



## Standard Double Block and Bleed

### ADVANTAGES

- Lightweight design: aluminum body with stainless steel hardware
- Low-cost seal replacement/longer life seal
- Isolate and test with the same tool
- Monitors both isolation pressure and upstream pressure
- All tools 4" and larger are multi-schedule
- Double-bevel seal design for uniform and proper seal displacement
- Seal materials are one-piece molded and manufactured from proprietary Buna-N blend
- Thrust bearings and washers are used on 6" and above to reduce loading forces and improve seal engagement
- Gripper attachments to increase back pressure rating to 1500 PSI available upon request
- Tools 6" and larger have locking and centering lugs for additional safety and centering
- Through-port vented to allow the venting of upstream gas, vapor, or pressure to a safe area; this port can also be used to purge low pressure nitrogen
- Designed with a 1.5 safety factor
- Size range: 2" - 42"
- Special sizes and configurations can be designed upon request



### PRODUCT DESCRIPTION

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

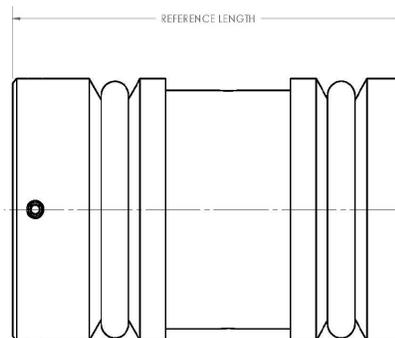
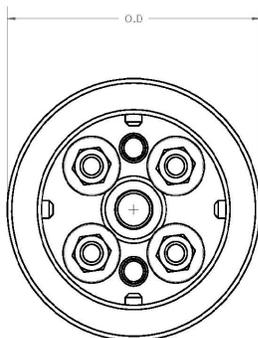
Superior isolation plugs allow the end-user to isolate, monitor, and vent hydrocarbon vapors to a safe area when performing welded connections or making repairs in hot-work areas.

After welding is completed, the annular of the tool is positioned between the welded connections and filled with preferred media to perform a hydrostatic test.

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.

Pipe Size	Pipe Schedule	Nominal Pipe I.D. inch (mm)	Plug O.D. inch (mm)	Pressure Between Seals psi (bar)	Tool	Max. Test Tool Torque	Length inch (mm)	Weight lbs(kg)
2	40	2.067 52.50	1.962 49.83	2,000 137.90	SPR-2.0" 40	5 ft/lbs	5.75 146.05	2 0.91
	80	1.939 49.25	1.844 46.84	2,250 155.13				
3	40	3.068 77.93	2.775 70.49	2,000 137.90	SPR-3.0" 40/80	5 ft/lbs	6.5 165.10	3 1.36
	80	2.900 73.66		2,250 155.13				
	160	2.624 66.65		3,375 232.70				
	XXS	2.800 58.42		3,375 232.70				
4	40HP	4.026 102.26	3.626 92.10	2,250 155.13	SPR-4.0" HP	20 ft/lbs	8 203.20	4 1.81
	40	4.026 102.26		750 51.71				
	80	3.826 97.18		2,250 155.13				
	160	3.438 87.39		3,375 232.70				
6	40	6.065 154.05	5.563 141.30	1,150 79.29	SPR-6.0" 40/80	25 ft/lbs	9.375 238.13	15 6.80
	80	5.761 146.33		2,000 137.90				
	XXS	4.697 124.38		3,375 232.70				
8	40	7.981 202.72	7.438 188.93	1,150 79.29	SPR-8.0" 40/80	30 ft/lbs	10.625 269.88	30 13.61
	80	7.625 193.68		1,150 79.29				
	XXS	6.875 174.63		2,250 155.13				
10	40	10.020 254.51	9.375 238.13	1,000 68.95	SPR-10.0" 40/80	35 ft/lbs	11.5 292.10	47 21.32
	80	9.562 242.87		1,150 79.29				
12	20	12.250 311.15	11.125 282.58	450 31.03	SPR-12.0" 40/80	35 ft/lbs	12.25 311.15	70 31.75
	30	12.090 307.09		750 51.71				
	STD	12.000 304.80		750 51.71				
	40	11.938 303.23		750 51.71				
	XS	11.750 298.45		1,150 79.29				
	60	11.626 295.30		1,150 79.29				
14	20	13.376 339.75	12.250 311.15	450 31.03	SPR-14.0" 40/80	35 ft/lbs	14.875 377.83	96 43.54
	STD	13.250 336.55		750 51.71				
	40	13.124 333.35		750 51.71				
	XS	13.000 330.20		1,000 68.95				
	60	12.812 325.42		1,150 79.29				
	80	12.500 317.50		1,150 79.29				
16	STD	15.250 387.35	14.000 355.60	450 31.03	SPR-16.0" 10/40	35 ft/lbs	15.625 396.88	118 53.52
	XS	15.000 381.00		750 51.71				
	60	14.688 373.08		1,150 79.29				
	80	14.312 363.52		1,150 79.29				
18	STD	17.250 438.15	16.500 419.10	450 31.03	SPR-18.0" 10/40	35 ft/lbs	15.625 396.88	150 68.04
	30	17.124 434.95		450 31.03				
	XS	17.000 431.80		750 51.71				
	40	16.876 428.65		750 51.71				
20	10	19.500 495.30	18.438 468.33	350 24.13	SPR-20.0" 10/40	40 ft/lbs	15.625 396.88	179 81.19
	STD	19.250 488.95		450 31.03				
	XS	19.000 482.60		750 51.71				
	40	18.812 477.82		750 51.71				
24	10	23.500 596.90	22.250 565.15	300 20.68	SPR-24.0" 10/40	40 ft/lbs	15.625 396.88	221 100.24
	STD	23.250 590.55		450 31.03				
	XS	23.000 584.20		450 31.03				
	30	22.876 581.05		450 31.03				
30	10	29.376 746.15	28.375 720.73	300 20.68	SPR-30.0" 10/30	40 ft/lbs	15.625 396.88	300 136.08
	STD	29.250 742.95		350 24.13				
	XS	29.000 736.60		450 31.03				
	30	28.750 730.25		450 31.03				
36	10	35.376 898.55	34.375 873.13	300 20.68	SPR-36.0" 10/30	40 ft/lbs	15.625 396.88	395 179.17
	STD	35.250 895.35		350 24.13				
	XS	35.000 889.00		450 31.03				
	30	34.750 882.65		450 31.03				
42	STD	41.250 1047.75	40.000 1016.00	350 24.13	SPR-42.0" STD/XS	40 ft/lbs	15.625 396.88	425 192.78
	XS	41.000 1041.40		450 31.03				

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



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