

Series PKD & PKS Pneumatic Actuators

For Use With All Sizes of Ball Valves
For Use With Butterfly Valves up to 8" Size



Model PKD shown above. Model PKS mounted to a valve is shown at right.

Features

- Proven Vane Design
- Manual Override
- Position Indicator
- Epoxy-Coated Housing
- High Torque Output
- Lightweight, Compact
- Permanent Lubrication
- Adjustable Travel Stops

Options

- Solenoid Valves
- Solenoid Voltages
- Positioners
- Position Transmitter
- Limit Switch
- Proximity Switch
- Cycle Speed Control

Rugged Design

Hayward PKD and PKS actuators feature a proven vane design for extremely reliable service with minimum maintenance. This design utilizes only one moving part, the vane assembly, to produce torque sufficient to operate all sizes of ball valves and butterfly valves up to 8". The actuator body is constructed from an aluminum alloy and is epoxy coated.

Two Modes of Operation

The Series PKD actuators are air to air (double acting) actuators. While the PKS Series are air to spring (fail safe) actuators. Air to air actuators require air pressure for both actuation cycles, open and closed. Air to Spring actuators utilize a mechanical spring return unit to operate one of the actuation cycles. This type of actuator can be set to have the spring, rather than air pressure, either open or close the valve.

Modular Mounting Options

PKD and PKS actuators feature a modular mounting system for the many different options that are available for these actuators – they are not built in. This allows you to select just the options you need for a specific application. You never have to pay for an “option package” with features you may not need. Modular mounting also means you can add options to the actuator in the field.

Manual Override Standard

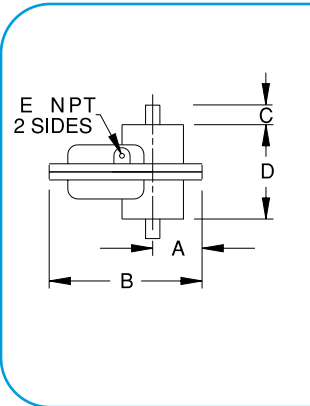
Both PKD and PKS actuators can be operated manually in the event of air or electric failure.

Technical Information

Actuator Specifications

Housing:	Epoxy coated zinc and titanium alloy	Maximum Air Pressure:	120 PSI
Output Shaft:	Stainless Steel or Plated Steel	Air Connections:	See Drawings Below
Minimum Air:	80 PSI	Cycle Time:	1/2 Second Typical— Depends on Solenoid

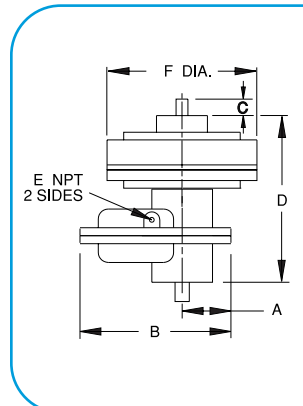
Series PKD - Air to Air/Double Acting



Model Number	A	B	C	D	E
PDK2	.95	3.00	.39	1.97	1/8"
PDK3	1.10	3.58	.47	2.36	1/8"
PDK5	1.30	4.40	.51	2.64	1/8"
PDK7	1.71	5.75	.79	3.94	1/4"

Model	Torque	Model	Torque
PKD2	82	PKD5	346
PKD3	173	PKD7	850

Series PKS - Air to Spring/Fail Safe



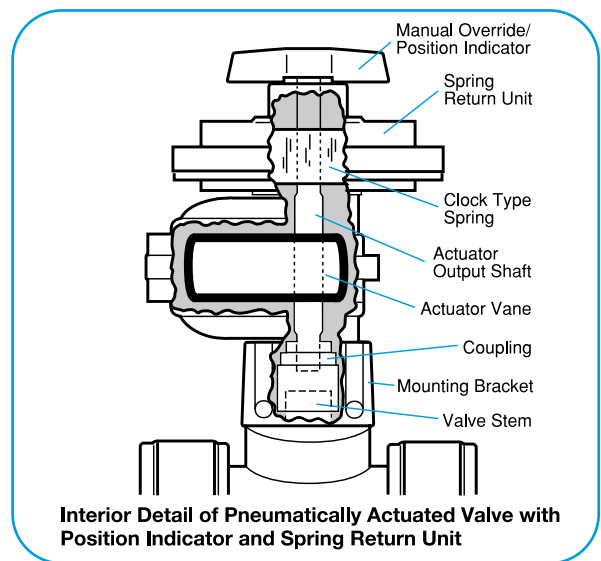
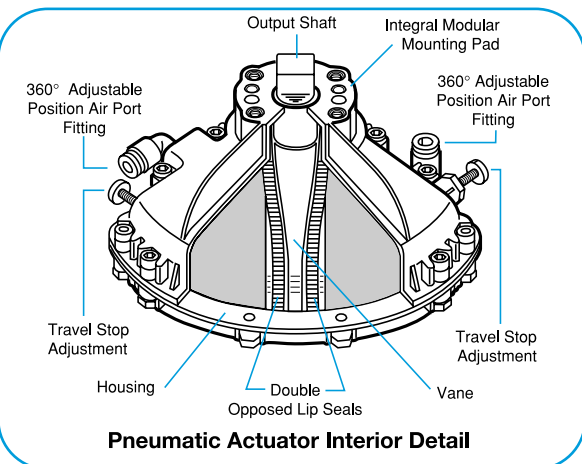
Model Number	A	B	C	D	E	F
PKS2	.95	3.00	.39	3.54	1/8"	2.87"
PKS3	1.10	3.58	.47	4.21	1/8"	4.25"
PKS5	1.30	4.40	.51	4.49	1/8"	4.25"
PKS7	1.10	5.75	.79	7.17	1/4"	6.00"
PKS9	1.71	7.32	1.02	8.58	1/4"	7.90"

Model	Torque	Model	Torque
PKS2	33	PKS7	375
PKS3	70	PKS9	830
PKS5	155		

Actuator Selection Chart for PKD Double Acting and PKS Spring Return Actuators

Valve Size	True Union Ball Valve*	Butterfly Valve*	Three Way Ball Valve*
1/4" to 1-1/4"	PKD3 or PKS3	N/A	PKD3 or PKS3
1-1/2" to 2"	PKD3 or PKS3	PKD5 or PKS5	PKD3 or PKS3
2-1/2"	PKD5 or PKS7	N/A	PKD5 or PKS7
3"	PKD5 or PKS7	PKD5 or PKS5	PKD5 or PKS7
4"	PKD5 or PKS7	PKD5 or PKS7	PKD5 or PKS7
6"	PKD5 or PKS7	PKD7 or PKS7	PKD7 or PKS7
8"	N/A	PKD7 or PKS9	N/A

* Actuator size selections based on clean water at 70°F.



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