

Lab Specialty Product
Lab Ball Valves & Needle Valves



Lab Ball Valves



Socket/Threaded Valve Only

Pressure Rating @ 73°F (23°C),
 Water
 1/8" - 3/8" 150 psi
Maximum Service Temperature
 PVC = 140°F (60°C)
 CPVC = 200°F (93°C)
 Temperature/Pressure De-ratings
 Apply
 Rated for Vacuum Service



Valve & Adapters

- Valve & Adapters includes:**
- 1 - Threaded 1/4" Valve
 - 2 - O-ring Sealed 1/4" MPT x Mipt Adapters
 - 2 - EPDM or FKM O-rings (AS568-013 size)
 - 1 - End Connector Wrench
 - 2 - O-ring Sealed 1/4" MPT x 3/8" I.D. Tubing Barb Adapters - OR -
 - 2 - O-ring Sealed 1/4" MPT x 1/4" I.D. Tubing Barb Adapters

All Valves Assembled with Silicone-Free, Water Soluble Lubricant

Lab Valve - PVC

Size	EPDM	FKM	Std Pk	Mstr Pk	Prod Code
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Valve & Adapters Threaded Ends

1/4X1/4T	1529-002A 30.04	1539-002A 31.40	1	25	218
1/4X3/8T	1529-002 30.04	1539-002 31.40	1	25	218

Valve only Threaded Ends

1/4	1521-002 24.00	1531-002 26.73	50	200	218
3/8	1521-003 33.74	1531-003 37.41	50	200	218

Valve Only Female x Male Thread Ends

1/8	152FM-001 30.04	153FM-001 31.40	25	200	218
1/4	152FM-002 30.04	153FM-002 31.40	25	200	218

Lab Valve - PVC

Size	EPDM	FKM	Std Pk	Mstr Pk	Prod Code
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Valve only Socket Ends

1/4	1522-002 24.00	1532-002 27.16	50	200	218
3/8	1522-003 33.74	1532-003 37.41	50	200	218

Lab Valve - CPVC

Size	EPDM	FKM	Std Pk	Mstr Pk	Prod Code
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Valve & Adapters Threaded Ends

1/4X1/4T	1529-002CA 36.05	1539-002CA 36.76	1	25	219
1/4X3/8T	1529-002C 36.05	1539-002C 36.76	1	25	219

Valve only Threaded Ends

1/4	1521-002C 28.86	1531-002C 31.74	50	200	219
3/8	1521-003C 40.48	1531-003C 37.94	50	200	219

Valve Only Female x Male Thread Ends

1/8	152FM-001C 36.05	---	25	200	219
1/4	152FM-002C 36.05	---	25	200	219

Valve only Socket Ends

1/4	1522-002C 28.86	1532-002C 34.35	50	200	219
3/8	1522-003C 40.48	1532-003C 44.94	50	200	219

Needle Valves



Pressure Rating @ 73°F
 (23°C), Water
 PVC or CPVC 235 psi
 PP 150 psi
Maximum Service Temperature
 PVC = 140°F (60°C)
 CPVC = 200°F (93°C)
 PP = 180°F (82°C)
 Solid PTFE Stem Seals
 No Elastomer or Lubricants used
 Valves include Panel Mounting Nut

PVC Needle Valve

Size	Threaded	Socket	SR Threaded	Std Pk	Mstr Pk	Prod Code
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Globe Pattern

1/4	5591-002 83.13	5592-002 83.13	---	1	18	218
3/8	5591-003 83.13	5592-003 83.13	5591-003SR 75.82	1	18	218
1/2	5591-005 92.26	5592-005 92.26	5591-005SR 94.75	1	18	218

Angle Pattern

1/4	5691-002 83.13	5692-002 83.13	---	1	18	218
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Lab Specialty Product
Needle Valves & Gauge Guards

Needle Valves

PVC Needle Valve (continued)

Size	Threaded	Socket	SR Threaded	Std Pk	Mstr Pk	Prod Code
Angle Pattern						
3/8	5691-003 83.13	5692-003 83.13	---	1	18	218
1/2	5691-005 92.26	5692-005 92.26	---	1	18	218

CPVC Needle Valve

Size	Threaded	Socket	SR Threaded	Std Pk	Mstr Pk	Prod Code
Globe Pattern						
1/4	5591-002C 97.91	5592-002C 97.91	---	1	18	219
3/8	5591-003C 97.91	5592-003C 97.91	5591-003CSR 97.68	1	18	219
1/2	5591-005C 103.54	5592-005C 103.54	5591-005CSR 106.18	1	18	219

Angle Pattern

1/4	5691-002C 97.91	5692-002C 97.91	---	1	18	219
3/8	5691-003C 97.91	5692-003C 97.91	---	1	18	219
1/2	5691-005C 103.54	5692-005C 103.54	5691-005CSR 106.18	1	18	219

PP Needle Valve

Size	Threaded	SR Threaded	Std Pk	Mstr Pk	Prod Code
Globe Pattern					
1/4	5591-002P 91.60	---	1	18	219
3/8	5591-003P 91.60	---	1	18	219
1/2	---	5591-005PSR 101.29	1	18	219

Angle Pattern

1/4	5691-002P 91.60	---	1	18	219
3/8	5691-003P 91.60	---	1	18	219
1/2	---	5691-005PSR 101.29	1	18	219

Gauge Guards



Connections use Spears® Patented Special Reinforced (SR) Female Threads on Pressure Inlet (1/4" or 1/2")

Pressure Rating
235 psi @ 73°F
16 BAR @ 22°C

Maximum Service Temperature
PVC = 140°F (60°C)
CPVC = 200°F (93°C)
PP = 180°F (82°C)

Temperature/Pressure De-ratings Apply
Rated for Full Vacuum Service

Gauge Guards are pre-filled with glycerin-water on units with Factory Installed Gauges. "No Gauge" units are to be filled by end user.

PVC GAUGE GUARDS

Size	1/4" Inlet Connection	1/2" Inlet Connection	Std Pk	Mstr Pk	Prod Code
PTFE Diaphragm					
No Gauge	G0004-002 121.09	G0004-005 121.09	1	18	624
0-30 in-Hg	G30V4-002 204.44	G30V4-005 204.44	1	18	624
0-15 psi	G0154-002 193.25	G0154-005 193.25	1	18	624
0-30 psi	G0304-002 193.25	G0304-005 193.25	1	18	624
0-60 psi	G0604-002 193.25	G0604-005 193.25	1	18	624
0-100 psi	G1004-002 193.25	G1004-005 193.25	1	18	624
0-160 psi	G1604-002 193.25	G1604-005 193.25	1	18	624
0-200 psi	G2004-002 193.25	G2004-005 193.25	1	18	624
0-300 psi	G3004-002 193.25	G3004-005 193.25	1	18	624

FKM Diaphragm

No Gauge	G0003-002 121.09	G0003-005 121.09	1	18	624
0-30 in-Hg	G30V3-002 204.44	G30V3-005 204.44	1	18	624
0-15 psi	G0153-002 193.25	G0153-005 193.25	1	18	624
0-30 psi	G0303-002 193.25	G0303-005 193.25	1	18	624
0-60 psi	G0603-002 193.25	G0603-005 193.25	1	18	624