



Lab Specialty Product
Lab Specialty Products

Lab Specialty Products



PRODUCT

Contact Spears® for any Information not found.

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

Lab Specialty Product
Gauge Guards



Gauge Guards

PVC GAUGE GUARDS (continued)

Size	1/4" Inlet Connection	1/2" Inlet Connection	Std Pk	Mstr Pk	Prod Code
FKM Diaphragm					
0-100 psi	G1003-002 183.59	G1003-005 183.59	1	18	624
0-160 psi	G1603-002 183.59	G1603-005 183.59	1	18	624
0-200 psi	G2003-002 183.59	G2003-005 183.59	1	18	624
0-300 psi	G3003-002 183.59	G3003-005 183.59	1	18	624

EPDM Diaphragm

No Gauge	G0002-002 110.39	G0002-005 110.39	1	18	624
0-30 in-Hg	G30V2-002 186.41	G30V2-005 186.41	1	18	624
0-15 psi	G0152-002 176.31	G0152-005 176.31	1	18	624
0-30 psi	G0302-002 176.31	G0302-005 176.31	1	18	624
0-60 psi	G0602-002 176.31	G0602-005 176.31	1	18	624
0-100 psi	G1002-002 176.31	G1002-005 176.31	1	18	624
0-160 psi	G1602-002 176.31	G1602-005 176.31	1	18	624
0-200 psi	G2002-002 176.31	G2002-005 176.31	1	18	624
0-300 psi	G3002-002 176.31	G3002-005 176.31	1	18	624

GAUGE GUARDS, CPVC

Size	1/4" Inlet Connection	1/2" Inlet Connection	Std Pk	Mstr Pk	Prod Code
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PTFE Diaphragm

No Gauge	G0004-002C 149.56	G0004-005C 149.56	1	18	625
0-30 in-Hg	G30V4-002C 252.49	G30V4-005C 252.49	1	18	625
0-15 psi	G0154-002C 238.71	G0154-005C 238.71	1	18	625
0-30 psi	G0304-002C 238.71	G0304-005C 238.71	1	18	625
0-60 psi	G0604-002C 238.71	G0604-005C 238.71	1	18	625
0-100 psi	G1004-002C 238.71	G1004-005C 238.71	1	18	625
0-160 psi	G1604-002C 238.71	G1604-005C 238.71	1	18	625
0-200 psi	G2004-002C 238.71	G2004-005C 238.71	1	18	625
0-300 psi	G3004-002C 238.71	G3004-005C 238.71	1	18	625

FKM Diaphragm

No Gauge	G0003-002C 149.56	G0003-005C 149.56	1	18	625
0-30 in-Hg	G30V3-002C 252.49	G30V3-005C 252.49	1	18	625

GAUGE GUARDS, CPVC (continued)

Size	1/4" Inlet Connection	1/2" Inlet Connection	Std Pk	Mstr Pk	Prod Code
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FKM Diaphragm

0-15 psi	G0153-002C 238.71	G0153-005C 238.71	1	18	625
0-30 psi	G0303-002C 238.71	G0303-005C 238.71	1	18	625
0-60 psi	G0603-002C 238.71	G0603-005C 238.71	1	18	625
0-100 psi	G1003-002C 238.71	G1003-005C 238.71	1	18	625
0-160 psi	G1603-002C 238.71	G1603-005C 238.71	1	18	625
0-200 psi	G2003-002C 238.71	G2003-005C 238.71	1	18	625
0-300 psi	G3003-002C 238.71	G3003-005C 238.71	1	18	625

EPDM Diaphragm

No Gauge	G0002-002C 143.60	G0002-005C 143.60	1	18	625
0-30 in-Hg	G30V2-002C 242.37	G30V2-005C 242.37	1	18	625
0-15 psi	G0152-002C 229.26	G0152-005C 229.26	1	18	625
0-30 psi	G0302-002C 229.26	G0302-005C 229.26	1	18	625
0-60 psi	G0602-002C 229.26	G0602-005C 229.26	1	18	625
0-100 psi	G1002-002C 229.26	G1002-005C 229.26	1	18	625
0-160 psi	G1602-002C 229.26	G1602-005C 229.26	1	18	625
0-200 psi	G2002-002C 229.26	G2002-005C 229.26	1	18	625
0-300 psi	G3002-002C 229.26	G3002-005C 229.26	1	18	625

GAUGE GUARDS, PP

Size	1/4" Inlet Connection	1/2" Inlet Connection	Std Pk	Mstr Pk	Prod Code
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PTFE Diaphragm

No Gauge	G0004-002P 134.64	G0004-005P 134.64	1	18	626
0-30 in-Hg	G30V4-002P 206.83	G30V4-005P 206.83	1	18	626
0-15 psi	G0154-002P 196.72	G0154-005P 196.72	1	18	626
0-30 psi	G0304-002P 196.72	G0304-005P 196.72	1	18	626
0-60 psi	G0604-002P 196.72	G0604-005P 196.72	1	18	626
0-100 psi	G1004-002P 196.72	G1004-005P 196.72	1	18	626
0-160 psi	G1604-002P 196.72	G1604-005P 196.72	1	18	626
0-200 psi	G2004-002P 196.72	G2004-005P 196.72	1	18	626
0-300 psi	G3004-002P 196.72	G3004-005P 196.72	1	18	626



Lab Specialty Product
Gauge Guards & Lab Fixtures

Gauge Guards

GAUGE GUARDS, PP

Size	1/4" Inlet Connection	1/2" Inlet Connection	Std Pk	Mstr Pk	Prod Code
FKM Diaphragm					
No Gauge	G0003-002P 134.64	G0003-005P 134.64	1	18	626
0-30 in-Hg	G30V3-002P 206.83	G30V3-005P 206.83	1	18	626
0-15 psi	G0153-002P 196.72	G0153-005P 196.72	1	18	626
0-30 psi	G0303-002P 196.72	G0303-005P 196.72	1	18	626
0-60 psi	G0603-002P 196.72	G0603-005P 196.72	1	18	626
0-100 psi	G1003-002P 196.72	G1003-005P 196.72	1	18	626
0-160 psi	G1603-002P 196.72	G1603-005P 196.72	1	18	626
0-200 psi	G2003-002P 196.72	G2003-005P 196.72	1	18	626
0-300 psi	G3003-002P 196.72	G3003-005P 196.72	1	18	626

EPDM Diaphragm

No Gauge	G0002-002P 129.32	G0002-005P 129.32	1	18	626
0-30 in-Hg	G30V2-002P 198.54	G30V2-005P 198.54	1	18	626
0-15 psi	G0152-002P 188.93	G0152-005P 188.93	1	18	626
0-30 psi	G0302-002P 188.93	G0302-005P 188.93	1	18	626
0-60 psi	G0602-002P 188.93	G0602-005P 188.93	1	18	626
0-100 psi	G1002-002P 188.93	G1002-005P 188.93	1	18	626
0-160 psi	G1602-002P 188.93	G1602-005P 188.93	1	18	626
0-200 psi	G2002-002P 188.93	G2002-005P 188.93	1	18	626
0-300 psi	G3002-002P 188.93	G3002-005P 188.93	1	18	626

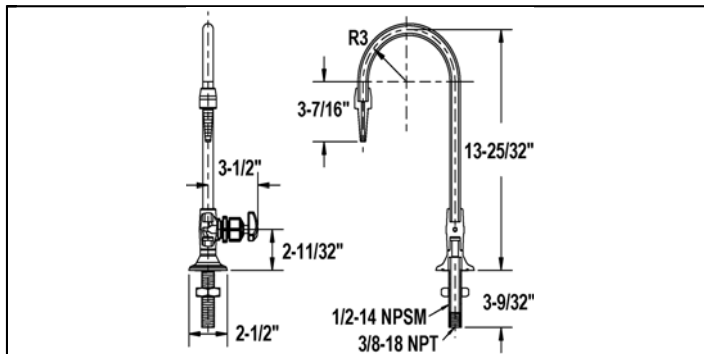
Lab Fixtures

100%% Corrosion Resistance - No Metal Parts

Spears® Lab Fixtures have no metal parts; this provides full resistance to internal or environmental corrosion. These fixtures are compatible with all laboratory service lines. Lab Fixtures are produced from PVC (gray) and CPVC (for hot water), or special Low-Extractable PVC for high purity applications, and are available in a variety of types and configurations.

- Deck Mount – base configuration for horizontal surface mounting.
- Panel Mount – base configuration for vertical surface mounting.
- Standard Gooseneck Units – select all-plastic needle valve unit (no elastomer seals) for metered flow or ball valve unit (choice of EPDM or FKM seals) for direct flow. Unit includes valve, gooseneck with serrated tip, and base with nut for mounting. Select Deck or Panel Mount style.
- Standard Turret Units – direct flow ball valve (choice of EPDM or FKM seals) with serrated tip and base with connecting nipple and nut for mounting. Select Deck or Panel Mount style.
- Remote Valve Units (No Valve) – same as standard units less valve for use with remotely located valve.
- Recirculating Units – Special design provides continuous water motion without dead-leg areas of contamination and potential bacteria build-up. Internal supply tube fully circulates water through the entire fixture when connected to circulating water supply. Unit features gooseneck with terminally mounted all-plastic needle valve and serrated tip (no elastomer seals) for metered flow. Base is Deck Mount only with inlet and outlet connecting nipples with mounting nuts.

NPT - American National Standard Tapered Pipe Thread • NPSM - American National Standard Straight Thread For Free Fitting Mechanical Joints



Gooseneck Units - Deck Mount Lab Fixture w/Needle Valve

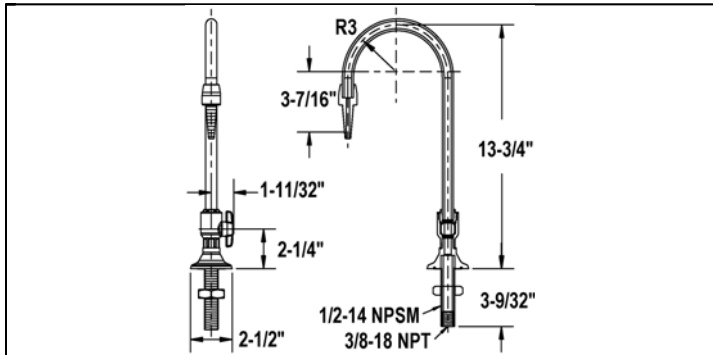
Part Number	Material	Std Pk	Mstr Ctn	Prod Code	MSRP
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Base, Gooseneck & Serrated Tip with Needle Valve-Metered Flow

LF1000-N	PVC, PTFE Seal	1	0	218	209.69
LF1000-CN	CPVC, PTFE Seal	1	0	219	261.81
LF1000-BLN	LE, PTFE Seal	1	0	066	417.03



Lab Fixtures

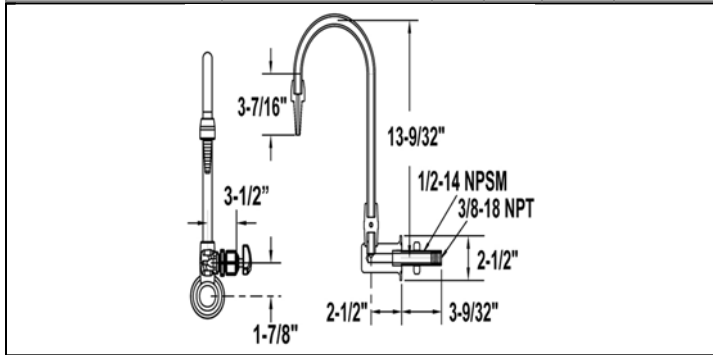


Gooseneck Units - Deck Mount Lab Fixture w/Ball Valve

Part Number	Material	Std Pk	Mstr Ctn	Prod Code	MSRP
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Base, Gooseneck & Serrated Tip with Ball Valve-Direct Flow

LF1002	PVC, EPDM Seal	1	0	218	175.16
LF1003	PVC, FKM Seal	1	0	218	194.61
LF1002-C	CPVC, EPDM Seal	1	0	219	218.95
LF1003-C	CPVC, FKM Seal	1	0	219	243.27
LF1002-BL	LE, EPDM Seal	1	0	066	348.75
LF1003-BL	LE, FKM Seal	1	0	066	387.51

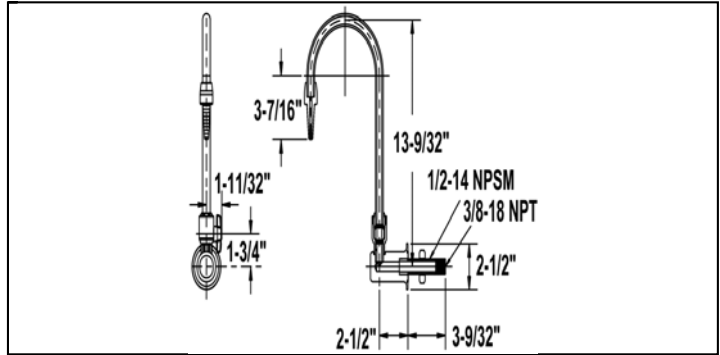


Gooseneck Units - Panel Mount Lab Fixture w/Needle Valve

Part Number	Material	Std Pk	Mstr Ctn	Prod Code	MSRP
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Base, Gooseneck & Serrated Tip with Needle Valve-Metered Flow

LF2000-N	PVC, PTFE Seal	1	0	218	305.61
LF2000-CN	CPVC, PTFE Seal	1	0	219	381.99

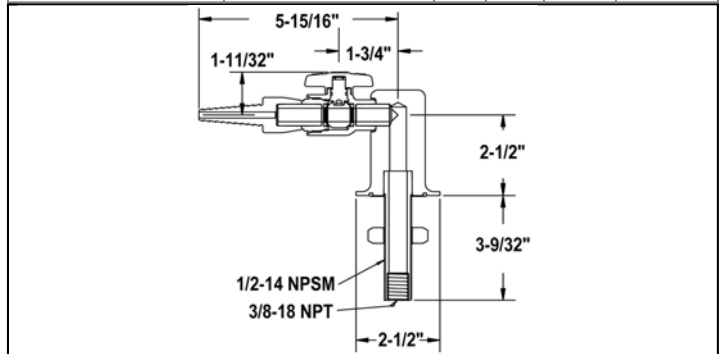


Standard Gooseneck Units - Panel Mount Lab Fixture -

Part Number	Material	Std Pk	Mstr Ctn	Prod Code	MSRP
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with Ball Valve-Direct Flow

LF2002	PVC, EPDM Seal	3	0	218	263.45
LF2003	PVC, FKM Seal	3	0	218	292.75
LF2002-C	CPVC, EPDM Seal	1	0	219	329.34
LF2003-C	CPVC, FKM Seal	1	0	219	365.91



Turret Units - Deck Mount Turret Lab Fixtures Base w/Ball Valve

Part Number	Material	Std Pk	Mstr Ctn	Prod Code	MSRP
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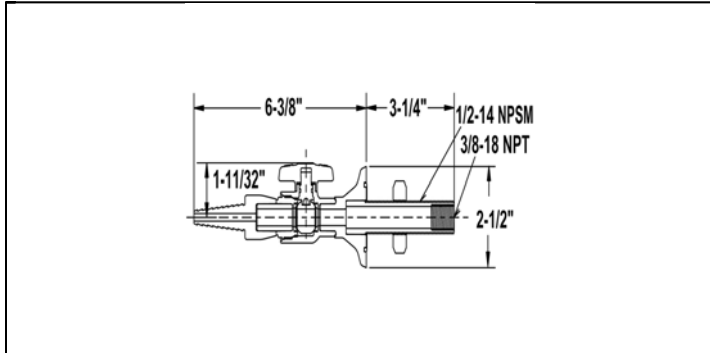
Turret Base & Serrated Tip with Ball Valve-Direct Flow

LF4002	PVC, EPDM Seal	1	0	218	222.29
LF4003	PVC, FKM Seal	1	0	218	246.99
LF4002-C	CPVC, EPDM Seal	1	0	219	277.86
LF4003-C	CPVC, FKM Seal	1	0	219	308.75



Lab Specialty Product
Lab Fixtures

Lab Fixtures

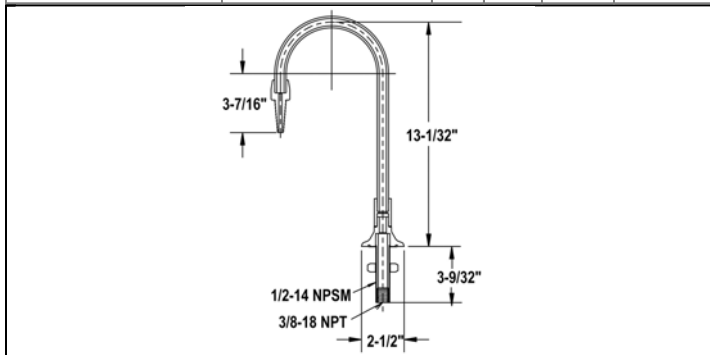


Turret Units - Panel Mount Turret Lab Fixture Base w/Ball Valve

Part Number	Material	Std Pk	Mstr Ctn	Prod Code	MSRP
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Turret Base, Serrated Tip with Ball Valve-Direct Flow

LF3002	PVC, EPDM Seal	1	0	218	172.28
LF3003	PVC, FKM Seal	1	0	218	191.45
LF3002-C	CPVC, EPDM Seal	1	0	219	215.39
LF3003-C	CPVC, FKM Seal	1	0	219	239.33
LF3002-BL	LE, EPDM Seal	1	0	066	343.04
LF3003-BL	LE, FKM Seal	1	0	066	381.21

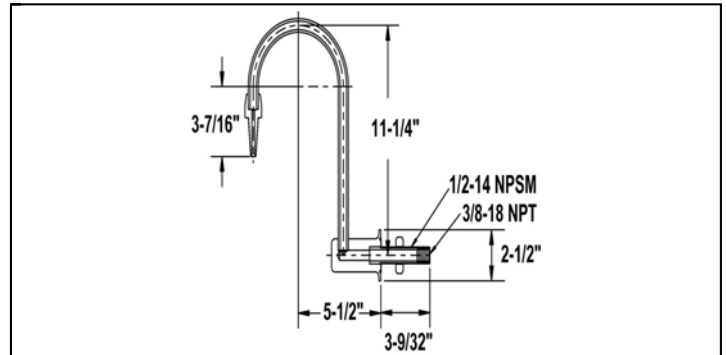


Remote Valve Units (No Valve) - Deck Mount Gooseneck -

Part Number	Material	Std Pk	Mstr Ctn	Prod Code	MSRP
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Base, Gooseneck & Serrated Tip

LF100	PVC	1	0	218	143.75
LF100-C	CPVC	1	0	219	179.69
LF100-BL	LE	1	0	066	286.18

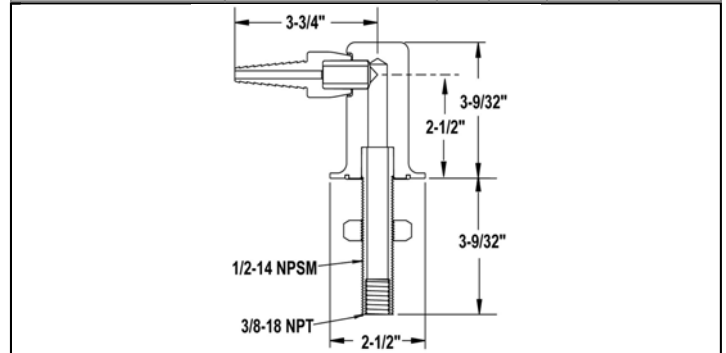


Remote Valve Units (No Valve) - Panel Mount Gooseneck -

Part Number	Material	Std Pk	Mstr Ctn	Prod Code	MSRP
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Base, Gooseneck & Serrated Tip

LF104	PVC	1	0	218	177.55
LF104-C	CPVC	1	0	219	221.95

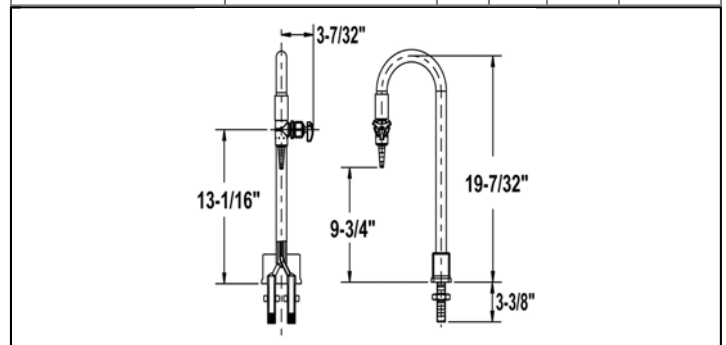


Remote Valve Units (No Valve) - Deck Mount Turret

Part Number	Material	Std Pk	Mstr Ctn	Prod Code	MSRP
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Turret Base & Serrated Tip

LF300	PVC	1	0	218	47.37
LF300-C	CPVC	1	0	219	59.21



Gooseneck Recirculating Units -Deck Mount Lab Fixture w/Needle Valve

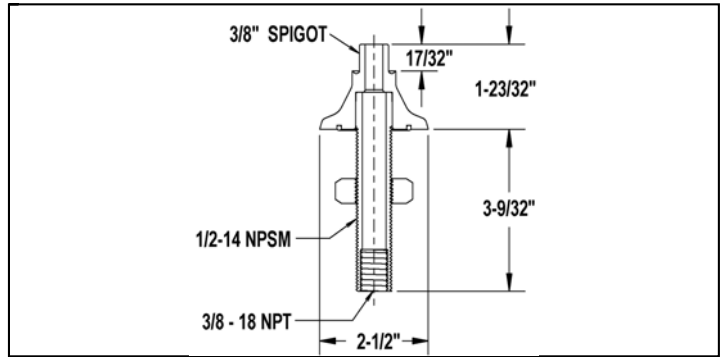
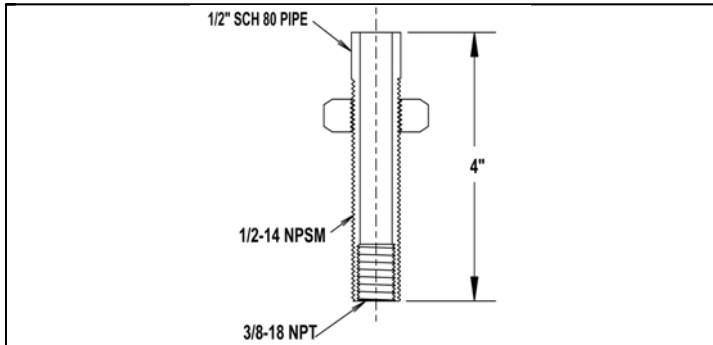
Part Number	Material	Std Pk	Mstr Ctn	Prod Code	MSRP
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Base, Gooseneck & Serrated Tip with Needle Valve-Metered Flow

LFR1000-N	PVC, PTFE Seal	1	0	218	364.94
LFR1000-CN	CPVC, PTFE Seal	1	0	219	545.42
LFR1000-BLN	LE, PTFE Seal	1	0	066	868.76



Lab Fixtures

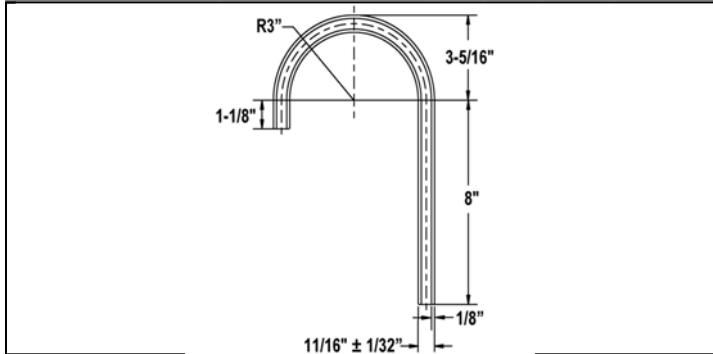


Accessory/ Replacement - Fixture Connection Nipple -

Part Number	Material	Std Pk	Mstr Ctn	Prod Code	MSRP
(included on all fixtures above) with Locknut					
LF500	PVC	1	0	218	23.78
LF500-C	CPVC	1	0	219	29.74
LF500-BL	LE	1	0	066	47.40

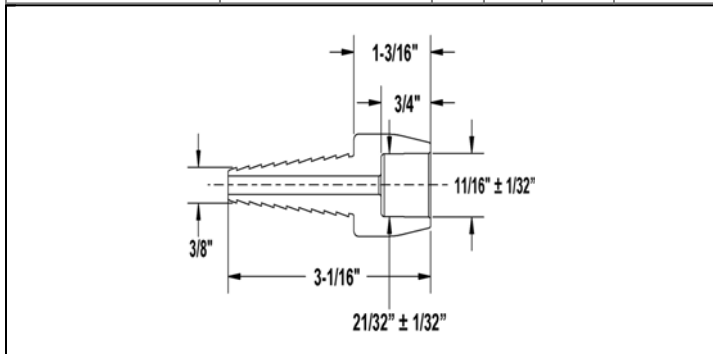
Accessory/ Replacement - Base

Part Number	Material	Std Pk	Mstr Ctn	Prod Code	MSRP
Deck Mount					
LFB	PVC	1	0	218	8.72
LFB-C	CPVC	1	0	219	10.41
LFB-BL	LE	1	0	066	5.96



Accessory/ Replacement - Gooseneck (3/8")

Part Number	Material	Std Pk	Mstr Ctn	Prod Code	MSRP
LFGN	PVC	1	0	218	20.21
LFGN-C	CPVC	1	0	219	25.29
LFGN-BL	LF	1	0	066	40.28



Accessory/ Replacement - Straight Serrated Tip

Part Number	Material	Std Pk	Mstr Ctn	Prod Code	MSRP
LF400	PVC	600	0	218	4.27
LF400-C	CPVC	600	0	219	5.38
LF400-BL	LE	600	0	066	8.52