



Gen. 2 Weld Isolation and Testing Standard Double Block and Bleed

- LIGHTWEIGHT DESIGN: ALUMINUM BODY WITH STAINLESS STEEL HARDWARE
- ALL TOOLS 4" AND LARGER ARE MULTI-SCHEDULE
- SIZE RANGE: 2" - 42"
- TOOLS 6" AND LARGER HAVE LOCKING AND CENTERING LUGS FOR ADDITIONAL SAFETY AND CENTERING
- LOW-COST SEAL REPLACEMENT/ LONGER LIFE SEAL
- GRIPPER ATTACHMENTS TO INCREASE BACK PRESSURE RATING TO 1500 PSI AVAILABLE UPON REQUEST
- DESIGNED WITH A 1.5 SAFETY FACTOR
- SEALS 6" AND LARGER HAVE LOCKING AND CENTERING LUGS FOR ADDITIONAL SAFETY AND CENTERING
- MONITORS BOTH ISOLATION PRESSURE AND UPSTREAM PRESSURE
- SEAL MATERIALS ARE ONE-PIECE MOLDED AND MANUFACTURED FROM PROPRIETARY BUNA-N BLEND
- DOUBLE-BEVEL SEAL DESIGN FOR UNIFORM AND PROPER SEAL DISPLACEMENT
- ISOLATE AND TEST WITH THE SAME TOOL
- SPECIAL SIZES AND CONFIGURATIONS CAN BE DESIGNED UPON REQUEST
- THRUST BEARINGS AND WASHERS ARE USED ON 6" AND ABOVE TO REDUCE LOADING FORCES AND IMPROVE SEAL ENGAGEMENT
- 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



Pipe Size	Pipe Schedule	Nominal Pipe I.D.		Plug O.D.		Tool Working Pressure		Tool Model	Length		Weight	
		Inch	(mm)	Inch	(mm)	PSI	(bar)		Inch	(mm)	lbs	(kg)
2	40	2.067	52.50	1.963	49.9	2,500	172	SPR-G2-2.0" 40	5.03	127.8	1.7	0.8
	80	1.939	49.25	1.844	46.8	2,500	172	SPR-G2-2.0" 80	5.03	127.8	1.7	0.8
3	40	3.068	77.93	2.94	74.7	2,500	172	SPR-G2-3.0" 40/80	5.18	131.6	3.3	1.5
	80	2.9	73.66	2.775	70.5	2,500	172	SPR-G2-3.0" 40/80	5.37	136.4	3.4	1.5
	160	2.624	66.65	2.448	62.2	2,500	172	SPR-G2-3.0" 160	5.5	139.7	3	1.4
	XXS	2.3	58.42	2.175	55.2	2,500	172	SPR-G2-3.0" XXS	5.16	131.1	2.4	1.1
4	40	4.026	102.26	3.865	98.2	2,500	172	SPR-G2-4.0" 40	5.64	143.3	5.27	2.4
	80	3.826	97.18	3.625	92.1	2,500	172	SPR-G2-4.0" 80	5.74	145.8	5.52	2.5
	120	3.624	92.05	3.48	88.4	2,500	172	SPR-G2-4.0" 120	4.92	125.0	4.6	2.1
	160	3.438	87.33	3.29	83.6	2,500	172	SPR-G2-4.0" 160	5.09	129.3	4.27	1.9
6	10	6.357	161.47	6.158	156.4	2,500	172	SPR-G2-6.0" 5-10	6.638	168.6	19	8.6
	40	6.065	154.05	5.563	141.3	2,500	172	SPR-G2-6.0" 40/80	7.7	195.6	14.6	6.6
	80	5.761	146.33	5.563	141.3	2,500	172	SPR-G2-6.0" 40/80	7.7	195.6	14.6	6.6
	120	5.501	139.73	5.375	136.5	2,500	172	SPR-G2-6.0" 120	7	177.8	15.3	6.9
8	XXS	4.897	124.38	4.7	119.4	2,500	172	SPR-G2-6.0" XXS	7.38	187.5	11.4	5.2
	10	8.329	211.56	8.2	208.28	2,500	172	SPR-G2-8.0" 5/10	7.78	197.61	29.8	13.5
	40	7.981	202.72	7.438	188.9	2,500	172	SPR-G2-8.0" 40/80	8.05	204.5	23.8	10.8
	80	7.625	193.68	7.438	188.9	2,500	172	SPR-G2-8.0" 40/80	8.05	204.5	23.8	10.8
10	XXS	6.875	174.63	6.625	168.3	2,500	172	SPR-G2-8.0" XXS	7.71	195.8	19.8	9.0
	40	10.02	254.51	9.375	238.1	2,500	172	SPR-G2-10.0" 40/80	8.11	206.0	39.4	17.9
	80	9.562	242.87	9.375	238.1	2,500	172	SPR-G2-10.0" 40/80	8.11	206.0	39.4	17.9
	160	8.5	215.90	8.25	209.55	2,500	172	SPR-G2-10.0" XXS-160	6.78	172.21	28.4	12.8
12	20	12.25	311.15	11.125	282.6	2,500	172	SPR-G2-12.0" 40/80	8.688	220.7	54.75	24.8
	30	12.09	307.09	11.125	282.6	2,500	172	SPR-G2-12.0" 40/80	8.688	220.7	54.75	24.8
	STD	12	304.80	11.125	282.6	2,500	172	SPR-G2-12.0" 40/80	8.688	220.7	54.75	24.8
	40	11.938	303.23	11.125	282.6	2,500	172	SPR-G2-12.0" 40/80	8.688	220.7	54.75	24.8
	XS	11.75	298.45	11.125	282.6	2,500	172	SPR-G2-12.0" 40/80	8.688	220.7	54.75	24.8
	60	11.626	295.30	11.125	282.6	2,500	172	SPR-G2-12.0" 40/80	8.688	220.7	54.75	24.8
	80	11.374	288.90	11.125	282.6	2,500	172	SPR-G2-12.0" 40/80	8.688	220.7	54.75	24.8
14	120	10.75	273.05	10.4	264.16	2,500	172	SPR-G2-12.0" 120	8.264	209.9	50	22.7
	20	13.376	339.75	12.25	311.2	2,500	172	SPR-G2-14.0" 40/80	10.2	259.1	80.5	36.5
	STD	13.25	336.55	12.25	311.2	2,500	172	SPR-G2-14.0" 40/80	10.2	259.1	80.5	36.5
	40	13.124	333.35	12.25	311.2	2,500	172	SPR-G2-14.0" 40/80	10.2	259.1	80.5	36.5
	XS	13	330.20	12.25	311.2	2,500	172	SPR-G2-14.0" 40/80	10.2	259.1	80.5	36.5
	60	12.812	325.42	12.25	311.2	2,500	172	SPR-G2-14.0" 40/80	10.2	259.1	80.5	36.5
16	80	12.5	317.50	12.25	311.2	2,500	172	SPR-14.0" 40/80	10.2	259.1	80.5	36.5
	10	15.5	393.70	15.375	390.5	2,500	172	SPR-G2-16.0" 10	10.6	269.2	118.5	53.7
	STD	15.25	387.35	14.75	374.7	2,500	172	SPR-G2-16.0" 10/40	9.7	246.4	105.6	47.9
	XS	15	381.00	14.75	374.7	2,500	172	SPR-G2-16.0" 10/40	9.7	246.4	105.6	47.9
	18	17.25	438.15	16.5	419.1	2,500	172	SPR-G2-18.0" 10/40	10.14	257.6	128.5	58.3
18	30	17.124	434.95	16.5	419.1	2,500	172	SPR-G2-18.0" 10/40	10.14	257.6	128.5	58.3
	XS	17	431.80	16.5	419.1	2,500	172	SPR-G2-18.0" 10/40	10.14	257.6	128.5	58.3
	40	16.876	428.65	16.5	419.1	2,500	172	SPR-G2-18.0" 10/40	10.14	257.6	128.5	58.3
	20	19.5	495.30	18.438	468.3	2,500	172	SPR-G2-20.0" 10/40	10.2	259.1	150	68.0
20	STD	19.25	488.95	18.438	468.3	2,500	172	SPR-G2-20.0" 10/40	10.2	259.1	150	68.0
	XS	19	482.60	18.438	468.3	2,500	172	SPR-G2-20.0" 10/40	10.2	259.1	150	68.0
	40	18.812	477.82	18.438	468.3	2,500	172	SPR-G2-20.0" 10/40	10.2	259.1	150	68.0
	10	23.5	596.90	22.25	565.2	2,500	172	SPR-G2-24.0" 10/40	10.2	259.1	199.4	90.4
24	STD	23.25	590.55	22.25	565.2	2,500	172	SPR-G2-24.0" 10/40	10.2	259.1	199.4	90.4
	XS	23	584.20	22.25	565.2	2,500	172	SPR-G2-24.0" 10/40	10.2	259.1	199.4	90.4
	30	22.876	581.05	22.25	565.2	2,500	172	SPR-G2-24.0" 10/40	10.2	259.1	199.4	90.4
	40	22.625	574.68	22.25	565.2	2,500	172	SPR-G2-24.0" 10/40	10.2	259.1	199.4	90.4
30	10	29.376	746.15	28.375	720.7	2,500	172	SPR-G2-30.0" 10/30	10.2	259.1	300.2	136.1
	STD	29.25	742.95	28.375	720.7	2,500	172	SPR-G2-30.0" 10/30	10.2	259.1	300.2	136.1
	XS	29	736.60	28.375	720.7	2,500	172	SPR-G2-30.0" 10/30	10.2	259.1	300.2	136.1
	30	28.75	730.25	28.375	720.7	2,500	172	SPR-G2-30.0" 10/30	10.2	259.1	300.2	136.1
36	10	35.376	898.55	34.375	873.1	2,500	172	SPR-G2-36.0" 10/30	10.2	259.1	393.4	178.4
	STD	35.25	895.35	34.375	873.1	2,500	172	SPR-G2-36.0" 10/30	10.2	259.1	393.4	178.4
	XS	35	889.00	34.375	873.1	2,500	172	SPR-G2-36.0" 10/30	10.2	259.1	393.4	178.4
	30	34.75	882.65	34.375	873.1	2,500	172	SPR-G2-36.0" 10/30	10.2	259.1	393.4	178.4
42	STD	41.25	1047.75	40	1016.0	2,500	172	SPR-G2-42.0" STD/XS	10.2	259.1	493.75	223.9
	XS	41	1041.40	40	1016.0	2,500	172	SPRG2-42.0" STD/XS	10.2	259.1	493.75	223.9
44	STD			42.476	1078.9	2,500	172	SPR-G2-42.0" STD-XS	10.2	259.1	522	236.7

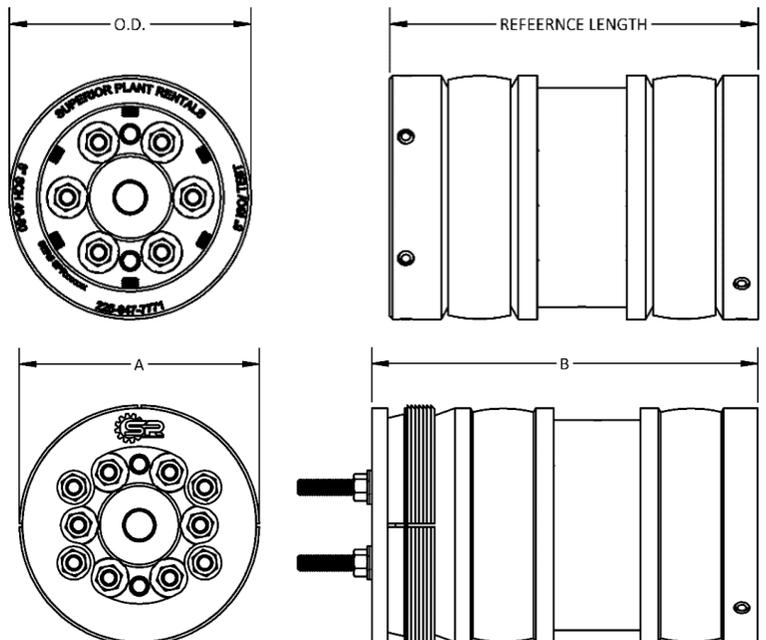
Pipe Size	Pipe Schedule	Plug O.D. Inch (mm) "A"		length Inch (mm) "B"		Maximum Test Pressure PSI (bar)		Maximum Upstream Pressure PSI (bar)		Tool
0.75	40	0.824	20.93	-	-	2,500	172.37	1,500	103.42	SPR-0.750" 40
	80	0.742	18.85	-	-	2,500	172.37	1,500	103.42	SPR-0.750" 80
1.00	40	1.049	26.64	-	-	2,500	172.37	1,500	103.42	SPR-1.0" 40
	80	0.957	24.31	-	-	2,500	172.37	1,500	103.42	SPR-1.0" 80
	160	0.815	20.70	-	-	2,500	172.37	1,500	103.42	SPR-1.0" 160
	XXS	0.599	15.21	-	-	2,500	172.37	1,500	103.42	SPR-1.0" XXS
1.50	40	1.610	40.89	-	-	2,250	155.13	1,500	103.42	SPR-1.5" 40
	80	1.500	37.10	-	-	2,250	155.13	1,500	103.42	SPR-1.5" 80
	160	1.338	33.99	-	-	2,250	155.13	1,500	103.42	SPR-1.5" 160
	XXS	1.100	27.94	-	-	2,250	155.13	1,500	103.42	SPR-1.5" XXS
2.00	160	-	-	-	-	2,250	155.13	1,500	103.42	SPR-2.0" 160
2.00	40	1.962	49.83	7.750	196.85	2,000	137.90	1,500	103.42	SPR-2.0" 40
	80	1.844	46.84	7.750	196.85	2,250	155.13	1,500	103.42	SPR-2.0" 80
3.00	40	2.775	70.49	8.125	206.38	2,250	155.13	1,500	103.42	SPR-3" 40/80
	80	2.775	70.49	8.125	206.38	2,250	155.13	1,500	103.42	SPR-3" 40/80
	160	2.175	55.25	7.750	196.85	3,375	232.70	1,500	103.42	SPR-3" 160
	XXS	2.175	55.25	7.750	196.85	3,375	232.70	1,500	103.42	SPR-3" XXS
4.00	40HP	3.863	98.12	8.750	222.25	2,250	155.13	1,500	103.42	SPR-4.0" HP
	40/80	3.626	92.10	8.750	222.25	2,250	155.13	1,500	103.42	SPR-4.0" 40/80
	XXS	3.027	70.89	10.000	254.00	3,375	232.70	1,500	103.42	SPR-4.0" XXS
6.00	40/80	5.563	141.30	10.875	276.23	2,000	137.90	1,500	103.42	SPR-6.0" 40/80
	XXS	4.697	119.30	10.875	276.23	3,375	232.70	1,500	103.42	SPR-6.0" XXS
8.00	40/80	7.438	188.93	11.750	298.45	1,150	79.29	1,500	103.42	SPR-8.0" 40/80
	XXS	6.625	168.25	11.750	298.45	2,250	155.13	1,500	103.42	SPR-8.0" XXS
10.00	40/80	9.375	258.13	11.500	292.10	1,150	79.29	1,500	103.42	SPR-10.0" 40/80
12.00	40/80	11.125	282.58	12.250	311.15	1,150	79.29	1,500	103.42	SPR-12.0" 40/80
14.00	40/80	12.250	311.15	13.750	349.25	1,150	79.29	1,500	103.42	SPR-14.0" 40/80
16.00	40/80	14.000	355.60	15.625	396.88	1,150	79.29	1,500	103.42	SPR-16.0" 40/80



While working pressure is 2500 PSI, pressures listed above are not necessarily limits of the tool; they may be limited by the pipe or flange rating. Contact Superior for additional information on higher pressure or different size applications.

Superior Double Block and Bleed Plugs provide a safe, efficient, and reliable isolation solution for localized field repairs and system modifications. Designed for hot-work environments, they allow operators to isolate the line while safely monitoring and venting hydrocarbon vapors away from the work area.

After welding, the plug's annular chamber—positioned between the welded connections—can be filled with the preferred test medium to perform a dependable hydrostatic pressure test without tool removal. Featuring proprietary, solid-molded Buna-N seals with enhanced flexibility, Superior plugs conform to irregular internal pipe surfaces to deliver exceptional sealing performance and minimize the risk of isolation loss.





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