



The **EORV™** Series

Enhanced Oil Recovery Valve

EORV™



The BS&B Enhanced Oil Recovery Valve (EORV™) is a high pressure overpressure relief valve designed to protect chemical, liquid and injection pump skids from the dangers of overpressure. The valve's set pressure is controlled by a precision buckling pin that is calibrated to respond to the forces generated by inlet pressure acting on the valve plug. When the pin activates, the valve plug lifts to achieve a full diameter flow area, protecting the injection pump system.

The EORV reaches full-bore relief in milliseconds to prevent damage to pumps and systems. Its design allows the EORV to be 'field-reset' while remaining installed after an overpressure event. The EORV is reset by replacing a calibrated valve pin, and within minutes, the EORV is once again ready-for-use.

The body of the EORV is constructed from a choice of carbon steel, stainless steel, Inconel®, Duplex or Super Duplex. Special materials are available upon request.

Features

- Size 0.8125 inch x 0.8125 inches (20 x 20mm). Larger sizes available upon request
- Full bore relief for maximum flow capacity; 1.164 GPM, SQ. RT. PSID for liquid
- Fast acting valve reaching full relief in less than 15 milliseconds
- Suitable for liquid and two-phase flow
- Higher flow capacity than equivalent sized relief valve
- ANSI / ASME; EN / DIN; API; JIS flange compatibility
- ASME "UD" stamped, Section VIII Division I
- Pressure Equipment Directive "CE" marked

Benefits

- Designed to protect high pressure injection systems
- Fast response to prevent pump and pipeline damage
- Reset within minutes
- Orifices from 1/4" diameter
- Set pressures of 5000 - 20000 psig (344 - 1378 barg)
- Leak tight design
- Simple and reliable installation
- Superior corrosion resistance from choice of materials

EORV™ Capabilities

Size				Set pressure range		Media	Code Section
Inlet size		Outlet size		psig	barg		
Inch	mm	Inch	DN				
0.8125	20	0.8125	20	5000 - 20,000	344 - 1378.00	Liquid	VIII Div 1 / PED

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