



PCD Series Double Acting Pneumatic Actuators

FOR BALL AND BUTTERFLY
VALVES UP TO 18"

KEY FEATURES

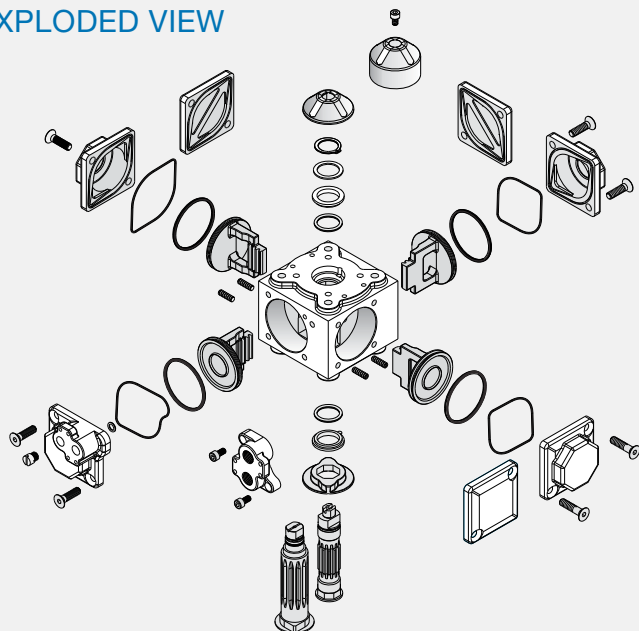
- Double Acting Air-to-Open and Close
- For All Sizes of Ball and Butterfly Valves
- Four-Piston Rack and Pinion Design
- Manual Override
- Compact, Lightweight
- Position Indicator
- Namur-Style Solenoid Mounting (Inlet/Outlet)
- Adjustable Travel Stops
- ISO 5211 Mounting Base

OPTIONS

- Solenoid Valves with Optional Voltages
- 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

Brisbane, Australia
www.monarchindustrial.com.au
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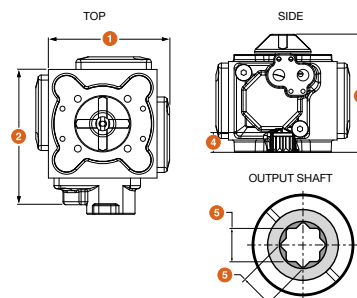


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TECHNICAL INFORMATION, *CONTINUED*

DIMENSIONS

MODEL	1 in / mm	2 in / mm	3 in / mm	4 in / mm	5 in / mm	ISO 5211 MOUNT	AIR CONSUMPTION cu. in.
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

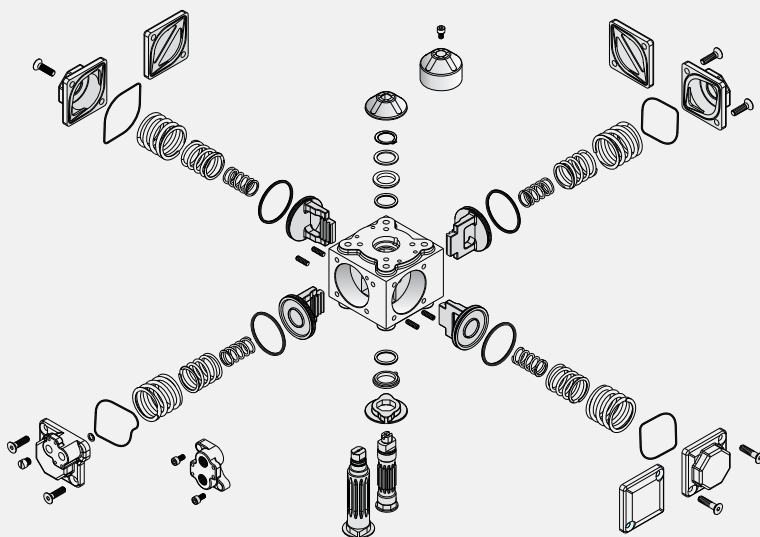
- Spring Return Fail-Safe Operation
- For All Sizes of Ball and Butterfly Valves
- Four-Piston Rack and Pinion Design
- Manual Override
- Compact, Lightweight
- Position Indicator
- Namur-Style Solenoid Mounting (Inlet/Outlet)
- Adjustable Travel Stops
- ISO 5211 Mounting Base

OPTIONS

- Solenoid Valves with Optional Voltages
- 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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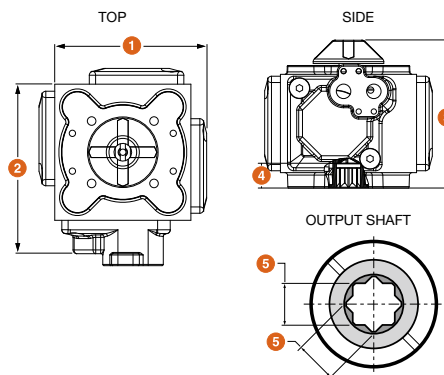
MONARCH
INDUSTRIAL PRODUCTS

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



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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