

# i-Valve CEM

Our i-Valve™ CEM is based on the high-performance i-Valve sliding sleeve series but features the additional ability to run as part of a cemented liner. i-Valve CEM technology is an ideal alternative to plug-and-perf operations in wells that require water shutoff capabilities or in wells that require selective stimulation and restimulation.

The i-Valve CEM is a multipurpose injection, cementing, production, and stimulation valve suitable for even the most demanding high-pressure, high-temperature (HPHT) environment. It is ISO 14998 V0 qualified up to 15,000 psi and has a special coating that prevents scale buildup and erosion. The i-Valve CEM is delivered with easily configurable carbide nozzles that can be installed on location before running in hole for optimum flow control.

## Applications

- Production
- Injection
- Acidizing/stimulation
- Circulation
- Cementing



## Features

- Special cement protection technology
- No flow through inner sleeve
- Special internal coating
- Configurable nozzle setting
- Dual seal system including nonelastomeric seal
- Carbide nozzles

## Benefits

- Allows the valve to be cemented in place
- Eliminates debris that can result in jamming
- Supreme protection against corrosion, erosion, and scaling
- Optimized flow performance
- Valve can be manipulated at high differential pressure without jeopardizing seal performance
- Increased erosion resistance
- Field proven to allow operators the ability to confidently cycle each valve several months after an installation

## Technical data

i-Valve CEM	OD in. (mm)	ID in. (mm)	Tensile lbf (kN)	Burst pressure psi (MPa)	Collapse rating psi (MPa)	Temperature rating °F (°C)
350	5.250 (133.35)	2.625 (66.68)	400,000 (1,780)	15,000 (103,421)	15,000 (103,421)	350 (177)
450B	5.800 (147.32)	3.255 (82.68)	550,000 (2,447)	15,000 (103,421)	15,000 (103,421)	350 (177)
450A	6.000 (152.40)	3.600 (91.44)	550,000 (2,447)	15,000 (103,421)	15,000 (103,421)	350 (177)
500	6.000 (152.40)	3.900 (99.06)	450,000 (2,002)	11,000 (75,842)	7,500 (51,710)	275 (135)
550	6.200 (157.48)	3.600 (91.44)	1,000,000 (4,450)	15,000 (103,421)	15,000 (103,421)	350 (177)
663	7.874 (200.00)	5.875 (149.23)	475,000 (2,113)	5,000 (34.473)	5,000 (34.473)	302 (150)
700	8.100 (205.74)	5.700 (144.78)	500,000 (2,224)	6,000 (41.368)	6,000 (41.368)	212 (91)

Threads and material according to customer specification.