

# High Expansion Retrievable Bridge Plug (HEX)



## Description

The HEX is the most versatile mechanical plug on the market. It's designed to pass through extremely narrow wellbore restrictions (such as valves, nipples and straddles) and set in larger ID casing. Ideally suited as a liner barrier for workover operations, the HEX avoids unnecessary well kill operations that often result in near wellbore reservoir damage.

The ultra-slim design enables deployment and retrieval through narrow wellbore restrictions without the risks associated with inflatable packers. Efficiency is further enhanced by HEX plugs taking just one run to set and one to retrieve. The HEX portfolio has a wide range of plugs.

The innovative packer module includes petal-style backups which retain the single-piece elastomer and provide a tight radial barrier against the casing ID. During the HEX setting sequence, the plug slips and a special adapter kit ensure centralization of the plug prior to element expansion/compression.

The plug series has been tested to differential pressures up to 275 bar (4000 psi)\* at temperatures up to 110 °C (230 °F)\* and is qualified in accordance with the ISO 14310:2008 international standard up to validation grade Vo.

**\*Applies to some sizes of HEX plugs, contact us for details.**

## Application

The HEX bridge plug can be used as a temporary or permanent barrier where there is a need for extreme expansion. The element and slips modules are designed to withstand bi-directional pressure, which allows the plug to be set in cross flow.

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## Benefits

- Centralising adapter kit ensures centralisation of the sealing element when setting plug.
- Ideal for workover applications: tubing barrier, packer for injection valve, fixed choke etc.
- Equalise and retrieve with standard GS in a single operation (no prong required).
- Highest expansion retrievable bridge plug on the market.
- Can be run on slickline, e-line, coiled tubing and pipe.
- Other sizes available on request.

## Technical Specifications

Model	Csg Size	Csg Wt (lbs/ft)	OD	ID	GS	Min Setting ID Nominal value	Max Setting ID Nominal value
180-288	2 7/8"	6.4	1.80"	N/A	1 1/2"	2.441"	2.441"
180-350	3 1/2"	12.7-13.7	1.80"	N/A	1 1/2"	2.674"	2.750"
180-350	3 1/2"	9.2-10.2	1.80"	N/A	1 1/2"	2.922"	2.992"
215-400	4"	9.5-14.8	2.15"	N/A	2"	3.240"	3.548"
230-450	4 1/2"	11.6-12.6	2.30"	N/A	2 1/2"	3.958"	4.000"
230-450	4 1/2"	13.5-15.1	2.30"	N/A	2 1/2"	3.826"	3.920"
230-450	4 1/2"	16.9-18.9	2.30"	N/A	2 1/2"	3.609"	3.740"
270-450	4 1/2"	11.6-15.1	2.70"	N/A	2 1/2"	3.826"	4.000"
270-500	5"	18-23.2	2.70"	N/A	2 1/2"	4.013"	4.272"
280-550	5 1/2"	17-26	2.80"	N/A	2 1/2"	4.548"	4.892"
340-663	6 5/8"	20-32	3.40"	0.9" <sup>(1)</sup>	3 1/2"	5.675"	6.094"
350-700	7"	26-32	3.50"	0.51" <sup>(1)</sup>	3 1/2"	6.094"	6.276"
363-700	7"	20-32	3.63"	1.2" <sup>(1)</sup>	4"	6.094"	6.456"
386-700	7"	26-35	3.86"	N/A	4"	6.004"	6.276"
430-763	7 5/8"	33.7	4.30"	N/A	4"	6.765"	6.765"
520-963	9 5/8"	36-53.5	5.20"	0.75" <sup>(1)</sup>	5"	8.535"	8.921"
580-1075	10 3/4"	45.5-51	5.80"	N/A	6"	9.850"	9.950"
580-1075	10 3/4"	60.7-65.7	5.80"	N/A	6"	9.560"	9.660"
650-1175	11 3/4"	65	6.50"	N/A	6"	10.681"	10.681"
800-1400	13 3/8"	68-72	8.00"	N/A	8 5/8"	12.347"	12.415"

<sup>(1)</sup> Reduced pressure rating