

50-4000 Series

Reduce time to production and maintenance cost

- Increase safety
- Improve operations
- Increase performance



Challenges

The combination of deeper wells and the increase in the length and use of subsea tiebacks have pushed technology and equipment to their operational limits. This includes topside equipment that is critical to the control and safe operation of offshore wells. HPUs now have to pressurize 10-20 mi / 16-32 km of control line with the same equipment that was developed for shallower wells. This can result in poor performance or failures that can have major ramifications on safety, production and the environment.

Challenges include:

- Slow fill rates of umbilical lines
- Unreliable performance of high pressure, water glycol regulators
- Increasing failure rates with longer umbilicals at higher pressures
- System failures when startup procedure not utilized
- Inaccurate control of subsea equipment upon operation
- Expense in delayed startup

The TESCOM Solution

We sought out to engineer a solution that accurately controls high pressure water glycol while decreasing pressurization time and extending the life of the regulator. The TESCOM 50-4000 Series is designed with an integrated bypass valve which controls large variations in flow rates at pressure up to 15,000 psig/1034 bar.

What does this mean for you?

- Reduced high pressure components and leak paths for increased safety
- Simplified startup procedures
- Improved operations by reducing set up time and less downtime
- Reduced maintenance costs through extended service life and increased regulator performance
- Accurate, repeatable pressure control with both high pressure / high flow pressurization capability

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Safety, Operation, Performance

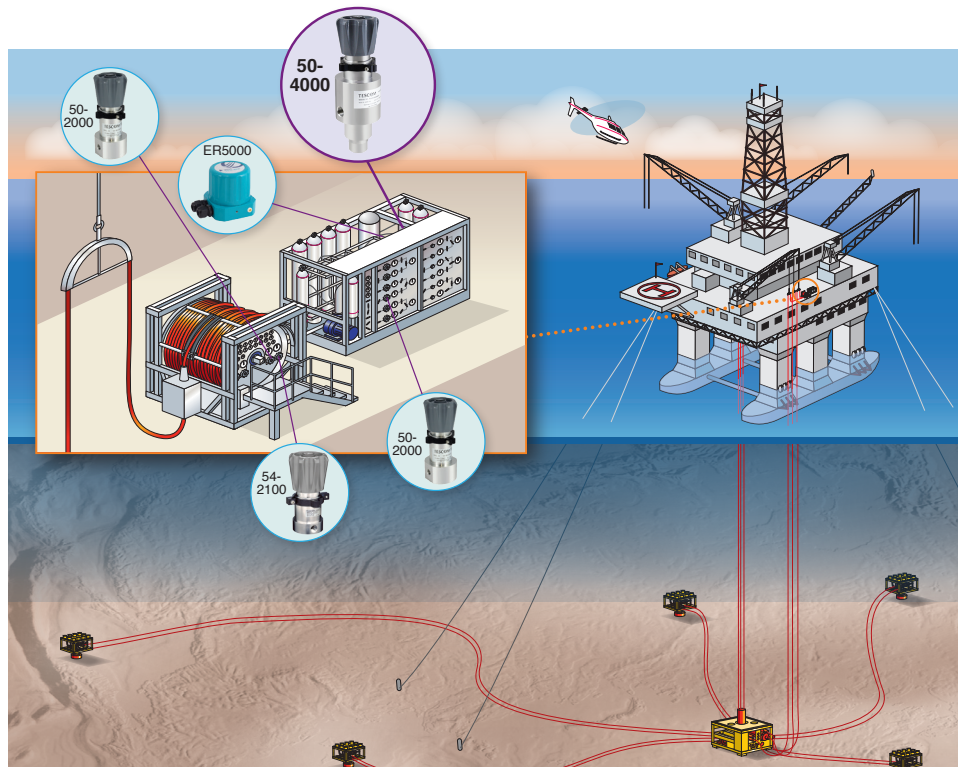
The TESCOM 50-4000 Series advantage.

Application

The TESCOM 50-4000 Series regulator with integrated bypass valve is a robust design that increases cycle life, performance and improves safety by reducing leak paths and unnecessary high pressure components. The 50-4000 provides accurate and consistent pressure control performance, even in the most demanding ultra deep water installations.

Specifications

- 316 Stainless Steel machined body construction
- Inlet Pressure: up to 15,000 psig / 1034 bar
- Outlet Pressure: up to 10,000 psig / 690 bar
- $C_v = 1.9$



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