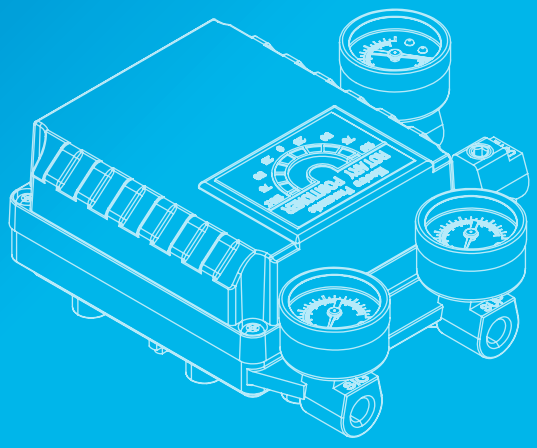
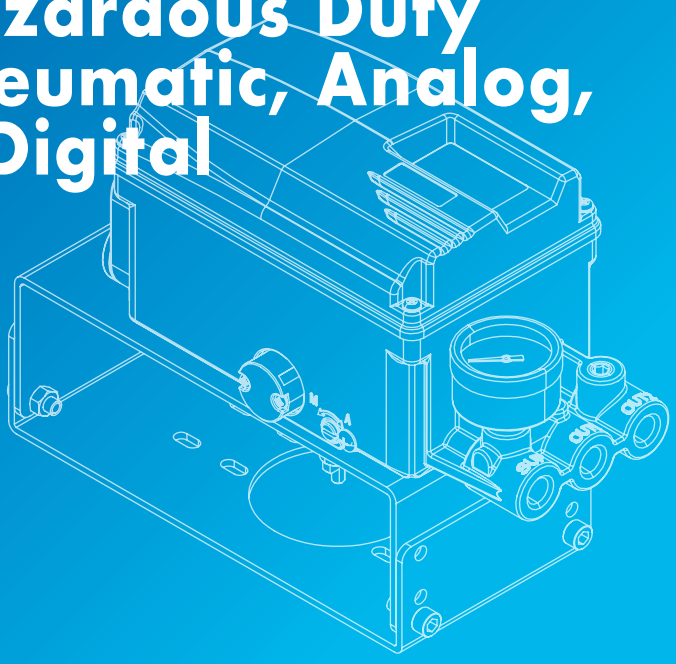
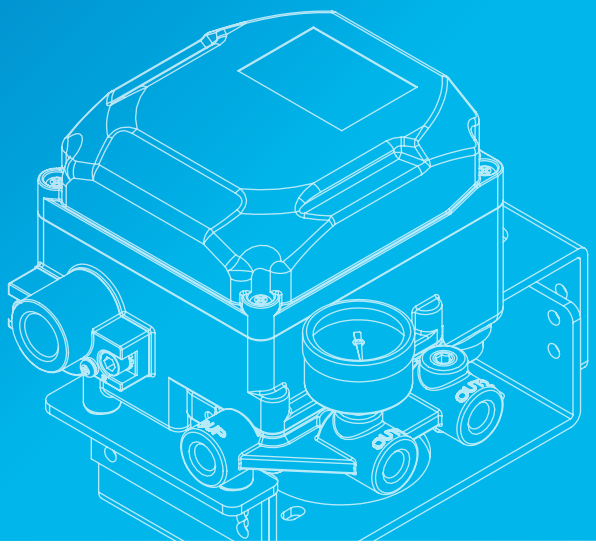
Max-Air

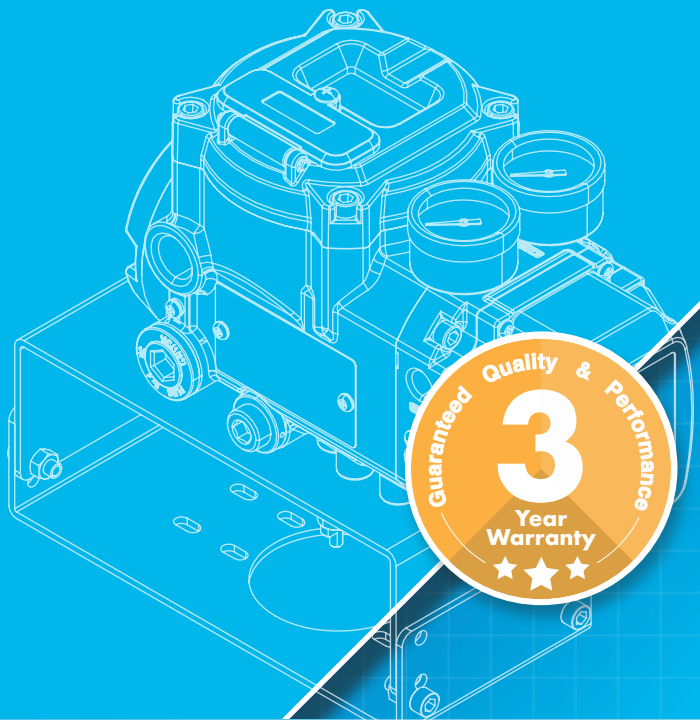
A Brand of Max-Air Technology.

Standard & Hazardous Duty Pneumatic, Analog, & Digital









Positioners Technical Brochure

Max-Air Technology Inc. | Rotary Actuators & Valve Automation Solutions

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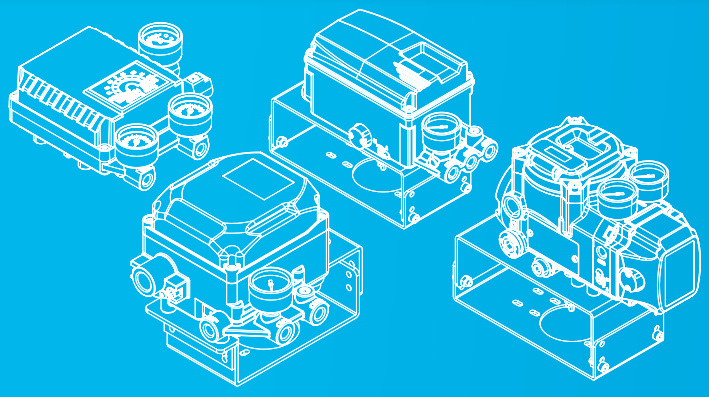
Positioners

Standard and hazardous duty Positioners for Valve Control - Pneumatic, Analog, & Digital



Max-Air positioners are designed for highly accurate valve control in the most arduous environments. Easy to setup and calibrate with all models available with both end of stroke switch and continuous position feedback. Certified for use in ordinary location and Hazardous area environments and HART enabled for partial stroke testing and diagnostic coverage of your valve.

PNY Series Part # Builder

A	-	B	C
PNY	-	01	-

Example Part # PNY-01

EXAMPLE DESCRIPTION: *PNY - PNEUMATIC, ORDINARY LOCATION, NAMUR ROTARY MOTION, FOR SAFE AREA/ NON-HAZARDOUS LOCATIONS CONDUIT CONNECTIONS = 1/2"NPT AIR = 1/4" NPT, WITH NO FEEDBACK OPTIONS, AND STANDARD -4°F TO 158°F (-20°C TO 70°C)*

A - MODEL	B - FEEDBACK OPTIONS	C - TEMPERATURE
PNY - PNEUMATIC, ORDINARY LOCATION, NAMUR ROTARY MOTION, FOR SAFE AREA/NON-HAZARDOUS LOCATIONS CONDUIT CONNECTIONS = 1/2"NPT AIR = 1/4" NPT	01 - NONE 02 - 2 X MECH. SWITCHES 03 - 4~20MA POSITION TRANSMITTER 04 - 2 X MECH. SWITCHES & 4~20MA POSITION TRANSMITTER	(BLANK) - STANDARD -4°F TO 158°F (-20°C TO 70°C)

PET Series Part # Builder

A	-	B	C
PET	-	01	LT

Example Part # PET-01 LT

EXAMPLE DESCRIPTION: *PET - ELECTROPNEUMATIC, ORDINARY LOCATIONS, NAMUR, ROTARY MOTION, FOR SAFE AREA/ NON-HAZARDOUS LOCATIONS CONDUIT CONNECTIONS = 1/2"NPT AIR = 1/4" NPT, WITH NO FEEDBACK OPTIONS, AND LOW TEMPERATURE -40°F TO 158°F (-40°C TO 70°C)*

A - MODEL	B - FEEDBACK OPTIONS	C - TEMPERATURE
PET - ELECTROPNEUMATIC, ORDINARY LOCATIONS, NAMUR, ROTARY MOTION, FOR SAFE AREA/NON-HAZARDOUS LOCATIONS CONDUIT CONNECTIONS = 1/2"NPT AIR = 1/4" NPT	01 - NONE 02 - 2 X MECH. SWITCHES 03 - 4~20MA POSITION TRANSMITTER 04 - 2 X MECH. SWITCHES & 4~20MA POSITION TRANSMITTER	(BLANK) - STANDARD -4°F TO 158°F (-20°C TO 70°C) HT - HIGH TEMPERTURE -4°F TO 248°F (-20°C TO 120°C) LT - LOW TEMPERATURE -40°F TO 158°F (-40°C TO 70°C)

PES8 Series Part # Builder

MODEL	A	-	B	S	C	D	E	F	G	H
PES8	0	-	R	S	4	5	L	3	0	-

Example Part # PES80-RS4NL30

EXAMPLE DESCRIPTION: *PES8 - INTRINSICALLY SAFE & NON-INCENDIVE SMART POSITIONER, (STANDARD) ENCLOSURE TYPE 4, ROTARY, CSA NORTH AMERICA, INTRINSICALLY SAFE & NON-INCENDIVE, 1/2 NPT CONDUIT, 1/4" NPT AIR, _____, HART AND POSITION TRANSMITTER (4~20MA DC FEEDBACK), NO LIMIT SWITCHES*

A - ENCLOSURE RATINGS	B - MOTION	S - CERTIFICATION
0 - (STANDARD) ENCLOSURE TYPE 4 (INTRINSICALLY SAFE & NON-INCENDIVE SMART POSITIONER) 2 - (REMOTE) ENCLOSURE TYPE 4 (INTRINSICALLY SAFE & NON-INCENDIVE SMART POSITIONER) 5 - (STAINLESS STEEL) ENCLOSURE TYPE 4X (INTRINSICALLY SAFE & NON-INCENDIVE SMART POSITIONER)	L - LINEAR R - ROTARY	S - CSA NORTH AMERICA CL 1, DIV 1&2, GP ABCD; T5... T6 Ex ia ICC T5...T6 GA CL II, DIV 1&2, GP EFG; T112 °C...T92°C; CL III Ex ia IIIC T112°C...T92°C Da ZN 20 AEx IIIC T112°C Da

C - CONDUIT ENTRY & AIR CONNECTION	D - LEVER LENGTH	E - TEMPERATURE
3 - M20 CONDUIT - 1/4"NPT AIR 4 - 1/2 NPT CONDUIT, 1/4" NPT AIR	1 - 10mm – 80mm LINEAR, OR M6 X 34L ROTARY 2 - 70mm - 150 mm LINEAR 3 - ADAPTER 70 mm LINEAR N - NAMUR ROTARY	L - (AMBIENT -40°C ~ 60°C) - T5 RATED, (AMBIENT -40°C ~ 40°C) - T6 RATED

F - COMMUNICATION	G - SWITCH OPTIONS	H - REMOTE MOUNT OPTION
0 - NONE 1 - POSITION TRANSMITTER (4~20MA DC FEEDBACK) 2 - HART COMMUNICATION 3 - HART AND POSITION TRANSMITTER (4~20MA DC FEEDBACK)	0 - NONE M - MECHANICAL TYPE (DRY CONTACT NO, NC, COM) P - PROXIMITY TYPE (P+F NJ1,5-F-N) D - WITH DOME COVER (WITHOUT LIMIT SWITCH)	1 - 5 METER LONG REMOTE CABLE 2 - 10 METER LONG REMOTE CABLE

*Note:
1) Not all combinations available, and special solutions not shown are possible. Please call factory for details.
2) Max-Air Technology reserves the right to change or modify products without prior notice & without incurring any obligation to make such changes on products previously or subsequently sold.

Positioners

Standard and hazardous duty Positioners for Valve Control in every application; pneumatic, analog, & digital

PES9 Series Part # Builder

MODEL	A	-	B	S	C	D	E	F	G
PES9	0	-	R	S	4	N	L	3	0

Example Part # PES90-R4NS30

EXAMPLE DESCRIPTION: *PES9 - EXPLOSION PROOF AND NON-INCENDIVE POSITIONER, (STANDARD) ENCLOSURE TYPE 4, ROTARY, EXPLOSION PROOF AND NON-INCENDIVE CETIFIED WITH 1/2" CONDUIT ENTRIES AND 1/4" NPT PNEUMATIC CONNECTIONS, NAMUR SHAFT AND WITH HART AND POSITION TRANSMITTER COMMINUICATION*

A - ENCLOSURE RATINGS	B - MOTION	S - CERTIFICATION
0 - (STANDARD) ENCLOSURE TYPE 4 (EXPLOSION PROOF & NON-INCENDIVE) 5 - (STAINLESS STEEL) ENCLOSURE TYPE 4X (EXPLOSION PROOF & NON-INCENDIVE)	L - LINEAR R - ROTARY	S - CSA NORTH AMERICA CL I, DIV 1, GP C&D, T5...T6 CL II, DIV 1, GP E,F, AND G; T5...T6 Ex db IIC T5...T6 Gb CL I, ZONE 1, AEx db IIC T5...T6 Gb, Ex tb IIIC T85 °C/T100 °C Db CL II, ZONE 21 AEx tb IIIC T85 °C/T100 °C Db

C - CONDUIT ENTRY & AIR CONNECTION:	D - LEVER LENGTH	E - TEMPERATURE
3 - M20 CONDUIT - 1/4"NPT AIR 4 - 1/2 NPT CONDUIT, 1/4" NPT AIR	1 - 10mm – 80mm LINEAR, OR M6 X 34L ROTARY 2 - 70mm - 150 mm LINEAR 3 - ADAPTER 70 mm LINEAR N - NAMUR ROTARY	S - (AMBIENT -20°C ~ 80°C) - T5 RATED, (AMBIENT -20°C ~ 70°C) - T6 RATED L - (AMBIENT -40°C ~ 80°C) - T5 RATED, (AMBIENT -40°C ~ 70°C) - T6 RATED

F - COMMUNICATION	G - SWITCH OPTIONS
0 - NONE 1 - POSITION TRANSMITTER (4~20MA DC FEEDBACK) 2 - HART COMMUNICATION 3 - HART AND POSITION TRANSMITTER (4~20MA DC FEEDBACK)	0 - NONE 1 - ALARM

*Note:
1) Not all combinations available, and special solutions not shown are possible. Please call factory for details.
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Table of Contents

3-YEAR LIMITED WARRANTY

Max-Air Technology Inc. | The Best Way to Automate Your Process

Max-Air Technology provides the following warranty regarding its products. THE WARRANTY STATED HEREIN IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES AND REPRESENTATIONS, EXPRESSED OR IMPLIED, OR STATUTORY, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. Max-Air Technology warrants its products shall be delivered free from defects in materials and workmanship when these products are used for the purpose for which they were designed and manufactured. Max-Air Technology does not warrant its products against chemical or stress corrosion or against any other failure other than from defects in materials or workmanship. The applicable warranty period is dependent on the clearly identified brand labeling.

The warranty period for Max-Air, Max-Electric, Delta T, and Sesto Valves brand labeled products is for thirty-six (36) months from the delivery date to the Purchaser.

Any claims regarding this warranty must be in writing and received by Max-Air Technology before the last effective date of the warranty period, failing which this warranty shall expire. Upon Max-Air Technology's receipt of a warranty claim, Max-Air Technology reserves the right to inspect the product(s) in question at either the field location or at Max-Air Technology manufacturing plant. If, after inspection of the product(s) in question, Max-Air Technology determines that the Purchaser's claim is covered by this warranty, Max-Air Technology's sole liability and the Purchaser's sole remedy under this warranty is limited to the refunding of the purchase price or repair or replacement thereof at Max-Air Technology's option. Warranty repair, replacement or re-performance by Seller shall not extend or renew the applicable warranty period. Max-Air Technology will not be liable for any repairs, labor, material or other expenses that are not specifically authorized in writing by Max-Air Technology, and in no event shall Max-Air Technology be liable for any direct, indirect or consequential damages arising out of any defect from any cause whatsoever. If any Max-Air Technology product is modified or altered at any location other than Max-Air Technology – Wentzville (Missouri) or Max-Air Technology – Agrate Brianza (MB) ITALY without the express written authorization of Max-Air Technology, it is expressly not covered by this warranty. The warranties and remedies are conditioned upon (a) proper storage, installation, use, operation, and maintenance of products, (b) Purchaser keeping accurate and complete records of operation and maintenance during the warranty period and providing Max-Air Technology access to those records, and (c) modification or repair of products only as authorized by Max-Air Technology in writing. Failure to meet any such conditions renders the warranty null and void. Max-Air Technology is not responsible for normal wear and tear. The warranty for such products shall be subject only to the warranty relief, if any, provided by the suppliers and/or manufacturers of such products.

Features & Benefits

Standard and hazardous duty Positioners for Valve Control in every application; pneumatic, analog, & digital

Positioners

Max-Air Technology offers a full range of positioning equipment that is used to control the position of a valve (ball, butterfly, and globe) such that a given process will achieve certain desired flow parameters. An example of this type of positioning control will include the mixing of hot and cold water, such that a specified downstream temperature requirement is achieved. Please see Max-Air 3-Way Tee Assemblies for specific examples. Other parameters which can be controlled are flow rates and pressure, as well as others. Many different types of models are offered, including pneumatic, electro-pneumatic, intrinsically safe, explosion proof, and Smart type positioners. All positioners are availible with a variety of position feed back options, switches, senors, transmitters and digital feedbasck via the HART protocol.

IP66 HART COMMUNICATION PROTOCOL SIL2 SGS TÜV SAAR FUNKTIONALE SICHERHEIT GEPRÜFT FUNCTIONAL SAFETY APPROVED C SA US

Standard Features:

- Ease of setup
- aluminum and stainless steel housing options
- Integrated position tranmitter
- Integrated position switches and senors
- Safe and Hazardous area certified solutions
- High and low temperature solutions
- Linear and rotary mounting options
- Double acting and single acting in a single model
- Custom mounting kits for any application
- Air supply conditioning solutions

Max-Air Positioner Portfolio

Force balanced pneumatic and analog positioners

Positioner Type		Accessories
PNY Pneumatic Positioner		• Switches • Sensors • Transmitters • Beacon
• Applications where it is undesirable to have local electronics		
PET Analogue Positioner		
Simple design for ease of maintenance and trouble shooting		
Digitally controlled for maximum performance and capability		
PES 80 Smart Positioner Intrinsically Safe		• HART 7 Capable • PST • Valve trend data • Position feed back • Beacon indicators
• Micro processor driven for fine control, diagnostic capability and superior performance. PST Capable and diagnostics via HART Protocol		
PES 90 Smart Positioner Explosion		
• Micro driven advantages while no need for a safe area barrier		

IP66

PYN Series

The pneumatic positioner PNY01 is a double acting & spring return unit with 3-15 PSI input signal for proportional control of rotary actuators. The positioner operates on the force-balance principle by comparing standard pneumatic signal control with the angular rotation of the stem.

Features:

- Fast response time and excellent stability
- Simple zero and span adjustment
- IP 66 enclosure
- Strong anti vibration performance
- By-pass valve (A/M switch) installed
- Position Transmitter and Limit Switch (Options)

PET Series

PET series positioners are double acting & spring return units with 4-20 mA input signal for proportional control of rotary and linear actuators. The positioner operates on the force-balance principle by comparing standard control signal transmitted with the angular rotation of the stem.

Features:

- Fast response time and excellent stability
- Simple zero and span adjustment
- IP 66 enclosure
- Strong anti vibration performance
- By-pass valve (A/M switch) installed
- Air connection part is designed for detachability and it can be changed PT/NPT tapping threads in the field easily

IP66

Area Classification Ratings

TYPE	CERTIFICATE	PROTECTION RATING
PET	Weatherproof	Non-hazardous locations
Call	ATEX, IECEx	II 2G Ex db mb IIB/IIC T6/T5 Gb II 2G Ex ia IIC T5/T6 Gb II 2D Ex tb IIIC T85°C/T100°C Db IP66

Features & Benefits

Standard & hazardous duty limit switch boxes available with mechanical, proximity, or inductive switches.

PES80 & PES90 Series

PES Series Smart Valve Positioner controls valve stroke accurately according to input signal of 4-20mA being input from controller. In addition, the integrated microprocessor performs various and powerful functions like Auto calibration, Alarm and Hart protocol.

IMPORTANT SUGGESTION
Use of filter regulator strongly recommended for long life performance!

PES80

IP66 HART SIL2

Features:

- Auto Calibration
- LCD Display
- Hart 7 Protocol
- PST Function (Partial Stroke Testing)
- Local Positioner Bypass Option
- End of Stroke Switches
- Mechanical and Proximity Type
- Alarm Function
- Option - Stainless Steel or Copper Free Aluminum Housing

Area Classification Ratings

TYPE	CERTIFICATE	PROTECTION RATING
N	Weatherproof	Non-hazardous locations
A	ATEX, IECEx	II 2G Ex ia IIC T5/T6 Gb II 2D Ex ia IIIC T100°C/T85°C Db IP6X

PES90

IP66 HART SIL2

Features:

- Auto calibration
- LCD Display
- HART 7 Protocol
- PST Function (Partial stroke testing)
- Local positioner bypass option
- Alarm function
- Can be used as open or closed indication
- Options - Stainless Steel Housing
  Advanced Diagnostics

Area Classification Ratings

TYPE	CERTIFICATE	PROTECTION RATING
C	ATEX, IECEx	II 2G Ex db IIC T5/T6 Gb II 2D Ex tb IIIC T100°C/T85°C Db IP66

Accessories

Volume Booster

Volume Booster is one-to-one Signal to output supply air, when used with a positioner/actuator, it is a control device to increase the stroking speed of control valves.

- Precise and fast response
- Soft seats provide tight shut off
- Adjustable Sensitivity
- Options available (High and Low temperature)
- Speed up valve regulation

Lock Up Valve

The pneumatic Lock Up Valve TS200 series shuts off the signal pressure line either when the air supply falls below an adjusted value or upon complete air supply failure. This causes the actuator to remain in its last position.

- Quick Response and high precision
- Easy set-up of lock up air pressure
- Small size and light weight
- Options available (High & Low Temperature)

Snap Acting Relay

Snap Acting Relay is a device that moves the control valve to the desired position in case of an emergency by switching or locking OUT port of pneumatic pipe when the signal pressure is lower than the set pressure.

- Quick Response and high precision
- Easy set-up of swiching signal air pressure
- Can be switched to Lock up valve
- Options available (High & Low Temperature)

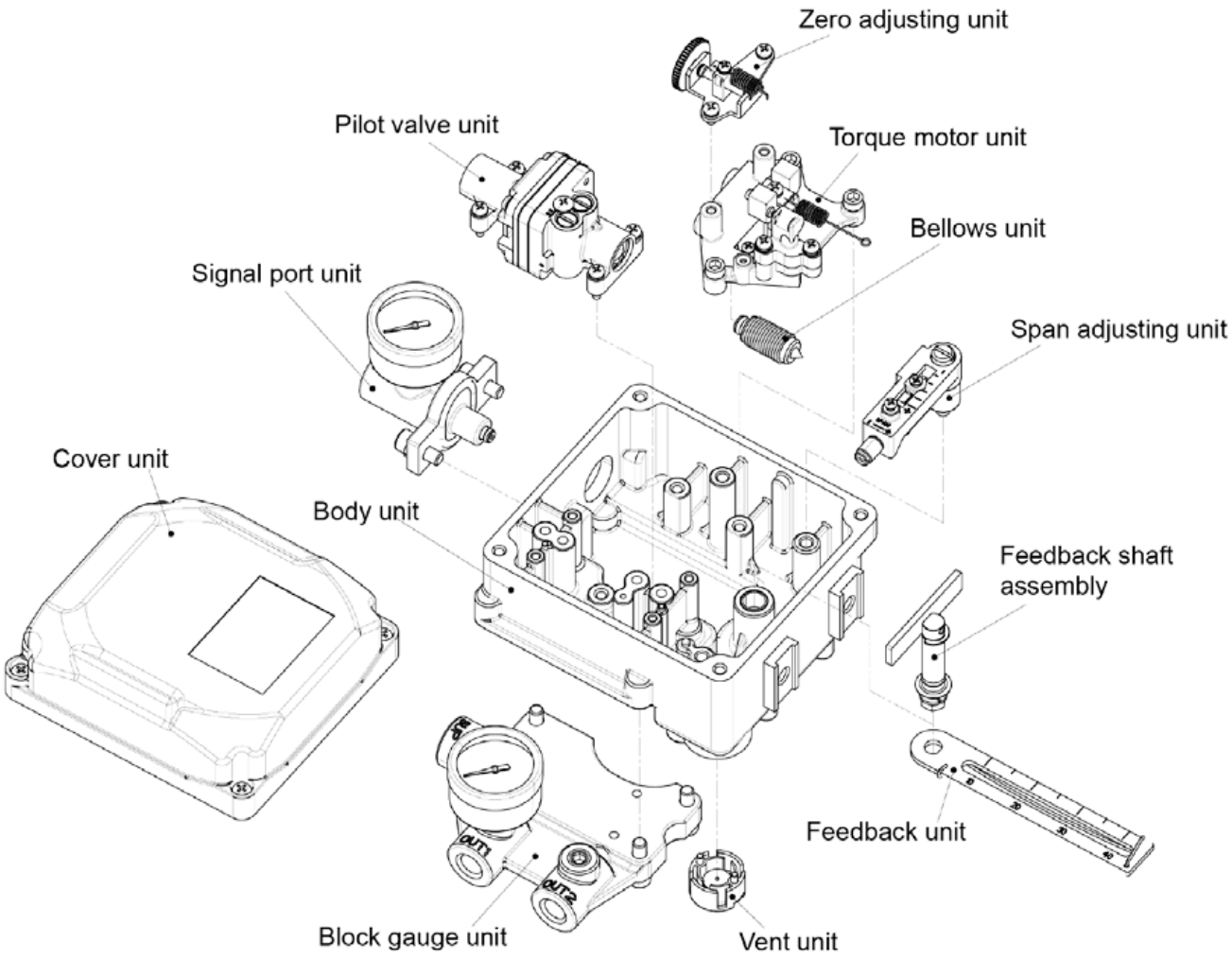
Air Filter Regulator

Air filter regulator TS300 series are used to provide pneumatic measuring and control equipment with a constant air supply.

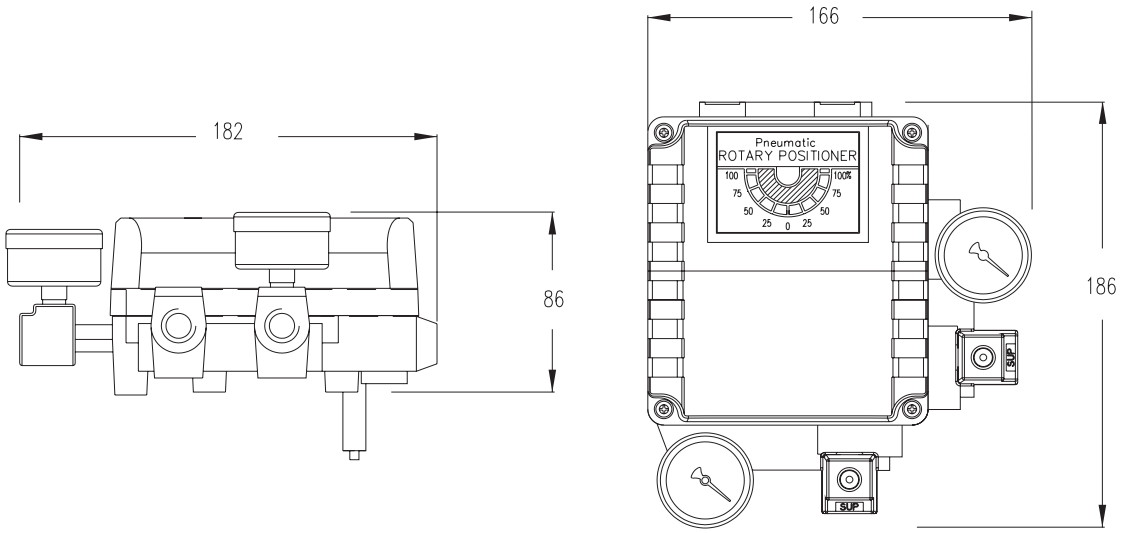
- Remove particles from compressed air
- Excellent flow and regulation characteristics
- Easy Installation, Repair and Replacement
- 2 gauge port, 5 micron filter
- Auto drain (option)

PNY Series

Exploded View & Bill of Materials



PNY Series

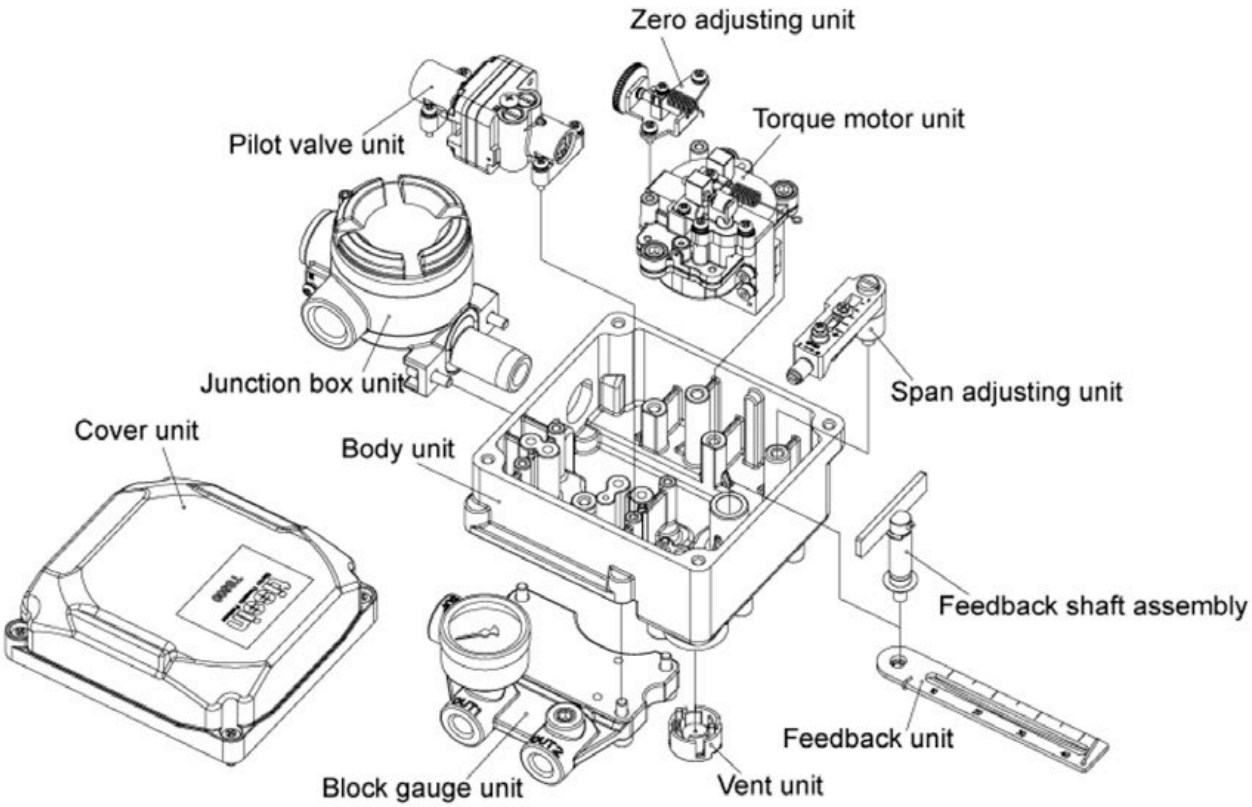


Specifications

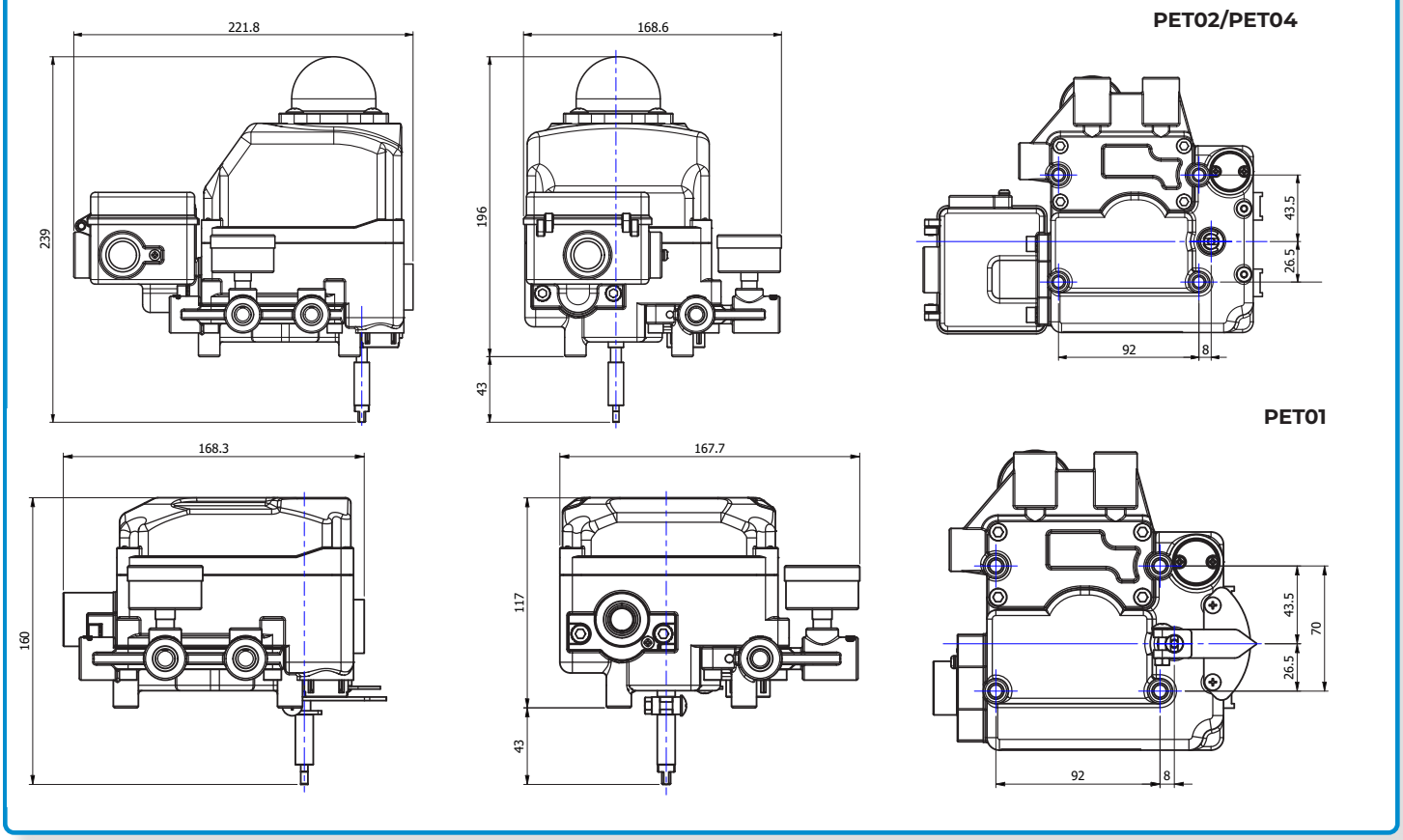
Model	PNY
Supply Pressure	0.14~0.7MPa
Air Connection	PT1/4, NPT1/4, G1/4
Gauge Connection	NPT1/8
Enclosure	IP66 (EN60529)
Ambient Temp.	Temperature -68F to 158F (-20 to 70C)
Linearity	+ 1.0% F.S. to +2.0% F.S.
Sensitivity	+ 0.2% F.S. to +0.5% F.S.
Hysteresis	+ 1.0% F.S.
Repeatability	+ 0.5% F.S.
Air Consumption	Below 2.5LPM (Sup=0.14MPa)
Flow Capacity	Over 80LPM (Sup=0.14MPa)
Material	Aluminum die cast
Weight	2.8kg

PET Series

Exploded View & Bill of Materials



PET Series



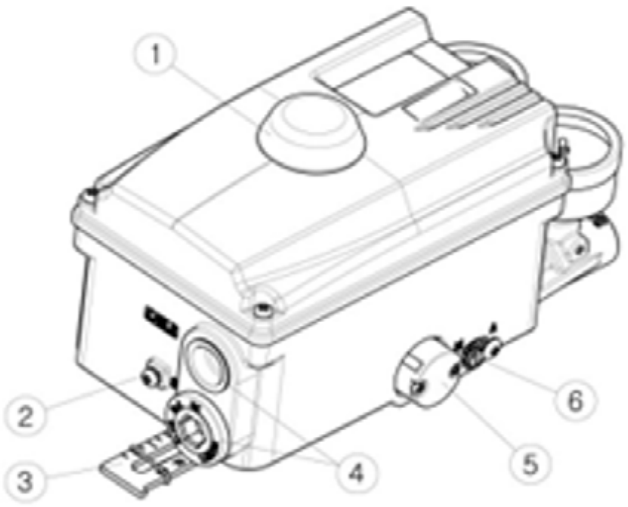
Specifications

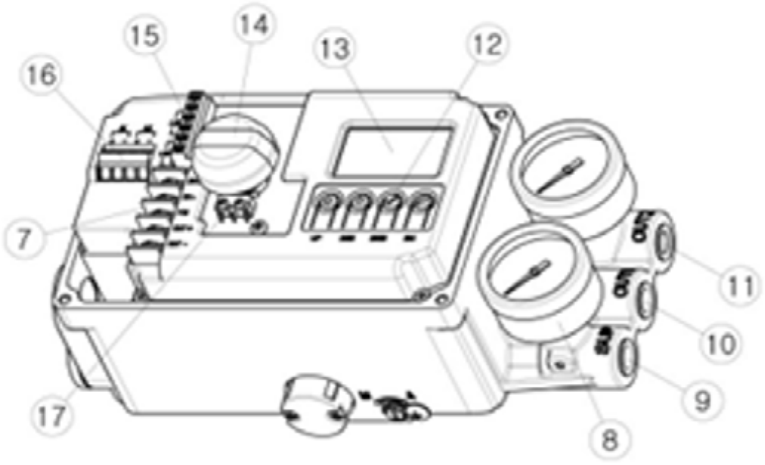
Model		PET
Supply Pressure		0.14~0.7MPa
Input Signal		4-20mA DC
Air Connection		PT1/4, NPT1/4, G1/4
Gauge Connection		PT1/8, NPT1/8
Conduit		G(PF)1/2, NPT1/2, M20
Enclosure		IP66 (EN60529)
Ambient Temp.	Low Temp Type	Temperature -68F to 158F (-20 to 70C)
Linearity		+ 1.0% F.S. to + 2.0% F.S.

Model	PET
Linearity	+ 1.0% F.S. to + 2.0% F.S.
Sensitivity	+ 0.2% F.S. to +0.5% F.S.
Hysteresis	+ 1.0% F.S.
Repeatability	+ 0.5% F.S.
Air Consumption	Below 2.5LPM (Sup=0.14MPa)
Flow Capacity	Over 80LPM (Sup=0.14MPa)
Material	Aluminum die cast
Weight	2.8kg

PES80 Series

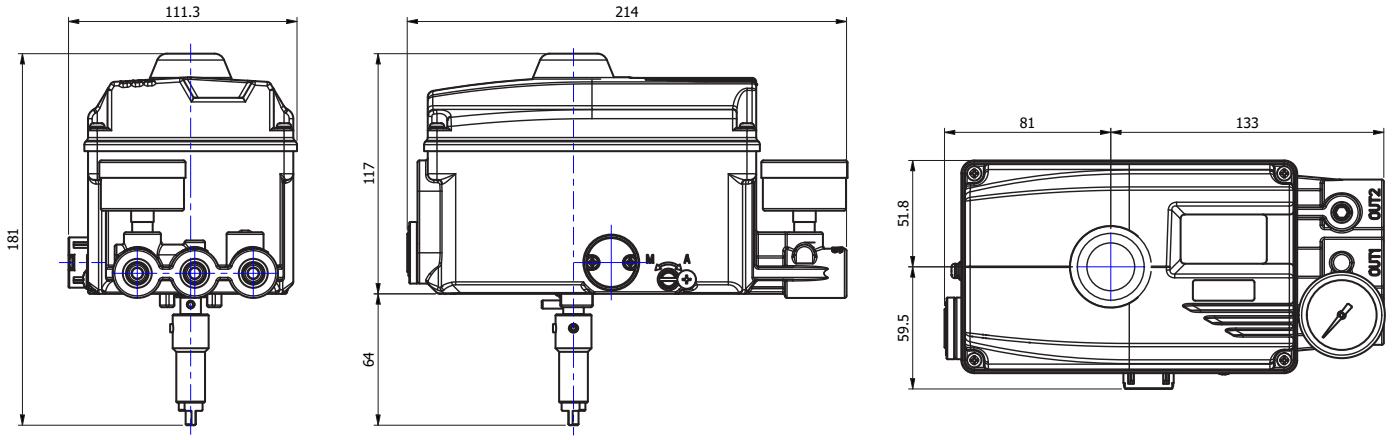
Exploded View & Bill of Materials





No.	DESCRIPTION
1	Dome Cover
2	External Ground
3	Feedback Lever
4	Conduit
5	Air Vent Hole Cover
6	Auto/Manual Switch
7	Terminal Block
8	Pressure Gauge
9	Air Supply Port
10	OUT1 Port
11	OUT2 Port
12	Button
13	LCD
14	Dome Indicator
15	Limit Switch Connection Terminal
16	Alarm Connection Terminal
17	Limit Switch

PES80 Series



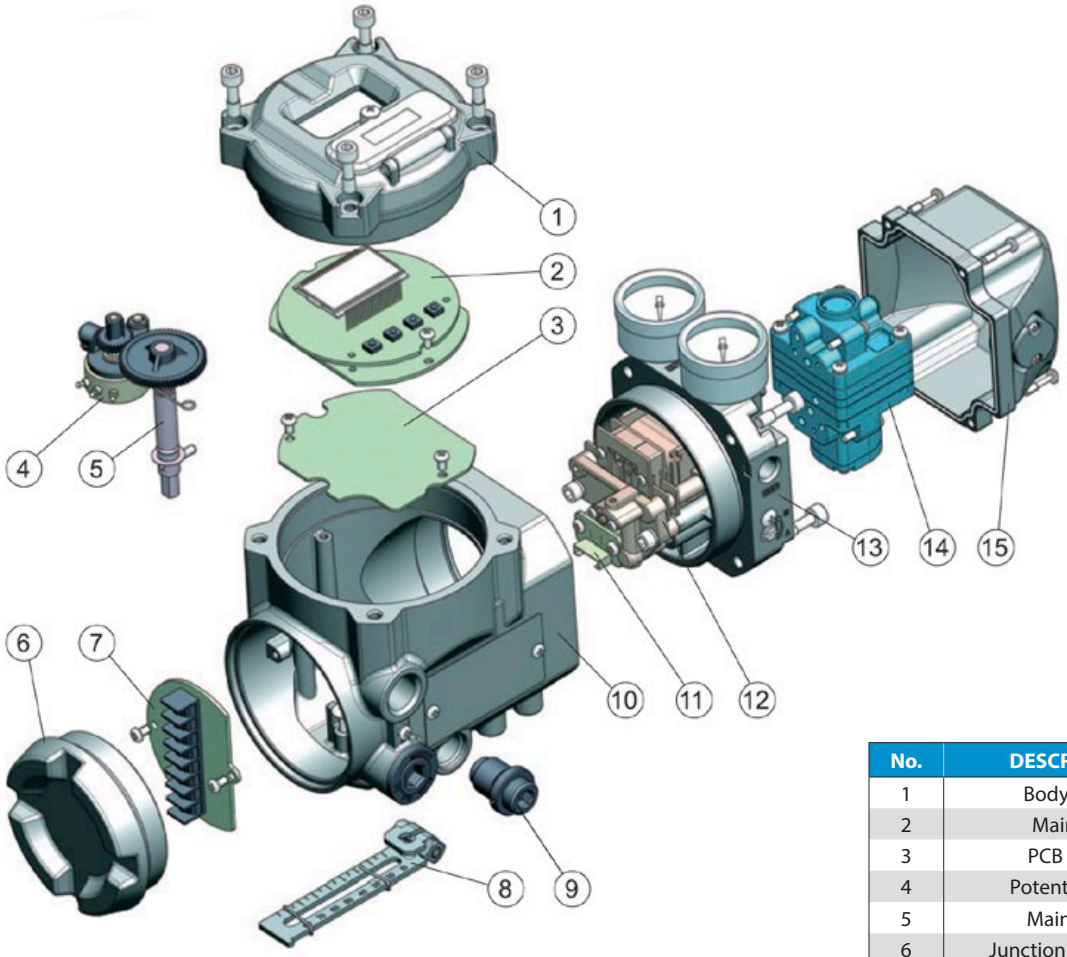
Specifications

Model		PES80	PES85
Supply Pressure		20 to 100psi (1.4 to 7 BarG)	
Air Connection		1/4" NPT	
Gauge Connection		1/8" NPT	
Conduit		1/2"NPT	
Hazardous Proof Type	CSA/US Intrinsically Safe	Class I, Division 1, Groups A, B, C, D T5...6	
		Class I, Zone 0, AEx ia IIC T5...T6 Ga Class II, Division 1, Groups E, F, G T112°C..T92°C ; Class III	
		Ex ia IIIC T112°C...T92°C Da Zone 20, AEx ia IIC T112°C...T92°C Da	
	CSA/US Non-Incendive	Class I, Division 2, Group A, B, C, D, T5... T6 Class II, Division 2, Groups F, G T112°C.. T92°C ; Class III	
Enclosure	EN60529	1P66	
	NEMA	TYPE 4/4X	
Ambient Temp.	Low Temp Type	Temperature -22F to 185F (-30 to 85C)	
	LCD Operating	Temperature -22F to 185F (-30 to 85C)	

Model		PES80	PES85
Linearity		+ 0.5% F.S.	
Sensitivity		+ 0.2% F.S.	
Hysteresis		+ 0.5% F.S.	
Repeatability		+ 0.3% F.S.	
Air Consumption		0.14m3/hr or 4.9 SCFH	
Flow Capacity		6m3/hr or 212 SCFH	
Material		Aluminum die cast	Stainless steel 316
Weight		2.6kg	4.2kg
HART Version		HART 7	
Position Transmitter*	Connection Type	2 Wire	
	Supply Voltage	10~30VDC	
Limit Switch Rating	Mechanical Type	AC 125V 3A DC30V 2A	
	Proximity Type	DC8.2V 8.2A	

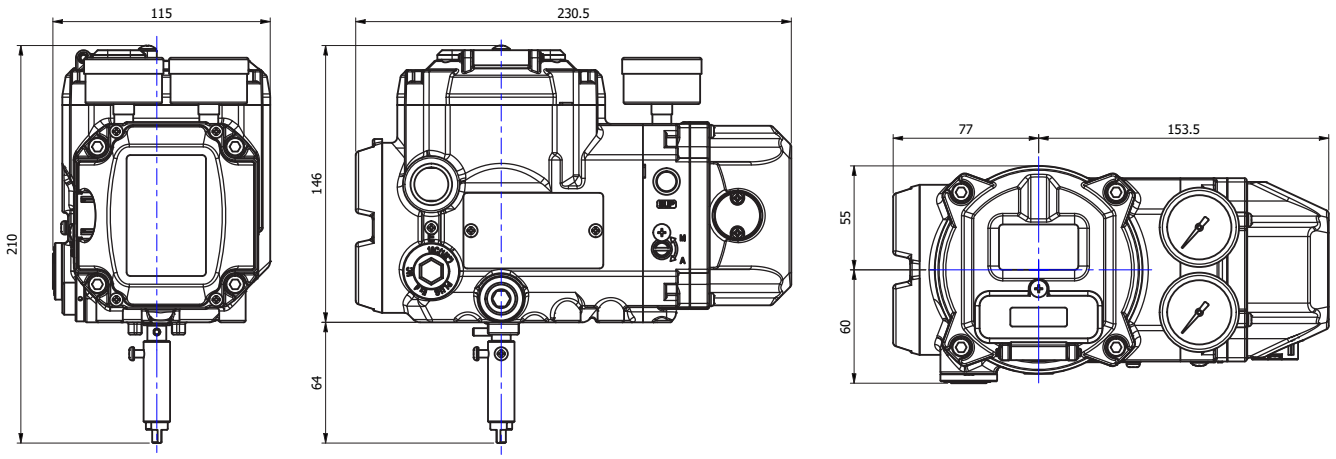
PE90 Series

Exploded View & Bill of Materials



No.	DESCRIPTION
1	Body Cover
2	Main PCB
3	PCB Guide
4	Potentiometer
5	Main Shaft
6	Junction Box Cover
7	Terminal Block
8	Feedback Lever
9	Drain Plug
10	Base Body
11	Pressure Sensor
12	Torque Motor
13	Air Connection Block
14	Pilot Valve
15	Pilot Valve Cover

PES90 Series



Specifications

Model		PES90	PES95
Supply Pressure		20 to 100psi (1.4 to 7 BarG)	
Air Connection		1/4" NPT	
Gauge Connection		1/8" NPT	
Conduit		1/2"NPT	
Hazardous Proof Type	CSA/US Intrinsically safe	Class I, Division 1, Groups C and D T5... T6 Class II, Division 1, Group E, F, and G; T5...T6	
		Ex db IIC T5...T^ Gb Class I, Zone 1, AEx db IIC T5...T6 Gb	
		Ex tb IIIC T85°C/T100°C Db Class II, Zone 21, AEx tb IIIC T85°C/ T100°C Db	
	CSA/US Non-Incedive	Class I, Division 2, Groups A, B, C, D T5...T6 Class II, Division 2, Groups F, G T85°C/ T100°C; Class III, Division 1	
Enclosure	EN60529	1P66	
	NEMA	TYPE 4/4X	
Ambient Temp.	Low Temp Type	Temperature -22F to 185F (-30 to 85C)	
	LCD Operating	Temperature -22F to 185F (-30 to 85C)	

Model		PES90	PES95
Linearity		+ 0.5% F.S.	
Sensitivity		+ 0.2% F.S.	
Hysteresis		+ 0.5% F.S.	
Repeatability		+ 0.3% F.S.	
Air Consumption		0.61GPM (2.3LPM)	
Flow Capacity		26.4GPM (100LPM)	
Material		Aluminum die cast	Stainless steel 316
Weight		2.6kg	4.2kg
HART Version		HART 7	
Position Transmitter*	Connection Type	2 Wire	
	Supply Voltage	10~30VDC	
Limit Switch Rating	Mechanical Type	AC 125V 3A DC30V 2A	
	Proximity Type	DC8.2V 8.2A	

Certifications & Approvals

CE, NSF/ANSI 372, HART Protocol, SIL2

CE Marking

is a mandatory conformity marking for certain products sold within the European Economic Area (EEA) since 1985. The CE marking is also found on products sold outside the EEA that are manufactured in, or designed to be sold in, the EEA. This makes the CE marking recognizable worldwide even to people who are not familiar with the European Economic Area. It is in that sense similar to the FCC Declaration of Conformity used on certain electronic devices sold in the United States.

The CE marking is the manufacturer's declaration that the product meets the requirements of the applicable EC directives.

NSF/ANSI 372

NSF/ANSI 372

is essentially equivalent to Annex G of NSF/ANSI Standard 61 and assures that the materials used in the water contact components of a water system component do not exceed 0.25% lead content. Some trims excluded. See pg. 2-4

HART COMMUNICATION PROTOCOL

The HART Protocol

The HART (Highway Addressable Remote Transducer) communications protocol is a bi-directional communication protocol that allows for both analog and digital data transfer over standard 4-20mA analog wiring. It is a hybrid protocol that superimposes a digital signal onto the analog current loop, enabling two-way communication between smart field devices and control systems.

SIL2
Safety Integrity Level

SIL2 Approval

The Positioners have been independently evaluated by approval authorities which have confirmed that our actuators are SIL 2 capable in accordance with the requirements of IEC 61508 provided that they are installed in accordance with the relevant Safety Manual.

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