

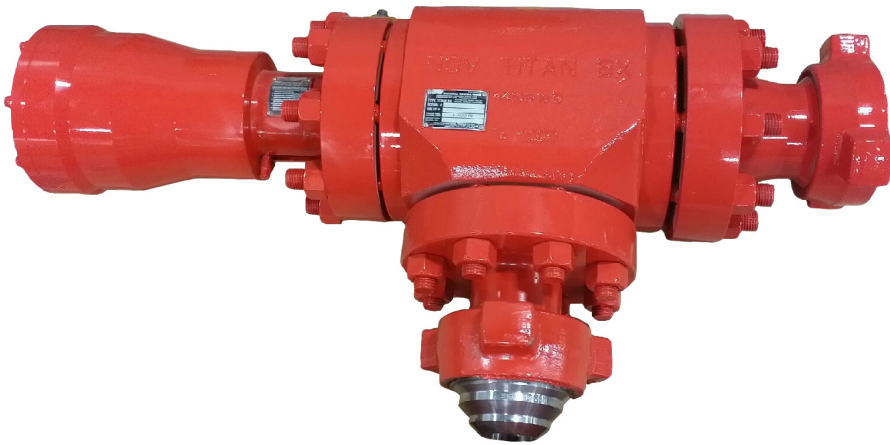
# Titan Class "BX" Automatic Reset Relief Valve

- **HIGH PERFORMANCE AUTOMATIC FAIL OPEN RESET RELIEF VALVE**
- **A NEW RELIEF VALVE WITH AN ADVANCED DESIGN CONCEPT**
- **DURABLE PRIMARY SEALING ELEMENT**
- **WEAR RESISTANT SLEEVE INSERT AND PISTON CAP**

Mission's Titan Class BX is the only air-operated, fully automatic reset relief valve in the marketplace today that fails open.

When pump pressure exceeds set pressure, the Titan Class BX Reset Relief Valve automatically opens through an electronic system. After a time delay pre-selected by the operator, the valve will automatically close using instrument air pressure, eliminating the need for manual reset. In the event that the rig loses power, the valve will automatically open.

The unit is ISO 9001:2008, ABS and DNV type approved as well as can be CE/PED certified.



Titan Class BX Automatic Reset Relief Valve



Control Panel



NOV M/D Totco™ Mud Cup Transducer



Pilot Valve Box

## FEATURES AND BENEFITS:

### Valve Assembly

- Easily serviced through the bonnet end without removing valve from the line
- Valve operates using instrument air pressure greater than 95 psi
- Titanium piston cap and seal retainer ring add extra durability and life to the valve
- Piston position indicator
- Minimal number of parts required for field repair
- Actuator completely removes piston from flow path
- Accuracy within less than 1% of full rated work pressure
- System comes complete with oilfield rated, high-level output pressure transducer
- Air pressure locked in the air actuator assembly keeps the valve closed
- Loss of air or power automatically opens the valve
- Mud pressure energizes the main seal and reduces leakage and premature washout of the seal retainer and piston
- Studded API 3-1/16 (BX154) 10,000 psi end connections
- Standard 1502 connections and API flanges available
- Pilot valve box attaches to the side of the valve
- Valve Temperature Rating: -22°F to 200°F (-30°C to 93°C)

### Control Box and Panel Assembly

- Compact design allows it to be mounted anywhere on the rig
- Consists of programmable transmitter and air solenoid valve
- One enclosure can operate up to six valves
- Safe area and Zone 2 enclosures are available
- Automatic or manual control option provides flexibility in pressure management and valve control
- Push and hold button to activate the touch screen feature
- External lights tell the operator which valves are open or closed
- External siren and horn signal the operator when a valve is opened
- External PLC touch screens eliminate the need to open the main enclosure when setting or resetting the valves
- External PLC simulation option allows for remote monitoring of the valves
- Doors on the control box can be locked by key to avoid unauthorized entry

[www.nov.com/mission](http://www.nov.com/mission)

[mission@nov.com](mailto:mission@nov.com)

9700 West Gulf Bank Road  
Houston, Texas 77040  
United States  
Phone: 281 272 7700  
Fax: 281 272 7791

 **NATIONAL OILWELL VARCO**

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