HALLIBURTON

COMPLETION SOLUTIONS | SUBSURFACE SAFETY VALVES

Storm Choke™ J safety valve

Pressure differential (velocity) subsurface-controlled wireline-retrievable safety valves

APPLICATIONS

- High-rate wells
- Deep-set applications
- Wells with no provisions for surface-controlled valves

FEATURES

- Detent mechanism
- Metal-to-metal ball and seat assembly
- Through-conduit design

BENEFITS

- Positive snap-action closure
- Through-conduit design lessens turbulence and sand-fouling problems
- Run and set by standard wireline methods
- Adaptable to any Halliburton lock mandrel
- Designed to locate in any Halliburton landing nipple
- Can be located on large bore intervention packers

Note: Direct-controlled subsurface safety valves close only under predetermined conditions. In many cases, surface-controlled safety valves are preferable.

Overview

Storm Choke™ J safety valves are velocity-type, wireline-retrievable valves that are normally opened, direct-controlled valves. These valves operate on a spring-loaded, flow bean, pressure-differential principle and are designed for high-volume wells. A through-conduit design lessens turbulence and the possibility of sanding-up after closing. A detent mechanism provides a positive snap action closure at the valve's predetermined disaster rate. A metal-to-metal ball and seat assembly is used for the primary closure mechanism seal.

When the valve is operating, a spring holds it off its seat until the well flow reaches a predetermined rate. When the pressure differential across the bean exceeds the spring force, as a result of a rupture in a flowline or the surface equipment, the valve is designed to close and shut the well. To reopen, the valve pressure must be fully equalized either by applying pressure in the tubing from the surface or by running a prong to allow equalization from below. When pressure is equalized, the spring will open the valve automatically.

Storm Choke™ J safety valve

Velocity-type safety valves (ball-type closure)

NOMINAL SIZE IN. (MM)	COMPATIBLE LOCK MANDREL	OD IN. (MM)	ID (W/O BEAN) IN. (MM)	TOP THREAD (BOX)
1 1/4 (31.75)	1.250 S	1.190 (30.23)	0.380 (9.65)	3/4-16 UNF
	1.250 X®	1.190 (30.23)	0.380 (9.65)	7/8-20 UNF
1 1/2 (38.10)	1.500 S	1.410 (35.81)	0.680 (17.27)	1 3/8-14 UN
	1.500 X®	1.410 (35.81)	0.680 (17.27)	1 1/8-16 UN
2 (50.80)	1.710 R®	1.690 (42.93)	0.680 (17.27)	1 1/8-16 UN
	1.875 X®	1.750 (44.45)	0.750 (19.05)	1 3/16-14 UNS
	1.875 S	1.750 (44.45)	0.750 (19.05)	1 3/16-14 UNS
2 1/2 (63.50)	2.125 R®	1.910 (48.51)	0.810 (20.57)	1 3/8-14 UNS
	2.180 R®	2.000 (50.80)	0.750 (19.05)	1 3/4-12 UN
	2.313 X®	2.120 (53.85)	1.000 (25.40)	1 3/4-12 UN
	2.313 S	2.120 (53.85)	1.000 (25.40)	1 3/16-12 UNS
3 1/2 (88.90)	2.562 R®	2.280 (57.91)	1.190 (30.23)	2-12 SLB
	2.562 R®	2.310 (58.67)	1.000 (25.40)	2-12 SLB
	2.750 X®	2.730 (69.34)	1.500 (38.10)	2 1/4-12 SLB
	2.750 S	2.730 (69.34)	1.500 (38.10)	2-12 UN
4 (101.60)	3.313 X®	3.120 (79.25)	1.500 (38.10)	2 3/4-12 SLB
4 1/2 (114.30)	3.688 R®	3.440 (87.38)	2.000 (50.80)	3 1/16-12 SLB
	3.813 X®	3.720 (94.49)	2.000 (50.80)	3 1/16-12 SLB
	3.813 S	3.720 (94.49)	2.000 (50.80)	2 7/8-12 UN
5 (127.00)	4.125 R®	3.880 (98.55)	2.000 (50.80)	3 1/4-12 SLB
5 1/2 (139.70)	4.562 X®	4.420 (112.27)	2.500 (63.50)	4-12 SLB
	5.250 R®	4.950 (125.73)	2.750 (69.85)	4 1/2-8 SLB
7 (177.80)	5.875 R®	5.730 (145.54)	3.500 (88.90)	5 1/16-8 SLB

Ordering information
Specify: nipple bore and lock profile, service (standard, %H_2S, %CO_2, amines), pressure and temperature requirements, flowing pressure at closing rate, necessity of API monogramming or other certification requirements.
Part number prefixes: 22JO, JOR, JOS, JOX: ball-closure

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com