

General Specifications

Homogeniser Connections

Specification
Type HM**Application**

Benney offers homogeniser diaphragm seals to suit most brands of Homogeniser Pumps (Piston Pumps). Benney Homogeniser 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 assembly be completed 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. DP 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 G1/2" 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)

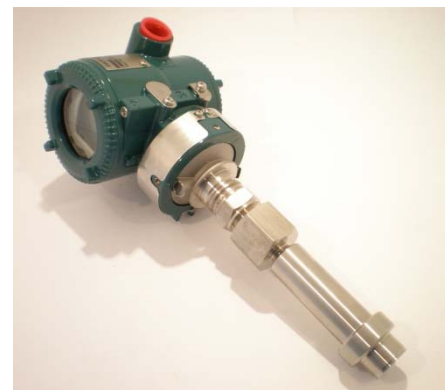
Zero Stability

Stability will be affected by the instrument configuration, ambient temperature, process temperature, connection size (diaphragm size) and the measuring range.

Please contact to discuss temperature effects and instrument accuracy.

Dimensional Drawings & System Configuration

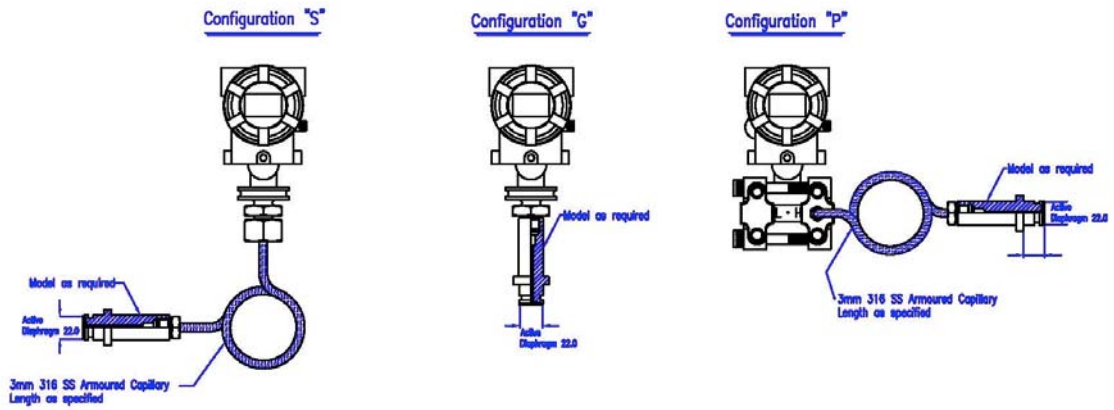
Refer to Dimensional Drawings.



General Specifications

Homogeniser Connection – Type HM		Suffix Code
Process Connection	Homogeniser Measurement	HM
Connection Style	APV	A
	NIRO	B
	ALFA/Rannie	C
	TETRA PAK	D
	3/4" BSPP Plug Seal	E
	1-1/4" BSPP Female Nut including washer on an APV Style Seal	F
	Special	X
Wetted Material	316/316L Dual Certified Stainless Steel	S
	Special	X
System Configuration	Gauge Pressure System with G-1/2" Connection Direct Mounted TX	G
	Gauge Pressure System with G-1/2" Connection Capillary mounted TX	S
	Gauge pressure System with DP Type TX Capillary Mounted	P
Capillary / Standoff	Standoff (System Configuration "M") / Heat Neck (System Configuration "G")	AA
	None Note: Only available with System Configuration "G"	00
	1 Metre	01
	2 Metres	02
	3 Metres	03
	4 Metres	04
	5 Metres	05
	6 Metres	06
	7 Metres	07
	8 Metres	08
	9 Metres	09
10 Metres	10	
Fill Liquid	KN22 Silicon Oil 100cs (-40°C to +290°C)	B
	KN59 Neobee 10.1cs (FDA app) (-20°C to +160°C for less than 0Bar. -20°C to +204°C for greater than 0Bar)	F
	Vegetable Oil (Food Grade) (10°C to +100°C)	V
	Special	X

Model HM
Homogeniser connections - Seals



Model selection

