



**8215**  
without Retainer Flange



**8215**  
with Retainer Flange



### Application

- ✓ Specially made for Homogenizer machine
- ✓ High pressure measurements needing a sanitary seal
- ✓ Milk, food, beverages or pharmaceutical industries

### Special Features

- ✓ Strong design for high pressures
- ✓ Flush diaphragm connection

### Description

Seal-Mate group of diaphragm seals come between the pressure measuring instrument and some medias with can damage the instrument or be harmful if they get directly in touch with the instrument. In many industrial processes, it happens a lot that the media cannot or should not get into direct contact with the instrument. Sometimes that is for the sake of keeping the instrument work properly as the media is too viscous and might easily clog the process connections. And sometimes it is for hygienic purposes.

The flexible metal diaphragm of InstruMate seals is made of SS316L and the space between this flexible diaphragm and the instrument process connection is filled with a filling fluid, chosen in best interest of where the instrument is going to be installed.

So the intended pressure is transmitted via the flexible diaphragm to the filling fluid and then via the filling fluid to the pressure instrument.

InstruMate diaphragm seals are vacuum protected and also not sensitive to sudden sharp increase in pressure.

InstruMate sanitary diaphragm seal Model 8215 is specially designed homogenizer lines. InstruMate 8215 is installed by a flange connection. In emulsion production and also cosmetic industry there are demands for sterile pressure measurement that InstruMate 8215 is best suited to fulfil them.

The special strong design of Seal-Mate 8215 make it suitable for high pressures among all the sanitary diaphragm seals.

C.I.P. = Cleaned In Place

S.I.P. = Steamed In Place

Pressure Ranges (bar)	Filling oil
0...160, 0...250, 0...400, 0...600, 0...1000	KN92
Permissible Temperature	
Medium	10 ... 100°C
Ambient	10 ... 40°C
CIP, SIP	≤ 130°C
Storage	10 ... 60°C

## Material Combinations

Versions	Retainer flange	Body of Diaphragm seal	Diaphragm	Maximum permissible process temperature in °C
Standard version	SS316	SS316	SS316L	+380 <sup>1</sup>
Option	SS304			

1. This value is the maximum temperature that the diaphragm seal can safely endure. Indeed the maximum permissible process temperature in operation is limited by the system filling fluid and also the joining method.

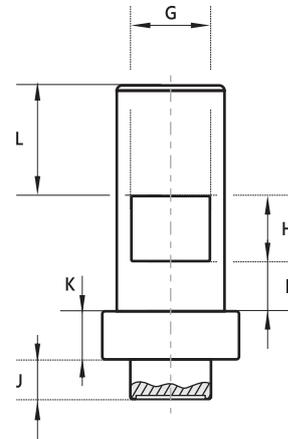
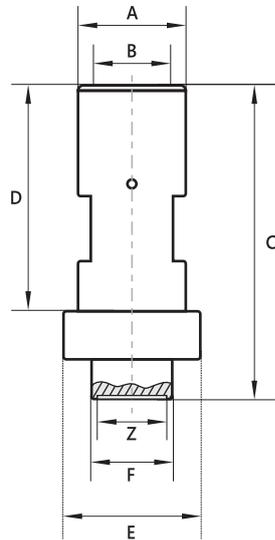
## Instrument Connection

Female Instrument connection	
Standard version	1/2 NPT
Option	1/4 NPT, 1/2 BSP, 1/4 BSP, M20x1.5, M12x1.5

## Options

- ✓ Instrument connection to be welded to the diaphragm body
- ✓ Omitting the retainer flange for a price reduction

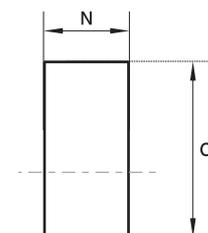
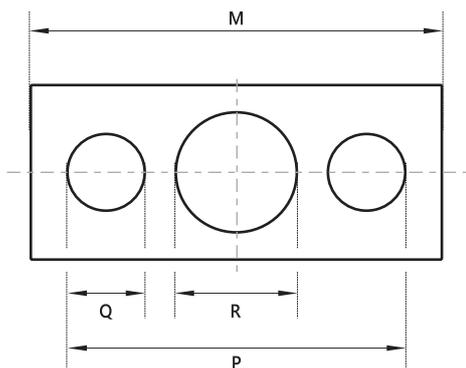
Dimensions (in mm)



- A: Shaft diameter
- C: Overall length
- D: Retainer shaft length
- E: Collar diameter
- F: Diameter of extended diaphragm
- J: Length of extended diaphragm
- K: Collar length
- Z: Effective diameter of diaphragm

A	B	C	D	E	F	G	H	I	J	K	L	Z
28	19	71.5	48.5	34	24	17.5	14	11.5	13	10	23	21

■ Retainer flange



N: Retainer length

M	N	O	P	Q	R
95	25	45	77	17	28

## How To Order

	Product Group Name	Model	PN	with or without Retainer Flange	Instrument Connection	Level of Cleanliness of Wetted Parts	Options
<i>Example:</i>	Seal-Mate	8215	600	with Flange	1/2 NPT female	Oil and grease free	-

Or simply order by item number on the basis of your previous purchases.

**InstruMate®**

InstruMate Co, Limited

[www.Instrumate.com](http://www.Instrumate.com) | [info@Instrumate.com](mailto:info@Instrumate.com)