

Homogeniser Connections

Type HM

Application

Benney offers homogeniser diaphragm seals to suit most brands of homogeniser pumps (piston pumps). The seals have been specifically designed to withstand the pressure spikes typical of a high-pressure piston pump. A dampening device has been incorporated into the seal to protect both the instrument and the diaphragm from premature failure. Although the seal can be supplied without the dampening device this is not recommended. It is strongly recommended that the fitting and filling be done in our laboratory due to the complexity of the seal, dampening device and fill process. The seal can be supplied with either a clamping block, 1 1/4" retaining nut or screwed connections.

Configuration

Gauge pressure only. D.P type transmitters must be supplied with suitable housings to withstand the pressure and reduce the fill quantities therefore reduce errors induced by ambient temperature change. Gauge pressure transmitters require a G-1/2" process connection.

Specialised homogeniser seals fitted either direct to the pressure instrument or via capillary.

Process Connection

APV Style with clamp block.
 APV Style with 1 1/4" BSPP nut.
 Niro Style.
 Alfa/Rannie Style.
 Alfa Laval with 1 1/4" BSPP nut.
 3/4" BSPT plug.
 Tetra Pak Style.



Seal Construction

Machined out of bar stock with diaphragm welded directly into seal body.

Diaphragm Materials

316L stainless steel (standard)
 Other materials available upon request.

Body and Weldment Material

316/316L Dual Certified Stainless Steel (standard)
 Other materials available upon request.

Active Diaphragm = 22mm diameter.

Maximum Pressure

The maximum working pressure for this seal is as per the rating of associated machine's pipe-work and fittings.

Capillary

Available in 1 to 10 metre lengths. Capillaries must be of matching lengths for differential systems.

Capillary Armour

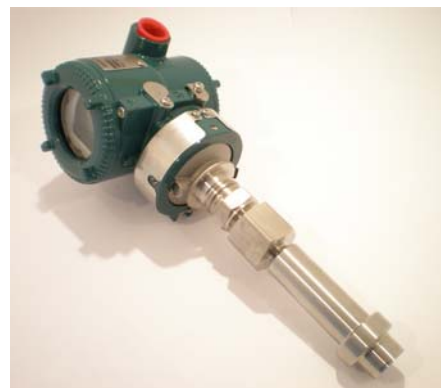
Spiral wound 304 Stainless Steel (standard)

Zero Stability

Stability will be affected by the instrument configuration, ambient temperature, process temperature, connection size (diaphragm size) and the measuring range. For temperature effects and instrument accuracy please contact us.

Dimensional Drawings & System Configuration

Refer to Dimensional Drawings.



General Specifications



How to Order - Type HM

Model Type

HM = Homogeniser Measurement

Connection Type

A = APV style

B = NIRO style

C = ALFA/Rannie style

D = TETRA PAK style

E = 3/4" BSPP Plug Seal

F = 1 1/4" BSPP female nut including washer on a APV style seal

X = Special

Diaphragm Material

S = 316L Stainless Steel

X = Special

Wetted Parts

S = 316/316L Dual Certified Stainless Steel

X = Special

System Configuration

G = Gauge Pressure System with G-1/2" Connection Direct Mounted TX

S = Gauge Pressure System with G-1/2" Connection Capillary mounted TX

P = Gauge pressure System with DP Type TX Capillary Mounted

Capillary / Standoff

AA = Standoff (System Configuration "M") / Heat Neck (System Configuration "G")

00 = None **Note: Only available with System Configuration "G"**

01 = 1 Metre

02 = 2 Metres

03 = 3 Metres

04 = 4 Metres

05 = 5 Metres

06 = 6 Metres

07 = 7 Metres

08 = 8 Metres

09 = 9 Metres

10 = 10 Metres

Fill Liquid

B = Silicon Oil 100cs (-30°C to 180°C)

F = Neobee (Food) (10°C to 160°C)

V = Vegetable Oil (10°C to 100°C)

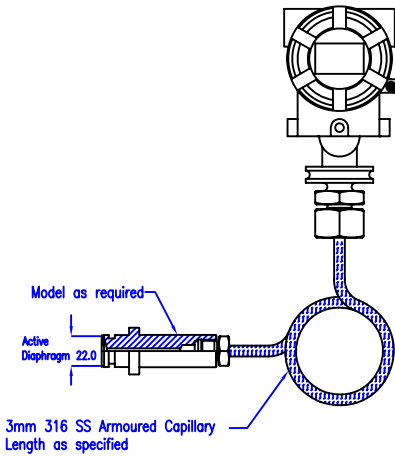
X = Special



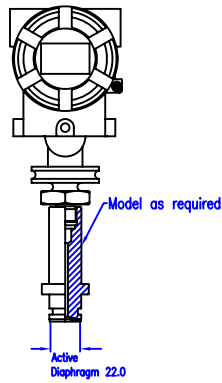
Model HM

Homogeniser connections – Seals

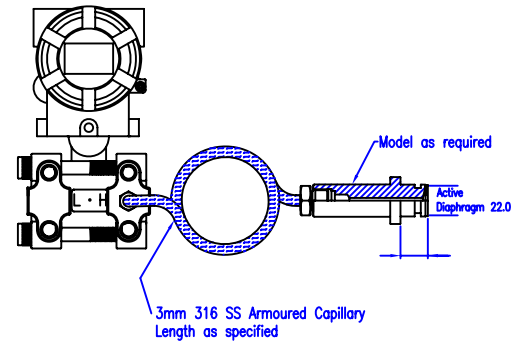
Configuration "S"



Configuration "G"



Configuration "P"



Model selection

