

STORM CHOKE

DESCRIPTION

The Storm Choke is a subsurface safety valve designed to automatically shut off well production in the event of uncontrolled flow or surface equipment failure. Installed in the tubing string, it operates as a velocity-sensitive valve that closes when the flow rate exceeds a preset limit, preventing uncontrolled production and protecting surface facilities from potential damage.

During normal operation, a calibrated spring mechanism holds the valve open until the flow rate – and thus the pressure differential across the choke – exceeds the predetermined threshold. If this limit is reached, the valve automatically closes, shutting in the well and ensuring immediate flow control.

Once well conditions are stabilized, the valve can be reset and reopened. Equalization can be achieved either by applying pressure from the surface or by running a prong tool to equalize from below. Upon equalization, the spring mechanism reopens the valve, restoring normal production flow.

FEATURES

- Automatic shutoff in case of excessive or uncontrolled flow
- Enhances well control and protects surface facilities from overpressure events
- Field-proven, simple mechanical design for reliable operation
- Compatible with ball-type or poppet-type valve configurations
- Easily reset and returned to service after pressure equalization

Nominal Size in - [mm]	Compatible Lock Mandrel	Max OD in - [mm]	Min ID in - [mm]	Top Thread
1 1/2 - [38,1]	1,500 X	1,463 - [37,16]	0,78 - [19,71]	1 1/8 - 16 UN
2 - [50,8]	1.875 X	1.750 - [44.45]	0.970 - [24.64]	1 3/8-14 UN
2 1/2 - [63,5]	2.313 X	2.160 - [54.86]	1.380 - [32.51]	1 3/4-12 UN
3 1/2 - [88.9]	2.750 X	2,5 - [63,5]	1.620 - [41.15]	2 1/4-12 SLB
4 1/2 - [114.3]	3.813 X	3,5 - [88.9]	2.41 - [61.21]	3 1/4-12.5 SLB
5 - [127]	4.125 X	3.880 - [98.55]	2.41 - [61.21]	3 1/4-12.5 SLB
5,5 - [139,7]	4.562 X	4.440 - [112.78]	2.880 - [73.15]	4-12 SLB
7 - [177,8]	5.750 X	5.400 - [137.16]	3.50 - [88.9]	4 15/16-8 SLB

