

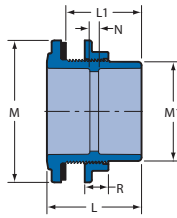


Low Extractable High Purity PVC System Technical Information

Technical Information & Dimensions

Tank Adapter

Socket x Socket



Part #	Size (in.)	Hole Size (in.)	L	L1	M	M1	N	R	Weight (lbs.)
8170E-005BL	1/2	1.31	2-15/16	2-3/16	2	1-3/16	1-1/8	5/8	.20
8170E-007BL	3/4	1.69	2-15/16	2-3/16	2-1/4	1-5/8	15/16	5/8	.24
8170E-010BL	1	1.94	3-5/16	2-9/16	2-5/8	2	1-1/16	5/8	.35
8170E-012BL	1-1/4	2.39	3-7/16	2-5/8	3-1/8	2-5/16	15/16	5/8	.42
8170E-015BL	1-1/2	2.39	3-5/8	2-13/16	3-5/8	2-11/16	13/16	5/8	.93
8170E-020BL	2	3.51	4-1/8	3-1/4	4-7/8	3-1/4	1-1/16	3/4	1.30
8170E-030BL	3	4.49	5-1/2	4-1/2	6	4-9/16	1-11/16	1	2.50
8170E-040BL	4	5.50	5	4	7-1/2	5-1/2	7/16	1-1/4	3.40

EPDM Gasket – 150 psi maximum working pressure @73°F. For FKM Gasket, replace the E with V.

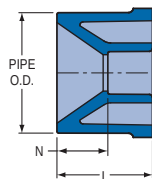
Gauge Guards

Spears® low-extractable gauge guards isolate process pressure or vacuum gauges from corrosive or potentially damaging process media by use of a thin PTFE diaphragm (optional FKM or EPDM available). This flexible membrane accurately transmits system pressure to the gauge connection chamber when properly assembled with gauge and liquid filled. A variety of optional gauges are available, factory assembled to the gauge guard and pre-filled. All gauge guards have 1/4" NPT gauge outlet connections. Inlet connections are either 1/4" or 1/2" NPT, featuring Spears® patented Special Reinforced (SR) female plastic thread.

Reducer Bushing

Flush Style

Spigot x Socket

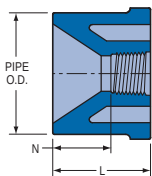


Part #	Size (in.)	L	N	Weight (lbs.)
837-101BL	3/4 x 1/2	1-7/32	11/32	.03
837-130BL	1 x 1/2	1-5/8	13/32	.06
837-131BL	1 x 3/4	1-11/32	5/16	.04
837-166BL	1-1/4 x 1/2	1-1/2	5/8	.12
837-168BL	1-1/4 x 1	1-19/32	15/32	.08
837-210BL	1-1/2 x 3/4	1-3/4	11/16	.19
837-211BL	1-1/2 x 1	1-17/32	13/32	.14
837-212BL	1-1/2 x 1-1/4	1-9/16	5/16	.07
837-249BL	2 x 1	1-29/32	13/16	.26
837-251BL	2 x 1-1/2	1-3/4	11/32	.17
837-338BL	3 x 2	2-27/32	9/16	.62
837-422BL	4 x 3	2-21/32	25/32	.82
837-532BL	6 x 4	4	1-23/32	2.86

Reducer Bushing

Flush Style

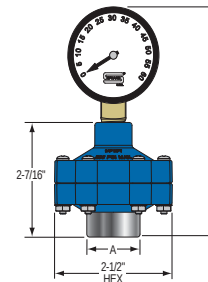
Spigot x Fipt



Part #	Size (in.)	L	N	Weight (lbs.)
838-072BL	1/2 x 1/4	1	7/8	.02
838-073BL	1/2 x 3/8	1-3/32	17/32	.02
838-098BL	3/4 x 1/4	1-7/32	5/8	.04
838-101BL	3/4 x 1/2	1-1/4	7/16	.03
838-129BL	1 x 3/8	1-13/32	19/32	.07
838-130BL	1 x 1/2	1-5/32	21/32	.06
838-131BL	1 x 3/4	1-3/8	21/32	.05
838-210BL	1-1/2 x 3/4	1-3/4	31/32	.15

Gauge Guard

PTFE Diaphragm

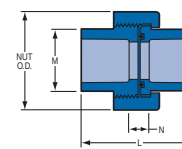


Gauge Configuration	1/4" Inlet	A	B	1/2" Inlet	A	B
No Gauge	G0004-002BL	7/8	—	G0004-005BL	1-3/16	—
0-30 in-Hg	G30V4-002BL	7/8	4-13/16	G30V4-005BL	1-3/16	4-7/8
0-15 psi	G0154-002BL	7/8	4-13/16	G0154-005BL	1-3/16	4-7/8
0-30 psi	G0304-002BL	7/8	4-13/16	G0304-005BL	1-3/16	4-7/8
0-60 psi	G0604-002BL	7/8	4-13/16	G0604-005BL	1-3/16	4-7/8
0-100 psi	G1004-002BL	7/8	4-13/16	G1004-005BL	1-3/16	4-7/8
0-160 psi	G1604-002BL	7/8	4-13/16	G1604-005BL	1-3/16	4-7/8
0-200 psi	G2004-002BL	7/8	4-13/16	G2004-005BL	1-3/16	4-7/8
0-300 psi	G3004-002BL	7/8	4-13/16	G3004-005BL	1-3/16	4-7/8

NOTE: Spears® low-extractable Gauge Guards carry a maximum pressure rating of 235 psi, non-shock, @73°F; vacuum gauges suitable for full vacuum service. All gauge guards have 1/4" NPT gauge outlet connections. Gauges are a standard 1/4" NPT brass bottom mount, epoxy enamel steel case, black marking on white face, black dial.

Union (Old Style)

Socket x Socket



Part #	Size (in.)	L	M	N	Nut O.D.	Weight (lbs.)
897-005BL	1/2	2-3/32	1-9/32	11/32	1-31/32	.12
897-007BL	3/4	2-3/8	1-17/32	11/32	2-1/2	.17
897-010BL	1	2-9/16	1-27/32	3/8	2-7/8	.28
897-012BL	1-1/4	2-7/8	2-7/32	3/8	3-5/16	.36
897-015BL	1-1/2	3-3/32	2-9/16	15/32	3-9/16	.50
897-020BL	2	3-5/8	3-1/32	9/16	4-3/16	.86
8097-030BL	3	4-1/4	4-3/16	1/2	6-5/32	2.16
8097-040BL	4	5-1/8	5-1/4	5/8	7-3/4	3.43

*For (Socket X Socket) Unions equipped with FKM O-Ring, replace the 897 with an 857 before the dash.