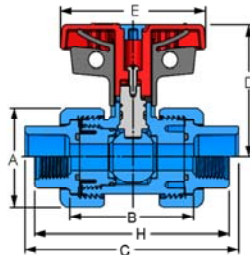


Low Extractable Technical  
**Low Extractable Technical Information**



**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	H	Cv Values	Approx. Wt. (Lbs.)
1829-005BL	1/2	1-15/16	2-1/2	4-1/4	2- 9/16	2-7/8	3-7/8	29	.43
1829-007BL	3/4	2-3/8	2-13/16	4-13/16	2- 7/8	3- 3/8	4-1/4	63	.65
1829-010BL	1	2-5/8	2-15/16	5-3/16	3-1/16	3-1/2	4-3/4	120	.88
1829-012BL	1-1/4	3-3/16	3-5/16	5-13/16	3-9/16	3- 7/8	5-3/16	243	1.35
1829-015BL	1-1/2	3-9/16	3-9/16	6-5/16	4	4- 3/16	5-7/16	357	1.84
1829-020BL	2	4-5/16	4-13/16	7-13/16	4-7/16	5- 1/8	6-11/16	599	3.10

**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.

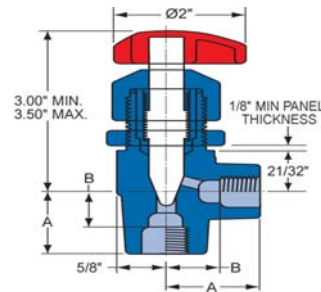
Replaceable PTFE Stem Seal - no elastomer or lubricants used. Needle valves carry a maximum internal pressure rating of 235 psi at 73°F (23°C).

**Lab Fixtures (not shown)**

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

**Needle Valve**

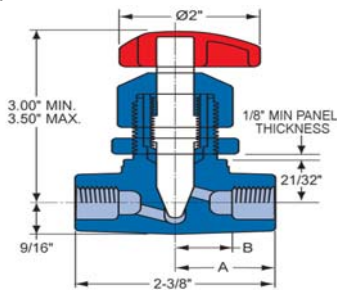
Angle Pattern - Fipt



Part Number	Size	A	B	Approx. Wt. (Lbs.)
5692-002BL	1/4	3	21/32	.24
5692-003BL	3/8	3	21/32	.23
5692-005BL	1/2	3	21/32	.25
5691-002BL	1/4	3	21/32	.24
5691-003BL	3/8	3	21/32	.23
5691-005BLSR	1/2	3	21/32	.27

**Needle Valve**

Globe Pattern - Fipt



Part Number	Size	A	B	Approx. Wt. (Lbs.)
5592-002BL	1/4	3	11/16	.23
5592-003BL	3/8	3	11/16	.23
5592-005BL	1/2	3	11/16	.25
5591-002BL	1/4	3	11/16	.23
5591-003BL	3/8	3	11/16	.22
5591-005BLSR	1/2	3	11/16	.26