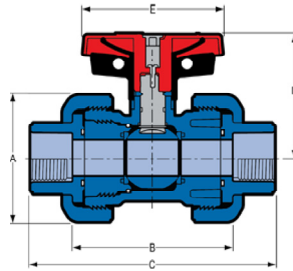


Low Extractable Technical
Low Extractable Technical Information



True Union 2000 Industrial Ball Valves w/Handle Lockout & Safe-T-Block™ Design



EPDM O-ring

Dimensions Also Applicable to
 1839-XXXBL FKM O-Rings

Part Number	Size	A	B	C	D	E	Cv Values	Approx. Wt. (Lbs.)
1829-005BL	1/2	1- 7/8	2- 3/8	4- 3/16	2- 9/16	2-13/16	29	.46
1829-007BL	3/4	2- 1/4	2- 3/4	4- 3/4	2- 7/8	3- 3/8	63	.65
1829-010BL	1	2- 1/2	2- 7/8	5- 1/8	3- 1/8	3- 7/16	120	.88
1829-012BL	1-1/4	3- 1/16	3- 1/4	5- 3/4	3- 5/8	3- 7/8	243	1.35
1829-015BL	1-1/2	3- 1/2	3- 1/2	6- 1/4	4	4- 3/16	357	1.83
1829-020BL	2	4- 1/4	4- 3/4	7- 3/4	4- 1/2	5- 1/8	599	3.11
1822-030BL	3	6- 3/16	7	10-11/16	5- 7/8	7- 5/8	1416	7.73
1822-040BL	4	7- 5/8	7- 5/16	11- 7/8	6- 3/4	9- 3/16	2865	12.05

Needle Valves

Spears® low-extractable needle valves provide proportional opening to needle travel for more accurate metering and other fine-adjustment flow-control applications. Replaceable PTFE seat eliminates all elastomer seals. Available in Globe and Angle pattern configurations with socket or threaded end connections. Valves include built-in panel mounting nut and easy-grip polypropylene handles.

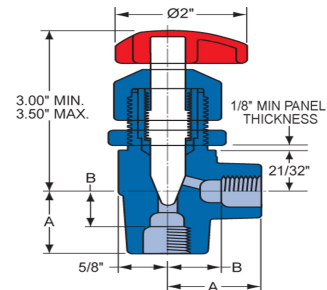
Replaceable PTFE Stem Seal - no elastomer or lubricants used. Needle valves carry a maximum internal pressure rating of 235 psi at 73°F (23°C).

Lab Fixtures (not shown)

See Low-Extractable High Purity PVC System section in the SPS-1 for additional information.

Needle Valve

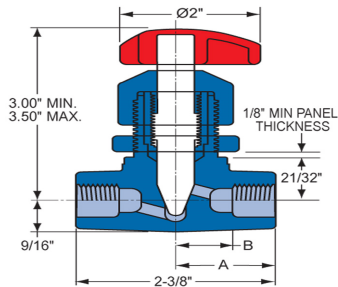
Angle Pattern - Fipt



Part Number	Size	A	B	Approx. Wt. (Lbs.)
5692-002BL	1/4	3	21/32	.22
5692-003BL	3/8	3	21/32	.21
5692-005BL	1/2	3	21/32	.23
5691-002BL	1/4	3	21/32	.22
5691-003BL	3/8	3	21/32	.21
5691-005BLSR	1/2	3	21/32	.25

Needle Valve

Globe Pattern - Fipt



Part Number	Size	A	B	Approx. Wt. (Lbs.)
5592-002BL	1/4	3	11/16	.21
5592-003BL	3/8	3	11/16	.21
5592-005BL	1/2	3	11/16	.23
5591-002BL	1/4	3	11/16	.21
5591-003BL	3/8	3	11/16	.20
5591-005BLSR	1/2	3	11/16	.24