

Oil & Gas Solutions



Pressure controls for your industry



TESCOM™


EMERSON™
Process Management

The best product for your application = peace of mind!



TESCOM™ understands the importance of being able to depend on your equipment and having the expectation that what you select will perform worry-free. You expect a superior product and require the service, support and training to install and use that product wisely and efficiently.

TESCOM™ fulfills those expectations. The consistent high quality, outstanding performance and reliability of TESCO products has made us the supplier of choice for customers like you for over 30 years!

Close collaborations with specifiers like you ensure we have the regulators and valves to meet your most demanding application requirements.

High Quality, Performance, Reliability ...



As a time-proven oil and gas component supplier, TESCO offers:

- Custom engineered designs to client specifications
- Control pressures up to 30,000 psig/2070 bar for hydraulic and gas media
- Individual testing for each regulator prior to shipment - absolutely no batch testing
- Fluid-specific designs for oils and water glycol applications
- Repair & overhaul service for all TESCO products
- Products designed and manufactured in the USA and Germany
- Products manufactured from locally sourced, high quality, fully-traceable materials
- A global network of sales & technical staff providing comprehensive pre- & post-order product support

Whatever the pressure, media or flow...

It is most likely we've experienced your application before.

TESCOM's extensive product range has been designed specifically to meet the demanding requirements of the oil and gas industry. Our global network of sales and application engineers will provide the right product to perform within your application parameters. If there's not an existing model, our Custom Solutions Team will build one for you!



Pressure Reducing
to 20,000 psig



Back Pressure to
30,000 psig



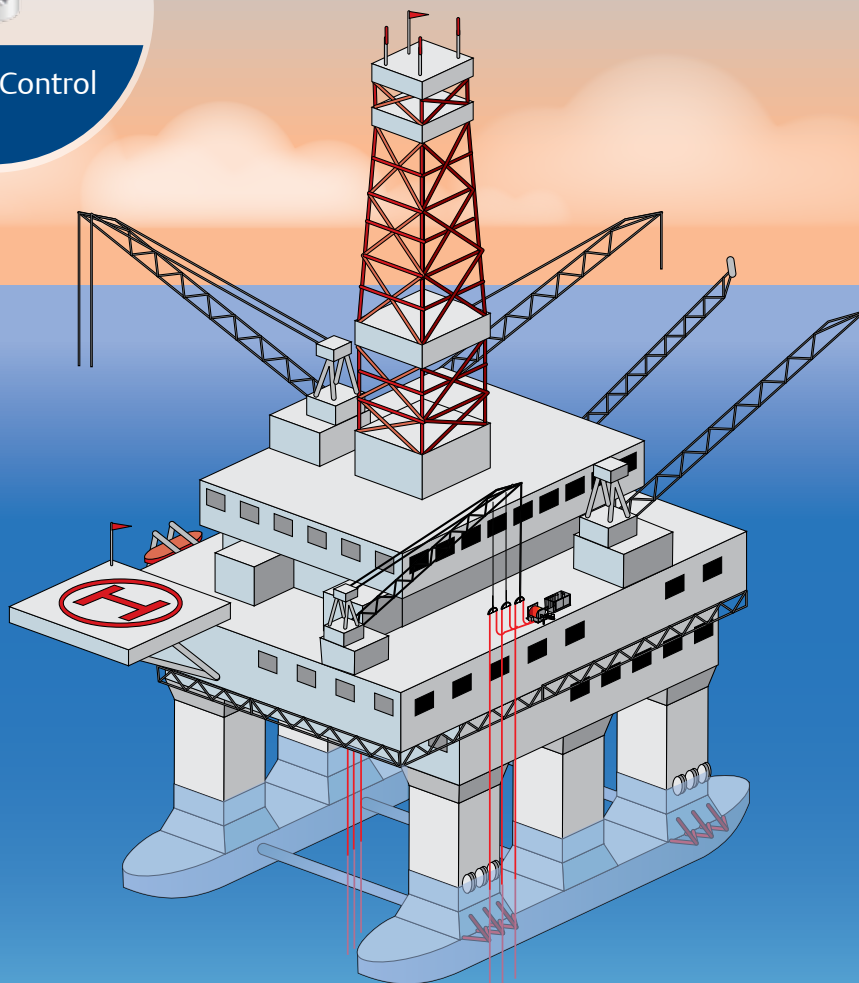
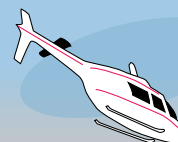
Remote Control



Spares & Servicing



Support & Training



Products for Water-Glycol Applications

Specifically designed for extended life in high pressure hydraulic applications, TESCOM regulators are ideal for use in wellhead control panels, subsea valve applications, chemical injections and hydraulic power units (HPU's).



50-2000
High Pressure



50-2200
Very High Pressure



54-2900
Back Pressure

PRODUCT REDUCING Product Series/Features	Inlet Pressure (maximum)	Outlet Pressure (maximum)	Flow Capacity	Body Material
• 50-2000 Series: High Pressure				
• Rugged design, high pressure applications	20,000 psig	20,000 psig	$C_v = .02$	316 SST & Nitronic
• Hardened metal to metal seats for heavy duty service	1380 bar	1380 bar	$C_v = .06$	
• Excellent resolution & repeatability due to tapered poppet design			$C_v = .12$	
• Meets or exceeds Class IV shutoff at all pressure ranges			$C_v = .30$	
• Mounting bracket standard				
• Segregated captured vent				
• Quick-change repair modules available				
• 50-2200 Series: Very High Pressure				
• Rugged design, high pressure applications	22,500 psig	22,500 psig	$C_v = .06$	316 SST & Nitronic
• Hardened metal to metal seats for heavy duty service	1515 bar	1515 bar	$C_v = 0.12$	
• Excellent resolution & repeatability due to tapered poppet design				
• Meets or exceeds Class IV shutoff at all pressure ranges				
• Segregated captured vent				
• Mounting holes in body with panel nut included				
• Quick-change repair modules available				

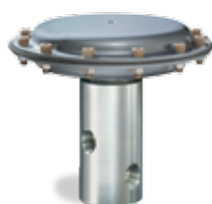
BACK PRESSURE Product Series/Features	Control Pressure (maximum)	Flow Capacity	Body Material
• 54-2900 Series: Back Pressure			
• Control pressures up to 10,000 psig	500, 1000, 1500,	$C_v = 4.3$	316 SST
• Bottom ported outlet	3000, 5000,		
• Hardened metal to metal seats for heavy duty service	10,000 psig		
• Choice of dome loaded, spring loaded or air actuation	35, 69, 103, 207,		
• Various process connections & sizes	345, 690 bar		

Products for Mineral & Synthetic Oil Applications

Used extensively by the global oil and gas industry for the past 30 years, our range of products for oil applications are renowned for their performance and reliability.



54-2000
High Pressure



54-2200
High Pressure & Flow



54-2800
Very High Flow

PRODUCT REDUCING Product Series/Features	Inlet Pressure (maximum)	Outlet Pressure (maximum)	Flow Capacity	Body Material
• 54-2000 Series: High pressure				
• Rugged design, high pressure service	20,000 psig	20,000 psig	$C_V = .06$	316 SST & Nitronic
• Hardened metal to metal seats for heavy duty service	1380 bar	1380 bar		
• Panel mount bracket standard				
• Specific model available to control logic pressure				
• NACE compatible model available				
• 54-2200 Series: High Pressure / High Flow				
• High flow capacity	10,000 psig	10,000 psig	$C_V = 2.0$	303 & 316 SST
• Hardened metal to metal seats for heavy duty service	690 bar	690 bar		
• Segregated captured vent				
• Air ratio or dome load options available				
• NACE compatible model available				
• 54-2800 Series: Very High Flow				
• Very high flow capacity	5000 psig	5000 psig	$C_V = 8.0$	303 SST
• Compact rugged design	345 bar	345 bar		
• Hardened seals & poppet provide excellent protection against shock & protection				
• Air ratio or hydraulic dome load options available				



54-2100
BPR/Relief Valve



54-2300
BPR/High Flow

BACK PRESSURE Product Series/Features	Operating Pressure (maximum)	Flow Capacity	Body Material
• 54-2100 Series: Back Pressure / Relief Valve			
• Setpoint repeatability exceeds that of conventional relief valves	30,000 psig	$C_V = .08$ $C_V = 0.60$	316 SST
• Accuracy: $\pm 1\%$ of pressure range	2069 bar		
• Hardened metal to metal seats for heavy duty service			
• Panel mount bracket standard			
• 54-2300 Series: Back Pressure / High Pressure / High Flow			
• Excellent crack to reseal ratio	10,000 psig	$C_V = 1.6$	303 & 316 SST
• High flow capacity	214 bar		
• Hardened metal to metal seats for heavy duty service			
• Spring, air or dome load options available			
• 54-2700 Series: Back Pressure / High Flow			
• Very high flow capacity	5500 psig	$C_V = 5.0$	303 or 316 SST
• Spring, air or dome load options available	380 bar		

Other TESCO products...

REMOTE CONTROL

In conjunction with one of TESCO's air or dome loaded regulators, the ER3000 Electronic Pressure Controller provides true distributed control of gaseous and hydraulic media.



ER3000
Electronic PID
Pressure Controller

ER3000 Series: Electronic PID Pressure Controller

- Fast, precise pressure control, accurate to $\pm 0.1\%$ (FSO)
 - Serial or analog setpoints
- Pressure control from vacuum to 20,000 psig/1380 bar
- Free Windows® tuning and interface software provided
 - Can also be controlled using other software packages
- NEMA 4X / IP 65 enclosure
- Explosion-proof versions available
 - USA: CSA and FM approval for Class 1, Division 1, Groups B, C and D
 - Europe: KEMA approval (II 2 G Eex d IIB + H2 T4)

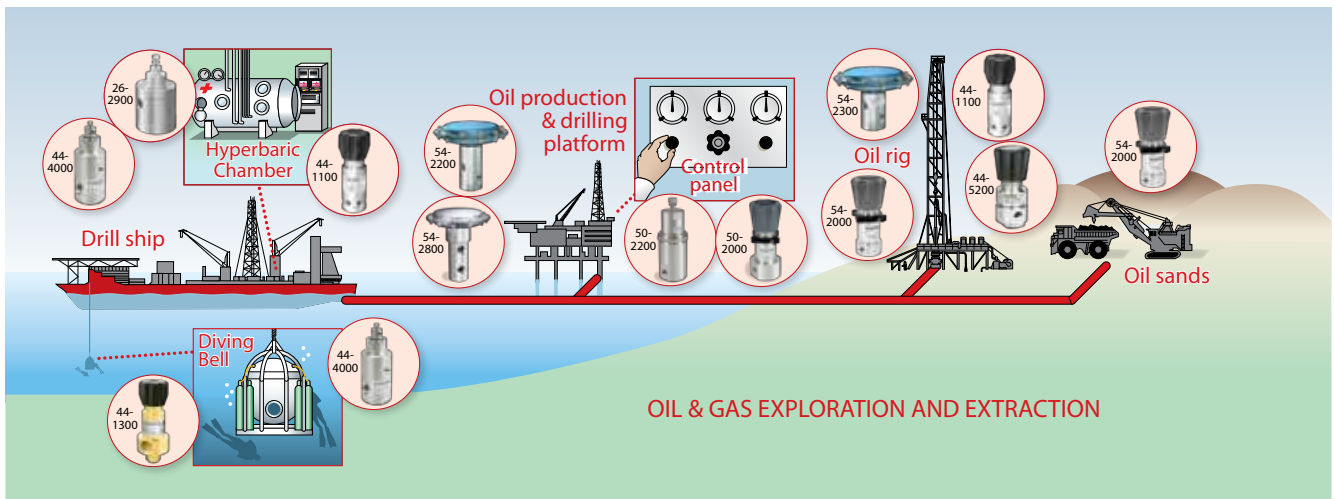
SPARES and SERVICING

Servicing at regular intervals extends the working life of your TESCO regulator and reduces the risk of costly downtime.



Kits and Service options

- Soft goods and/or repair kits are available for all regulator pressure ranges
- Fast repair modules are available for select models
 - Allows in-field servicing with minimum down time
- Overhaul and repair facilities in the US and Germany
 - Regulators fully assessed before repair
 - Products cleaned and re-tested prior to return
 - Repaired products supported by a 12 month warranty
 - A restored product minimizes risk of downtime and creates peace of mind!



Typical TESCO product applications

Subsea Control Systems
Wellhead Control Panels
Hydraulic Power Units
Blow Out Preventers
Flushing Skids & Pressure Testing Rigs
Chemical Injection Systems
Gas Compressor Monitoring
Process & Pipeline Instrumentation

Fuel & Lubrication Systems
Choke Control Consoles
Diverter Control Skids
Hydraulic & Pneumatic Utilities
Gas Metering Systems
Actuated Valves & Controls
Active Fire Suppression Systems
Emergency Breathing Air

Your worldwide pressure control partners:



1. Elk River, MN USA
na.tescom@emerson.com

2. Hamilton, UK
uk.tescom@emerson.com

3. Selmsdorf, Germany
eu.tescom@emerson.com

4. Dubai, UAE
mea.tescom@emerson.com

5. Shanghai, China
ap.tescom@emerson.com



**Emerson Process Management
Regulator Technologies, Inc.**

Americas
Worldwide Headquarters
310 East University Drive
McKinney, Texas 75069-1872 USA
T: +1 800 558 5853
T: +1 972 548 3574
F: +1 972 542 6433

TESCOM Corporation
12616 Industrial Boulevard
Elk River, Minnesota 55330-2445 USA
T: +1 800 447 1250
T: +1 763 241 3238
F: +1 763 241 3224

For further information visit www.emersonprocess.com/regulators

**Emerson Process Management
Regulator Technologies, Inc.**

Europe
Natural Gas: T: +39 051 4190611
Industrial: T: +39 051 4190606
LP-Gas: T: +420 2 710 35 607
TESCOM: T: +49 38823 31-0

**Emerson Process Management
Regulator Technologies, Inc.**

Asia Pacific
T: +65 6770 8337

Middle East
T: +971 4811 8100

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