

Lab Specialty Product
Lab Ball Valves & Needle Valves



Lab Ball Valves



Socket/Threaded Valve Only

Pressure Rating @ 73°F (23°C),
 Water

1/4" - 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

PVC Lab Valve

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

1/4X1/4T	1529-002A 28.54	1539-002A 29.83	1	25	218
1/4X3/8T	1529-002 28.54	1539-002 29.83	1	25	218

Valve only Threaded Ends

1/4	1521-002 22.80	1531-002 25.39	50	200	218
3/8	1521-003 32.05	1531-003 35.54	50	200	218

Valve only Socket Ends

1/4	1522-002 22.80	1532-002 25.80	50	200	218
3/8	1522-003 32.05	1532-003 35.54	50	200	218

CPVC Lab Valve

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

1/4X1/4T	1529-002CA 34.25	1539-002CA 34.92	1	25	219
1/4X3/8T	1529-002C 34.25	1539-002C 34.92	1	25	219

Valve only Threaded Ends

1/4	1521-002C 27.42	1531-002C 30.15	50	200	219
3/8	1521-003C 38.46	1531-003C 36.04	50	200	219

Valve only Socket Ends

1/4	1522-002C 27.42	1532-002C 32.63	50	200	219
3/8	1522-003C 38.46	1532-003C 42.69	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 78.97	5592-002 78.97	---	1	18	218
3/8	5591-003 78.97	5592-003 78.97	5591-003SR 72.03	1	18	218
1/2	5591-005 87.65	5592-005 87.65	5591-005SR 90.01	1	18	218

Angle Pattern

1/4	5691-002 78.97	5692-002 78.97	---	1	18	218
3/8	5691-003 78.97	5692-003 78.97	---	1	18	218
1/2	5691-005 87.65	5692-005 87.65	5691-005SR 90.01	1	18	218

CPVC Needle Valve

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

1/4	5591-002C 93.01	5592-002C 93.01	---	1	18	219
3/8	5591-003C 93.01	5592-003C 93.01	5591-003CSR 92.80	1	18	219
1/2	5591-005C 98.36	5592-005C 98.36	5591-005CSR 100.87	1	18	219



Lab Specialty Product
Needle Valves & Gauge Guards

Needle Valves

CPVC Needle Valve

Size	Threaded	Socket	SR Threaded	Std Pk	Mstr Pk	Prod Code
Angle Pattern						
1/4	5691-002C 93.01	5692-002C 93.01	---	1	18	219
3/8	5691-003C 93.01	5692-003C 93.01	---	1	18	219
1/2	5691-005C 98.36	5692-005C 98.36	5691-005CSR 100.87	1	18	219

PP Needle Valve

Size	Threaded	SR Threaded	Std Pk	Mstr Pk	Prod Code
Globe Pattern					
1/4	5591-002P 87.02	---	1	18	219
3/8	5591-003P 87.02	---	1	18	219
1/2	---	5591-005PSR 96.23	1	18	219

Angle Pattern

1/4	5691-002P 87.02	---	1	18	219
3/8	5691-003P 87.02	---	1	18	219
1/2	---	5691-005PSR 96.23	1	18	219

Gauge Guards



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

Pressure Rating	Maximum Service Temperature
235 psi @ 73°F	PVC = 140°F (60°C)
16 BAR @ 22°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	G0004-002 115.04	G0004-005 115.04	1	18	624
0-30 in-Hg	G30V4-002 194.22	G30V4-005 194.22	1	18	624
0-15 psi	G0154-002 183.59	G0154-005 183.59	1	18	624
0-30 psi	G0304-002 183.59	G0304-005 183.59	1	18	624
0-60 psi	G0604-002 183.59	G0604-005 183.59	1	18	624
0-100 psi	G1004-002 183.59	G1004-005 183.59	1	18	624
0-160 psi	G1604-002 183.59	G1604-005 183.59	1	18	624
0-200 psi	G2004-002 183.59	G2004-005 183.59	1	18	624
0-300 psi	G3004-002 183.59	G3004-005 183.59	1	18	624

FKM Diaphragm

No Gauge	G0003-002 115.04	G0003-005 115.04	1	18	624
0-30 in-Hg	G30V3-002 194.22	G30V3-005 194.22	1	18	624
0-15 psi	G0153-002 183.59	G0153-005 183.59	1	18	624
0-30 psi	G0303-002 183.59	G0303-005 183.59	1	18	624
0-60 psi	G0603-002 183.59	G0603-005 183.59	1	18	624