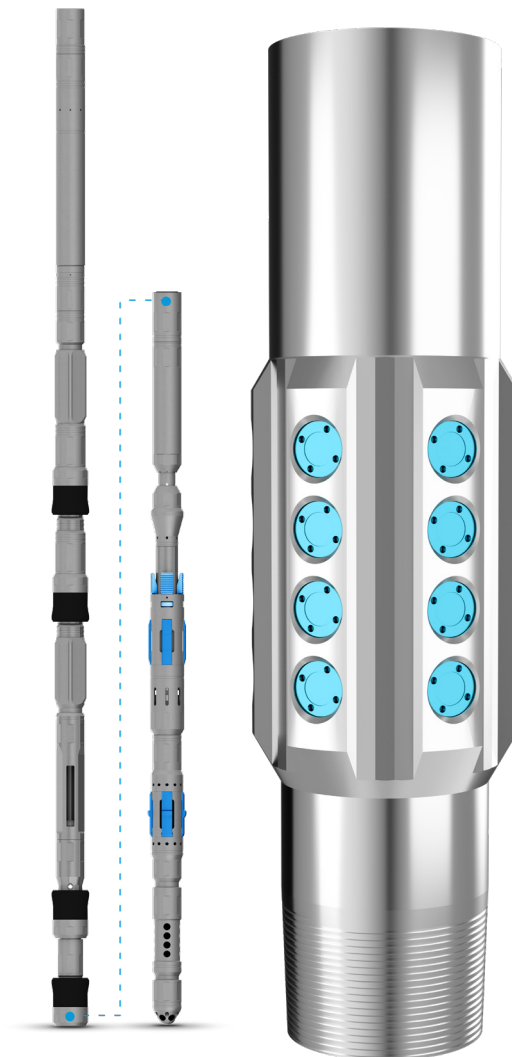


# BPS Multistage

The patented BPS™ (Burst Port System) features a casing collar with pre-milled frac ports designed to open at precise pressures, providing operators more control over their fractures' diversion. The BPS uses our selective stimulation straddle tool technology, allowing for repeatable, selective isolation of downhole intervals for pinpoint stimulation treatments.

Once hydraulic fracturing of the zone is completed, the tool can be quickly repositioned to the next BPS casing collar to repeat the process. The straddle tool can be pulled out of the well once completed, allowing immediate production without the need to drill out plugs or ball seats.

The BPS is typically used in horizontal multistage completions, where ball-drop fracture treatments are not desirable.



## Features

- Manufactured to any casing specification
- Customized ports for desired flow area
- Full-bore ID maintained by collar
- No moving parts
- Tool activated with applied pressure at surface
- Customized rupture discs for desired opening pressure and flow area

## Benefits

- Reduced operational risk by eliminating the need for workover rig or wireline
- No ID restriction for easy passage of cementing equipment
- Significant cost and time savings compared to traditional toe perforation methods
- Simple integrated design with no complex operations sequencing
- No costly intervention for activation or re-establishment of flow

## Applications

- Cemented and openhole horizontal multistage completions
- Selective fracturing with coiled tubing or jointed pipe
- High-temperature applications, up to 450°F (232°C)
- Acid or proppant fracturing
- Under-pressured reservoirs where frac balls will not flow back easily

# Tool Specification

## Technical data

Sizes	Casing size in. (mm)	Length <sup>1</sup> in. (mm)	OD in. (mm)	ID in. (mm)	Maximum pressure	Number of ports <sup>2</sup>	Flow area per port in. <sup>2</sup> (cm <sup>2</sup> )
4.500	4.500 (114.30)	18.000 (457.20)	5.750 (146.05)	As per casing weight	Limited by casing pressure	Up to 25	0.15 (0.98)
4.500 (Slim Hole)	4.500 (114.30)	25.120 (638.05)	5.250 (133.35)	3.410 (86.61)	Limited by casing pressure	Up to 25	0.15 (0.98)
5.000	5.000 (127.00)	18.800 (477.52)	5.900 (149.86)	As per casing weight	Limited by casing pressure	Up to 25	0.15 (0.98)
5.000 (Slim Hole)	5.000 (127.00)	25.000 (635.00)	5.600 (142.24)	3.875 (98.42)	Limited by casing pressure	Up to 25	0.15 (0.98)
5.500	5.500 (139.70)	20.000 (508.00)	7.000 (177.80)	As per casing weight	Limited by casing pressure	Up to 24	0.15 (0.98)
5.500 (Slim Hole)	5.500 (139.70)	22.500 (571.50)	6.375 (161.93)	As per casing weight	Limited by casing pressure	Up to 24	0.15 (0.98)
6.630	6.625 (168.28)	26.000 (660.40)	8.100 (205.74)	As per casing weight	Limited by casing pressure	Up to 24	0.15 (0.98)
7.000	7.000 (177.8)	30.100 (764.54)	8.250 (209.55)	As per casing weight	Limited by casing pressure	Up to 42	0.15 (0.98)

<sup>1</sup> Premium threading will affect overall length

<sup>2</sup> Number of ports can be modified in design, consult applications for more options