

GENERAL DESCRIPTION

The Model 729A Flexible Probe is a general purpose probe designed to cover most applications where non-rigid probes are required or desired. Typical applications of the flexible probe are in large tanks where rigid probes are prohibitive or where overhead room precludes the use of rigid probes.

The standard conductor on the Model 729A is made of 316 stainless steel mufti-strand cable that is offered as:

- (a) A bare cable for use in dry products,
- (b) Teflon insulated cable,
- (c) Polyethylene insulated cable.

Any of these are available with or without a lower end termination fitting. This termination fitting is constructed of stainless steel or of non-metallic material that is the same as the insulating material on the cable. The stainless steel termination fitting should be used on dry or granular products whereas the non-metallic termination fitting is to be used in liquid products.

The Model 729A Flexible Probe can be "tailored" to meet nearly any specific application by the addition of options that are readily available. These options include:

- Weights and turnbuckle for holding the probe down.
- An "eye" (termination) for tying the probe down to the bottom of the vessel when required (liquid products only).
- Flanges either welded or screwed onto the probe gland.
- Sheaths flexible or rigid as required.

The standard process connection for the Model 729A is a 1" NPT male thread.

SPECIFICATIONS

INTRINSIC SAFETY: Probe is intrinsically safe when used with Robertshaw instruments which have I.S. probe input circuitry.

Temperature/Pressure Ratings:

Non-Insulated Probes	1,000 PSI at 100°F
	0 PSI at 350°F
TFE (Teflon) Insulated	1,000 PSI at 100°F
	0 PSI at 350°F
Polyethylene Insulated	1,000 PSI at 70°F
	500 PSI at 110°F
	0 PSI at 150°F
Gland Capacitance	20 pf
Probe Gain	
TFE Insulated	60 pf/ft.
Polyethylene Insulated	
Maximum Cable Pull	1
No Term. or St. St. Term	2,000 lbs.
TFE or Polyethylene Termination	

Sales Manual Section 110 PRODUCT SPECIFICATION

Model 729A Flexible Probe



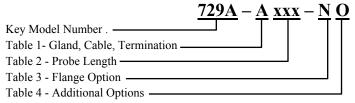
- Rugged, Durable Construction
- Insulated or Non-Insulated Cable
- Available in Lengths to 100 Feet
- Optional Materials of Construction
- Intrinsically Safe (when part of Robertshaw I.S. System)

ENGINEERING DATA

Probe Conductor Material	
Probe Length	100 feet max.
Gland Connection Size	
Probe Diameter	
Non-Insulated	
Insulated	
Gland Material, Standard	



ORDERING INFORMATION



Key Model Number	
Model No.	Description
729A	General Purpose flexible probe. Designed for
	use in applications where the active length is
	too long for rigid probes, where the ability to
	flex is desired, or overhead space is limited.
	1" NPT process connection.

Table 1- Gland, Cable, and Termination Assy.

Desig.	Description
Α	316 St. St. gland and 7/32" cable. No term.
В	316 St. St. gland, Teflon ins. cable. No term
C	316 St. St. gland, polyethylene ins. cable. No
	termination
D	316 St. St. gland, Teflon ins. cable and Teflon
	Termination. For Liquid Products.
E	316 St. St. gland, polyethylene ins. cable and
	polyethylene termination. For Liquid Products
F	316 St. St. gland and cable. 316 St. St.
	termination. For Dry Products.
G	316 St. St. gland, Teflon ins. cable, and 316 St.
	St. termination. For Dry Products.
Н	316 St. St. gland, polyethylene ins. cable, with
	316 St. St. termination. For Dry Products.

Table 2- Probe Active Length

Desig.	Description
	Specify active length in feet. Max. length is 100
	feet. Insertion length is longer than the active
	length when a termination is used – by the
	length of the termination.

Table 3 - Flange Option

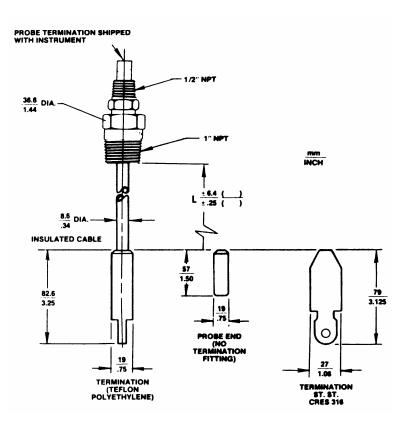
Desig.	Description
Ν	None
А	Flange screwed onto probe gland. See PL-FL
В	Flange welded onto probe gland. See PL-FL.

Table 4 - Additional Options

Desig.	Description
Desig.	Description
0	None
1	316 St. St. rigid sheath. Specify Sheath Length
2	316 St. St. flexible sheath. Specify Sheath
	Length
3	Ground wire. See PL-GW

See PL-WT for optional probe weights

DIMENSIONS



See PL-WT for Optional Probe Weights



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