

## TESCOM™ VT 3-Way Proportional Valve

**0** ZERO  
emissions

Efficient and reliable control  
of high-pressure media flows  
in hydrogen dispensing



### For industrial media diverter applications

**The TESCO™ 3-way proportional valve accurately controls diverting of high-pressure process media.**

- Engineered for reliable high cycle performance and longer cycle life compared to ball valve alternatives
- Actuate the TESCO VT proportional valve with the TESCO ER5000 controller or ASCO™ proportional pilot valve for automated remote control
- Automated remote control of fluid concentrations improves operating efficiency and process control
- Compact design fits into tight industrial systems and hydrogen dispensing stations
- Suited for applications with pressures up to 1,034 bar

### Improve hydrogen dispensing system control

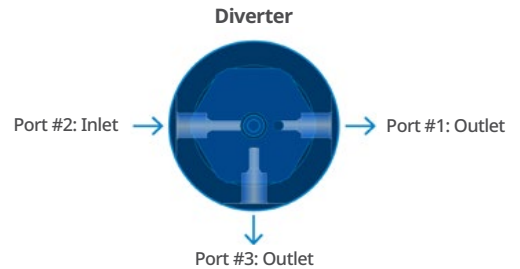
- Pre-cooled hydrogen temperature control is critical for safe and fast hydrogen fuel dispensing in back-to-back fills with 350 bar and 700 bar nozzles
- The TESCO VT 3-way proportional valve with automated remote control makes it easy to divert the required portion of the fuel through a chiller
- Designed for high cycle usage in hydrogen, the proportional diverter valve helps station operators control costs and optimize the operation of energy-intensive hydrogen chillers

**TESCOM™**

  
**EMERSON™**

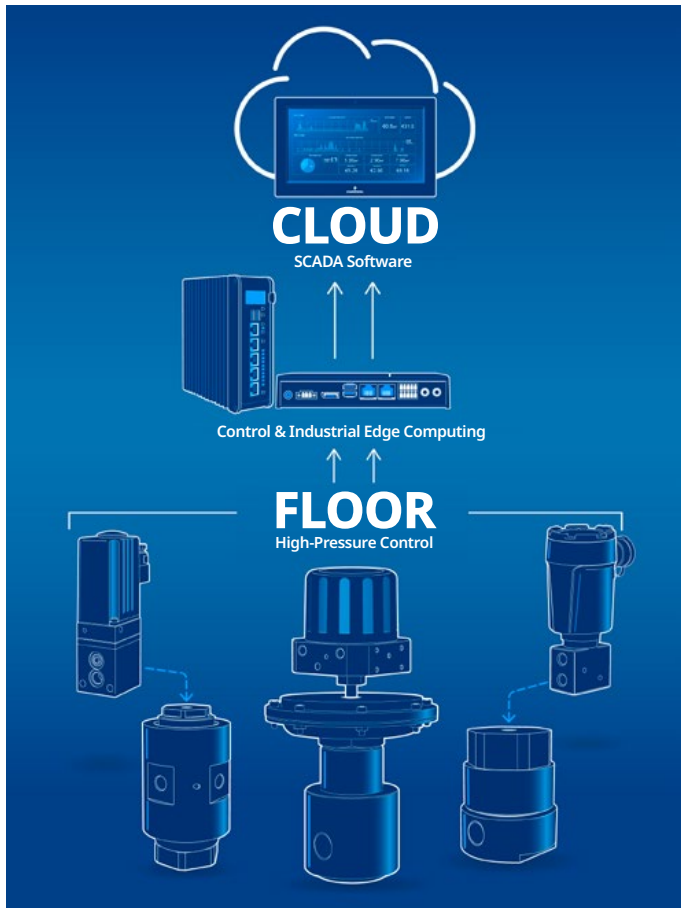
# TESCOM high-pressure valves deliver long-lasting performance

- Valve engineered with corrosion-resistant stainless steel body
- All wetted parts compatible with hydrogen applications
- Prevent media from escaping the system with leak capture port feature
- Local manufacturing supports faster build-out of hydrogen dispensing stations



## Floor to Cloud™ approach for green hydrogen dispensing

Hydrogen refueling stations are essential to the scalability of carbon-free transportation. These stations must operate safely, reliably and efficiently, with minimum downtime and fill times comparable to traditional fuel dispensing. As part of a Floor to Cloud™ approach, the TESCOM VT 3-way proportional valve can be combined with a pneumatic controller such as the TESCOM ER5000 controller and edge device technology to provide real-time control of widespread dispensing networks from any location.



### TESCOM VT 3-WAY PROPORTIONAL VALVE

Operating Pressure	0-1,034 bar (0-15,000 psi)
Pilot Pressure	6.9-8.3 bar (100-120 psi)
Temperature	-34°C to +85°C (-30°F to +185°F)
Flow Capacity	Cv = 0.75
External Leakage	Bubble Tight
Hazardous Location Certification	ATEX IIG Ex h IIB+H2 T6 T1 Gb
Materials Contacting Line Media	316L 1.4435 SST A286 SST POLYIMIDE URETHANE



For more information on the TESCOM VT 3-way proportional valve, scan the QR code or visit: [www.Emerson.com/en-us/catalog/tescom-vt](http://www.Emerson.com/en-us/catalog/tescom-vt)

**TESCOM™** For more information:  
[www.Emerson.com/TESCOM](http://www.Emerson.com/TESCOM)

