

PRESSURE CONTROL TECHNOLOGY

BY PIPER

Kinzbach Pressure Relief Valves

UNIQUE HIGH
PERFORMANCE
RELIEF VALVE
DESIGNS FOR
SEVERE SERVICE
APPLICATIONS



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OILFIELD PRODUCTS
a Piper International, Inc. Company



Piper's Kinzbach Safety Relief Valves

THE PERFECT RELIEF VALVE DESIGN FOR SEVERE SERVICE APPLICATIONS

Features

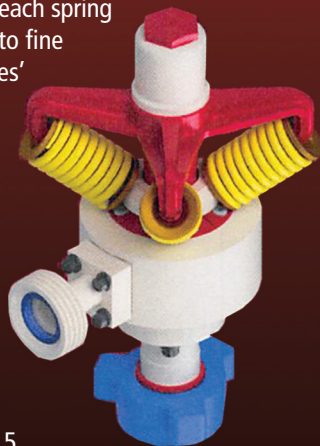
- The Kinzbach's self contained mechanical design eliminates the need for outside pressure sources/actuators for operation.
- The Kinzbach's unique 'Full Open Relief' design keeps the valve fully open until the reset pressure is reached. NO THROTTLING, which quickly damages conventional relief valve seats.
- Kinzbach valves are designed to automatically reset which eliminates the safety hazard of personnel having to manually compress a spring load.
- The Kinzbach Model 113 and 213 have working pressures up to 15,000 psi. The Model 313 is maximum rated at 10,000 psi.
- Model 113, 213 and 313 valves offer bolt on end connections for both the inlet and outlet. This provides the option to change end connections for different applications.
- For reliable service in severe erosion applications, valves can be fitted with a tungsten carbide positive orifice that is a slightly smaller diameter than the seat, which moves the erosion point from the seat to the positive orifice on the downstream end.

The Kinzbach Pressure Relief Valve is designed for service in both low and high pressure pumping applications, as well as gas service in wellhead casing annulus relief applications. Each Kinzbach valve model provides a relief pressure range that can be set between 150 psi to its full working pressure, up to 15,000 psi.

Its totally unique design makes the Kinzbach Valve the only valve that will fully open when operating pressure exceeds the valve's relief set pressure and will remain fully open until the pump pressure falls below 65% of the relief valve's pressure setting, at which time the valve automatically resets itself.

The valve's elastomer/metal seat design produces "bubble tight" closures that can be repeated hundreds of times without repair.

Models 113 and 313 have a pressure adjustment nut located inside the spring nut cap. This allows for an adjustable pressure range within each spring combination to fine tune the valves' relief setting.



Model 113-E15
With 2" Fig. 1502 Male X Female Connection

Model 213 does not have a pressure adjustment nut, but by changing spring combinations, seat diameter, piston diameter, and bushing diameter, the valves relief pressure can be set within 50 psi of the customers requested relief pressure setting.



Model 213 10M C.W.P.
With 1-13/16" API 10M RTJ Flanged End Connection

Your Piper Oilfield Products Representative

1715 South Lowery Avenue
Oklahoma City, OK 73129 USA
Tel 405-670-4456
Fax 405-672-6159
sales@piper-oilfield.com
piper-oilfield.com

