



PCD Series Double Acting Pneumatic Actuators

FOR BALL AND BUTTERFLY VALVES UP TO 24"

KEY FEATURES

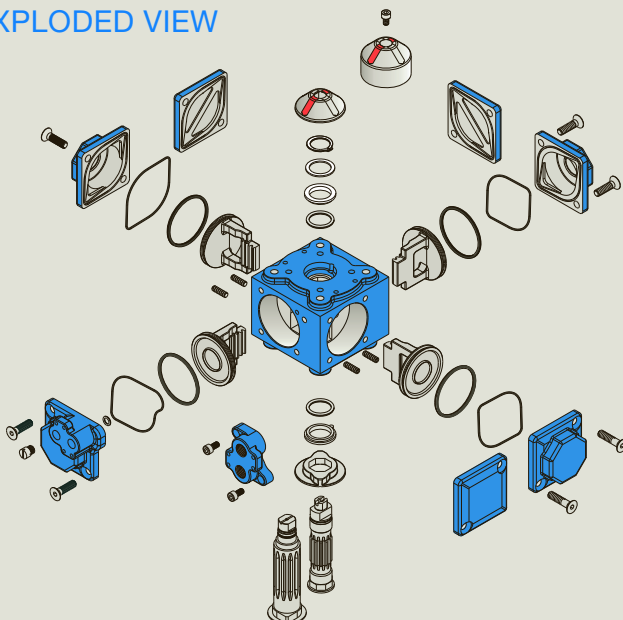
- For All Sizes of Ball and Butterfly Valves
- Four-Piston Rack and Pinion Design
- Manual Override
- Compact, Lightweight
- Position Indicator
- Namur-Style Solenoid Mounting (Inlet/Outlet)
- Adjustable Travel Stops
- ISO 5211 Mounting Base

OPTIONS

- Double Acting Air-to-Open and Close
- 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

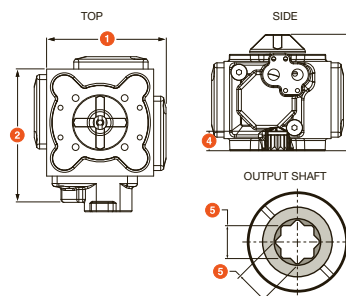
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TECHNICAL INFORMATION, CONTINUED

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 30	5.94/150	6.64/169	5.37/136	.87/22	.67/17	F07 (2.76)	33
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	N/A	7.64/194	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	F16 (6.50)	351



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

ACTUATOR SPECIFICATIONS

MODEL	PCD15	PCD20	PCD25	PCD30	PCD35	PCD45	PCD60	PCD75
Torque Output (in-lbs) @ 80 PSI	172	311	639	1,052	1,848	3,622	2,857	5,166
Enclosure Material	Epoxy-Coated Aluminum							
Output Shaft	Plated Steel							
Air Port Connections	1/4" NPT							
Air Consumption (cu. in.)	3	6	13	25	49	81	195	351
Air Transfer	Internal							
Stroke Time (seconds)	.5	.5	.7	.8	.5	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)	1.5/.7	2/.9	4.3/2	6.8/3.1	16/7.3	22/10	57/26	112/51

VALVE SELECTION CHART

SIZE* in/DN	TRUE UNION BALL VALVE	THREE-WAY BALL VALVE	BUTTERFLY VALVE
1/4 – 1-1/4/8 – 32	PCD15	PCD15	N/A
1-1/2 – 2/40 – 50	PCD15	PCD15	PCD20
2-1/2/65	PCD20	PCD20	N/A
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 – 16/350 – 400	N/A	N/A	PCD60
18, 20 and 24/450, 500 and 600	N/A	N/A	PCD75

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



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Contact Hayward Flow Control with questions: **USA:** 1-888-429-4635 • Fax: 1-888-778-8410 • One Hayward Industrial Drive • Clemmons, NC 27012 USA
Canada: 1.888.238.7665 • Fax: 1.905.829.3636 • 2880 Plymouth Drive • Oakville, ON L6H 5R4 Canada • Email: hflowcanada@haywardnet.com
Visit us at: www.haywardflowcontrol.com • E-mail: hflow@haywardnet.com