

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 31.62	1539-002A 33.05	1	25	218
1/4X3/8T	1529-002 31.62	1539-002 33.05	1	25	218

**Valve only Threaded Ends**

1/4	1521-002 25.26	1531-002 28.14	50	200	218
3/8	1521-003 35.52	1531-003 39.38	50	200	218

**Valve Only Female x Male Thread Ends**

1/8	152FM-001 31.62	153FM-001 33.05	25	200	218
1/4	152FM-002 31.62	153FM-002 33.05	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 25.26	1532-002 28.59	50	200	218
3/8	1522-003 35.52	1532-003 39.38	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 37.95	1539-002CA 38.69	1	25	219
1/4X3/8T	1529-002C 37.95	1539-002C 38.69	1	25	219

**Valve only Threaded Ends**

1/4	1521-002C 30.38	1531-002C 33.41	50	200	219
3/8	1521-003C 42.61	1531-003C 39.94	50	200	219

**Valve Only Female x Male Thread Ends**

1/8	152FM-001C 37.95	---	25	200	219
1/4	152FM-002C 37.95	---	25	200	219

**Valve only Socket Ends**

1/4	1522-002C 30.38	1532-002C 36.16	50	200	219
3/8	1522-003C 42.61	1532-003C 47.31	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 87.51	5592-002 87.51	---	1	18	218
3/8	5591-003 87.51	5592-003 87.51	5591-003SR 79.81	1	18	218
1/2	5591-005 97.12	5592-005 97.12	5591-005SR 99.74	1	18	218

**Angle Pattern**

1/4	5691-002 87.51	5692-002 87.51	---	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
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**Angle Pattern**

3/8	5691-003 87.51	5692-003 87.51	---	1	18	218
1/2	5691-005 97.12	5692-005 97.12	---	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 103.06	5592-002C 103.06	---	1	18	219
3/8	5591-003C 103.06	5592-003C 103.06	5591-003CSR 102.82	1	18	219
1/2	5591-005C 108.99	5592-005C 108.99	5591-005CSR 111.77	1	18	219

**Angle Pattern**

1/4	5691-002C 103.06	5692-002C 103.06	---	1	18	219
3/8	5691-003C 103.06	5692-003C 103.06	---	1	18	219
1/2	5691-005C 108.99	5692-005C 108.99	5691-005CSR 111.77	1	18	219

**PP Needle Valve**

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

1/4	5591-002P 96.42	---	1	18	219
3/8	5591-003P 96.42	---	1	18	219
1/2	---	5591-005PSR 106.62	1	18	219

**Angle Pattern**

1/4	5691-002P 96.42	---	1	18	219
3/8	5691-003P 96.42	---	1	18	219
1/2	---	5691-005PSR 106.62	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
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**PTFE Diaphragm**

No Gauge	G0004-002 127.46	G0004-005 127.46	1	18	624
0-30 in-Hg	G30V4-002 215.20	G30V4-005 215.20	1	18	624
0-15 psi	G0154-002 203.42	G0154-005 203.42	1	18	624
0-30 psi	G0304-002 203.42	G0304-005 203.42	1	18	624
0-60 psi	G0604-002 203.42	G0604-005 203.42	1	18	624
0-100 psi	G1004-002 203.42	G1004-005 203.42	1	18	624
0-160 psi	G1604-002 203.42	G1604-005 203.42	1	18	624
0-200 psi	G2004-002 203.42	G2004-005 203.42	1	18	624
0-300 psi	G3004-002 203.42	G3004-005 203.42	1	18	624

**FKM Diaphragm**

No Gauge	G0003-002 127.46	G0003-005 127.46	1	18	624
0-30 in-Hg	G30V3-002 215.20	G30V3-005 215.20	1	18	624
0-15 psi	G0153-002 203.42	G0153-005 203.42	1	18	624
0-30 psi	G0303-002 203.42	G0303-005 203.42	1	18	624
0-60 psi	G0603-002 203.42	G0603-005 203.42	1	18	624