

1-Pc. and 3-Pc. Polypropylene Bolted Ball Valves

Fiberglass-reinforced bolted valves for heavy-duty industrial applications. PTFE seats allow free movement of self-aligning, diamond-tuned polypropylene ball for precise alignment. Self-lubricating PTFE stem, bushings, and ball seats won't stick or bind. With FKM seals. FNPT connections. For use in fluid-handling applications with fertilizer, herbicides, and insecticides, as well as with industrial acids, solvents, liquid waste, wastewater, and cooling water.

■ Max. temp.: 150°F 3-pc. valve structure

3-WAY

■ Max. pressure: 100 psi ■ Temp. range: -20° to 150°F

■ 1-pc. valve structure

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Full-port, right or left directional flow
valves. Bottom-load valves can be turned
off to stop flow. Side-load valves cannot
be turned off.

		2-Way	-Way 3-Way Bottom Load			3-Way Side Load		
Pipe Size	Port	Max. Pressure	Item No.	Max. Pressure	Item No.	Max. Pressure	Item No.	
½ in	Full	150 psi CWP		- 1033410		- 11033410		
3/4 in	Full	_	_	150 psi CWP	3DTF3	100 psi CWP	3DTF8	
3/4 in	Full	150 psi CWP	1MKK2		_	<u> </u>	_	
1 in	Full	150 psi CWP	1MKK3	150 psi CWP	3DTF4	100 psi CWP	3DTF9	
11/4 in	Full	150 psi CWP	1MKK4	150 psi CWP	3DTF5	100 psi CWP	3DTG1	
1½ in	Full		_	150 psi CWP	3DTF6	100 psi CWP	3DTG2	
1½ in	Standard	150 psi CWP	1MKK5		_	<u> </u>	_	
2 in	Full	150 psi CWP	1MKK7	100 psi CWP	3DTF7	100 psi CWP	3DTG3	
2 in	Full	150 psi CWP	1MKK6		_	<u> </u>	_	
3 in	Full	100 psi CWP	1MKK8	_	_	_	_	
4 in	Standard	75 psi CWP	1MKK9	_	_	_	_	





Actuated Ball Valves



Valve temp. range: -20° to 400°F

Pipe

½ in ¾ in 1 in

1 ½ in

1/4 in 1/2 in

3∕4 in

3/4 in

1 in 1 ¼ in 1 ½ in

3/4 in 1 in

1 ¼ in 1 ½ in

316 Stainless Steel, Full Por

Brass, Standard L Port, 1-Pie

Compact, direct-mount valves provide accurate alignment. Anticorrosive coating. RTFE seats. 3-way models are ideal for diverter-type applications; 3-pc. models permit easy in-line maintenance. All valves have NEMA 4X enclosures.

Max

1000 psi CWP

400 psi CWP

600 psi CWP 2 in 31Fno Forged Brass, Full Port, 2-Piece, Inline, FNPT 6CX04

600 nsi CWP

600 psi CWP

1000 psi CWP

Lead Free Brass, Full Port, 2

Stainless Steel, Full Port, 3-Pi

Bronze, Full Port, 3-Piece, Inline, FNP1
1/2 in 3TPH3

PNEUMATIC

46761

46Z618

46Z619

46Z621

1AWJ6

1AWR2 1AWR3 1AWR4 1AWR5

IAWR 1AWR7 1AWR8 1AWR9

Double Acting Item

2-Piece, Inline,

Νn

4TL07 4TL08

4YM64 4YM65

1AWK2

1AWK5 1AWK6

3TPH4

6CX05 6CX06 6CX07 6CX08

ece, Inli

46Z613

46Z614 46Z615 46Z616

1AWP3 1AWP4 1AWP5

IAWPE

Stainless Steel, Standard L Port, 1-Piece, Three-Way, FNP

ce, Inline, FNPT 1AWP1 1AWP2

- Actuator inlet pressure: 80 psi or greater
- Actuator temp. range: -4° to 176°F Excellent for continuous rapid cycling or hazardous conditions. Hard anodized aluminum housing. Integral 120VAC, 60 Hz, NAMUR-mount solenoid with three 1/4" NPT ports.

ELECTRONIC

Actuator temp. range: -15° to 140°F Feature reversible motors, terminal strip, manual override, and a hardened precision gear train. 1/2" to 2" can be wired in parallel. 50% duty cycle. 3" have 2 extra SPDT limit switches, 30% duty cycle. General cycle times: 21/2 sec. for 1/2" to 1"; 61/2 to 15 sec. for 2"; 15 to 22 sec. for 3". The 12-24VAC/VDC models do not have a manual override.

SOLENOID AIR CONTROL VALVES

Standard NAMUR direct-mounted pilot solenoids can provide electronic control of the inlet air. Solenoids efficiently pressurize and exhaust the pneumatic actuator piston compartments allowing the actuator to cycle.



46Z612

Pneum	atic Actuated Ba	II Valve	manu	al override.		
		Spring Return			Electronic Act	tuated Ball Valve
Acting	Spring Return Item No.	- Fail Close Item No.	Pipe Size	Max. Pressure	120V AC Item No.	12-24V AC/V DC Item No.
e, Inline,			316 Stainless Ster			
,	4TL09	_	½ in	,, , , u , o.t., <u> </u>	4TL01	1AWF7
6	4TL10	_	½ in		4TL02	1AWF8
7	4TL11	_	3/4 in		4TL03	1AWF9
8	4TL12		1 in	1000 psi CWP	4TL04	1AWG1
64	4YM66	_	1 ½ in		4YM62	1AWG2
35	4YM67	_	2 in		4YM63	
e-Way, F	NPT		3 in		1AWF6	
	_	1AWK9	316 Stainless Stee	el, Full Port, 3-Pie	ce, 2-Way, FNP	T x FNPT
	_	1AWL1	1/4 in	,	1AWH2	_
(2		1AWL2	½ in		1AWH4	_
		1AWL3	3/4 in		1AWH5	_
		1AWL4	1 in	1000 psi CWP	1AWH6	_
(5		1AWL5	1 1/4 in	1000 psi 6441	1AWH7	_
(6			1 ½ in		1AWC1	_
T			2 in		1AWC2	_
13		3TPJ2	3 in		1AWC3	_
4	3TPJ3		Brass, Full Port, 2	?-Piece, 2-Way, FN		
15	3TPJ4		1/2 in		6CX16	1AWD4
	3TPJ6		3/4 in		6CX17	1AWD5
18	3TPJ7		1 in		6CX18	1AWD6
e, FNPT			1 1/4 in	600 psi CWP	6CX19	1AWD7
4	6CX10		1 ½ in		6CX20	1AWD8
5	6CX11		2 in		6CX21	1AWD9
6		6CX12	3 in		1AWD3	
17	6CX13		Brass, Standard L	Port, 2-Piece, 3-V	Vay, FNPT x FNI	
8	6CX14		1/4 in			1AWE8

1 74 111	OUU PSI GWF	UUAIS	IAWDI
1 ½ in		6CX20	1AWD8
2 in		6CX21	1AWD9
3 in		1AWD3	
Brass, Standard L	Port, 2-Piece, 3-W	lay, FNPT x FNP	
1/4 in		_	1AWE8
3% in		_	1AWE9
1/2 in		1AWE3	1AWF1
3/4 in		1AWE4	1AWF2
1 in	400 psi CWP	1AWE5	1AWF3
1 1/4 in		1AWE6	1AWF4
1 ½ in		1AWE7	1AWF5
2 in		1AWB8	_
3 in		1AWB9	_
Bronze, Full Port,	3-Piece, 2-Way, F		
1/2 in		3TPF5	_
3/4 in		3TPF6	
1 in	600 psi CWP	3TPF7	_
1 1/4 in	000 pai 0 vvi	3TPF8	_
1 ½ in		3TPF9	
2 in		3TPG1	
	Full Port, 2-Piece,		
1/2 in		46Z622	46Z627
3/4 in		46Z623	46Z628
1 in	600 psi CWP	46Z624	46Z629

(a) 1797
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411.04



44F209

1/2 in	—— 1000 ps	i CMD	1AWL		_		1AWN5
3/4 in			1AWN		_		1AWN6
1 in	—— 125 psi	Steam	1AWN:		_		1AWN7
1 ½ in		Steam,	1AWN:		_		_
2 in	800 ps	i CWP	1AWN	4	_		1AWN9
Pilot Port Size	Operational Pressure Range	Amb	ient Range		alve or / Return	Voltac	Item ie No.
			Hange	Autuati	JI / IIGIUIII	VUILAL	ic ivo.
	Air Control Va		italigo	Autuati	oi / Iteluili		
Solenoid I		lve			id / Spring		C 46Z648
Solenoid A 1/4 in NPT	Air Control Va	14° to	122°F	Soleno	,	12V D	

Item	Includes	No.
Valve Position Limit Switch K		
Limit Switch Kit	Mounting Hardware, Valve Position Limit Switch	44F209
Solenoid Pilot Valve, 115VAC		44F197
Solenoid Pilot Valve, 24VAC	Replacement Pilot Soleniod, Screws (4)	44F207

46Z630 46Z631

600 psi CWP

1/4 in