome shaped visual indicator with contrast color design.
- Rotary position indicator with NAMUR standard.
- Anti-detachment bolt, it will never missed during disassembly..
- Two cable entries for easy installation.
- IP67 and UV resistance, suitable for outdoor use.

Model No.	MLS100					
Body material	Die-cast Aluminum					
Outer coating	Polyester coating					
Power connection	M20*1. 5, NPT1/2, or G1/2					
Ingress protection	IP67					
Stroke	90°					
Switch type	Mechanical switch or proximity switch					
Mechanical switch rating	16A 125VAC/250VAC, 0.6A 125VDC, 10A 30VDC					
Proximity switch rating	Intrinsically safe : 8VDC , NC Non-explosion proof: 10∼30VDC, ≤150mA					
Reed proximity switch rating	24V 0.3A					
Ambient temp.	-20~70℃, -20~120℃, or -40~80℃					

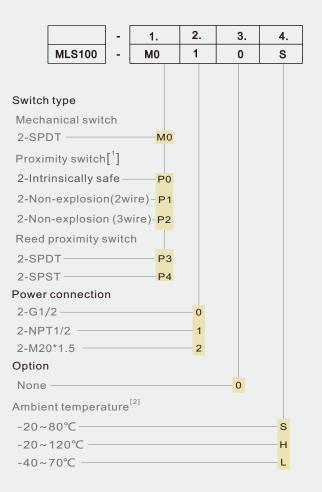












Note 1: By default, two wires intrinsically safe proximity switch(P0) at normally closed status; two wires non-explosion proof proximity switch (P1) at normally open status; three wires non-explosion proof proximity switch (P3) requires customer to select normally open or normally close.

Note 2: High Ambient temperature only mechanical switch is available. Low Ambient temperature only mechanical switch and intrinsically safe proximity switch (P0) is available.

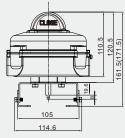
# **MLS300 Series Limit Switch Box**

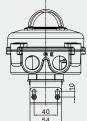
MLS300 series limit switch box have a proven track record for accurate and reliable signaling in linear and rotary applications. Providing both visual and remote electrical position indications, these cost-effective, compact unit unparalleled performance with ease of installation and calibration. Rugged, corrosion-resistant enclosures

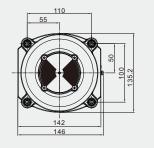
have multiple switch options and meet IP67 standards. Intrinsically safe and explosion proof designs ensure safe reliable operation in hazardous environment.

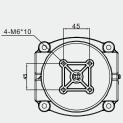
- Lightweight, dome shaped visual indicator with contrast color design.
- Rotary position indicator with NAMUR standard.
- Anti-detachment bolt, it will never missed during disassembly.
- Two cable entries for easy installation.
- IP67 and UV resistance, suitable for outdoor use.

Model No.	MLS300
Body material	Die-cast Aluminum
Outer coating	Polyester coating
Power connection	M20*1. 5、NPT1/2, NPT3/4,G3/4 or G1/2
Explosion-proof	Ex db IIC T6 Gb ; Ex tb IIIC T85℃ Db
Ingress protection	IP67
Stroke	90°
Switch type	Mechanical switch or proximity switch
Mechanical switch rating	16A 125VAC/250VAC, 0.6A 125VDC, 10A 30VDC
Proximity switch rating	Intrinsically safe : 8VDC , NC Non-explosion proof: 10~30VDC, ≤150mA
Reed proximity switch rating	24V 0.3A
Position transmitter	4~20mADC
Ambient temp.	-20~70℃, -20~120℃, or -40~80℃
Explosive temp.	-20~60℃









	_	1.	2.	3.	4.
MLS300	-	мо	1	0	S
Switch type					
Mechanical switch	1				
2-SPDT		M0			
3-SPDT		<mark>M1</mark>			
4-SPDT		<mark>M2</mark>			
2-DPDT		<u>— МЗ</u>			
Proximity switch <sup>[1]</sup>					
2-Intrinsically saf	e –	<mark>P0</mark>			
2-Non-explosion(	2w	rire)– <mark>P1</mark>			
2-Non-explosion(	(3w	rire)– <mark>P2</mark>			
Reed proximity sw	/itc	h			
2-SPDT					
2-SPST		— <mark>P4</mark>			
Power connection					
2-G1/2			0		
2-NPT1/2			— 1		
2-M20*1.5			<mark></mark> 2		
2-G3/4			— 4		
2-NPT3/4			— <mark>5</mark>		
Option					
None				—— <mark>0</mark>	
Position transmitte	er m	odule —		1	
Ambient temperate	ure	[2]			
-20~70°C					S
-40~80°C					— L

Note 1: By default, two wires intrinsically safe proximity switch(P0) at normally closed status; two wires non-explosion proof proximity switch (P1) at normally open status; three wires non-explosion proof proximity switch (P3) requires customer to select normally open or normally close. Note 2: Only mechanical switch (M0) can be used in high ambient temperature. Only intrinsically safe proximity switch (P0) can be used in high ambient temperature.

Note 2: High Ambient temperature only mechanical switch is available. Low Ambient temperature only mechanical switch and intrinsically safe proximity switch (P0) is available.



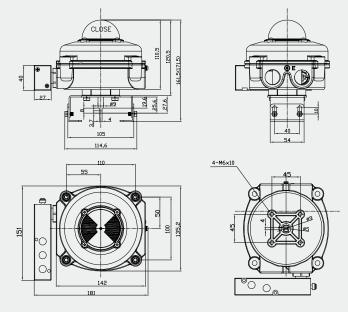
# MLS300 Series Limit Switch Box (With Solenoid Valve)

MLS300 series limit switch box have a proven track record for accurate andreliable signaling in linear and rotary applications. Providing both visual and remote electrical position indications, these cost-effective, compact unit unparalleled performance with ease of installation and calibration. Rugged, corrosion-resistant enclosures have multiple switch options and meet IP67 standards. Intrinsically safe and

explosion proof designs ensure safe reliable operation in hazardous environment.

- Lightweight, dome shaped visual indicator with contrast color
- design. ■ Rotary position indicator with NAMUR standard.
- Anti-detachment bolt, it will never missed during disassembly.
- Two cable entries for easy installation.
- IP67 and UV resistance, suitable for outdoor use.

Model No.		MLS300					
Volta	age	Die-cast Aluminum					
Outer c	oating	Polyester coating					
Power co	nnection	M20*1. 5、NPT1/2, NPT3/4,G3/4 or G1/2					
Explosio	n-proof	Ex db IIC T6 Gb ; Ex tb IIIC T85°C Db					
Ingress p	rotection	IP67					
Stroke		90°					
Switch type		Mechanical switch or proximity switch					
Mecha		16A 125VAC/250VAC, 0.6A 125VDC,					
switch	rating	10A 30VDC					
Proxim switch		Intrinsically safe : 8VDC, NC Non-explosion proof : 10~30VDC, ≤150mA					
Reed pr switch ra		24V 0.3A					
Solenoid Body Type		3/2 or 5/2					
Voltage		24VDC or 220VAC					
Ambient temp.		-20~70℃					
Explosiv	/e temp.	-20~60℃					



With 5/2 solenoid valve

	- [	1.	2.	3.	4.
MLS300	-	М0	1	2	S
Switch type					
Mechanical swite					
2-SPDT					
3-SPDT					
4-SPDT					
2-DPDT		<u>МЗ</u>			
Proximity switch	[1]				
2-Intrinsically sa	afe —	<b>P0</b>			
2-Non-explosion	n(2w	ire)– <mark>P1</mark>			
2-Non-explosion	n(3w	ire)- <mark>P2</mark>			
Reed proximity s	witc	h			
2-SPDT		<mark>P3</mark>			
2-SPST		<mark>P4</mark>			
Power connection					
2-G1/2			0		
2-NPT1/2			— 1		
2-M20*1.5			2		
2-G3/4			— 4		
2-NPT3/4			5		
Solenoid Valve <sup>[2]</sup>					
Integrated Solend	oid Va	alve —		2	
Ambient tempera	ture				
-20~70°C ——					S

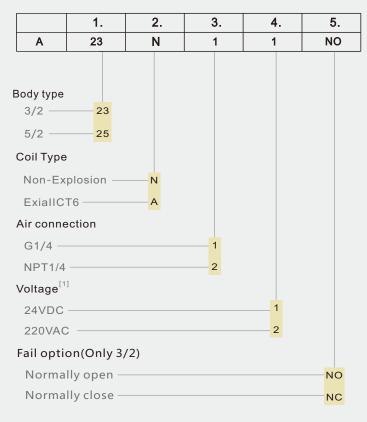
Note [1]: By default, two wires intrinsically safe proximity switch (P0)at normally closed status; two wires non-explosion proof proximity switch (P1) at normally open status; three wires nonexplosion proof proximity switch (P3) requires customer to select normally open or normally close.

Note [2]: See A series selection code of integrated solenoid valve, which shall be determined when ordering. Example : MLS300-M012S+A25N11

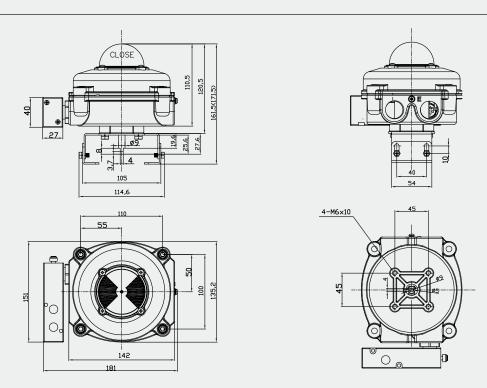


# Series A integrated solenoid valve (with MLS300)

### Model No. A23 A25 3/2 Body type 5/2 Body material Aluminum Outer coating Black oxide NPT1/4 or G1/4 Air Connect 24VDC or 220VAC Voltage Power Consumption DC: 1W, AC:2.5VA



[1]ExiaIICT6 is available for 24VDC only.



with 3/2 solenoid valve

# 27

# **MLS300-S Series Limit Switch Box**

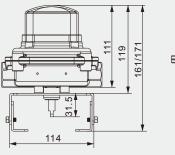
MLS300-S series limit switch box have a proven track record for accurate and reliable signaling in linear and rotary applications. Providing both visual and remote electrical position indications, these cost-

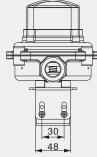
effective, compact unit unparalleled performance withease of installation and calibration. Rugged, corrosion-resistant enclosures have multiple switch options and meet IP67 standards. Intrinsically safe and explosion proof designs ensure safe reliable operation in hazardous environment.

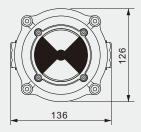
- Lightweight, dome shaped visual indicator with contrast color design.
- Rotary position indicator with NAMUR standard.
- Anti-detachment bolt, it will never missed during disassembly.
- Two cable entries for easy installation.
- IP67 and UV resistance, suitable for outdoor use.

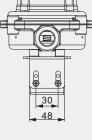


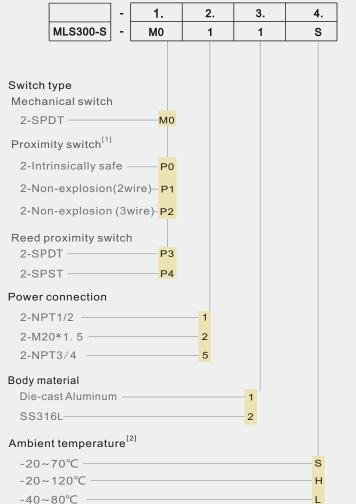
Model No.	MLS300-S				
Body material	Die-cast Aluminum or SS316L				
Power connection	NPT3/4, or NPT1/2				
Explosion-proof	Ex db IIC T6 Gb ; Ex tb IIIC T85°C Db				
Ingress protection	IP67				
Stroke	90°				
Switch type	Mechanical switch or proximity switch				
Mechanical switch rating	16A 125VAC/250VAC, 0.6A 125VDC; 10A 30VDC				
Proximity switch rating	Intrinsically safe: 8VDC, NC Non-explosion proof: 10~30VDC, ≤150mA				
Reed proximity switch rating	24V 0.3A				
Ambient temp.	-20~70℃, -20~120℃, or -40~80℃				
Explosive temp.	-20~60℃				











Note 1: By default, two wires intrinsically safe proximity switch (P0) at normally closed status; two wires nonexplosion proof proximity switch (P1) at normally open status; three wires non-explosion proof proximity switch (P3) requires customer to select normally open or normally close.

Note 2: Only mechanical switch (M0) can be used in high ambient temperature. Only intrinsically safe proximity switch (P0) can beused in high ambient temperature.



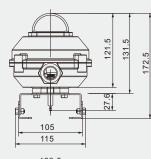
# MLS500 Series Limit Switch Box

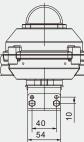
MLS500 series limit switch box have a proven track record for accurate and reliable signaling in linear and rotary applications. Providing both visual and remote electrical position indications, these cost-effective, compact unit unparalleled performance with ease of installation and calibration. Rugged, corrosion-resistant enclosures

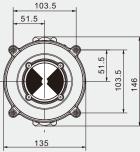
have multiple switch options and meet IP67 standards. Intrinsically safe and explosion proof designs ensure safe reliable operation in hazardous environment.

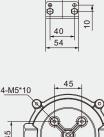
- Lightweight, dome shaped visual indicator with contrast color design.
- Rotary position indicator with NAMUR standard.
- Anti-detachment bolt, it will never missed during disassembly.
- Two cable entries for easy installation.
- IP67 and UV resistance, suitable for outdoor use.

Model No.	MLS500
Body material	SS 316L
Power connection	NPT3/4, or NPT1/2
Explosion-proof	ExdIICT6
Ingress protection	IP67
Stroke	90°
Switch type	Mechanical switch or proximity switch
Mechanical switch rating	16A 125VAC/250VAC, 0.6A 125VDC, 10A 30VDC
Proximity switch rating	Intrinsically safe: 8VDC, NC Non-explosion proof: 10~30VDC, ≤150mA
Reed proximity switch rating	24V 0.3A
Position transmitter	4~20mADC
Ambient temp.	-20~70°C, -20~120°C, or -40~80°C
Explosive temp.	-20~60℃











### 2. 1. 3. 4. 1 **MLS500** 0 M0 S Switch type Mechanical switch 2-SPDT-MO 3-SPDT -M1 4-SPDT-M2 2-DPDT-М3 Proximity switch<sup>1</sup> 2-Intrinsically safe P0 2-Non-explosion(2wire)-P1 2-Non-explosion(3wire)-P2 Reed proximity switch 2-SPDT-P3 2-SPST-P4 Power connection 2-NPT1/2 2-M20\*1.5 2 2-NPT3/4 5 Option None 0 Position transmitter module 1 Ambient temperature<sup>[2]</sup> -20~70°C-S -20~120°C н -40~80°C-L

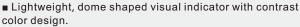
Note 1: By default, two wires intrinsically safe proximity switch (P0) at normally closed status; two wires nonexplosion proof proximity switch (P1) at normally open status; three wires non-explosion proof proximity switch (P3) requires customer to select normally open or normally close.

Note 2: Only mechanical switch (M0) can be used in high ambient temperature. Only intrinsically safe proximity switch (P0) can be used in high ambient temperature.

# MLS800 Series Limit Switch Box

MLS800 series limit switch box have a proven track record for accurate and reliable signaling in linear and rotary applications. Providing both visual and remote electrical position indications, these cost-effective, compact unit unparalleled performance with ease of installation and calibration. Rugged, corrosion-resistant

enclosures have multiple switch options and meet IP67 standards Intrinsically safe and explosion proof designs ensure safe reliable operation in hazardous environment.



- Rotary position indicator with NAMUR standard.
- Anti-detachment bolt, it will never missed during disassembly.
- Two cable entries for easy installation.
- IP67 and UV resistance, suitable for outdoor use.

s.	







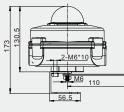
MLS800N

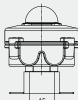
MLS800C

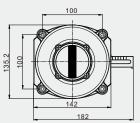
**MLS800S** 

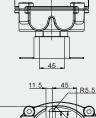
MLS800L

Model No.	MLS800
Body material	Die-cast Aluminum or SS316L
Power connection	NPT3/4, or NPT1/2
Explosion-proof	Ex db IIC T6 Gb ; Ex tb IIIC T85°C Db
Ingress protection	IP67
Stroke	90°
Switch type	Mechanical switch or proximity switch
Mechanical switch rating	16A 125VAC/250VAC, 0.6A 125VDC; 10A 30VDC
Proximity switch rating	Intrinsically safe: 8VDC, NC Non-explosion proof: 10~30VDC, ≤150mA
Reed proximity switch rating	24V 0.3A
Ambient temp.	-20~70℃, -20~120℃, or -40~80℃
Explosive temp.	-20~60℃











# MLS800C外形尺寸图

	1.	] -	2.	3.	4.	5.
MLS800	N	] -	M0	1	0	S
Body materia	al					
Non-explosio (Aluminum) Explosion-pro (Aluminum) Explosion-pro (SS316L)	n — N pof — C					
Switch type						
Mechanical	switch					
2-SPDT			— <mark>М0</mark>			
3-SPDT			— M1			
4-SPDT-			-M2			
2-DPDT	-1-		M3			
Proximity sw						
2-Intrinsical	lly safe		- P0			
2-Non-explo	osion(2w	vire) -	- P1			
2-Non-explo	osion(3w	vire) -	P2			
Reed proxim	nity swite	ch				
2-SPDT —			— <mark>P3</mark>			
2-SPST —			- P4			
Power conne	ction					
2-G1/2(Onl	y 800N/	C) —		<b>—</b> 0		
2-NPT1/2 -				1		
2-M20*1.5(	Only 80	0N/C)		<b>—</b> 2		
2-G3/4(Only	y 800C)			- 4		
2-NPT3/4(0	Only 800	DC/S)		- 5		
Option						
None ——					0	
Position tran	smitter n	nodule	;		<b>—</b> 1	
Ambient tem	perature	<sup>[2]</sup>				
-20~70°C -						S
-20~120°C						— н
-40~80°C-						— L

Note 1: By default, two wires intrinsically safe proximity switch (P0) at normally closed status; two wires nonexplosion proof proximity switch (P1) at normally open status; three wires non-explosion proof proximity switch (P3) requires customer to select normally open or normally close.

Note 2: Only mechanical switch (M0) can be used in high ambient temperature. Only intrinsically safe proximity switch (P0) can beused in high ambient temperature.

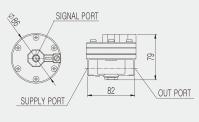
# MC-30/31/32 Volume Booster

MC-30/31/32 series booster the valve function's reaction speed by providing large air flow rate to actuator.

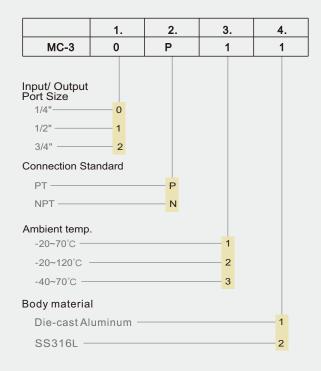
- Improves speed of valve movement.
- Improves stability with by-pass contorl.
- Reacts to sudden change in supply pressure.
- Fixed deadband due to the seat-to-seat type of supply and exhaust pressure.

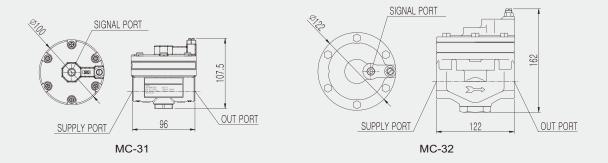


Mod	el No.	MC-30	MC-31	MC-32				
Max. Press	Supply ure	1.0MPa						
Max. Press	Output ure		0.7MPa					
Signal/ Pressu	Output re Ratio		1:1					
Flow	Output	1.19	2.72	5.24				
Capacity (Cv)	Exhaust	1.32	2.08	4.91				
Supply Conne	Output ction	PT(NPT)1/4	PT(NPT)1/2	PT(NPT)3/4				
Signal Co	nnection	PT(NPT)1/4 NPT1/4						
Line	arity	±1%F.S.						
Ambier	nt temp.	-20~70°C(-4~158°F)						
Weight	Aluminum	0.5kg(1.1lb)	0.76kg(1.7lb)	2.3kg(5.1lb)				
weight	SS316L	1.3kg(2.9lb)	1.9kg(4.2lb)	5.0kg(11.0lb)				



MC-30





# MC-40/41 Series Lock-up Valve

MC-40/41 series lock-up valve senses the main supply pressure and shuts down the air flow when the pressure is lower than setting.

- Compact size NO bracket is required.
- Detcts small variation of the pressure below 0.01MPa.

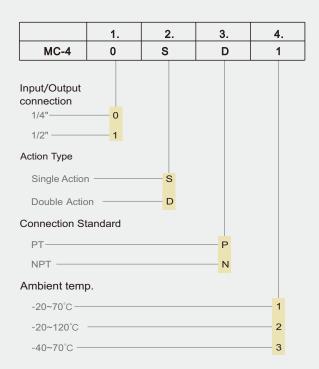


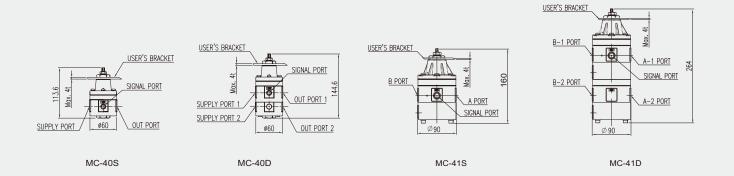


MC-40S

MC-41S

Model No.	MC-40S	MC-40D	MC-41S	MC-41D	
Signal Pressure	0.14~0.7MPa				
Signal Pressure Setting Range	Max.1.0MPa				
Lock-up pressure	Max.0.7MPa				
Hysteresis	ysteresis Below 0.01MPa				
Flow Capacity(Cv)	0.9		3.6		
Air Connection	PT(NPT)1/4		NPT1/2		
Signal Connection	PT(NF	PT)1/4	NPT1/4		
Ambient temp.	mbient temp2		-20~70°C(-4~158°F)		
Weight Aluminum	0.5kg(1.1lb)	0.7kg(1.6lb)	1.3kg(2.9lb)	2.3kg(5.1lb)	





# MC-60 Series Air Operated Valve

MC-60 series air operated valve is a device to control the on-off or change of the main valve gas channel through the on-off of the pilot pressure. Its characteristics:

- Pilot-operated type;
- Sliding spool valve with good seal and fast response.
- Low starting pressure, long lifespan.
- Manual override.

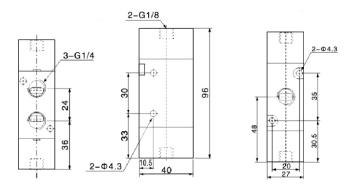


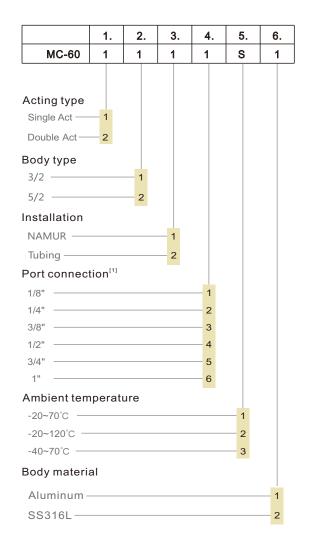


SIL3

SS316L

Model No.	MC-60		
Working medium	Clean air (after 40 µm filtration)		
Acting type	Internal guided		
Inlet/outlet/exhaust connection	G1/8, G1/4, G1/2, G3/4, G1		
Control connection	G1/8		
Working Pressure	1.5~8.0bar		
Max Operating Pressure	12bar		
Life Time	More than 10million times in normal use		
Maximum operating frequency	5 times/second		
Respornse Time	0.05S		
Ambient Temp.	Normal Temp: -20 <sup>~</sup> 70°C, High Temp:-20 <sup>~</sup> 120°C: Low Temp: -40 <sup>~</sup> 70°C		





[1]The maximum diameter of SS316L is 1/2".

# Aluminum

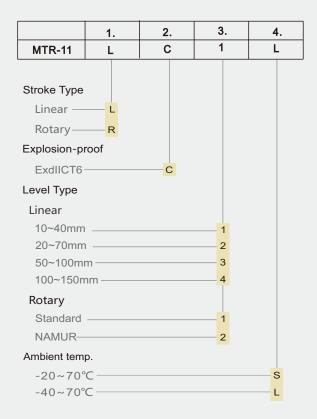
# **MTR-11 Series Position Transmitter**

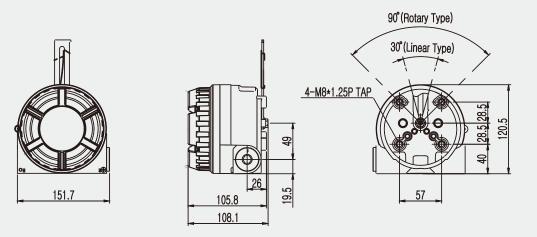
MTR-11 series position transmitter senses mechanical position change of stem being on the valve or similar device and converses to current signal of DC4~20mA output.

- Convenient wiring: 2 wire type.
- High accuracy and reliability.
- Simple change for RA v.s. DA action setting.
- Convenient adjustment of zero and span.



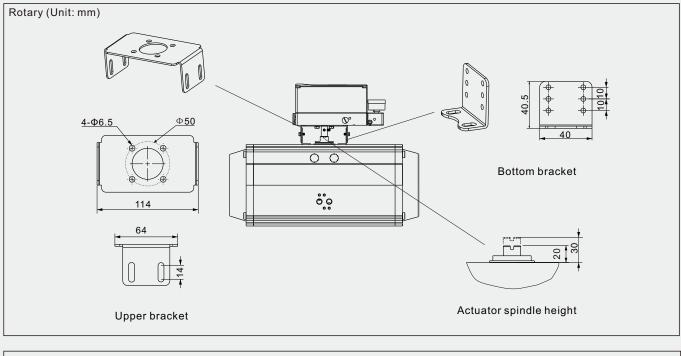
Model No.		MTR-11	
Input Stroke	Linear	10~150mm	
	Rotary	0~90°	
Output signal		4~20mADC	
Load resistance		Max.880Ω/28VDC	
Supply voltage		9~28VDC	
Scope of noise		50mV p.p	
Power connection		PF3/4(G3/4)	
Linearity		±1%F. S.	
Hysteresis		±0.2%F.S.	
Sensitivity		±0.2%F.S.	
Ambient temp.		-20~70°C	
Explosion-proof		ExdIICT6	
Ingress protection		IP67	
Shell material		Aluminum	
weight		1.2kg	

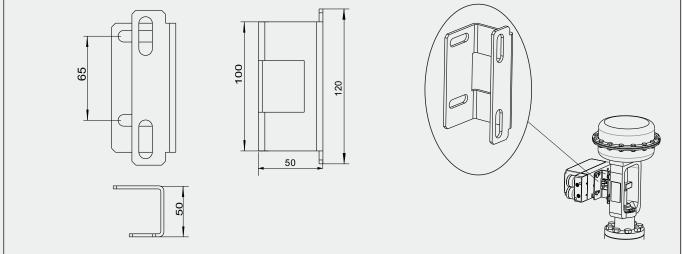




# 变装附件sitioner Accessories GA Drawing

# MSP-25/32 Bracket



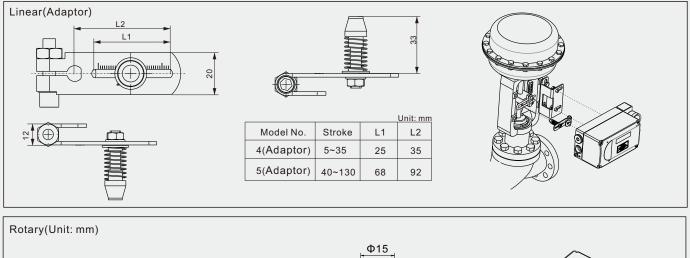


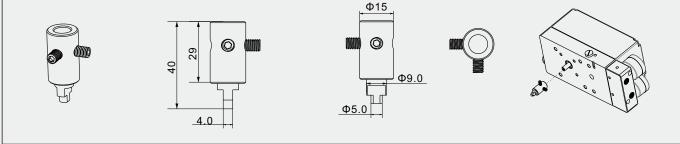
# MSP-25/32 Levers



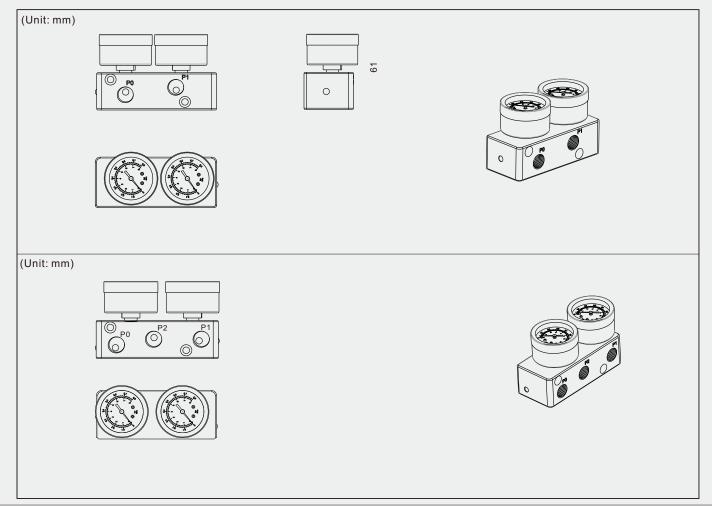
# Valve Positioner Accessories GA drawing

# MSP-25/32 Bracket



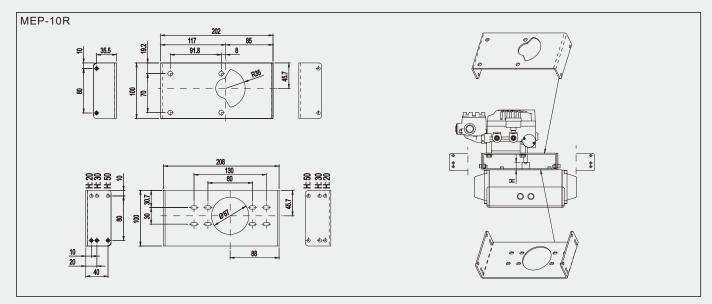


# Pressure Gauge Module(MSP-25 only)

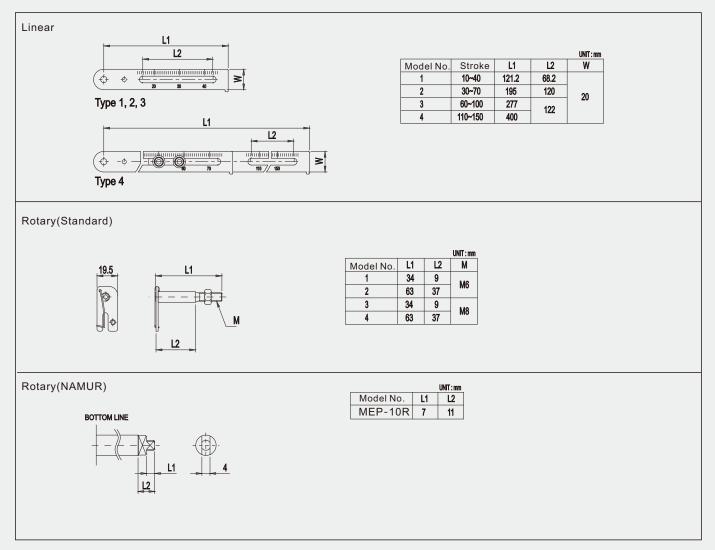


# Valve Positioner Accessories GA drawing

# MEP-10 Bracket



# MEP-10 Feedback Level



# Service

MORC offers safety, reliability and performance products to our customers. We offer comprehensive services to meet customer demand, which includes pre-sale, after-sale technical support service and field service as well as providing complete valve assembly service.

MORC series cover from assisting on product selection to all stages of the life cycle of our product. It includes simple troubleshooting as well as comprehensive service for entire projects. Our products are designed to perform reliably in many industrial environments. We strive to provide the services our customers need to ensure the plants running smoothly without any disruption. Upgrading and replacement of existing product can be a cost-effective alternative to premier brand product. We assist our customers in modernizing existing installations and replacing the old/obsolete products to minimize cost for customers.

## **Control Valve Complete Service**

MORC has partnered with number of leading valve manufacturer to provide complete valve assembly and calibration service. According to customer requirement, such as valve parts selection, assembly and commissioning of pneumatic control valve, pneumatic on-off valve or electric control valve.

### Pneumatic regulating valve or proportional control valve

Pneumatic control valve or proportional control valve is composed of pneumatic valve ,valve positioner, air filter regulator and other accessories to achieve control of valve opening degree.

Pneumatic on-off valve

Pneumatic on-off valve is composed of pneumatic valve, pneumatic actuator, solenoid valve, limit switch, air filter regulator and other accessories to achieve fully open and fully close of valve.

Electric control valve

Electric control valve is a complete set of control valve composed of electric actuator and valve. According to different valve types, such as 90 ° rotary valve, multi-turn valve and linear valve, it can be equipped with rotary electric actuator, multi-turn electric actuator or linear electric actuators for switching or adjustment functions.



### **Custom labels**

We make custom labels for customers who buy in large quantities.

### Nameplates

Within in house tag design and CNC engraving machines, we can engrave custom nameplates any information specified by customer.











# Service

# **Product Support Service**

With more and more MORC products being used in various industries, product support service is vital to ensure the correct selection and implementation of products. If users have any questions, they can contact MORC or their supplier for consultation. Alternatively log onto the MORC company website for downloading supporting documents.

# www.morc.com.cn



### **Pre-sale Service**

- Control scheme and product selection.
- Technical consulting.
- Product introduction and technical maintenance training.

### After-sale Service

- Installation, calibration and commissioning guidance, technical consultation.
- Phone call or video call remote assistance to solve the problem.
- Repair service, allowing users to send the faulty product to MORC for inspection and repair.
- Replacement parts and upgrade services. Under certain circumstances, MORC can provide spare parts/products to users for direct replacement, users then return faulty parts/products to MORC for repair and upgrade.
- Provide maintenance plan and spare parts plan.

### On-site Service to help your operation runs smoothly

- On-site installation, calibration and commissioning training.
- Fault diagnostic and repair.
- Software and hardware upgrade services.

### **Production Service**

- Spare parts and OEM solution.
- Inventory plan.
- Production schedule adjustment to meet customer needs
- Product quality inspection and function test.

### On-sale Service.

- Priority support and fast response.
- Identify or replace for alternative solution.
- Provide maintenance advice.

### **Engineering Service**

- Delivers value-added solutions that improve operational performance and increase profitability for its customers.
- Perform system audits to identify operational issues and recommended solutions.
- Engage remotely or on-site to support project planning and design.







## **Education and Training Service**

MORC offers a wide range of education and training programs to help customer and user deepen their understanding of critical equipment and processes. User can submit their requirements and training content to company. MORC can design and deliver tailored training programs on site or in the office.





### MORC Quality Assurance

- Quality is our foundation to long-term existence and success of our company. The quality of our products is the key to achieving customer satisfaction. By listening feedbacks from our customers, we are able to always learn and improve our service and product. Our full suit test equipments, and our product life cycle management ensure material quality for our suppliers, our products meet demand from industrial harsh environment.
- Quality also means all staff at MORC consider themselves responsible for the quality of our products and service.
   The continuous improvement process we are convinced that only satisfied customers will do business with us again.
- All MORC products come with warranty period of 18 months after arrival of goods 12 months after installation of product, whichever comes first.

### **MORC Social Responsibility**

- The health and safety of MORC staffs is very important, we provide a safe working environment as well as a happy place to be. We also consider it important to contribute and engage positively in local communities and society.
- MORC is fully committed to reducing its impact on environment by preventing pollution, reducing the consumption of energy, water and waster and recycling.



MORC Controls Ltd. Add: MORC Building, No.8 Dabao Road, Baoan, Shenzhen, China Tel.: +86-755-26977701/03/04/05/06/07 Fax: +86-755-26977702/10 Email: info@morc.com.cn

# Our vision

Be the world leading brand and successful valve accessories company. Our Mission Deliver superior service to our customer and pursue growth through improved and high-quality product;

always strive to exceed our customers' expectations; manage our business with integrity.

General industry Chemical Oil & Gas Pulp & Paper Food & Pharmaceutical HVAC & Water system Petrochemical & Refining Metals and Mining

MORC can supply not only reliable products to ensure extended service life, but experienced technical support and unmatched after sales service.