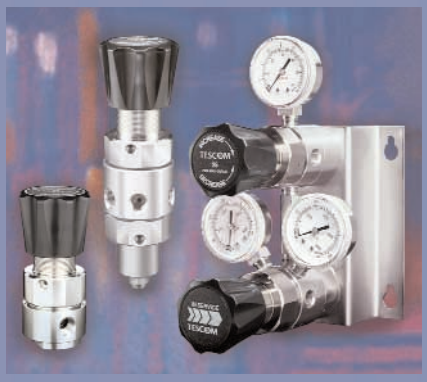
Pressure Control Solutions for Petrochemical and Analyzer Sampling Systems



Tescom can provide pressure control solutions for your gas or liquid sampling system applications.

We offer over 50 standard regulator and valve models that control pressures from sub-atmospheric to 20,000 PSIG . . . and we have the modifications necessary to meet the toughest applications!

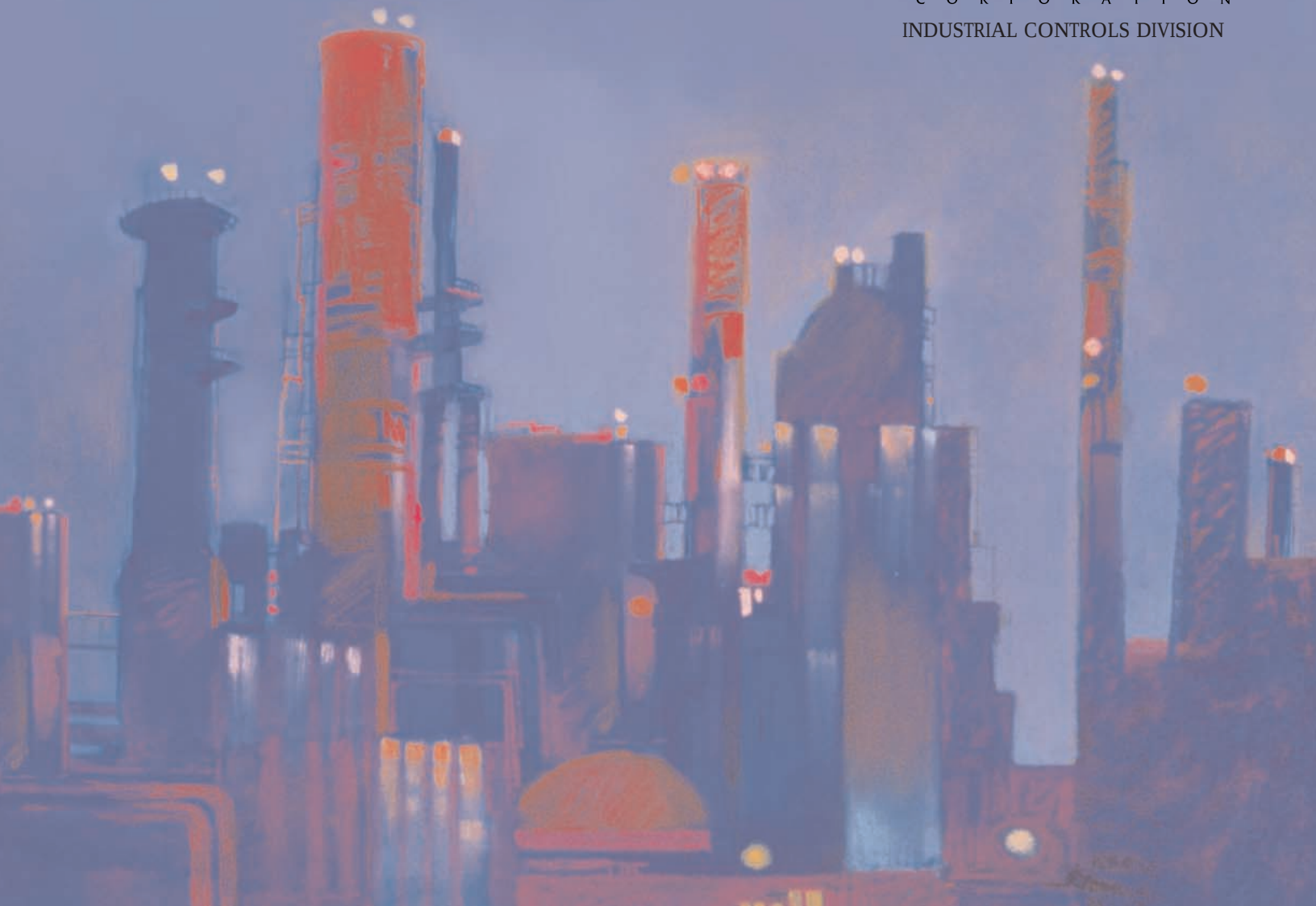
Low pressure/low flow models, as well as pressure reducing, back pressure, absolute pressure and two-stage styles are available. Most regulators may be dome loaded for lethal gas or hard to reach locations.

Steam or electrically heated vaporizing regulators provide rapid temperature conversion and a long service life without media buildup.

Further Tescom advantages:

- Teflon®, PCTFE, and Vespel® softgoods
- Brass, 316 SST, Monel®, Elgiloy®, or Hastelloy-C®construction
- Very low internal volume maintains sample accuracy
- Metal-to-metal diaphragm seals enhance leak integrity
- Inert construction materials keep media clear
- Efficient, compact design
- Long service life, easy repair

TESCOM
CORPORATION
INDUSTRIAL CONTROLS DIVISION



Standard Pressure Regulators for Sampling Systems

04 Analyzer /Lecture Bottle

- Compact, corrosion resistant and economical
- 316 SST construction
- 1/4" or 1/8" NPT porting
- Minimal internal volume allows rapid purging
- Inlet: 3500 PSIG maximum
- Outlet: 0-30, 0-60 or 0-100 PSIG

44-1100 High Pressure

- Excellent sensitivity through a wide range of pressure settings
- Unbalanced stem assists positive shut-off
- Standard 15 micron internal filter to protect seals
- Inlet pressure: 10,000 PSIG maximum
- Six outlet pressure ranges up to 6000 PSIG

44-2200 All Purpose

- Compact, economical, accurate
- 316 SST construction (Hastelloy® or Monel® optional)
- H_2S modification available
- Metal-to-metal diaphragm seal
- Temperature compensated version also available
- Inlet: 400 or 3500 PSIG maximum
- Outlet: 1-25, 1-50, 1-100, 2-250, 3-500 PSIG

44-2300 Back Pressure

- Controls upstream pressure
- Compact, economical, accurate
- 316 SST construction
- Metal-to-metal diaphragm seal
- Control pressure ranges: 1-25, 1-50, 1-100, 2-250 PSIG

44-2600 'Carrier' Gas

- Inlet: 400 or 3500 PSIG maximum
- Carrier gas regulator
- Very sensitive
- Low flow available: C_V=0.02 (30 to 100 SCCM)
- Metal-to-metal diaphragm seal
- Captured vent bonnet optional
- Outlet: 1-25, 1-50, 2-100, 2-150 PSIG
- Minimal droop, excellent repeatability

44-2800 Corrosive /'Dirty' Service

- Strong positive shutoff seal prevents pressure creep
- Hastelloy-C® trim available
- Captured vent bonnet
- Inlet: 3000 PSIG mamum
- Outlet: 2-25, 2-50, 2-100, 2-150 PSIG

44-3200 High Flow

- High flow facilities regulator
- Flow: C_V=1.0 (C_V=1.8 optional)
- Balanced main valve
- Inlet: 500 or 3000 PSIG maximum
- Outlet: 3-25, 5-50, 5-100, 5-150, 5-250 PSIG

44-3400 Two Stage

- Minimizes decaying inlet
- 316 SST construction
- Inlet: 3500 PSIG maximum (6000 optional)
- Outlet: 2-25, 2-50, 2-100, 2-150, 2-250 PSIG
- Flow capacity: Cv = 0.05
- Interstage relief port standard

44-4600 Accurate / Low Outlet Pressure Reducing

- Controls vacuum to positive pressures
- Excellent sensitivity
- Metal-to-metal diaphragm seal
- Inlet: 120, 400 or 3000 PSIG maximum
- Outlet: 28" Hg vac.-15 PSIG

44-4700 Accurate /Low Outlet Back Pressure

- Controls upstream pressure
- Vacuum to positive pressure control
- Control ranges: 28" Hg Vac - 150 PSIG

44-4800 Vaporizing

- Steam or electric version
- Thermostatically controlled heating unit (meets NEC code Class 1, Division 1, Groups B, C and D)
- Construction materials resist corrosion, high temperature
- Large coils maximize heat transfer to provide rapid temperature conversion
- Designed to reduce clogging
- Media heated before and after pressure reduction (choice of inlet or outlet side only)
- Inlet: 3500 PSIG maximum
- Outlet: 1-25, 1-50, 1-100, 2-250 or 3-500 PSIG
- Flow: C_V=0.06

Insulating Blanket for 44-4800 (above)

- Minimizes heat loss
- Re-usable design secures easily with velcro

44-4800 electric heated version hown

FL 7000 Flow Limit Valve

- Designed to shut off media flow automatically when flow exceeds a pre-set limit
- Flow range: 0-6 scfm (N_2 @ 1000 PSIG)
- Choice of field adjustable or factory pre-set limit
- Operating pressure range: 100-1000 PSIG
- Flow range is adjustable under pressure
- Protects downstream personnel and equipment from exposure to hazardous media
- Normally open. Closes to bubble tight
- Typical applications include gas control systems, purge systems, gas systems, gas analyzers, H_2 gas systems, sampling systems, research laboratories

Automatic Changeover Regulators

- Provide continuous gas service so unscheduled downtime is eliminated
- Ideal for laboratory and production instrumentation requiring a continuous gas supply

ACS012 Automatic Changeover System

- Delivers 10 SCFM at 100 PSIG outlet pressure
- Inlet: 400 or 3500 PSIG maximum
- Delivery ranges up to 250 PSIG

CS-2200 Changeover System

- Combines a single body changeover regulator, three gauges, a bracket and line regulator
- Easy to operate
- Inlet: 3500 PSIG maximum
- Outlet: 0-25, 0- 50, 0-100 & 0-150 PSIG

CR441800 High Pressure Changeover Regulator

- Single body changeover design
- Easy to operate
- Inlet: 3500 PSIG maximum
- Outlet: 500 to 1000 PSIG
- Piston style sensor

CC Metering Valve

- Wide pressure differential: 28" Hg Vac - 10,000 PSIG
- Maximum flow capacity of C_V = .00005
- 316 Stainless Steel body construction
- Very precise flow control: 20 turns to full open

ER3000E Explosion Proof Electropneumatic PID Controller

- Improve accuracy, eliminate droop or automate your sampling system!
- Rugged FM approved enclosure for Class I, Division 1, Group B, C and D locations
- All ports are protected with flame arrestors
- The ER3000 can be used with a wide selection of pressure regulators for gas and liquid control from vacuum to 15,000 PSIG with flow rates from C_V = .02 to 45

Pressure Reducing Regulators

H_2S Sour Gas Applications

H_2S Service-

- 44-226X-24X-092
  C_V = 0.06 & 0.15

H_2S Service / corrosive environment /high temperature-

- 44-226X-24X-115
  C_V = 0.06 & 0.15
  Operating temperature: -40°F to +400°F

H_2S service / corrosive environment-

- 44-226X-24X-229
  C_V = 0.06 & 0.15

H_2S service / high pressure / NACE compatible

- 44-116X-24-023
  C_V = 0.06

Corrosive Environments

- 44-226X-24X-034
  C_V = 0.06 & 0.15
- 44-266X-24X-007
  C_V = 0.06 & 0.15

Corrosive & 'Dirty' Service

- 44-286X-241-135
  C_V = 0.16

Carrier Gas Applications (low flow: 30 cc to 100 cc / min)

- 44-226X-241-031
  C_V = 0.02
- 44-226X-241-449
  C_V = 0.02
- 44-266X-241-122
  C_V = 0.02

High Temperature

- 44-266X-241-115
  C_V = 0.02
  Operating temperature: -40°F to +400°F
- 44-466XS24-112
  C_V = 0.24
  Operating temperature: -40°F to +400°F

Temperature compensated—

- 44-266X-24X-348
  C_V = 0.06 & 0.15
  Operating temperature: -30°F to +400°F

High Temperature Pressure Reducing Vaporizing Regulators

Steam or electrically heated (110 VAC or 230 VAC)

NACE Compatible

- 44-486X-241X001
  C_V = 0.02

'Dirty' Gas Service

- 44-486X-241X010
  C_V = 0.02

Special Service – Extremely Light Hydrocarbons

- 44-486X-241X002
  C_V = 0.02

Back Pressure Regulator Modifications

Corrosive Service

- 44-236X-24-009
  C_V = 0.08

Corrosive Environment

- 44-236X-24-013
  C_V = 0.08

H_2S Service / Corrosive Environment

- 44-236X-24-014
  C_V = 0.08

High Temperature / Low Pressure

- 44-476X-24-003
  C_V = 0.04
  Operating temperature: -40°F to +400°F

Low Pressure / Corrosive Environment

- 44-476X-241-001
  C_V = 0.04

Low Pressure / High Flow

- 44-476X-24-010
  C_V = 0.40

Two Stage Regulator Modifications

Corrosive Environment

- 44-346XS24-010
  C_V = 0.05

Low Flow Applications

- 44-346S24-057
  C_V = 0.02

Metering Valve Modification

Capillary Columns

- CC-A16A21APK
  C_V = 0.00005 & 0.00125
  300°F maximum temperature rating
  20 turns to full open
  Vacuum to 10,000 PSI

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