

Well Flow Management

Well Testing | Well control

In Line Relief Valve

The stand- alone, skid mounted relief valves provided by EXPRO are intended to protect the low-pressure pipework downstream of the heat exchanger (or choke if a heat exchanger is not used) from over-pressure, when flowing on separator bypass.

It is essential to protect equipment and personnel from the obvious hazards of an overpressure situation by using a Stand-alone relief valve.

The skid-mounted valves comprise a very basic design with a tee piece orientated so the tee rises vertically. A relief valve is then fitted to this with a high-pressure relief line, which is normally teed into the vent line from the separator and ran to the flare boom or overboard. The relief skid vent line is sized for the application that it will be used for.

These assets are traditionally designed and available in either single or dual valve configuration of varying sizes and pressure ratings.

Applications

- Onshore and offshore oil and gas well testing and clean-up operations

Features and benefits

- Provides immediate de-pressurization of process systems in the event of system overpressure
- Automatic activation at pre-set levels
- Reduces the exposure to personnel and equipment in the event of an emergency



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Technical specifications		
Design service		
ASME B16.5	SI 2306 (1998)	SI2307 (1998)
API 520	API 526	API527
PED 97/23/EC ¹ .	D-SR-007 ² .	
DNV-OS-E101 ³ .	H2S, NACE MR 01-75	
Principal dimensions (Nominal)		
Skid height (horizontal)	4.40 ft	1.34 m
Skid width (horizontal)	2.95 ft	0.90 m
Skid length (horizontal)	4.60 ft	1.40 m
Weight	1,433 lbs	650 kgs
Operational limits		
Manifold working pressure (max)	1480 @ 100 °F	102 bar
Test pressure (max)	2220 psig.	153 bar
Relief valve set pressure	1300 psig.	89 bar
Gas rates (min / max)	5.00 - 80.00 MMSCF/D	5,898.9 – 55,555.6 m ³ /h
Oil / water rates (min / max)	4,000 – 15,000 bbls/d	26.5 - 99.37 m ³ /h
Working temperature range	-20°F to 100°F	-29°C to 38°C
Ambient environmental range	-20°F to 140°F	-29°C to 60°C

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