GENIE® 750
Direct Drive Probe™

Genie® Direct Drive 750
Installation & Operation Instructions

(Low Volume Option)

Manufacturing Contact Information

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Safety Warnings

Failure to abide by any of the safety warnings below may result in equipment failure or serious injury and death.

- Do not exceed any equipment pressure ratings. See Technical Specifications for limitations.
- The probe must be installed to the process line by means of the appropriate size NPT female full port ball valve.
- Only the wrench flats on the base can be used when installing into the process ball valve.
- **DO NOT** use the wrench flats on the packing adjustment nut, located on the top of the base, for installation into process ball valve.
- Not designed for external fire.
- Prior to use in a system, a properly sized relief device is to be installed which limits the use to 110% of the MAWP.
- This product may vent while being installed, operated, or maintained. The user should follow company safety practices concerning Personal Protective Equipment (PPE) as well as any and all OSHA, state and local regulations.

Tools Required

- 1-3/8 open end wrench
- 7/16” open end wrench
- (2) 7/8” open end wrenches
- 1-3/16” open end wrench

Fittings Required

- Appropriate size full port ball valve.

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GENIE® sampling solutions

Technical Specifications

Maximum pressure rating	NPT: 3,750 psig (258 bars) Unibody flanged: Dependent upon flange ANSI classification
Temperature ranges *For other temperatures, contact the factory.*	Up to 300°F (148.9°C) with non-standard seals/Type 7 membrane -35 °F (-37.2 °C) to 185 °F (85 °C) with Type 6 membrane
Port sizes	1/4" female NPT outlet with integrated outlet shut-off valve
Probe lengths *For other lengths contact the factory.*	L: 8", 12", 18", 24", 36", 48" *(Refer to dimensions on back.)*
Process connection requirements	¾", 1", or 1.5" NPT full opening threaded 1" NPT or larger process connection required for seal welding.
Wetted materials *For exotic materials of construction or SilcoTek coatings, contact the factory.*	*Machined parts: 316/316L stainless steel /NACE compliant and Kevlar® threaded bushing All other metal parts: stainless steel / NACE compliant Sealing material: PTFE/Neoprene rubber standard Membrane: Inert **Other materials available on request.*

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Installation Instructions

Step 1. Install valve and probe outlet

- Customer must fit a valve on the top of the probe to their specifications.
- This valve must remain closed until the duration of installation.

Step 2. Install to process valve

- Be sure the ball valve to the process line is closed.
- Apply a thread sealant, such as Teflon® Tape, to the male threads on the bottom of the probe.
- Install the probe to the process ball valve using a 1-3/8" open end wrench **ONLY** on the wrench flats on the base (see Figure 1).

Step 3. Pressurize the probe

- Be sure the customer valve on top of the probe is closed.
- Slowly open the ball valve to the process (see Figure 2).

Step 4. Lowering the probe to proper depth

- Decide the depth needed for the probe (D1) by determining from the top of the full port process ball valve to the desired end of the probe in the pipeline (see Figure 4).
- Apply the depth (D1) to the probe from the top of the base up the threaded rod to determine the lowering stopping point (see Figure 3).
- Install the 2 depth marking nuts on the threaded rod at the predetermined lower stopping point. Using two 7/8" open end wrenches, rotate the upper nut clockwise and the lower nut counterclockwise simultaneously until the nuts are locked firmly in place.
- Lower the probe to the proper depth by using a 7/16" open end wrench only on the wrench flats of the threaded rod of the probe (Figure 5).

Step 5. Leak testing the probe connections

- Using a leak detector, check for leaks at the following locations: 1/16" NPT probe outlet to the closed customer supplied ball valve, process connection, probe packing seal, and additionally any other connection made during the probe installation.
- If leaking occurs through the probe packing gland, use a 1 3/16" open end wrench to tighten the packing seal plug until the leak stops. DO NOT OVERTIGHTEN.
- The amount of torque required to seal the packing gland will vary with process conditions and the sealing material. Seals with higher durometer, such as our RGD resistant HNBR and RGD resistant HNBR 985, will require significantly more torque than the standard seals. These seals, at higher pressure, may require as much as 75 ft-lbs of torque to produce a leak tight seal.
- Be aware that the packing gland may need to be tighten periodically as conditions change or as the packing material wears during insertion/ retraction.

Figure 1

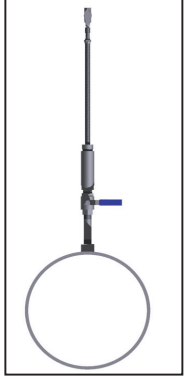

Figure 2

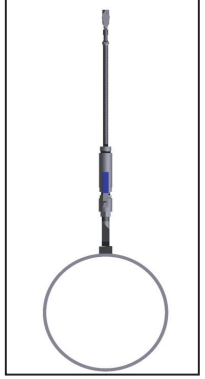

Figure 3

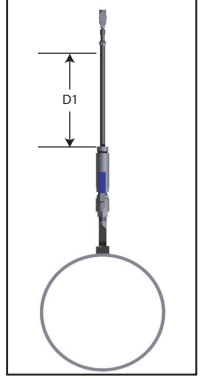

Figure 4

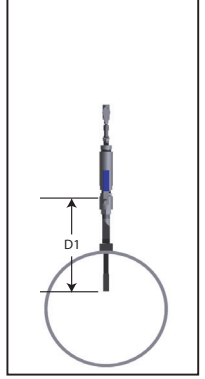

Figure 5

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Model Numbering & Additional Part Numbers

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

Sealing material	0 = PTFE/Neoprene rubber	J = RGD resistant HNBR *(other materials available upon request)*
Membrane type	6 = Rejects ALL types of liquids from vapor	7 = Rejects ONLY high surface tension liquids
Process connection	3 = ¾" NPT	4 = 1" NPT 6 = 1.5" NPT *(contact factory for flanged options)*
Probe insertion length	8, 12, 18, 24, 36, 48 inches	*(24" maximum for exotic materials)*
Outlet option	A = Hex adapter with ¼" (Standard)	LV1 = Low internal volume with ⅛" tubing & socket adapter
Sealing material replacement	Part # 75X-570 *(standard seals, sold separately)*	
Membrane replacement	Part # 75X-CMA-506 *(contains 1 complete assembly - 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: