



# FILLING FLUIDS AND CAPILLARIES

## FILLING FLUIDS

Code		Temperature range
<b>80</b>	= Silicon oil	-10...+250°C
<b>80/1</b>	= Silicon oil	-40...+150°C
<b>80/2</b>	= Silicon oil	-70... +80°C
<b>80S</b>	=Silicon oli	Vacuum/high temperature 0... +300°C
<b>85</b>	=Syltherm	For special processes -30...+300°C
<b>86</b>	= Neobee oil	For hygienic processes -20...+180°C
<b>88</b>	= Halocarbon	For Inert processes (Oxygen) -30...+200°C
<b>90Y</b>	=Krytox	For special processes/Inert -10...+250°C
<b>90D</b>	= Krytox	For special processes/Inert 0...+350°C
<b>90F</b>	=Fomblin	For special processes/Inert -30...+200°C

Filling fluid workingtemperature area is depending about chemical seal and its oilvolume.

Standard filling fluid is Silicon 80.

## CAPILLARIES

**Capillary tube dimensions:**

S1	=	3,18 x 1,76 mm	AISI 316
S2	=	3,00 x 1,00 mm	AISI 316

**Protection tube for capillary:** 8 x 6 mm AISI 304

Normally connecting is welded to diaphragm seal.  
(Code H)

**Example: S1H/4** Capillary size 3,18 x 1,76 mm  
Capillary connected to diaphragm seal by welding.  
Capillary length 4m



# DIAPHRAGM MATERIALS



## Code

0	= Aisi 316 L
1	= Hastelloy C 276
2	= Titanium
3	= Tantalum
4	= Nickel
5	=PTFE-foil (=Teflon) coated diaphragm
6	= Duplex, SAF 2205 (W1.4462)
7	= Aisi 317L (=high Molybdenum concentration)
9	= St. 50

**Example** - 000-                    0=            Diaphragm seal body Aisi 316  
    0=            Diaphragm Aisi 316

Standard material in diaphragm seal body is Aisi 316 and diaphragm Aisi 316 L.

**Example**     225                    2=            Diaphragm seal body Titanium  
    2=            Diaphragm Titanium  
    5=            PTFE-foil (=Teflon) coated diaphragm

## THREAD CODES

### Codes for process connections and for measuring instruments

#### Common thread standards:

	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
<b>G-thread, female</b>	R5	R4	R3	R2	R24	R1	R14	R12	R11
<b>G-thread, male</b>	R0	R9	R8	R7	R79	R6	R69	R67	R66
<b>NPT conical, female</b>	N5	N4	N3	N2	N24	N1	N14	N12	N11
<b>NPT conical, male</b>	N0	N9	N8	N7	N79	N6	N69	N67	N66
<b>G conical (BSPT), male</b>	K0	K9	K8	K7	K79	K6	K69	K67	K66

**Example** LK.K6R2                    LK=            LK-serie diaphragm seal  
    K6=            Process connection 1" BSPT, male  
    R2=            Connection to measuring instrument is G=1/2" female