

MANUAL AND AUTOMATED PLASTIC VALVES

Ball and Diaphragm Versions

FVL5305
\$37



OMEGA offers a wide selection of plastic valves suitable for liquid service (not for use in compressed air service).

SPECIFICATIONS

Fluid Temperature/Pressure Range:

NOTE: All pressure/temperature ratings listed are for water under non-shock conditions with no pressure cycling. Various chemicals and cycling pressures up and down can weaken plastics.

Valves must be installed so that the valve does not carry the weight of the piping and does not suffer from thermal expansion stresses. Waterhammer, fluid surges, and cavitation must always be avoided. FNPT-threaded end fittings (option "N") decrease all pressure ratings listed by half.

SERIES FVL5800 ACTUATED VALVE

PVC: -1 to 48°C (30 to 120°F)
up to 100 psig

CPVC: -1 to 60°C (30 to 140°F)
up to 100 psig

MANUAL BALL VALVES

PVC: From 0 to 21°C (32 to 70°F), up to 150 psig; from 21 to 48°C (70 to 120°F), rating falls linearly from 150 to 45 psig

CPVC: 0 to 21°C (32 to 70°F), up to 82°C (70 to 180°F), rating falls linearly from 150 to 15 psig

Polypro: From 0 to 21°C (32 to 70°F), up to 150 psig; from 21 to 79°C (70 to 175°F), rating falls linearly from 150 to 40 psig

PVDF: From 0 to 40°C (32 to 104°F), up to 150 psig; from 40 to 98°C (104 to 210°F), rating falls linearly from 150 to 65 psig

DIAPHRAGM VALVES

PVC: From 0 to 21°C (32 to 70°F), up to 150 psig; from 21 to 60°C (70 to 140°F), rating falls linearly from 150 to 15 psig

BALL CHECK VALVES

PVC: From 0 to 21°C (32 to 70°F), up to 150 psig; from 21 to 48°C (70 to 120°F), rating falls linearly from 150 to 45 psig

True Union Cartridge Ball Valves

MOST POPULAR MODELS HIGHLIGHTED!

To Order Models with Socket End (Specify Model Number)

Model No. PVC	Price	Model No. CPVC	Price	Model No. Polypro	Price	Model No. PVDF	Price	Pipe Size	C _v
FVL5305	\$37	FVL5305-C	\$53	FVL5105-PO	\$45	FVL5105	\$121	½"	11.9
FVL5307	45	FVL5307-C	67	FVL5107-PO	57	FVL5107	161	¾"	24.5
FVL5310	52	FVL5310-C	67	FVL5110-PO	67	FVL5110	234	1"	46.8
FVL5312	69	FVL5312-C	114	FVL5112-PO	97	FVL5112	275	1¼"	70
FVL5315	86	FVL5315-C	136	FVL5115-PO	112	FVL5115	404	1½"	112
FVL5320	114	FVL5320-C	187	FVL5120-PO	153	FVL5120	546	2"	185
FVL5325	252	FVL5325-C	518	FVL5125-PO	310	FVL5125	1004	2½"	320
FVL5330	259	FVL5330-C	533	FVL5130-PO	404	FVL5130	1378	3"	430
FVL5340	457	FVL5340-C	916	FVL5140-PO	672	FVL5140	3095	4"	720

For FNPT-threaded versions, add suffix "-N" to model number, no additional charge.

Ordering Example: FVL5310-CN, CPVC ball valve, 1 FNPT connection, \$52.

LOW-COST ON/OFF ACTUATED BALL VALVE

Unidirectional one-quarter-turn motor uses up to 2.2 A of 115 Vac single-phase power, 25% duty cycle, 5 second cycle tie. Motor housing (5 H x 3¼ L x 3" W with ½ FNPT electrical port) is high-impact ABS plastic with NEMA 4 (IP65) rating. Valves and actuators are integrally mounted and cannot be separated for replacement or repair. In clean water service, the valves are rated for 250,000 on/off cycles. Ball seat is PTFE backed with EPDM; seals are EPDM. An optional limit switch permits feedback of valve position to confirm proper open/close valve position.

Low-Cost Actuated Ball Valve

To Order (Specify Model Number)

Model No. PVC Socket	Price	Model No. CPVC Socket	Price	Pipe Size	C _v	Weight kg (lb)	Dimension H mm (in)
FVL5803	\$269	FVL5803-C	\$275	¾"	10	0.8 (1.75)	140 (5.50)
FVL5805	269	FVL5805-C	275	½"	12	0.8 (1.75)	140 (5.50)
FVL5807	276	FVL5807-C	285	¾"	30	0.9 (2)	150 (5.90)
FVL5810	282	FVL5810-C	297	1"	47	1.1 (2.5)	159 (6.25)
FVL5812	292	FVL5812-C	315	1¼"	80	1.4 (3)	165 (6.50)
FVL5815	300	FVL5815-C	322	1½"	140	1.4 (3)	165 (6.50)
FVL5820	313	FVL5820-C	350	2"	185	1.8 (4)	178 (7.00)

Comes with complete operator's manual.

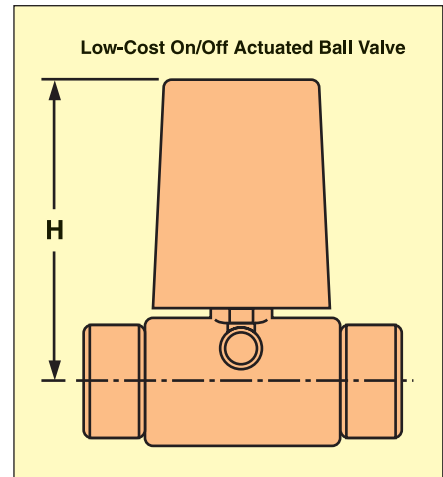
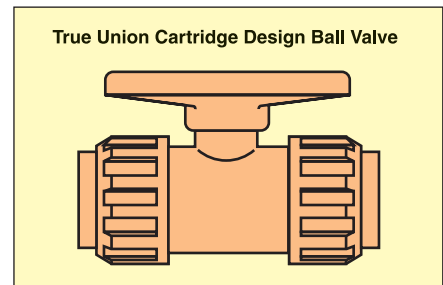
For FNPT-threaded versions, add suffix "-N" to model number, no additional charge.

For 220 Vac (up to 1.25 A) operation, add suffix "-220VAC" to model number and add \$86 to price. For signaling limit switch, add suffix "-LS" to model number and add \$74 to price.

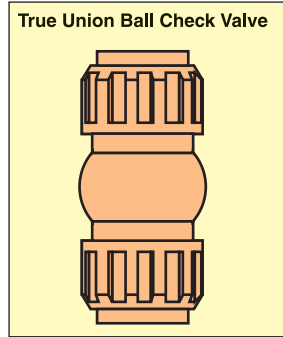
Ordering Example: FVL5810-CN-220VAC-LS CPVC motor actuated on/off ball valve, 1 FNPT connected, powered by 220 Vac, with signaling limit switch, \$282 + 86 + 74 = \$356.

TRUE UNION CARTRIDGE DESIGN BALL VALVES

Cartridge design allows valve body to be easily removed from the line for simple maintenance. The valve can be turned off and then disconnected on the downstream side while the upstream side is still pressurized. PVC and CPVC have seats of PTFE backed with EPDM, and EPDM O-rings. Polypro and PVDF have seats of PTFE backed with Viton®, and Viton® O-rings.



Restricts flow to one direction only. Commonly used on the inlet side of non-self-priming pumps (such as centrifugal and diaphragm metering pumps) to keep liquid in the pump drive section. These check valves are not spring assisted; they operate by gravity only and must be vertically mounted. PVC and CPVC versions have seats and seals of EPDM.



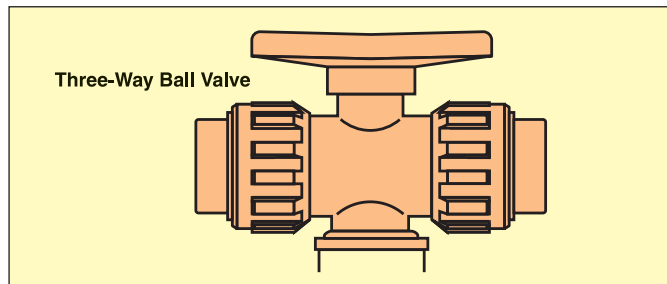
True Union Ball Check Valves

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)				
Model No. PVC	Price	Model No. CPVC	Price	Pipe Size
FVL5405-CK	\$44	FVL5405-CKC	\$63	½"
FVL5407-CK	49	FVL5407-CKC	77	¾"
FVL5410-CK	63	FVL5410-CKC	91	1"
FVL5415-CK	101	FVL5415-CKC	159	1½"
FVL5420-CK	142	FVL5420-CKC	214	2"

Comes with complete operator's manual.

Ordering Example: FVL5415-CK, PVC ball check valve, 1½" pipe size, \$101.



Both outlets have union connections; inlet has no union connection. All ports are socket ends. PVC and CPVC have seats of PTFE backed with EPDM and EPDM O-rings.

Three-Way Ball Valves

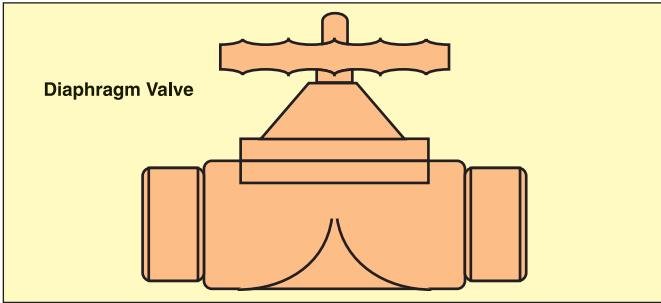
To Order (Specify Model Number)					
Model No. PVC	Price	Model No. CPVC	C _v	Price	Pipe Size
FVL5305-3	\$50	FVL5305-3C	5.3	\$91	½"
FVL5307-3	75	FVL5307-3C	10.2	104	¾"
FVL5310-3	70	FVL5310-3C	18.2	146	1"
FVL5315-3	129	FVL5315-3C	30.5	251	1½"
FVL5320-3	176	FVL5320-3C	46.6	439	2"
—	—	FVL5330-3C	90.5	787	3"

Comes with complete operator's manual.

For FNPT-threaded versions, add suffix "-N" to model number, no additional charge.

Ordering Example: FVL5310-3CN, CPVC 3-way ball valve, all 3 ports 1 FNPT connected, \$146.

Caution:
These plastic valves are manufactured to the highest-quality specifications. However, because of their economical construction, they should be used only for applications in which, in the event of product failure, risk of damage to equipment or personnel is minimal. The user should periodically inspect the product's performance in the actual application. Use of the products beyond the recommended capabilities and life span is not recommended.



Diaphragm valves feature an abrasion-resistant and non-clogging design, with no small flow passages. They are good for many slurries and ultra-pure applications. The valve closes bubble-tight, and has a top-entry design for simple in-line maintenance. Suitable for on/off and throttling applications. Position indicator is included as standard. PVC valve body available with choice of EPDM or PTFE diaphragm.

Diaphragm Valves

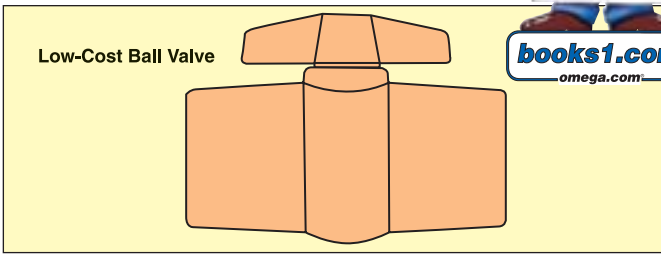
To Order (Specify Model Number)						
Model No. PVC/EPDM Diaphragm Socket	Price	C _v	Model No. PVC/PTFE Diaphragm Socket	Price	C _v	Pipe Size
FVL7805	\$125	8.0	FVL7805-T	\$206	8.0	½"
FVL7807	139	11.1	FVL7807-T	215	11.1	¾"
FVL7810	178	17.5	FVL7810-T	287	17.5	1"
FVL7815	268	31.0	FVL7815-T	422	31.0	1½"
FVL7820	320	75.4	FVL7820-T	520	75.4	2"

Comes with complete operator's manual.

For FNPT-threaded versions, add suffix "-N" to model number, no additional charge.

Ordering Example: FVL7810-TN, PVC diaphragm valve with PTFE diaphragm, 1 FNPT connected, \$287.

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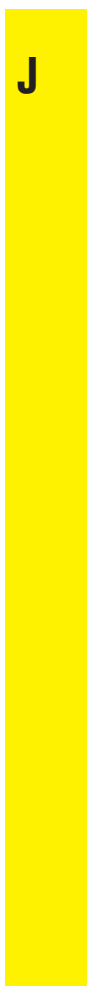
CPVC body with socket connection. CPVC valves have seats of PTFE backed with EPDM, and EPDM O-rings. CPVC ball and water-compatible O-ring stem seal.

Low-Cost Ball Valves

To Order (Specify Model Number)			
Model No. CPVC	Price	C _v	Pipe Size
FVL5305-CLC	\$27	12.95	½"
FVL5307-CLC	51	24.5	¾"
FVL5310-CLC	50	47	1"
FVL5312-CLC	96	70	1¼"
FVL5315-CLC	96	112	1½"
FVL5320-CLC	127	185	2"

Comes with complete operator's manual.

Ordering Example: FVL5312-CLC, CPVC ball valve, 70 C_v, 1¼" pipe size, \$96.





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