

High Temperature/Pressure Non-Insulated Probe Rigid or Flexible Model 737A

GENERAL DESCRIPTION

These high pressure/temperature non-insulated probe assemblies utilize a one piece gland construction and ceramic insulator bushings so as to withstand cyclic as well as continuous high pressures. Primary sealing surfaces are maintained under compression by spring washers.

Sealing, for both liquids and gasses, is accomplished by the use of high temperature o-rings. The o-ring material is suitable for use with most products.

Positive retention of the probe rod in the gland is provided by a bushing which prevents the rod from coming through the gland even under pressures in excess of rated pressure.

The flexible version has a fitting swaged to the stainless steel cable. This fitting is threaded into the gland assembly.

APPLICATION

Intended for severe pressure and/or temperature service, these non-insulated probes may be used with either the Level-Tek, Level-Tel, Level-Lance or Excalibur 7000 in non-conductive material applications.

SPECIFICATIONS

Minimum length	
Maximum length	
	100 feet (flexible)
Probe mounting	
Probe materials (wetted parts)	
Rod (rigid and flexible) .	300 Series stainless steel
Gland and bushing	300 Series stainless steel
	Ceramic
	.FFKM (Perfluoroelastomer)
Flexible probe cable diameter	
Rigid probe rod diameter	
Maximum pressure/temperatu	<i>ure</i> 30" Hg to 3000 psi
	@ 0° F to 600° F
Flexible probe maximum	<u> </u>
	500 lbs. @ -30" Hg to 15 psi
d	lerated to 100 lbs @ 1000 psi
Gland capacitance	÷ .



Invensys.

ORDERING INFORMATION

Specify complete model number according to the tables below.

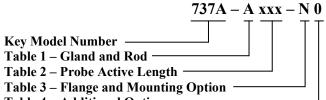


Table 4 – Additional Options

KEY MODEL NUMBER

	KET MODEL NOMDER
Model No.	Description
737A	High pressure/temperature, non-insulated probe

TABLE 1 – GLAND AND PROBE ROD

Designation	Description		
А	Rigid Rod, 316 Stainless Steel, 1/4" OD		
В	Flexible Cable without termination,		
	300 Series Stainless Steel, 1/8" OD		
D	Flexible Cable with termination,		
	300 Series Stainless Steel, 1/8" OD		

TABLE 2 – PROBE ACTIVE LENGTH

Designation	Description				
XXX	For rigid rod probe specify the active				
	length in inches.				
	Maximum active length is 96 inches.				
	Minimum active length is 3 inches.				
	For flexible cable probe specify the active				
	length in feet.				
	Maximum active length is 100 feet.				
	Minimum active length is 1 foot.				

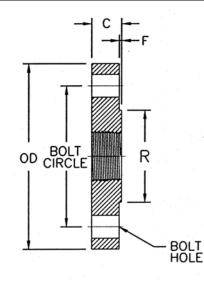
TABLE 3 – FLANGE OPTION

Designation	Description		
Ν	None		
Α	Flange Screwed onto probe gland.		
	Specify class, size and material.		
В	Flange welded to probe gland.		
	Specify class, size and material.		

TABLE 4 – ADDITIONAL OPTIONS

Designation	Description
0	None

	Standard Flanges						
CLASS	SIZE	OD	С	F	R	BOLT CIRCLE	BOLT HOLES
150	1″	4.25	.56	.06	2.00	3.12	4X Ø.62
150	1-1/2"	5.00	.69	.06	2.88	3.88	4X Ø.62
150	2″	6.00	.75	.06	3.62	4.75	4X Ø.75
150	3″	7.50	.94	.06	5.00	6.00	4X Ø.75
150	4″	9.00	.94	.06	6.19	7.50	8X Ø.75
300	1″	4.88	.69	.06	2.00	3.50	4X Ø.75
300	1-1/2"	6.12	.81	.06	2.88	4.50	4X Ø.88
300	2″	6.50	.88	.06	3.62	5.00	8X Ø.75
300	3″	8.25	1.12	.06	5.00	6.62	8X Ø.88
300	4″	10.00	1.25	.06	6.19	7.88	8X Ø.88



Standard Flange Materials
Carbon Steel
316 Stainless Steel

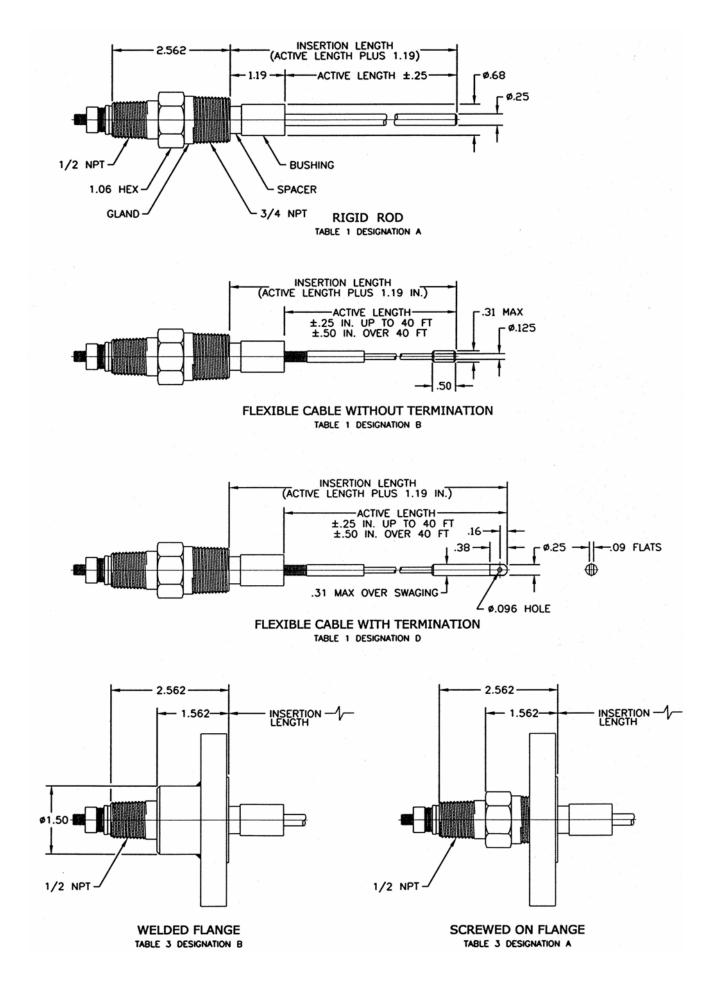
NOTES:

1. Probes may be supplied with flanges of different sizes, styles and materials than listed above by special order. Consult factory

2. Flanges conform to ANSI B16.5.

3. The pressure/temperature ratings of probes supplied with a flange shall be that of the flange or as specified on page 1 for the probe, whichever is less.

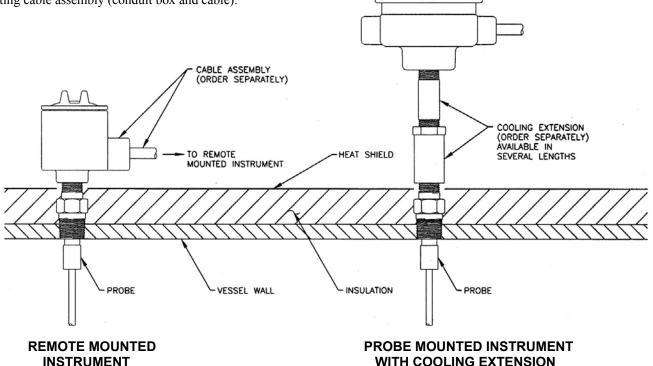
4. The probe insertion length is 1.19" longer than the probe active length.



TYPICAL HIGH TEMPERATURE PROBE INSTALLATIONS

In high temperature applications it is important that the instrument and, if applicable, the remote mounting cable assembly not to be subjected to a temperature greater than its ambient rating so as to prevent heat related failures.

The instrument may be mounted away from the probe to help prevent heat radiating from the vessel from reaching the instrument. This may be accomplished by using a Robertshaw cooling extension and/or by remotely mounting the instrument with a Robertshaw remote mounting cable assembly (conduit box and cable).



NOTES:

1. Refer to the instrument specification sheet for the ambient rating of the instrument and/or remote mounting cable assembly. Not all instruments may be remote mounted.

2. A heat shield and/or insulation should be placed between the vessel and the probe mounted instrument (or probe mounted cable connection).

Robertshaw

U.S.A. and CANADA Robertshaw Industrial Products Division 1602 Mustang Drive Maryville, Tennessee 37801 Phone: (865) 981-3100 Fax: (865) 981-3168 http://www.robertshawindustrial.com

INSTRUMENT

(ORDER SEPARATELY)

Exports

Invensys Appliance Controls 1701 Byrd Avenue P.O. Box 26544 Richmond, Virginia 23261-6544 Phone: (804) 756-6500 Fax: (804) 756-6561

Invensys.

Q-4168 (8/01)

Printed in U.S.A.