

	D101	D102	D103	D104	D201	D202	D203	D204	D301	D302	D303	D401	D402	D403	D404	D405
P101	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
P102	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
P103			●	●					●	●	●				●	
P104	●	●	●	●	●	●	●	●	●	●	●		●	●		●
P201	●	●	●	●	●	●	●	●	●	●	●		●	●		●
P202	●	●	●	●	●	●	●	●	●	●	●		●	●		●
P203	●	●	●		●	●	●		●				●	●		●
P301	●	●	●		●	●	●						●			●
P302	●	●	●		●	●	●						●			●
P303	●	●	●		●	●	●						●			●
P401																
P402																
P403																
P404																
P501	●	●	●		●	●	●		●	●			●			●
P502	●	●	●		●	●	●		●	●			●			●
P503																
P504																
P601																
P602																
P603																
P604																
P701								●								
P702																
P703		●														
P704						●										
P801																
P802																
P803																
P804																
P901																
P902																
P903																
P904																

MATERIAL COMPATIBILITY

Fluid	Suggested Materials	Fluid
Acetylene	SS 316	Acetic Acid
Alcohols	SS 316	Alums
Amines	SS 316	Ammonia Nitrate
Ammonia	SS 316	Arsenic Acid
Benzene	Monel / Hastelloy C	Boric Acid
Carbon dioxide	SS 316	Carbon Monoxide
Chloric acid	PTFE	Borax (Sodium Borate)
Chlorine	Hastelloy C	Carbon Tetrachloride
Chocolate	SS 316	Cream
Detergents	SS 316	Dyes
Diesel / Kerosene	SS 316	Diethylene Glycol
Fluorine	SS 316	Formaldehyde
Freon 22	Phosphor Bronze	Epsom salts
Freons	SS 316	Grease
Fruit juices	SS 316	Gelatin
Fuel oils	Hastelloy C	Hydrogen Peroxide
Gasoline / Jet fuels	SS 316	Hexane
Glues	SS 316	Honey
Hydrochloric acid	Monel / Hastelloy C	Ketones
Hydrogen sulfide	Hastelloy C	Lacquers
Milk	SS 316	Mercury
Oils	SS 316	Naphtha
Phosphorus	Hastelloy C	Pentane
Potassium chloride	Hastelloy C	Trichloroethylene
Propane	SS 316	Petrolatum
Refineries	Monel / Hastelloy C	Naphthalene
Salt brine	Hastelloy C	Isopropyl Ether
Sea water	Monel	Oxalic acid
Sewage services	Hastelloy C / PTFE	Potassium Hydroxide
Soap solutions	SS 304 / Hastelloy C	Soda Ash
Sour service	Monel / Hastelloy C	Crude Oil
Sugar	SS 316	Sulfur Dioxide (dry)
Sulfuric acid	PTFE	Xylene
Transformer oil	PTFE	Urea
Varnish	SS 316	Toluene (Toluol)
Water	SS 316	Turpentine

PTFE LINING (UP TO 150°C)

Operating Range of Diaphragm Seal	Filling Liquids
< -1...70 bar & 100...400 bar	<
-1...70 bar	<
-1...250 bar & 400...600 bar	x
4...600 bar	x
-1...70 bar & 100...400 bar	<
-1...250 bar	x
-1...250 bar & -1...40 bar [PTFE Lined]	<
-1...250 bar	x
-1...40 bar	x
1.6...40 bar & -1...21 bar	x
1.6...40 bar & -1...21 bar	x
-1...40 bar	x
-1...160 bar	x
-1...100 bar	x
-1...21 bar	x
-1...250 bar	x

PRESSURE GAUGE ASSEMBLY

- Vibrations → + Filled gauge
- Overpressure → + Gauge saver
- Pulsations → + Dampener
- Isolation → + Two Valve manifold
- Temperature → + Capillary or siphon



● = Recommended to use

It is NOT possible to connect a pulsation dampener or snubber or a gauge cock / needle valve in between the diaphragm seal and the measuring instrument.

The information in this chart has been taken from other reputable sources and is to be used ONLY as a guide in selecting material for appropriate chemical compatibility.

ITEC undertake no any responsibility of the data provided in the compatibility chart.

Standard	Filling Liquids
Standard	Silicon DC 200 [-40°C to 205°C]
High temperature	Silicon DC 710 [7°C to 371°C]
Food Grade	Food grade oil [-20°C to 140°C]
Food Grade	Glycerin [10°C to 150°C]
Oxygen / Chlorine	Tetrafluoroethylene [-20°C to 140°C]

NOTES