Cooling Elements and Capillary Line KEI, KEIv, KEIvR

Accessories for Diaphragm Seals and In-line Seals

FL, FLv





Capillary lines with chemical seal are likewise applied for separating

a pressure measuring instrument from the measuring point if the

medium temperatures are too high, or if the mounting conditions at

The standard capillary line is welded to pressure gauges of nom.

case size \geq 100 (4") with wetted parts -3 (stainless steel), and

bracket (MgH), rear mounting flange or front mounting flange for pressure gauges.

Flexible Armor (Protection Tubing) Stainl. steel, outside Ø7 mm (.28")

FLv: 8 mm (.31") weld connection, adapter ring for gauge holder bracket 2) FL: G 1/2 (1/2" BSP) female, adapter for gauge holder bracket 2)

Welded

screwed to all other pressure measuring instrument versions. A mounting device is required for systems with capillary line, e.g. gauge holder

Diameter x Wall Size Capillary 4 x 1 mm (.16" x .04")

Cooling Elements

Cooling elements are applied to decouple the pressure measuring instrument from the measuring point. This is strongly recommended for medium temperatures of +100 °C (+212 °F) and up. Versions for temperatures up to +250 °C (+482 °F) are available.

Pressure gauge/chemical seal combinations, if mounted and filled at our factory, are in standard version delivered with model KElv, which is welded to the chemical seal.

Standard Configurations

Material

Model KEI: 316 L (1.4435) outside / 316 Ti (1.4571) inside Model KElv: 316 L (1.4435) outside / 316 Ti (1.4571) inside Model KELvR: 316 L (1.4435)

Instrument Connection

G 1/2 (1/2" BSP) female

Chemical seal connection

Model KEI: G 1/2 B (1/2" BSP) male Models KElv, KElvR: 8 mm (.31") weld connection

Length

Model KEI: 100 mm (3.94") Model KElv: 110 mm (4.33") Model KElvR: 78 mm (3.07") (compare overleaf) for medium temperatures up to +150 °C (+302 °F)

Pressure Limit

PN 400 bar (5800 psi)

Special Options e.g.

- Models KEI, KEIv: length 200 mm (7.87") for medium temperatures up to +250 °C (+482 °F), other dimensions upon request
- Other chemical seal connections, e.g. 1/2" NPT
- Other instrument connections upon request

We recommend the usage of a capillary line for temperatures >+250 °C (+482 °F) resp. length >200 mm (7.87"), see right column.

How to Order:

Model:

Please pay attention to the required information about the process conditions as explained in our model overview 7000 and in our check lists for instruments with chemical seals! Please add to the ordering code for measuring instrument and chemical seal as follows:

KEI KFlv **KEIvR**

(standard, G¹/₂ B x G ¹/₂ female) (welded to the chemical seal) (with cooling fins, welded)

Special options: see above, e.g. for KEI or KEIv length 200 mm (7.87"), or other connection for instrument or chemical seal

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PN 400 bar (5800 psi), at 20 °C (68 °F) up to 600 bar (8700 psi)

Stainless steel 316 Ti (1.4571)

150 mm (5.91") minimum

Special Options e.g.

Chemical Seal Connection

Instrument Connection

Pressure Limitation

Capillary Line

the measuring point are unfavourable.

Standard Configurations

Material Capillary Line

Bending Radius

Lenath

- Other instrument connections
- . Screw connection to the chemical seal

1 m (3.28 feet) to 10 m (32.8 feet) in full meter steps 1)

- Flexible armor (protection tubing) with PE coating
- Other length of capillary line upon request • •
- Capillary line with diameter 3 mm (.12"), ordering code: FL3 (screwed to the gauge), FLv3 (welded to the gauge)

How to Order:

Please pay attention to the required information about the process conditions as explained in our model overview 7000 and in our check lists for instruments with chemical seals! Please add to the ordering code for measuring instrument and chemical seal the specification for the capillary line as follows: - Model (if a certain version is required): FLv, FL3, FLv3

- Length
- Special options (see above)

¹⁾ > 10 m upon request; max. length depending on pressure range, model et. al., details upon request

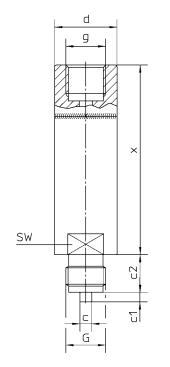
2) without if mounted to pressure gauges of case configurations Rh, Fr, rFr

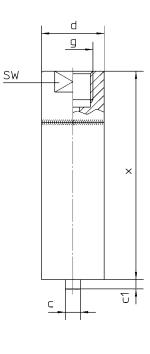
Dimensional Drawings, Dimensions and Weight

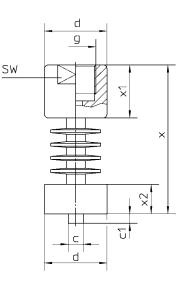


Model KElv

Model KElvR







Dimensional Data (mm / inches) and Weight (kg / lb)

Model	С	c1	c2	d	g	G	x	x1	x2	SW	Weight (approx.)
KEI	6 . 24	3 . 12	20 . 79	33 1 .30	G ½ ½" BSP-f	G ½ B ½" BSP-m	100 ¹⁾ 3.94	—	—	27 1.06	0.40 .88
KElv	8 . 31	5 .2	—			_	110 ¹⁾ 4.33	—	—		0.45 .99
KElvR	8 . 31	5 .2	—			_	78 3,07	36 1.41	10 .39		0.35 .77

¹⁾ optionally 200 mm (**7.87**") for temperatures > +150 °C (up to +250 °C max.) resp. > +**302** °F (up to +**482** °F max.)