

## Model RFS Filled System Model Selection Guide

Code	System Type	Model Number Example: RFS-ACRSS05A
RFS	RJ Global Filled and Calibrated Diaphragm Seal System	
Code	Seal Quantity per Instrument	
A	One Seal per Instrument (GP Applications or High Side Connection for DP Applications)	
B	One Seal per Instrument (Low Side Connection for DP Applications)	
C	Two Identical Seals per Instrument	
D	Two Different Seal Types per Instrument (Associated Seal on High Side)	
E	Two Different Seal Types per Instrument (Associated Seal on Low Side)	
Code	Diaphragm Seal Attachment Method	
DA	Direct Attachment - Instrument Threaded Directly to Diaphragm Seal	
LD	Direct Attachment - Liquid Level Style for Transmitters	
N2	2" Close Coupled Low Volume Nipple Mount	
N4	4" Close Coupled Low Volume Nipple Mount	
N6	6" Close Coupled Low Volume Nipple Mount	
CR	Capillary for Transmitters with RJ Global Low Volume Transmitter Head(s)	
CO	Capillary for Transmitters with OEM Low Volume Transmitter Head(s)	
1F	1/4" NPT Female Threaded Capillary Connection to Measuring Instrument	
2F	1/2" NPT Female Threaded Capillary Connection to Measuring Instrument	
1M	1/4" NPT Male Threaded Capillary Connection to Measuring Instrument	
2M	1/2" NPT Male Threaded Capillary Connection to Measuring Instrument	
SC	Special Connection - Please specify connection at end of model number. See example below: Special Connection Model Number Example: RFS-ASCSS0501(SC = Connection Size and Type)	
Code	Capillary Type	
XX	No Capillary	
SS	Stainless Steel Armored	
WP	White PVC Coated Stainless Steel Armored	
<p><b>The following Heat Trace Options provide innovative pre-engineered solutions to difficult applications. Reference the Heat Trace Section of this catalog for detailed specifications and design considerations.</b></p>		
L1	120V Electric Heat Traced for Low Temperature Protection	Faster seal response time and improved performance for ambient temperatures below 50° F.
L2	240V Electric Heat Traced for Low Temperature Protection	
R1	120V Electric Heat Traced for Temperature Maintenance	Reduce ambient temperature effect and induced temperature errors by maintaining elevated temperatures.
R2	240V Electric Heat Traced for Temperature Maintenance	
ST	Steam Heat Traced	Either low temperature or temperature maintenance.
Code	Capillary Length	
XX	No Capillary	
05	5 Feet	
10	10 Feet	
15	15 Feet	
20	20 Feet	
25	25 Feet	
30	30 Feet	
XX	Specify Custom Length in Feet following the 2 digit format	

See Notes and Illustrations on Next Page

**IMPORTANT NOTE:**  
 Diaphragm seal performance is dramatically affected by process and ambient temperature variability, pressure, fill fluid, capillary size, capillary length, diaphragm material, diaphragm thickness, and diaphragm size. RJ Global provides technical application support at no extra charge. Always consult RJ Global for concerns over capillary lengths, vacuum, and low or high temperature applications. (Reference Design Section Pages 4-6)

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Code	Fill Fluid	Fluid Type	Temperature Range	Specific Gravity	Viscosity	Minimum Process Pressure (PSIA) at Max Temperature
A	DC 200	Silicone	-45 to 400° F	0.913	9.50 CS	1.0
B	DC 704	Silicone	+50 to 640° F	1.070	44.00 CS	14.7
C	DC 710	Silicone	+45 to 700° F	1.110	500.00 CS	35.0
D	Syltherm 800	Silicone	-40 to 600° F	0.934	9.50 CS	100.0
E	Syltherm XLT	Silicone	-150 to 500° F	0.850	1.40 CP	100.0
F	Neobee	Sanitary	0 to 400° F	0.920	9.80 CS	5.0
G	Fluorolube FS-5	Inert	-20 to 300° F	1.850	6.50 CS	10.0
H	Halocarbon 1.8	Inert	-100 to 210° F	1.820	1.80 CS	14.7
J	Halocarbon 4.2	Inert	-30 to 300° F	1.850	4.20 CS	12.0
K	Halocarbon 6.3	Inert	-20 to 425° F	1.870	6.30 CS	10.0
L	Propylene Glycol	Not Suggested	0 to 200° F	1.030	2.85 CS	14.7
M	Ethylene Glycol	Unless Required	-25 to 320° F	1.100	5.30 CP	14.7
N	Deionized Water	By Application	+40 to 200° F	0.997	0.91 CP	14.7

**Model Number Example: RFS-ACRSS05A**  
 See Pages 4-5 for Detailed Ordering Instructions.

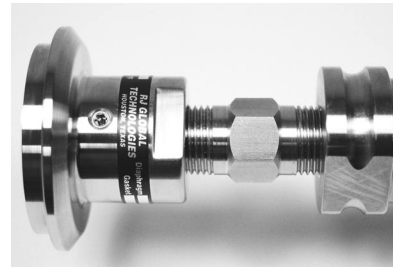
All RJ Global filled transmitter systems feature welded connections at no additional charge. This includes welding the threaded capillary connection styles once the capillary connection has been threaded into the measuring instrument. Gauge and switch applications are welded as standard when process pressure will exceed 400 PSI or as requested by customer.



Direct Attachment -Instrument Threaded Directly to Diaphragm Seal



Direct Attachment - Liquid Level Style for Transmitters

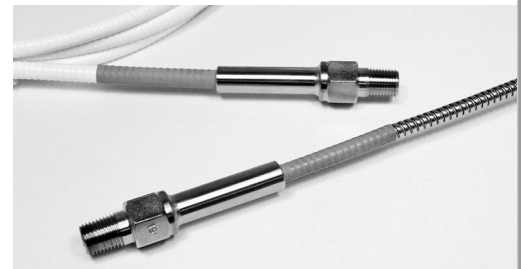
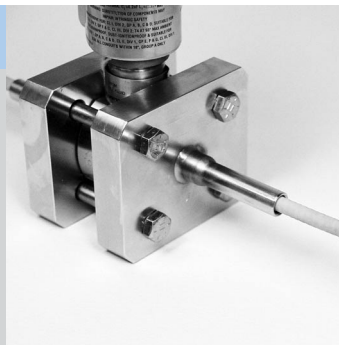


Close Coupled Low Volume Nipple Mount

### Capillary for Transmitters with Low Volume Transmitter Head(s)

RJ Global demands that low volume transmitter head flanges be utilized for capillary connections to minimize temperature effect. A standard transmitter process head flange contains excess fill fluid capacity.

All DP and non direct mount GP transmitter systems with capillary connections must be provided with an OEM low volume process flange(s) or utilize the RJ Global design.



Threaded Capillary Connection to Measuring Instrument