SUSIN I-TORK INDIA PRIVATE LIMITED

An ISO 9001 -2015 Certified Company

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PNEUMATIC PISTON CYLINDER ACTUATOR

PLD & PLS SERIES

INTRODUCTION

Susin I-Tork Range PLDS Series piston actuator is designed for high-performance applications, ideal for ON/OFF or control functions in Knife edge and Gate valve automation.

The cylinder sizes range from 4 inches to 38 inches, making it a versatile solution for various valve types. It is especially well-suited for globe control valves due to its high thrust capability, stiffness, precision movement, and superior frequency response.

The actuator offers bore sizes from 100mm to 980mm, with thrust forces ranging from 430 lbf to 97,500 lbf in the double-acting configuration. For single-acting applications, the thrust force depends on the spring selection.

Manual override options are available via hydraulic cylinders or gearboxes for smaller sizes. Additionally, the actuator can be equipped with pneumatic accessories such as limit switches, solenoid valves, and positioners for enhanced functionality.



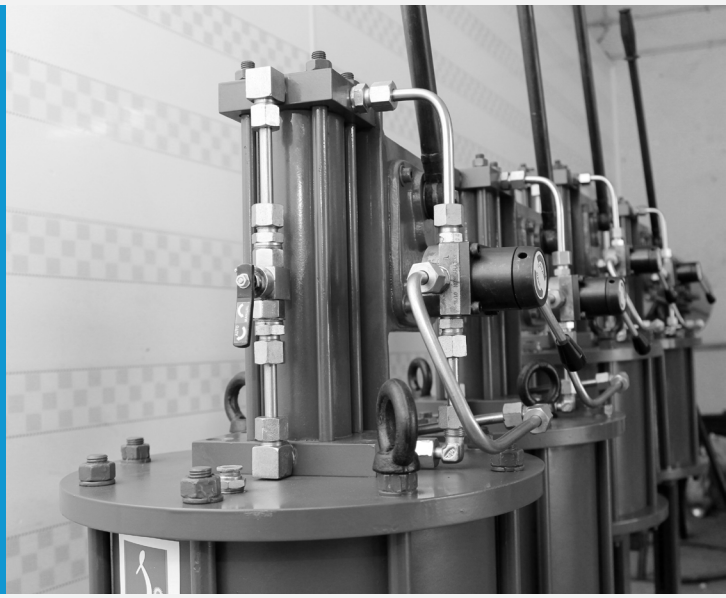


FEATURES

- Operating Pressure of 150psi (10.3 Bar) permitting substantially higher thrust capabilities than Diaphragms actuators.
- Tighter valve Shutoff due to higher thrust & Offers ease of maintenance.
- Responds quickly to signal changes because of Double Acting configuration.
- NBR seals are standard, special seal available on request.
- Cylinder Materials are Cast Steel, if needed can be provided in SS and Aluminum.
- End cover material with Cast Iron and optionally provided carbon steel.
- Less weight, good corrosion resistant material construction.
- For Custom built thrust and stroke consult the factory .

Design Features

- A Guide rod for more than 250mm Bore size.
- Field reversible application is applicable from the range of 100mm Bore size.
- Above 200mm Bore size Quad Type (O' ring.
- Cylinder inner surface - Honing and Hot chrome plated.
- Zinc rich epoxy coated piston/End flanges.
- Designed as Per ISO standard ISO3322, ISO4393 and ISO5597.
- Guide Bush is designed with Brass material.



CONSTRUCTION



Guide Bush

PTFE Bush for the Piston which gives better Durability also has self lubricating characteristics for smooth operation at the low pressure aspects.



Two Piston Guide Rod

To prevent the Piston abrasion and increases the life of piston



Piston Seal Ring

Minimizing Piston wear for long life span.



Spring

En47 offers excellent toughness, High tensile Strength, Vibration and shock resistance.

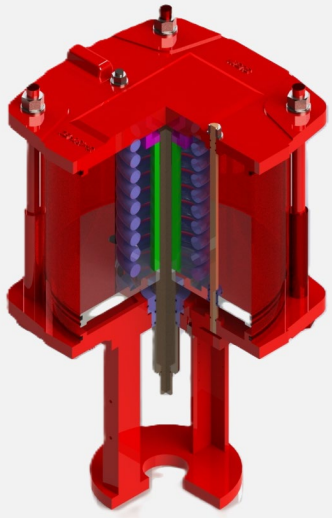


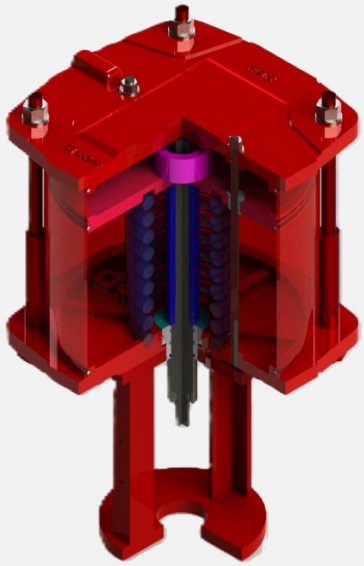
Tie Bolt

Used in single acting cylinder to compress the spring. There is no need of any special Equipment's to compress spring.

MATERIALS

Sl. No.	PART NAME	MOC	PLD	PLS	
			DA	SA (FO)	SA (FC)
1	Cylinder	Carbon Steel	A	A	A
2	Piston	Carbon Steel	A	A	A
3	Piston Rod	Stainless Steel	A	A	A
4	Top Flange	Carbon Steel	A	A	A
5	Bottom Flange	Carbon Steel	A	A	A
6	Guide Rod	Stainless Steel	A	A	A
7	Tie Rod	Carbon Steel	A	A	A
8	Tie Bolt	Carbon Steel	NA	A	A
9	Bottom Bush	Bronze	A	A	A
10	Guide Bush	Bronze	A	A	A
11	Spring	Spring Steel	NA	A	A
12	Stopper Washer	Carbon Steel	A	A	A
13	Spacer	Carbon Steel	A	NA	A
14	Spacer Tube	Carbon Steel	NA	A	A
15	Yoke	Carbon Steel	A	A	A
16	Split Clamp	Stainless Steel	A	A	A
17	Guide Plate	Stainless Steel	A	A	A
18	Scale	Stainless Steel	A	A	A
19	Indicator	Stainless Steel	A	A	A
20	Lock Nut	Stainless Steel	A	A	A
21	O-rings	NBR, Viton	A	A	A
22	Seals	CFT, PTFE	A	A	A
23	Fasteners	Stainless Steel, High Tensile Steel	A	A	A





TECHNICAL DATA

Double Acting PLD Series:

Model	BORE DIA	P ROD DIA	2.8 (Bar)		3.5 (Bar)		4.2 (Bar)		5 (Bar)		5.5 (Bar)		7 (Bar)	
	mm	mm	Close (KN)	Open (KN)	Close (KN)	Open (KN)	Close (KN)	Open (KN)	Close (KN)	Open (KN)	Close (KN)	Open (KN)	Close (KN)	Open (KN)
PLD-100	100	25	1.9	1.8	2.3	2.2	2.8	2.6	3.3	3.1	43.7	3.4	4.7	4.4
PLD-125	125	25	2.9	2.8	3.6	3.5	4.4	4.2	5.2	5	5.7	5.5	7.3	7
PLD-160	160	25	4.8	4.7	6	5.8	7.2	7	8.5	8.3	9.4	9.2	12	11.7
PLD-180	180	25	6.1	5.9	7.6	7.4	9.1	8.9	10.8	10.6	11.9	11.7	15.1	14.8
PLD-200	200	32	7.5	7.3	9.4	9.1	11.3	11	13.4	13.1	14.8	14.4	18.8	18.3
PLD-230	230	32	9.9	9.7	12.4	12.1	14.8	14.5	17.6	17.3	19.4	19	24.7	24.2
PLD-250	250	32	11.7	11.5	14.6	14.4	17.5	17.2	20.9	20.5	22.9	22.6	29.2	28.7
PLD-280	280	32	14.6	14.5	18.3	18.1	22	21.7	26.2	25.8	28.8	28.4	36.6	36.1
PLD-300	304.8	36	17.4	17.1	21.7	21.4	26	25.7	31	30.6	34.1	33.6	43.4	42.8
PLD-350	330.6	36	20.4	20.2	25.5	25.2	30.6	30.3	36.5	36	40.1	39.6	51	50.4
PLD-380	388.7	36	28.2	28	35.3	35	42.3	42	50.4	50	55.4	55	70.6	70
PLD-430	435.4	42	35.4	35.1	44.3	43.9	53.1	52.6	63.2	62.7	69.6	68.9	88.5	87.7
PLD-480	482.7	42	43.5	43.2	54.4	54	65.3	64.8	77.7	77.1	85.5	84.9	108.8	108
PLD-530	534.8	50	53.4	53	66.8	66.2	80.2	79.5	95.4	94.6	105	104	133.6	132.4
PLD-580	591.6	50	65.4	64.9	81.7	81.2	98.1	97.4	116.8	115.9	128.4	127.5	163.5	162.3
PLD-630	640.5	50	76.6	76.2	95.8	95.2	115	114.3	136.9	136	150.6	149.6	191.6	190.4
PLD-680	689.6	50	88.8	88.4	111.1	110.5	133.3	132.6	158.7	157.8	174.5	173.6	222.1	220.9
PLD-730	745	60	103.7	103	129.6	128.8	155.5	154.5	185.2	184	203.7	202.4	259.2	257.6
PLD-780	790	60	116.6	115.9	145.8	144.9	174.9	173.9	208.2	207	229	227.7	291.5	289.8
PLD-830	813	65	123.5	122.7	154.4	153.4	185.2	184	220.5	219.1	242.6	241	308.7	306.7
PLD-880	880	65	144.7	143.9	180.9	179.9	217	215.8	258.4	256.9	284.2	282.6	361.7	359.7
PLD-930	930	75	161.6	160.5	202	200.7	242.4	240.8	288.6	286.7	317.4	315.3	404	401.3
PLD-980	975	75	177.6	176.6	222	220.7	266.4	264.8	317.2	315.3	348.9	346.8	444	441.4

PLDS SERIES STRUCTURAL FRAMEWORK:

Actuator Model	Piston Effective Area		Actuator Stem Size		Actuator Mounting		Max. Travel PLD		Max. Travel PLS	
	mm²	Inch²	mm	Inch	With Yoke	Without Yoke	mm	Inch	mm	Inch
PLDS-100	7850	12	25	0.98	B	B	203.2	8	101.6	4
PLDS-125	12266	19	25	0.98	B	B	254	10	127	5
PLDS-160	20096	31	25	0.98	B	B	304.8	12	152.4	6
PLDS-180	25434	39	25	0.98	B	B	355.6	14	177.8	7
PLDS-200	31400	49	25	0.98	B	B	406.4	16	203.2	8
PLDS-230	41527	64	32	1.26	B	B	457.2	18	228.6	9
PLDS-250	49063	76	32	1.26	B	B	508	20	254	10
PLDS-280	61544	95	32	1.26	B	B	558.8	22	279.4	11
PLDS-300	72929	113	36	1.42	B	B	609.6	24	304.8	12
PLDS-350	85798	133	36	1.42	B	B	660.4	26	330.2	13
PLDS-380	118604	184	36	1.42	B	B	711.2	28	355.6	14
PLDS-430	148815	231	42	1.65	B	B	762	30	381	15
PLDS-480	182904	284	42	1.65	B	B	812.8	32	406.4	16
PLDS-530	224519	348	50	1.97	B	B	863.6	34	431.8	17
PLDS-580	274743	426	50	1.97	B	B	914.4	36	457.2	18
PLDS-630	322039	499	50	1.97	B	B	965.2	38	482.6	19
PLDS-680	373305	579	50	1.97	B	B	1016	40	508	20
PLDS-730	435695	675	60	2.36	B	B	1067	42	533.4	21
PLDS-780	489919	759	60	2.36	B	B	1067	42	533.4	21
PLDS-830	518861	804	65	2.56	B	B	1067	42	533.4	21
PLDS-880	607904	942	65	2.56	B	B	1067	42	533.4	21
PLDS-930	678947	1052	75	2.95	B	B	1067	42	533.4	21
PLDS-980	746241	1157	75	2.95	B	B	1067	42	533.4	21

1. For High Strok Length, please concern Factory.
2. B – Indicates the availability of Feature.

Pressure Connectors:

** Ports are in Inches.

Actuator Model	Standard Port (NPT)				Optional Port (NPT)			
	Top Flange		Bottom Flange		Top Flange		Bottom Flange	
	Top Face	Side Face	Top Face	Side Face	Top Face	Side Face	Top Face	Side Face
PLDS-100	1/2	1/2	1/2	1/2	3/8	3/8	3/8	3/8
PLDS-125	1/2	1/2	1/2	1/2	3/8	3/8	3/8	3/8
PLDS-160	1/2	1/2	1/2	1/2	3/8	3/8	3/8	3/8
PLDS-180	1/2	1/2	1/2	1/2	3/8	3/8	3/8	3/8
PLDS-200	1/2	1/2	1/2	1/2	3/8	3/8	3/8	3/8
PLDS-230	1/2	1/2	1/2	1/2	3/8	3/8	3/8	3/8
PLDS-250	1/2	1/2	1/2	1/2	3/8	3/8	3/8	3/8
PLDS-280	1/2	1/2	1/2	1/2	3/8	3/8	3/8	3/8
PLDS-300	3/4	3/4	3/4	3/4	1/2	1/2	1/2	1/2
PLDS-350	3/4	3/4	3/4	3/4	1/2	1/2	1/2	1/2
PLDS-380	3/4	3/4	3/4	3/4	1/2	1/2	1/2	1/2
PLDS-430	3/4	3/4	3/4	3/4	-	-	-	-
PLDS-480	3/4	3/4	3/4	3/4	-	-	-	-
PLDS-530	3/4	3/4	3/4	3/4	-	-	-	-
PLDS-580	3/4	3/4	3/4	3/4	-	-	-	-
PLDS-630	1	1	1	1	3/4	3/4	3/4	3/4
PLDS-680	1	1	1	1	3/4	3/4	3/4	3/4
PLDS-730	1	1	1	1	3/4	3/4	3/4	3/4
PLDS-780	1	1	1	1	3/4	3/4	3/4	3/4
PLDS-830	1	1	1	1	3/4	3/4	3/4	3/4
PLDS-880	1	1	1	1	3/4	3/4	3/4	3/4
PLDS-930	1 1/4	1 1/4	1 1/4	1 1/4	1	1	1	1
PLDS-980	1 1/4	1 1/4	1 1/4	1 1/4	1	1	1	1

1. For Customization, please concern Factory.

LINEAR PISTON ACTUATOR WITH MANUAL OVERRIDES

Type-1: Linear Piston Actuator with Jack Screw

Key Features

- **Compact Design:** Space-efficient, requiring minimal installation space in the actuator system.
- **Easy to Use:** Intuitive and straightforward for operators to use for manual adjustments.
- **Simple Operation:** Direct manual control without the need for complex gear mechanisms
- **Manual Precision:** Allows for precise and fine adjustments in actuator positioning.
- **Versatile:** Suitable for smaller pneumatic systems or applications with limited space for complex overrides.
- **No Power Dependency:** Operates independently of the pneumatic system, useful during system failure.
- **Increased Safety:** Provides backup control for safe operation when pneumatic power is unavailable.
- **Low Maintenance:** Fewer moving parts, leading to reduced wear and easier maintenance.
- **Quick Response:** Provides immediate manual control for actuator adjustment in emergencies.
- **Cost-Effective:** Eliminates the need for additional components like gearboxes, reducing costs



Performance Data:

Actuator Size	Max. Thrust		Turn per mm of Travel	Turn per inch of Travel	Maximum Required Force (Rim pull Force)	
	N	Lbs			N	Lbs
PLDS-100	30897	6946	0.3	8.4	360	81
PLDS-125	30897	6946	0.3	8.4	360	81
PLDS-160	30897	6946	0.3	8.4	360	81
PLDS-180	30897	6946	0.3	8.4	360	81
PLDS-200	79085	17780	0.3	8.4	360	81
PLDS-230	79085	17780	0.3	8.4	360	81
PLDS-250	79085	17780	0.3	8.4	360	81
PLDS-280	79085	17780	0.3	8.4	360	81
PLDS-300	140997	31699	0.3	8.4	360	81
PLDS-350	140997	31699	0.3	8.4	360	81
PLDS-380	140997	31699	0.3	8.4	360	81

TYPE-2: LINEAR PISTON ACTUATOR INTEGRATED WITH MULTI-TURN WORM GEAR MANUAL OVERRIDE (MTG)

Key Features

- **Compact Design:** Space-efficient, suitable for small actuator designs.
- **Low Backlash:** Reduced backlash improves precision and performance.
- **Mounting:** Suitable for Side mounting operations. (remove Angle motion)
- **Maximum Torque Efficiency in low-speed Applications:** Ideal for low-speed, high-torque applications.
- **Self-Locking Capability:** Worm gears often have a self-locking feature, preventing back driving..
- **High Torque Reduction:** Provides significant torque reduction with compact design.
- **Large Gear Ratios:** Enables significant speed reduction in a single stage.
- **Smooth and Quiet Operation:** Minimal noise and vibration during operation.
- **Durability:** Can handle heavy loads with reduced wear and tear.
- **Cost-Effective:** Relatively simple and inexpensive compared to other gear types.



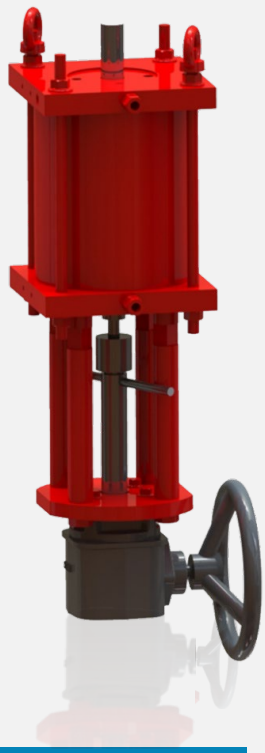
Performance Data:

Actuator Size	Max. Thrust		MOR Model	Turn per mm of Travel	Turn per inch of Travel	Maximum Required Force (Rim pull Force)	
	N	Lbs				N	Lbs
PLDS-100	160000	35971	MTG-100	0.3	8.4	360	81
PLDS-125	160000	35971	MTG-100	0.3	8.4	360	81
PLDS-160	160000	35971	MTG-100	0.3	8.4	360	81
PLDS-180	160000	35971	MTG-100	0.3	8.4	360	81
PLDS-200	160000	35971	MTG-100	0.3	8.4	360	81
PLDS-230	240000	53957	MTG-200	0.3	8.4	360	81
PLDS-250	240000	53957	MTG-200	0.3	8.4	360	81
PLDS-280	240000	53957	MTG-200	0.3	8.4	360	81
PLDS-300	240000	53957	MTG-200	0.3	8.4	360	81
PLDS-350	240000	53957	MTG-200	0.3	8.4	360	81
PLDS-380	240000	53957	MTG-200	0.3	8.4	360	81
PLDS-430	240000	53957	MTG-200	0.3	8.4	360	81
PLDS-480	240000	53957	MTG-200	0.3	8.4	360	81
PLDS-530	300000	67446	MTG-300	0.3	8.4	360	81
PLDS-580	380000	85432	MTG-400	0.3	8.4	360	81
PLDS-630	380000	85432	MTG-400	0.3	8.4	360	81
PLDS-680	600000	134892	MTG-650	0.3	8.4	360	81
PLDS-730	600000	134892	MTG-650	0.3	8.4	360	81
PLDS-780	600000	134892	MTG-650	0.3	8.4	360	81
PLDS-830	870000	195594	MTG-900	0.3	8.4	360	81
PLDS-880	870000	195594	MTG-900	0.3	8.4	360	81
PLDS-930	870000	195594	MTG-900	0.3	8.4	360	81
PLDS-980	1800000	404676	MTG-1800	0.3	8.4	360	81

TYPE-3: LINEAR PISTON ACTUATOR INTEGRATED WITH MULTI-TURN BEVEL GEAR MANUAL OVERRIDE (MAB)

Key Features

- **Right-Angle Motion Transmission:** Efficiently changes the direction of motion at 90 degrees.
- **High Torque Capacity:** Handles heavy loads and generates significant force.
- **Efficient Power Transmission:** Minimizes energy loss for optimal performance.
- **Reduced Backlash:** Offers precise movement and improved accuracy.
- **Versatile Speed and Torque Control:** Adjusts speed and force with gear ratio changes.
- **Compact Design:** Space-efficient, ideal for tight spaces.
- **Smooth Operation:** Provides quiet and precise motion.
- **Load Distribution:** Even load handling, reducing wear and increasing durability.
- **Customizable:** Various gear types (straight, spiral, hypoid) for specific needs.
- **Easy Integration:** Compatible with other mechanical components in actuator systems.



Performance Data:

Actuator Size	Max. Thrust		MOR Model	Turn per mm of Travel	Turn per inch of Travel	Maximum Required Force (Rim pull Force)	
	N	Lbs				N	Lbs
PLDS-100	75000	16862	MAB-075	0.3	8.4	360	81
PLDS-125	75000	16862	MAB-075	0.3	8.4	360	81
PLDS-160	75000	16862	MAB-075	0.3	8.4	360	81
PLDS-180	75000	16862	MAB-075	0.3	8.4	360	81
PLDS-200	75000	16862	MAB-075	0.3	8.4	360	81
PLDS-230	75000	16862	MAB-075	0.3	8.4	360	81
PLDS-250	75000	16862	MAB-075	0.3	8.4	360	81
PLDS-280	75000	16862	MAB-075	0.3	8.4	360	81
PLDS-300	75000	16862	MAB-075	0.3	8.4	360	81
PLDS-350	100000	22482	MAB-100	0.3	8.4	360	81
PLDS-380	100000	22482	MAB-100	0.3	8.4	360	81
PLDS-430	150000	33723	MAB-150	0.3	8.4	360	81
PLDS-480	200000	44964	MAB-200	0.3	8.4	360	81
PLDS-530	300000	67446	MAB-300	0.3	8.4	360	81
PLDS-580	350000	78687	MAB-350	0.3	8.4	360	81
PLDS-630	400000	89928	MAB-400	0.3	8.4	360	81
PLDS-680	500000	112410	MAB-500	0.3	8.4	360	81
PLDS-730	500000	112410	MAB-500	0.3	8.4	360	81
PLDS-780	800000	179856	MAB-800	0.3	8.4	360	81
PLDS-830	800000	179856	MAB-800	0.3	8.4	360	81
PLDS-880	800000	179856	MAB-800	0.3	8.4	360	81
PLDS-930	800000	179856	MAB-800	0.3	8.4	360	81
PLDS-980	1200000	269784	MAB-1200	0.3	8.4	360	81

TYPE-4: LINEAR PISTON ACTUATOR INTEGRATED WITH HYDRAULIC MANUAL OVERRIDE (HMOR)

Key Features

- **Compact Design:** Often integrated within the actuator without requiring excessive space.
- **Versatile:** Can be used in various environments where pneumatic or electric systems may be unreliable
- **Simple Mechanism:** Typically involves straightforward hydraulic systems for ease of use
- **Precise Control:** Pressure regulators to control the pumping pressure based on the requirements.
- **Independent Operation:** Integrated Dial gages is provided to measure the pressure variation during the operations.
- **Safety:** Enhances safety by providing backup in critical applications. Inbuilt safety relief valve provided.
- **Durability:** Pump is designed for high discharge rate and high efficiency.
- **Reliability:** Offers reliable manual control even under high pressure or complex conditions.
- **Emergency Control:** Provides manual control in case of pneumatic system failure
- **Cost-Effective:** A low-cost solution for providing backup functionality.



Performance Data:

Actuator Size	Model		Output Thrust	
	N	Inch	N	Lbs
PLDS-530	200	8	134303	30194
PLDS-580	250	10	225629	50726
PLDS-630	250	10	225629	50726
PLDS-680	250	10	225629	50726
PLDS-730	280	11	281029	63181
PLDS-780	280	11	281029	63181
PLDS-830	320	13	343816	77297
PLDS-880	320	13	343816	77297
PLDS-930	320	13	343816	77297
PLDS-980	320	13	343816	77297

ACTUATOR AUTOMATION

Type – 1: Simple Automation

Key Features

- **Precise Movement:** A solenoid valve enables accurate, automated control of actuator motion.
- **Pressure Stability:** An air filler regulator ensures consistent, optimal pressure for smooth operation.
- **Speed Control:** A flow control valve adjusts the actuator's speed, providing controlled and smooth motion.
- **Protection:** The filter removes contaminants, ensuring clean air and preventing damage to actuator parts.
- **Efficiency:** These accessories reduce energy consumption and improve actuator lifespan by optimizing airflow and pressure.
- **Reliability:** The combination of these accessories ensures consistent performance and safer operation.



Type – 2: Moderate Automation

Key Features

- **Precise Control:** The solenoid valve provides accurate movement control, while the flow control valve adjusts speed for smooth operation.
- **Optimized Pressure:** The air filler regulator stabilizes pressure, preventing overpressure and ensuring safe operation.
- **Clean Air:** The filter removes contaminants, ensuring clean air enters the actuator and preventing damage.
- **Safety Monitoring:** The pressure switch alerts when pressure goes out of range, preventing system damage.
- **Efficiency & Longevity:** The combination of accessories reduces wear, lowers energy use, and extends the actuator's lifespan.
- **Automation:** The solenoid valve enables remote or automated control, enhancing system flexibility.



Type – 3: Critical Automation

Key Features

- **Precise Control:** The solenoid valve enables accurate control over actuator movement.
- **Speed Regulation:** The flow control valve adjusts actuator speed for smooth, consistent motion.
- **Stable Pressure:** The air filler regulator ensures constant and safe pressure levels.
- **Clean Air:** The filter removes dirt and moisture, protecting actuator components.
- **Pressure Monitoring:** The pressure switch ensures safe pressure levels, preventing damage.
- **Increased Efficiency:** Combining these accessories reduces energy consumption and extends actuator lifespan



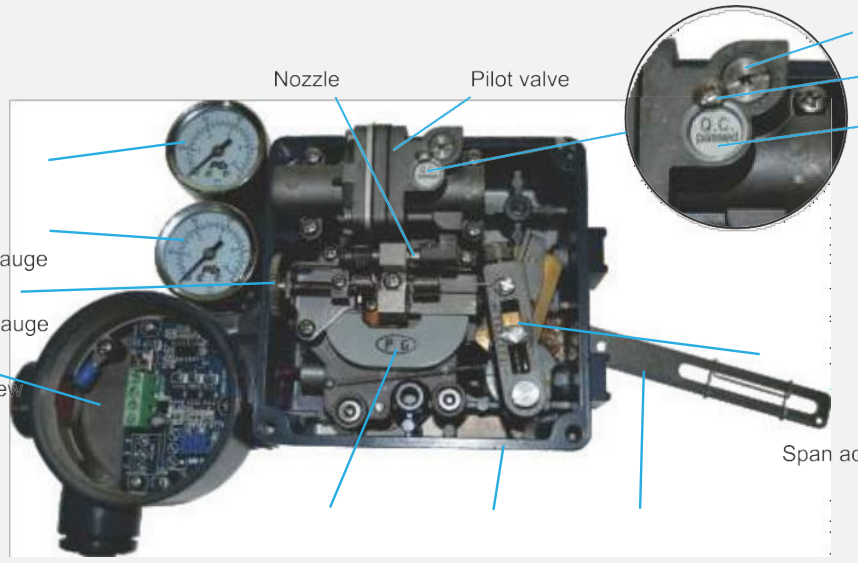
ACCESSORIES

Positioner:
Reliable performance and outstanding durability under harsh working environments through robust valve control devices

Various types of Positioner are:

- Electro Pneumatic Positioner (Linear / Rotary)
- Pneumatic- Pneumatic Positioner (Linear / Rotary) Smart Positioner

Internal View



Precise calibration with simple SPAN and ZERO adjustments

½ split range available

Vibration resistant design &Stainless steel gauges standard

Restricted pilot valve orifice kit for small actuators included

Certified for ATEX Eex md B T5 (05 ATEX 1076X) by NEMKO in conformance with EN 50014:1997, EN 50018:2000 & EN 50028:1987

Certified for EMC (K1046 / E04) in conformance with EN 61000-6-2:2001 and EN 61000-6-4:2001 by RWTUV

EN 61000-6-2:2001 & EN 61000-6-4:2001 by RWTUV

Certified for Ex md B T6 (99-1075-Q1), Ex md C T6

(2000-1057-Q1), and Ex ia B T6 (2000-1056-Q1) by KOSHA

Other Accessories:

Filter Regulator



Gauge Port Size ¼" ½" NPT
Air media
Filtration 5 micron
Gauge Port Size Rc 1/8
Housing material: Aluminum
Pressure Gauge will be in SS

Solenoid Valve

Our Next generation solenoid valves specifically engineered to pilot Pneumatic Process valve actuators, with improved design and added valuable features.



Non NAMUR Standard mounting
Weather Proof IP65
CE Certified
ATEX Ex Series
Intrinsically safe series

Electrical

Voltage ((+/-10%): 12 VDC & 24 V DC, 24VAC, 120V AC & 240VAC, 50/60 Hz (Other Voltages on request)
Response: 30ms (on) 40 ms(off)

OTHER PRODUCTS



Electrical Actuators



Pneumatic Actuators
(Rotary types)



Hydraulic Actuators
(Rotary & Linear types)

Global Presence



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