



PCD Series Double Acting Pneumatic Actuators

FOR BALL AND BUTTERFLY
VALVES UP TO 18"

KEY FEATURES

- Double Acting Air-to-Open and Close
- 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
- ISO5211 Mounting Base

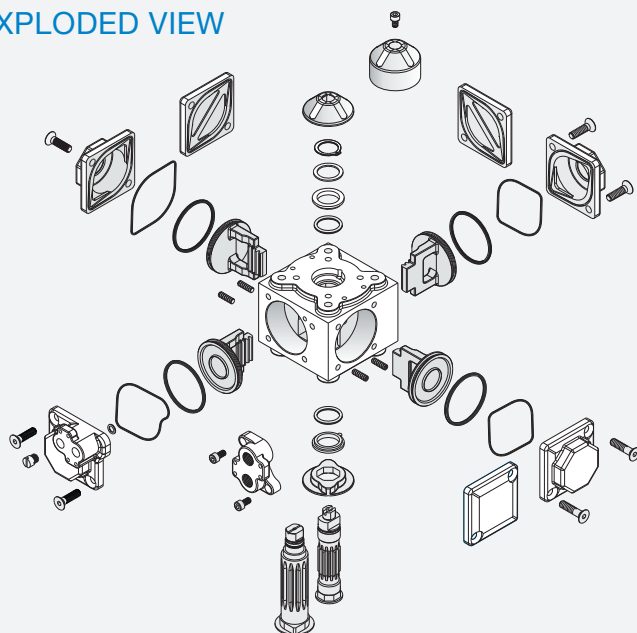
OPTIONS

- Solenoid Valves with Optional Voltages
- Declutchable Manual Override
- Positioners
- Auxiliary Limit Switch
- Cycle Speed Control



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

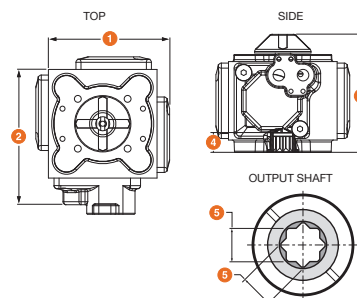
PCD Series Double Acting Pneumatic Actuators

FOR BALL AND BUTTERFLY VALVES UP TO 18"

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.
PCD 15	3.39 / 86	3.85 / 98	3.50 / 89	.53 / 13	.35 / 9	F05 (1.97)	5.5
PCD 20	4.03 / 102	4.60 / 117	3.96 / 101	.59 / 15	.43 / 11	F05 (1.97)	9.2
PCD 25	5.24 / 133	5.79 / 147	4.61 / 117	.77 / 20	.55 / 14	F07 (2.76)	20
PCD 35	7.15 / 182	7.94 / 202	6.10 / 155	1.02 / 26	.87 / 22	F10 (4.02)	49
PCD 45	8.70 / 220	9.65 / 245	7.24 / 184	1.30 / 33	1.06 / 27	F12 (4.92)	81
PCD 60	11.22 / 285	N/A	9.76 / 248	1.69 / 43	1.42 / 36	F14 (5.51)	195
PCD 75	13.46 / 342	N/A	11.81 / 300	1.69 / 43	1.42 / 36	F14 (5.51)	351



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

ACTUATOR SPECIFICATIONS

MODEL	PCD15	PCD20	PCD25	PCD35	PCD45	PCD60	PCD75
Torque Output (in-lbs) @ 80 PSI	172	311	639	1,848	3,622	8,585	15,856
Enclosure Material	Epoxy-Coated Aluminum						
Output Shaft	Plated Steel						
Air Port Connections	1/4" NPT						
Air Consumption (cu. in.)	5.5	9.2	20	49	81	195	351
Air Transfer	Internal						
Stroke Time (seconds)	0.2	0.4	0.7	1.0	1.5	2.5	4.0
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)	2.1 / 0.9	3.3 / 1.5	6.2 / 2.8	16 / 7.1	24 / 11	57 / 26	112 / 51

VALVE SELECTION CHART

SIZE* in / DN	TB / TBH / CV / CVH SERIES BALL VALVES	TW/LA SERIES BALL VALVES	BYV/BYB SERIES BUTTERFLY VALVES
1/2 - 1-1/2 / 15 - 40	PCD15	PCD15	N/A
2 / 50	PCD15	PCD15	PCD20
2-1/2 / 65	PCD20	PCD20	PCD20
3 / 80	PCD20	PCD20	PCD20
4 / 100	PCD20	PCD20	PCD25
6 / 150	PCD20	PCD20	PCD25
8 / 200	N/A	N/A	PCD35
10 - 12 / 250 - 300	N/A	N/A	PCD45
14 / 350	N/A	N/A	PCD60
16 - 18 / 400 - 450	N/A	N/A	PCD75

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



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PCS Series Spring Return Pneumatic Actuators

FOR BALL AND BUTTERFLY
VALVES UP TO 8"

KEY FEATURES

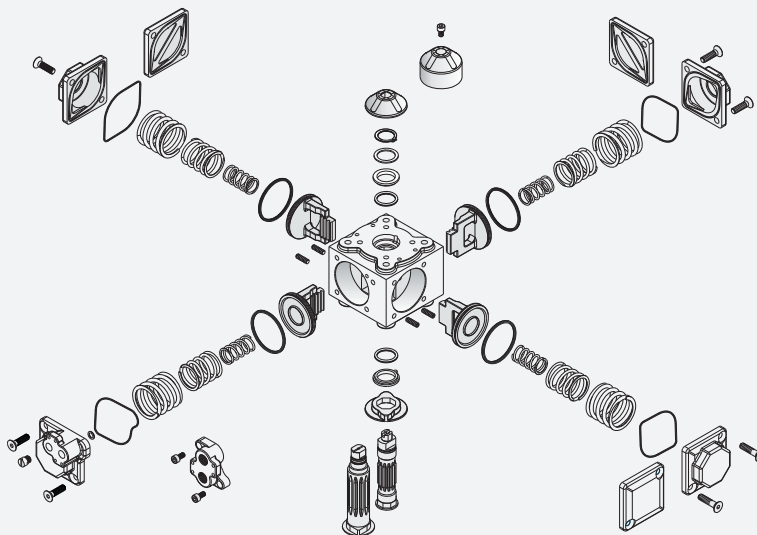
- Spring Return Fail-Safe Operation
- For All Sizes of Ball and Butterfly Valves
- Four-Piston Rack and Pinion Design
- Manual Override
- Compact, Lightweight
- Position Indicator
- Namur-Style Solenoid Mounting (Inlet/Outlet)
- Adjustable Travel Stops
- ISO5211 Mounting Base

OPTIONS

- Solenoid Valves with Optional Voltages
- Declutchable Manual Override
- Positioners
- Auxiliary Limit Switch
- Cycle Speed Control

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

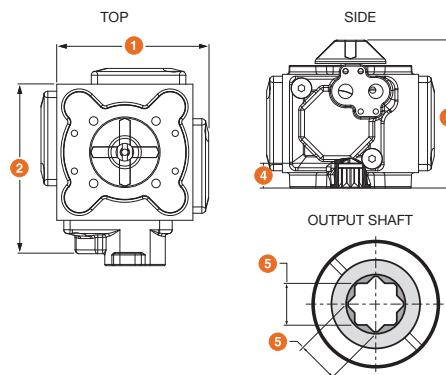
PCS Series Spring Return Pneumatic Actuators

FOR BALL AND BUTTERFLY VALVES UP TO 8"

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)	5.5
PCS 20	5.17 / 131	5.17 / 131	3.96 / 101	.59 / 15	.43 / 11	F05 (1.97)	9.2
PCS 25	6.34 / 161	6.34 / 161	4.61 / 117	.77 / 20	.55 / 14	F07 (2.76)	20
PCS 30	7.33 / 186	7.33 / 186	5.37 / 136	.87 / 22	.67 / 17	F07 (2.76)	33
PCS 35	8.74 / 222	8.74 / 222	6.10 / 155	1.02 / 26	.87 / 22	F10 (4.02)	49
PCS 45	10.59 / 269	10.59 / 269	7.24 / 184	1.30 / 33	1.06 / 27	F12 (4.92)	81



Dimensions are subject to change without notice – consult factory for installation information.
Standard is spring CW (Fail Closed). Add "FO" suffix to model number for spring CCW (Fail Open).

ACTUATOR SPECIFICATIONS

MODEL	PCS15	PCS20	PCS25	PCS30	PCS35	PCS45
Torque Output (in-lbs) @ 80 PSI	61	109	217	345	607	1,218
Enclosure Material	Epoxy-Coated Aluminum					
Output Shaft	Plated Steel					
Air Port Connections	1/4" NPT					
Air Consumption (cu. in.)	5.5	9.2	20	33	49	81
Air Transfer	Internal					
Stroke Time (seconds)	0.2	0.4	0.7	0.8	1.0	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)	2 / 1.1	4 / 1.9	8 / 3.5	11 / 5.0	20 / 9.0	33 / 15

VALVE SELECTION CHART

SIZE* in / DN	TB / TBH / CV / CVH SERIES BALL VALVES	TW/LA SERIES BALL VALVES	BYV SERIES BUTTERFLY VALVES
1/2 - 1 / 15 - 25	PCS15	PCS15	N/A
1-1/4 - 1-1/2 / 32 - 40	PCS15 / PCS20	PCS20	N/A
2 / 50	PCS20	PCS20	PCS25
2-1/2 / 65	PCS25	PCS25	PCS25
3 / 80	PCS25	PCS25 / PCS30	PCS25
4 / 100	PCS25	PCS30	PCS30
6 / 150	PCS25	PCS30	PCS35
8 / 200	N/A	N/A	PCS45

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



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