



PCS Series Spring Return Pneumatic Actuators

FOR BALL AND BUTTERFLY VALVES UP TO 24"

KEY FEATURES

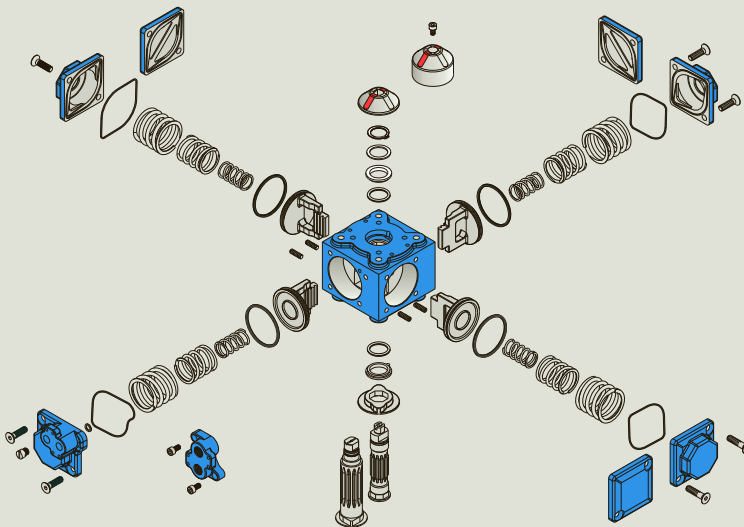
- For All Sizes of Ball and Butterfly Valves
- Four-Piston Rack and Pinion Design
- Manual Override
- Compact, Lightweight
- Position Indicator
- Namur-Style Solenoid Mounting (Inlet/Outlet)
- Adjustable Travel Stops
- ISO 5211 Mounting Base

OPTIONS

- Spring Return Fail-Safe Operation
- Solenoid Valves with Optional Voltage
- Positioners
- Auxiliary Limit Switches
- Cycle Speed Controls

TECHNICAL INFORMATION

EXPLODED VIEW



SPECIFICATIONS

HOUSING	Epoxy-Coated Aluminum
OUTPUT SHAFT	Plated Steel
MINIMUM AIR PRESSURE	80 PSI
MAXIMUM AIR PRESSURE	120 PSI
CYCLE TIME	Less Than One Second, Typical
AIR PORT CONNECTIONS	1/4" NPT

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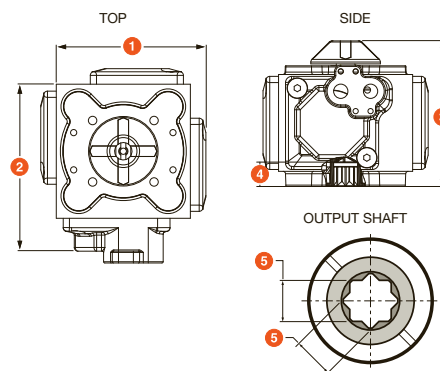
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TECHNICAL INFORMATION, CONTINUED

DIMENSIONS

MODEL	1 in/mm	2 in/mm	3 in/mm	4 in/mm	5 in/mm	ISO 5211 MOUNT	AIR CONSUMPTION cu. in.
PCS 15	4.31/109	4.31/109	3.50/89	.53/13	.35/9	F05 (1.97)	4.3
PCS 20	5.17/131	5.17/131	3.96/101	.59/15	.43/11	F05 (1.97)	7.3
PCS 25	6.34/161	6.34/161	4.61/117	.77/20	.55/14	F07 (2.76)	15
PCS 30	7.33/186	7.33/186	5.37/136	.87/22	.67/17	F07 (2.76)	27
PCS 35	8.74/222	8.74/222	6.10/155	1.02/26	.87/22	F10 (4.02)	45
PCS 45	10.59/269	10.59/269	7.64/194	1.30/33	1.06/27	F12 (4.92)	81
PCS 60	14.17/360	14.17/360	9.76/248	1.69/43	1.42/36	F14 (5.51)	195
PCS 75	17.20/437	17.20/437	11.81/300	1.69/43	1.42/36	F16 (6.50)	351

Dimensions are subject to change without notice – consult factory for installation information



ACTUATOR SPECIFICATIONS

MODEL	PCS15	PCS20	PCS25	PCS30	PCS35	PCS45	PCS60	PCS75
Torque Output (in-lbs) @ 80 PSI	61	109	217	345	607	1,218	2,857	5,166
Enclosure Material	Epoxy-Coated Aluminum							
Output Shaft	Plated Steel							
Air Port Connections	1/4" NPT							
Air Consumption (cu. in.)	3	9.2	13	25	41	81	195	351
Air Transfer	Internal							
Stroke Time (seconds)	.5	.4	.7	.8	.8	1.5	1.5	1.5
Cycle Time	Under 1 Second Typical-Depends on Solenoid							
Minimum Air Pressure	80 PSI							
Maximum Air Pressure	120 PSI							
Operation	Rack and Pinion							
Weight (lbs/kg)	1.8/.8	4/1.9	5.7/2.6	9.2/4.2	17.4/7.9	27.5/12.5	27.5/12.5	27.5/12.5

VALVE SELECTION CHART

SIZE* in/DN	TRUE UNION BALL VALVE	THREE-WAY BALL VALVE	BUTTERFLY VALVE
1/4 – 1/8 – 25	PCS15	PCS15	N/A
1-1/4 – 2/32 – 50	PCS20	PCS20	PCS25
2-1/2/65	PCS25	PCS25	N/A
3/80	PCS25	PCS25	PCS25
4/100	PCS25	PCS30	PCS30
6/150	PCS25	PCS30	PCS35
8/200	N/A	N/A	PCS45
10 – 12/250 – 300	N/A	N/A	PCS60
14 – 16/350 – 400	N/A	N/A	POA
18, 20 and 24/450, 500 and 600	N/A	N/A	POA

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



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