

WRS Retrievable Bridge Plug

Service Equipment

The WRS Bridge Plug is a wireline set, retrievable bridge plug used for zone isolation, surface equipment repair, or any other application in which a reliable retrievable bridge plug is required.

The WRS Bridge Plug is commonly run on wireline using an E4 pressure setting tool (or equivalent). However, it may be set on conventional or coiled tubing using a hydraulic setting tool. The plug may be retrieved on conventional or coiled tubing using the WRN Retrieving Tool.

Features

- **Safe releasing** — when releasing, the **WRN Retrieving Tool** automatically opens the bypass to allow pressure to equalize before the plug is released.
- **Short, compact design** allows setting in applications where the setting area is restricted, such as between perforated intervals.
- **When using a special adapter**, recorders may be run below the plug. The system allows recorders to be run inside a tube below the plug to prevent damage to the recorders while running or retrieving.
- **The WRS may be lubricated** into wells under pressure on wireline or on coiled tubing.



WRS Retrievable Bridge Plug							
Casing						WRS O.D.	
O.D.		Weight		Range			
in	mm	lb/ft	kg/m	in	mm	in	mm
4-1/2	114.3	9.5 - 13.5	14.1 - 20.1	4.090 - 3.920	103.9 - 99.6	3.750	95.25
5	127.0	11.5 - 13	17.1 - 19.3	4.560 - 4.494	115.8 - 114.1	4.220	107.19
		15 - 18	22.3 - 26.7	4.408 - 4.276	111.9 - 108.6	4.100	104.14
5-1/2	139.7	13 - 17	19.3 - 25.3	5.044 - 4.892	128.2 - 124.2	4.620	117.35
		17 - 23	25.3 - 34.2	4.892 - 4.670	124.2 - 118.6	4.500	114.30
7	177.8	17 - 20	25.3 - 29.8	6.538 - 6.456	166.1 - 164.0	6.250	158.75
		23 - 26	34.2 - 38.7	6.366 - 6.276	161.7 - 159.4	6.050	153.67
		26 - 32	38.7 - 47.6	6.276 - 6.094	159.4 - 154.8	5.875	149.22
8-5/8	219.1	20 - 28	24.8 - 41.7	8.017 - 8.191	203.6 - 208.1	7.531	197.6
		32 - 40	47.6 - 59.5	7.725 - 7.921	196.2 - 201.2	7.312	191.3
		44 - 49	65.5 - 72.9	7.511 - 7.625	190.8 - 193.7	7.281	185.7
9-5/8	244.5	29.3 - 36	43.6 - 53.6	8.921 - 9.063	226.6 - 230.2	8.593	218.3
		40 - 47	59.5 - 69.9	8.681 - 8.835	220.5 - 224.4	8.437	214.3
		47 - 53.5	69.9 - 79.6	8.535 - 8.681	216.8 - 220.5	8.218	208.7
10-3/4	273.0	45.5 - 51	67.7 - 75.9	9.950 - 9.850	252.7 - 250.1	9.500	241.3
		32.75 - 40.5	48.7 - 60.3	10.192 - 10.050	258.8 - 255.2	9.700	246.4

*Other sizes and weight ranges available upon request.
Contact your Wellfirst sales representative for details*

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Maximum Temperature at Time of Setting - Degrees C (Nitril Elements)							
Element Durometer	114mm	127mm	138mm	177mm	193mm	219mm	244mm
60 / 60				100	100	100	100
70 / 70	100	100	120	140	140	140	140
80 / 80	150	150	150	155	155	170	170
90 / 90	175	175	175	175	175		

Minimum Temperature at Time of Setting - Degrees C (Nitril Elements)							
Element Durometer	114mm	127mm	138mm	177mm	193mm	219mm	244mm
60 / 60				20	20	20	20
70 / 70	20	20	20	35	35	50	50
80 / 80	45	45	45	60	60	80	80
90 / 90	65	65	65	75	75		

*Note: Temperature range relates to the temperature of the element at time of setting, **not** the bottom hole temperature.*

Nitril Elements							
Durometer	114mm	127mm	138mm	177mm	193mm	219mm	244mm
Above	68,000	68,000	68,000	62,000	62,000	51,000	51,000
Below	48,000	48,000	48,000	45,000	45,000	35,000	35,000

Average Element to Casing Contact Area			
Casing Weight - lbs/ft	26 to 36	40 to 47	47 to 53
Contact Area - in ²	120.54	92.4	100.8