GENIE® 760
Direct Drive Probe™

The safest and most versatile non-membrane tip probes available on the market!

The Direct Drive™ Model 760 is an adjustable length probe without a membrane tip. It can be used to sample liquids, gases that do not require a membrane or contain more entrained liquid than a membrane can handle, or high temperature gases. The 760 can be safely inserted into pressurized sources up to 3750 PSIG. Unlike other competitive insertion probes that require brute physical force or hydraulics applied to the backside of the probe for insertion, this probe is easily installed through a full port valve using either an open end or speed wrench.

The 760 probe is offered with optional coatings from Silcotek™. The Model 760 can be mounted vertically or horizontally, and its installation process is simple and straight forward. Many features of the 760 combine to make it the safest, most durable probe available on the market. It's unique, one-piece body design with double mechanical safety interlocks to prevent the probe from self-retracting under any failure scenario. A thread die cleans the probe's threads to ensure proper engagement with mating parts, providing for a smooth retraction even after extended periods of service. A Genie® 133 Probe Assembly option is available for gas sampling applications where a membrane tipped probe cannot be used. This simple assembly includes a Genie® Supreme Model 133 Membrane Separator™ mounted onto the outlet of a Direct Drive™ Model 760. See Genie® 133 literature for details.

Technical Specifications

Maximum Pressure Rating	**NPT:** 3,750 psig (258.6 barg)
Temperature Range	-40 °F (-40 °C) to 300 °F (149 °C) Actual limit depends on sealing material chosen. Refer to Temperature Range Comparison Chart.
Port Sizes	**Outlet:** 1/4" FNPT **Auxiliary:** 1/8" female NPT (plugged from factory)
Probe Lengths For other lengths contact the factory.	**L:** 8", 12", 18", 24", 36", 48" Refer to dimensions on back.
Process Connection Requirements	3/4", 1" or 1.5" NPT full opening threaded or flanged valve Ball, gate and double block and bleed valves are all suitable for use as long as their inner diameter is not less than 3/4". 1" NPT or larger process connection required for seal welding.
Wetted Materials For Silcotek™ coatings, contact the factory.	***Machined parts:** 316/316L stainless steel / ISO 15156-3 compliant and Kevlar® threaded bushing **All other metal parts:** stainless steel / ISO 15156-3 compliant **Sealing material:** User defined * Other materials available on request.

Product Brief

Applications

- Spot, composite, or continuous gas sampling in any process industry including natural gas, petrochemical, and oil refining
- Gas sampling of mixtures containing less than 30% hydrogen

Benefits

- Easy, quick, and safe insertion and extraction from pressurized systems without a special insertion device
- Horizontal or vertical mounting
- Probe design prevents harmonic oscillations from occurring
- Long service life
- Easy maintenance in the field

Features

- Unique, one piece body design
- Adjustable length
- Antifriction internal thread die
- Non-rigid probe connection/seal provides mechanical dampering between probe and probe base
- Speed wrench for faster installation

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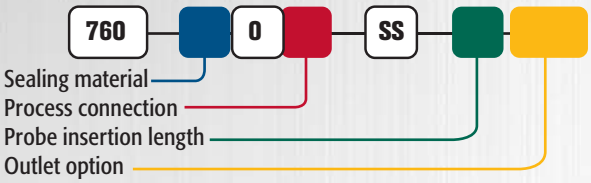
Model Numbering & Additional Part Numbers

Your model number is determined by your specific needs. Choose options below.

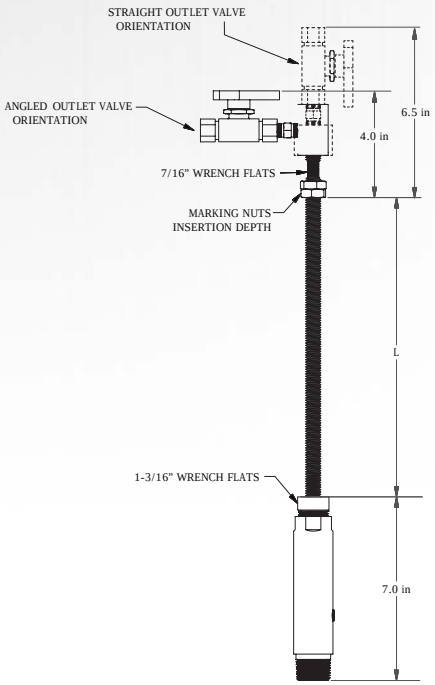
Sealing material	J9 = RGD resistant HNBR (Typically used with liquefied gases) 0 = Neoprene rubber	(other materials available upon request)
Process connection	3 = 3/4" NPT	4 = 1" NPT 6 = 1.5" NPT
Probe insertion length	8, 12, 18, 24, 36, 48 inches	
Outlet option	Blank = Angled, with valve V = Straight, with valve	NV = Angled, no valve VNV = Straight, no valve (133PA option)
Sealing material replacement (Packing Gland)	Part # 760-5J90 for RGD resistant HNBR	Part # 760-570 for PTFE/Neoprene rubber (sold separately)
Speed wrench	Part # ACC-SW (sold separately)	
Optional gauge	Part # ACC- Q14KC (0-4,000 psig, sold separately)	

How to build the model number:



Dimensions

Uninstalled



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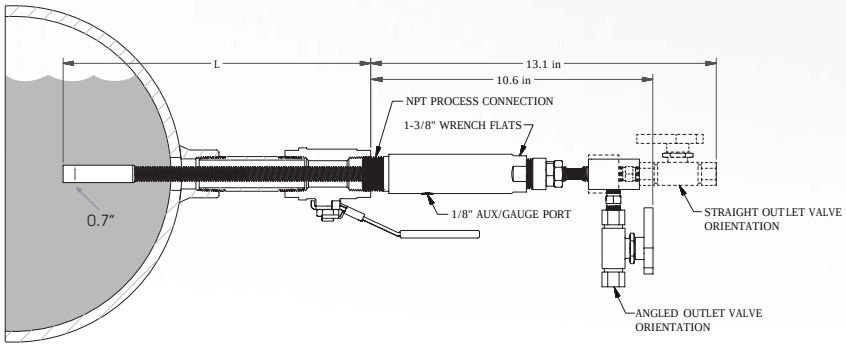

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Analytically Correct™ sample systems, sample conditioning components, and revolutionary gas and liquid sampling technology.

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