



(Angled and Low Volume Options)

Genie® Direct Drive 760 Installation & Operation Instructions

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
- ▶ The probe must be installed to the process line by means of the appropriate size NPT female full port ball valve
- ▶ Only the lowest wrench flats on the base, nearest to the NPT male threads, 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 female full port ball valve



An ISO 9001:2008 certified company



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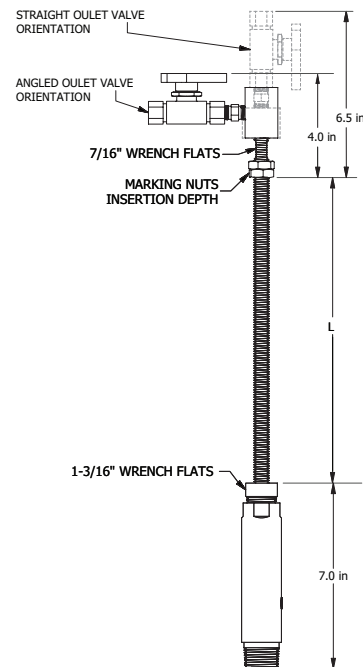
Technical Specifications

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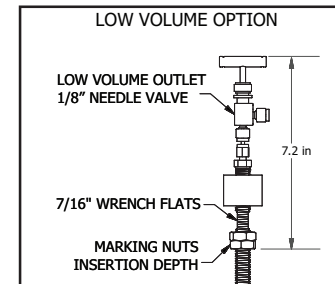
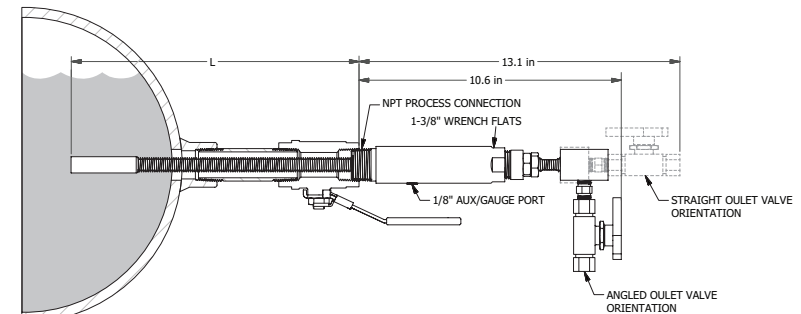
Maximum Pressure Rating	NPT: 3,750 psig (258.6 barg) Unibody flanged: ANSI classification specific
Temperature Range	-40 °F (-40 °C) to 300 °F (149 °C) Actual limit depends on sealing material chosen. Refer to Temperature Range Comparison Chart.
Port Sizes	Outlet: 1/4" FNPT or 1/8" tube for LV Auxiliary: 1/8" female NPT (plugged from factory)
Probe Lengths	L: 8", 12", 18", 24", 36", 48" For other lengths contact the factory. 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	*Machined parts: 316/316L stainless steel /NACE compliant and Kevlar® threaded bushing All other metal parts: stainless steel / NACE compliant Sealing material: User defined * Other materials available on request.

Dimensions

Uninstalled



Installed



Installation Instructions

Step 1. 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 lowest wrench flats on the base, nearest to the NPT male threads (see Figure 1)

Step 2. Pressurize the probe

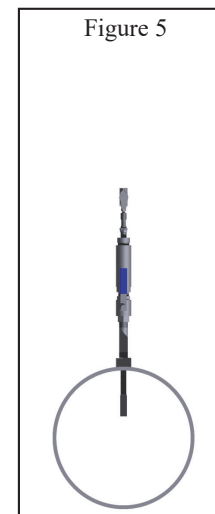
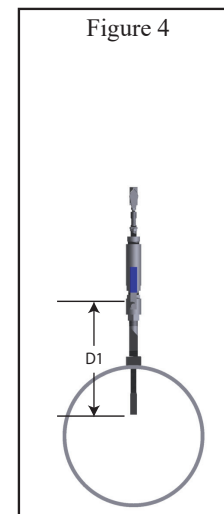
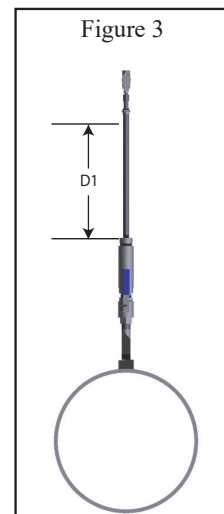
- ▶ Be sure the valve on top of the probe (outlet) is closed
- ▶ Slowly open the ball valve to the process (see Figure 2)

Step 3. 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 2 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 4. Leak testing the probe connections

- ▶ Using a leak detector, check for leaks at the following locations: 1/4" NPT probe outlet, 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 tightened periodically as conditions change or as the packing material wears during insertion/retraction.



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)
Process connection	3 = 3/4" 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	Blank = Angled, with valve	NV = Angled, no valve	V = Straight, with valve
	LV1 = Straight, with valve (Low Volume option - 1/8" tubing)		VNV = Straight, no valve (133PA option)
Sealing material replacement	Part # 760-5_0	(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:

