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)

 $1 \text{Nm}^3 / \text{h} [0.6 \text{ scfm}] \text{ reduced version for H}_2 / \text{He, Cv} = 0.06$

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

Body

316 Stainless Steel or Nickel-plated Brass

Diaphragm

316L Stainless Steel

SONSTIGES

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 **

Cleaning

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

- 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

- A few internal connections and free volume through monoblock construction with precise, pure metal seated connection port and completely unthreaded wetted surface
- Suitable for ECD (Electron Capture Detector) applications
- · Short purging time when changing cylinders
- Easy and quick to maintain a P & ID is located on front of the panel
- Stainless Steel mounting plate for corrosive environments
- Very compact design fits into standard gas cabinets even 9.84 inch /25 cm grid dimension
- All versions contain a filter element in the inlet





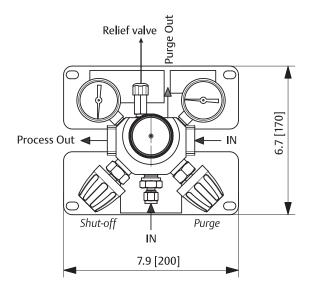


^{*} Outlet pressure range depends on compact panel version

Compact Panel Drawing

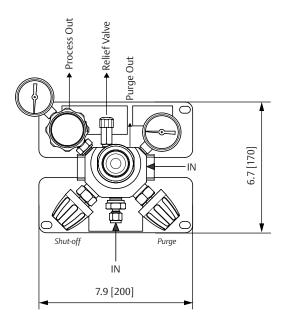
KP1

(Compact panel, 1 cylinder, standard manometer)



KP12

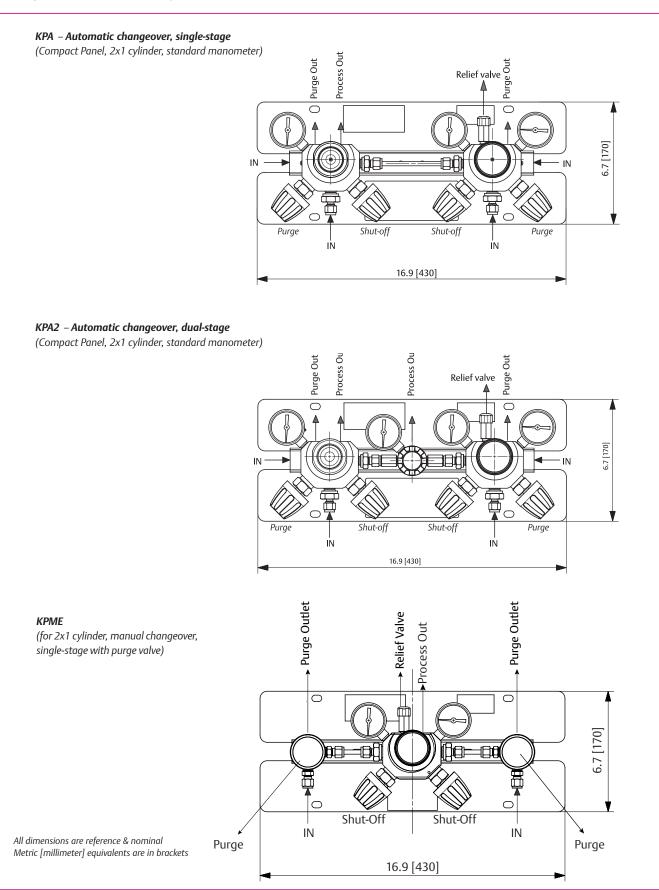
(Compact panel, 1 cylinder, dual stage)



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



Compact Panel Drawing





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:

KPA2-	6	SM	1	R	Т	Α	Α	14	F	1
BASIC SERIES	MATERIAL	INLET PRESSURE DISPLAY	OUTLET PRESSURE PSIG / BAR	PERFOR- MANCE	LABEL	CONNECTION PROCESS *	CONNECTION FOR DISCHARGE *	GAS GROUPS CONNECTING BEND PN 200M * *	ACCESSORY	UPSTREAM PRESSURE PSIG / BAR
KP1 1 cylinder KP12 1 cylinders dual stage KPA 2x1 cylinders, automatic changeover, single stage KPA2 2x1 cylinders, automatic changeover, dual stage KPME 2x1 cylinders, manual changeover	1 – Messing 6 – Edelstahl	SM – Standard gauge KM – Contact gauge EX – Inductiv contact gauge PS – Standard pressure transducer PT – Explosion tested pressure transducer	1- 145/10 2-290/20 3-507/35 4-870/60 5-1450/100 6-2175/150 7-101/7 omly KP12 8-217/15 9-246/17 only KP12 10-174/12 only KPA2 11-725/50 only KPA 12-50/3,5 only KP12	blank – Standard 9 Nm³/h [5.3 scfm] Air Cv 0.06 R – reduced 1 Nm³/h [0.6 scfm] Air for H ₂ and He Cv 0.06 H – Standard 15 Nm³/h [8.8 scfm] Air Cv 0.15	T-TESCOM	A-G1/4 female B-Ø 6 mm SST C-Ø 8 mm SST D-Ø 10 mm SST E-Ø 12 mm SST F-Ø 8 mm Brass G-Ø 10 mm Brass H-Ø 12 mm Brass J-Ø 1/4" SST	A- no screw connection B- ø 6 mm SST purge valve ø 8 mm SST relief valve C- ø 8 mm Brass purge valve ø 8 mm SST relief valve D- ø 8 mm brass purge valve without screw connetion * E- ø 6 mm SST purge valve Ø 6 mm SST relief valve F- ø 1/4* SST purge valve ø 1/4* SST relief valve G- without screw connection * F- Ø 1/4* SST relief valve Ø 8 mm SST relief valve G- without screw connection *	0-without connecting bend 9-Oxygen 13-Compressed air 6-non flammable gases 1-Flammable gases 10-Nitrogen 14-Test gas 11-Nitrous oxide 5-Toxic, flammable gase (only SST) GAS GROUPS CONNECTING BEND PN 300 * * * * 56-Compressed air 59-Oxygen 54-non flammable gases 57-flammable gases N-1/4 NPT female	Blank – no accessory F-Cylinder rack S-Collector pipe/extension	Blank – 4350 / 300 1–1450 / 100 CO ₂ /Nitrous oxide 6–232 / 16 Liquid gas Ammonia **** only SST

 $^{^{}st}$ Double ferrule fitting / stst DIN 477-1 / ststst DIN 477-5 / ststststst 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.".



WARNING! Do not attempt to select, install, use or maintain this product until you have read and fully understood the TESCOM Safety, Installation and Operation Precautions.



