

# Electrical Resistance (ER) Probes

Request A Quote

MODEL 4705



## Features

- **High Pressure Flush**
- **Mounting - 2" System**
- **Temperature Rating - +500°F / +260° C**
- **Pressure Rating - 6000 PSI / 41.3 MPa**
- **Element Seal Material - Glass**
- **Fill Material - Ceramic**
- **Probe Body Material – 316 L S.S.**

A new style of the Model 4705 electrical resistance probe is now available with an even more durable construction and incorporating a connector with shrouded pins to prevent accident damage. It is recommended for all new installations. This new style incorporates welded shields where required and requires a different probe connecting adaptor (see order details).

This high pressure probe can be read by any corrosion monitoring Electrical Resistance (ER) instrument. The rugged probe body is 316L Stainless Steel. It may be used at operating pressures to 6000 PSI (41.3 MPa) and temperatures to +500° F (+260° C).

Probe adapters are required to make the cable connection to the probe. Use the following order numbers for adapters: 028068 for permanent instrumentation and 028043 for portable instrumentation (new style connector only). Based upon a standard access fitting height of 5.25" and a 1/16" weld gap per ANSI B31.1, the following equation may be used to determine the order length.

**Ordering Length = T + 1.25"**

Where: T = Wall thickness of pipe or vessel. The order length should be rounded down to the nearest 1/8".

**COSASCO**<sup>®</sup>

# MODEL 4705

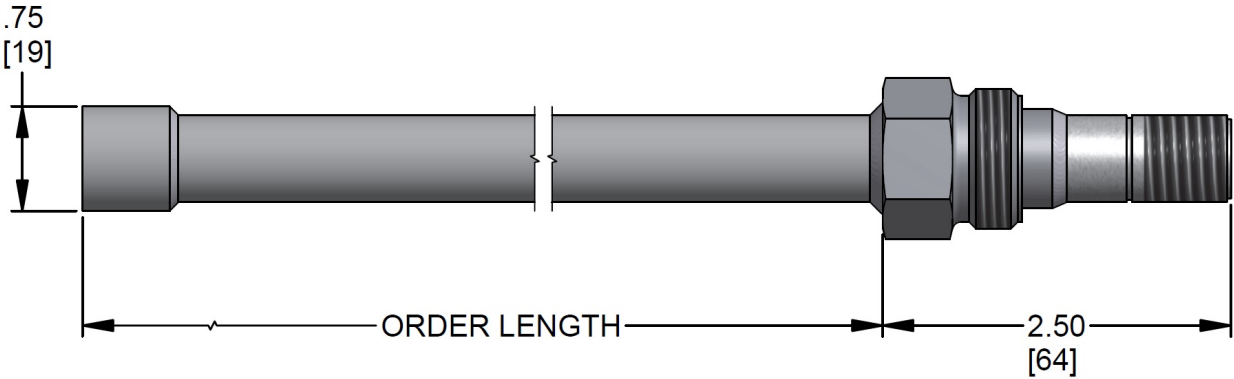
## Element Availability

UNS Number	Alloy	S8
K03005	Pipe Grade Carbon Steel	■
	Inches	.004
	Useful Range (mm)	.100

Table 1

Other element alloys may be supplied subject to material availability

## Dimensions



## Ordering Information

**Note:** For flush devices which are protruding into the line that may experience high velocity process conditions it is recommended that Wake Frequency Calculations be performed – please contact a Cosasco representative for further details.

Model	Retrievable ER Probe – High Pressure Flush			
4705	Complete Probe Assembly			
↓	<b>Code</b>	<b>Element Form: See Table 1 for Availability</b>		
	S8	Flush Strip Element, 8 mil thickness (4 mil useful probe life)		
↓	<b>Code</b>	<b>Element Alloy: See Table 1 for Availability</b>		
	XXXXXX	Enter UNS Number		
↓	<b>Code</b>	<b>Order Length</b>		
	XX.XXX	Inch Order Length in "Increments from 2.00" to 36.00"		
↓	<b>Code</b>	<b>Connector</b>		
	0	"S" Type With Shrouded Pins <sup>(1)</sup>		
<p>↓ ↓ ↓ ↓ ↓</p> <p><b>4705 – S8 – K03005 – 2.00 – 0</b> ← <b>Example</b></p>				

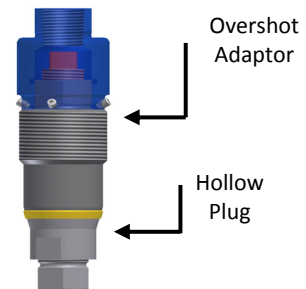
**Note:** <sup>(1)</sup> New style probe with shrouded pins has probe connecting adapters as follows – for portable instrument 028043, for permanent connection 028068.

**Unit Weight:** Probe length 3.25" - 12", 3 lbs. / 1.36 kg.  
 Probe length 12.25" - 24", 4.5 lbs. / 2.04 kg.  
 Probe length 24.25" - 36", 6 lbs. / 2.72 kg.

### RECOMMENDED:

#### Overshot Adapter: P/N 126292

An overshot adapter is not required, but is recommended for use with the 4700 probe. It permits removal and installation of hollow plug with probe and a steel pipe plug in place (keeps probe pins clean and dry).



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