

Surface safety valve

The surface safety valve is used to provide fast response valve closure for isolating the well in the event of an emergency.

Expro surface safety valves are hydraulically actuated, failsafe gate valves designed to close upon loss of control line pressure. The valve is used to quickly shut in the well in the event of a leak overpressure or failure of any of the downstream well test equipment.

The valve is used in conjunction with an emergency shutdown system (ESD) and normally installed upstream of the choke manifold. The valve is remotely operated either manually by push button or automatically triggered by high/low pressure pilots.

The surface safety valve is normally equipped with hammer unions, but can be fitted with hub connections or API 6A flanges.



Features and benefits

- Can be used as a standalone ESD system
- Provides immediate well isolation in event of downstream equipment failure
- Prevent overpressure to downstream equipment
- Failsafe remote activation
- Reduces the exposure to personnel in the event of an emergency

Applications

- Onshore and offshore oil and gas well testing and clean-up operations
- Surface pressure barrier in addition to the primary or master valve on a surface test tree

Technical specifications

Nominal diameter	Working pressure	Temperature rating	Weight	Dimensions	Design code and service
4 1/16"	5,000 psi (345 bar)	-20°F – 250°F (-29°C – 121°C)	545 kg (1,200 lb)	3.6m x 2.1m x 1.2m (1.1ft x 0.6ft x 0.4ft)	API 6A NACE MR-01-75
5 1/8"	5,000 psi (345 bar)	-20°F – 250°F (-29°C – 121°C)	545 kg (1,200 lb)	3.6m x 2.1m x 1.2m (1.1ft x 0.6ft x 0.4ft)	API 6A NACE MR-01-75
3 1/16"	10,000 psi (690 bar)	-20°F – 250°F (-29°C – 121°C)	408 kg (900 lb)	3.9m x 1.6m x 1.1m (1.2ft x 0.5ft x 0.3ft)	API 6A NACE MR-01-75
3 1/16"	15,000 psi (1,034 bar)	-20°F – 250°F (-29°C – 121°C)	454 kg (1,000 lb)	3.9m x 1.6m x 1.1m (1.2ft x 0.5ft x 0.3ft)	API 6A NACE MR-01-75
3 1/16"	15,000 psi (1,034 bar)	-50°F – 400°F (-45°C – 204°C)	545 kg (1,200 lb)	5.1m x 4.3m x 2m (1.6ft x 1.3ft x 0.6ft)	API 6A NACE MR-01-75

Note: Other sizes, configurations and pressure ratings are available to meet most applications. For more information contact your local Expro representative or email welltesting@exprogroup.com