



Standard Small Bore Double Block and Bleed

ADVANTAGES

- Lightweight design: stainless steel and aluminum body
- Low-cost seal replacement/longer life seals
- Isolate and test with the same tool
- Seal materials are one-piece, molded, and manufactured from proprietary Buna-N blend
- Gripper attachments to increase back pressure rating to 1500 PSI available upon request
- Through-port vented to allow the venting of upstream gas, vapor, or pressure away to a safe area; this port can also be used to purge low-pressure nitrogen
- Designed with a 1.5 safety factor
- Special sizes and configurations can be designed upon request

PRODUCT DESCRIPTION

Superior's Small Bore Isolation and Test Plugs are designed to provide an isolation barrier on localized field repairs and modifications. SPR's plug incorporates unique features that make it the most application efficient tool on the market while keeping safety the number one goal.

Superior's Small Bore Isolation Plugs are constructed with stainless steel and billet aluminum material for added corrosion protection and durability. This equipment is designed to isolate and monitor explosive vapors to a safe area, then repositioned to straddle the weld to perform a hydrostatic test within the annular body.

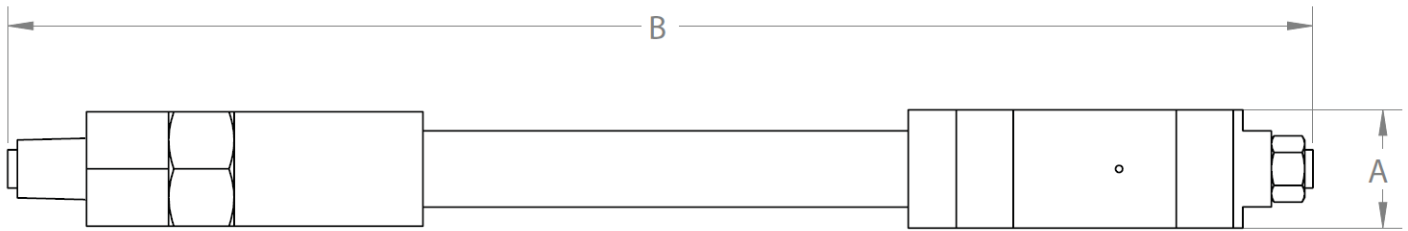
Superior's proprietary seals are a solid molded blend of Buna-N with less carbon black that allows for more flexibility and less splitting, therefore, increasing the chance to seal in less desirable ID pipe surfaces and reducing or eliminating the loss of the isolation.

Due to the smaller configuration of the small bore tools, these tools are limited to a single point fill for the test and isolation annular cavity. The small bore tool provides a larger fill passage to the annulus area to ensure that the annulus area is flooded for the isolation or hydrostatic test.

Superior's Small Bore Plugs utilize a single brass tightening nut for low torque seal engagement, while reducing the amount of media to obtain an isolation or test.

Superior's Small Bore tools are schedule-specific to the pipe sizes ranging from 0.750" through 2" sch 160, and each tool can be easily adapted with gripper jaws to make them back-pressure rated up to 1500 PSI.





Pipe Size	Pipe Schedule	Nominal Pipe I.D. inch (mm)	Max Pressure Between Seals psi (bar)	Tool	Plug O.D. Inches "A"	Length inches "B"	Weight lbs
3/4	40	0.824 (20.93)	2,500 (172.37)	SPR-0.750" 40	0.765 (19.43)	16 - 19	2.5
	80	0.742 (18.85)		SPR-0.750" 80	0.680 (17.27)		
	XXS	0.434 (11.02)		SPR-0.750" XXS	0.395 (10.03)		
1	40	1.049 (26.64)	2,500 (172.37)	SPR-1.0" 40	0.990 (25.15)	16 - 19	3
	80	0.957 (24.31)		SPR-1.0" 80	0.895 (22.73)		
	160	0.815 (20.70)		SPR-1.0" 160	0.765 (19.43)		
	XXS	0.599 (15.21)		SPR-1.0" XXS	0.565 (14.35)		
1 1/2	40	1.610 (40.89)	2,250 (155.13)	SPR-1.5" 40	1.460 (37.08)	16 - 19	4
	80	1.500 (38.10)		SPR-1.5" 80	1.350 (34.29)		
	160	1.338 (33.99)		SPR-1.5" 160	1.200 (30.48)		
	XXS	1.100 (27.94)		SPR-2.0" XXS	1.040 (26.42)		
2	160	1.687 (42.85)	2,250 (155.13)	SPR-2.0" 160	1.550 (39.37)	16 - 19	5

1. Pressures listed above are not necessarily limits of the tool; they may be limited by the pipe or flange rating.
2. Contact SPR for additional information on higher pressure or different size applications.



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