Specifications

For other materials or modifications, please consult TESCOM.

FLUID MEDIA

Non corrosive/corrosive gases and mixtures up to high purity of 6.0 (99.9999 Vol%)

OPERATING PARAMETERS

Pressure rating per criteria of ANSI/ASME B31.3

Maximum Inlet Pressure

4350 psig / 300 bar

Outlet Pressure Range

50/101/145/174/217/290/507/725/870/1450/2175 PSIG* 3,5/7/10/12/15/17/20/35/50/60/100/150 bar *

Material

Brass or Stainless Steel

Leak Rate

10⁻⁷ mbar l/s He

Operating Temperature

-4°F to 158°F / -20 °C to 70 °C

Nominal Flow Rate (Air 145 PSIG/10 bar Outlet Pressure)

 $1Nm^3/h$ [0.6 scfm] reduced version for H₂/He, Cv = 0,06

9 Nm 3 /h [5.3 scfm], $C_V = 0.06$

15 Nm 3 /h [8.8 scfm], $C_V = 0.15$

MEDIA CONTACT MATERIALS

316 Stainless Steel or Nickel-plated Brass

Diaphragm

316L Stainless Steel

OTHER

Inlet Port Type and Size

G 3/8" female with compression fitting Compression fitting 6 mm

Outlet Port Type and Size

Process Outlet: G 1/4" Purge Gas: G 1/4" Relief Valve: M 12x1 **

Cleaned for Oxygen Service

Weight (approximately)

17.6 lbs / 8.0 kg for 2x1 cylinder 7.7 lbs / 3.5 kg for 1 cylinder

- Adapters to all metric and imperial tube sizes available! Please check data sheet "Fittings" for adaptors
- ** Adapter PIN to metric tube available! Please contact TESCOM.



PANEL FOR 1 CYLINDER WITH CONTACT GAUGE



DUAL STAGE COMPACT PANEL **AUTOMATIC CHANGEOVER WITH CONTACT GAUGES**

The TESCOM Compact Panel is a central gas supply unit for the pressure control of analytical gases in laboratory facilities. Depending on the requirements, these units switch over to a spare cylinder in order to enable a continuous gas supply. The use of contact gauges allows the monitoring of empty gas cylinders.

Applications

- For inert, corrosive, flammable and specialty gas pressure reduction
- Central gas supply for the distribution of gases in laboratory applications
- Supply of gases for laser cutting applications
- Various other processes requiring continuos gas supply

Features and Benefits

- Monoblock construction with reduced fitting and pure metal to metal sealing for high leak integrity
- Low internal volume with no thread in contact with media to maintain the gas purity and Short purge time when changing the cylinders
- Built-in diaphragm purge and shutoff valve for high leak tightness and maintain the gas purity
- Stainless Steel mounting plate for corrosive environment
- Compact in size, fits into standard gas cabinets even 9.84 inch /25 cm grid dimension
- Relief valve is standard (pipe away outlet is optional)

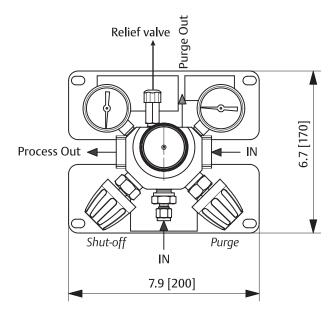


^{*} Outlet pressure range depends on compact panel version

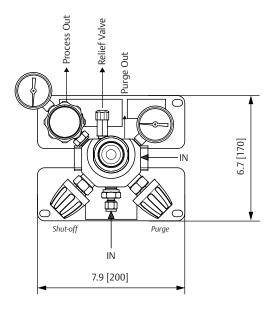
COMPACT PANEL

Compact Panel Drawing

KP1 (Compact panel, 1 cylinder, standard manometer)



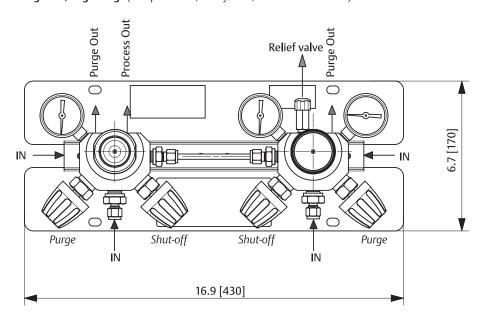
KP12 (Compact panel, 1 cylinder, dual stage)



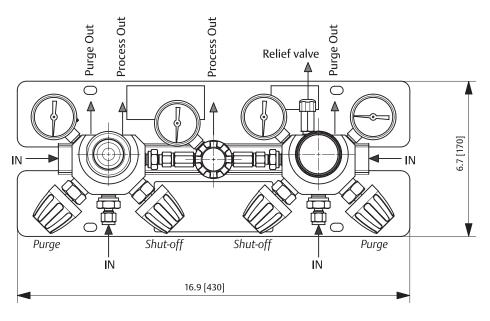
All dimensions are reference & nominal Metric [millimeter] equivalents are in brackets

Compact Panel Drawing

KPA – **Automatic changeover, single-stage** (Compact Panel, 2x1 cylinder, standard manometer)



KPA2 – **Automatic changeover, dual-stage** (Compact Panel, 2x1 cylinder, standard manometer)

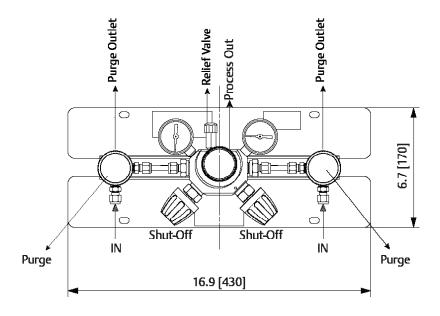


All dimensions are reference & nominal Metric [millimeter] equivalents are in brackets

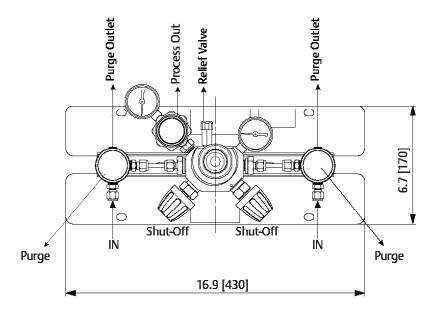
COMPACT PANEL

Compact Panel Drawing

KPME -Manual changeover (for 2x1 cylinder, manual changeover, with relief valve)



KPME2 – **Manual changeover** (Compact Panel, 2x1 cylinder, manual changeover with relief valve dual stage)



All dimensions are reference & nominal Metric [millimeter] equivalents are in brackets

Compact Panel Part Number Selector

Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.

Example for selecting a part number:

UPSTREAM PRESSURE
PSIG / BAR
Blank – 4350 /300 1–1450 / 100 CO ₂ /Nitrous oxide 6–232 / 16 Liquid gas Ammonia ***** only SST

^{*} Double ferrule fitting / ** DIN 477-1 / *** DIN 477-5 / **** only Stainless Steel

Please reference data sheets "Accessories for Panels" and "Fittings" for additional accessories for compact panel.

Please reference data sheet "System Components for Compact Panels" for information about annunciator system and emergency switch-off components.".



COMPACT PANEL

