



Genie® Direct Drive 755 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
- The wrench flats on the threaded rod must be used when lowering or raising the probe to the correct depth after it is installed
- **DO NOT** use the wrench flats on the packing adjustment nut, located on the top of the base, for any installation or operation purposes

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	3,750 psig (258 bar)
Temperature range	-35 °F (-37.2 °C) to 185 °F (85 °C) contact the factory regarding higher factory ratings
Port sizes	Outlet: 1/4" female NPT Auxiliary: 1/8" female NPT (plugged from factory)
Probe lengths (for other lengths contact the factory)	L: 8", 12", 18", 24", 36" A: ~ 20", 24", 30", 36", 48 " (refer to L & A dimensions on back)
Outlet pressure range (psig)	0-10 (0-0.7 bar), 0-25 (0-1.7 bar), 0-50 (0-3.4 bar), 0-100 (0-6.9 bar), 0-250 (0-17.2 bar)
Process connection requirement	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 welding.
Wetted materials	Machined parts: 316 stainless steel / NACE compliant and Perfluoroelastomer threaded bushing All other metal parts: stainless steel / NACE compliant Sealing material: PTFE / Neoprene rubber standard Regulator seat material: PFA Membrane: inert

Installation Instructions

Step 1. Install to process valve

- › Customer must fit a valve on the top of the probe to their specifications
- › Apply a thread sealant, such as Teflon® Tape, to the male threads on the bottom of the probe
- › This valve must remain closed until the duration of installation

Step 2. Pressurize the probe

- › Remove NPT plug labeled gauge/vent and install line pressure gauge if desired. (Optional)

Step 3. Pressurize the probe

- › Rotate the regulator pressure adjustment screw fully counter clockwise until it rotates freely.
- › Close the ball valve on the regulator outlet, if so equipped.
- › Slowly open the 3/4" ball valve to the process (see Figure 2)

Step 4. Lowering the probe to proper depth

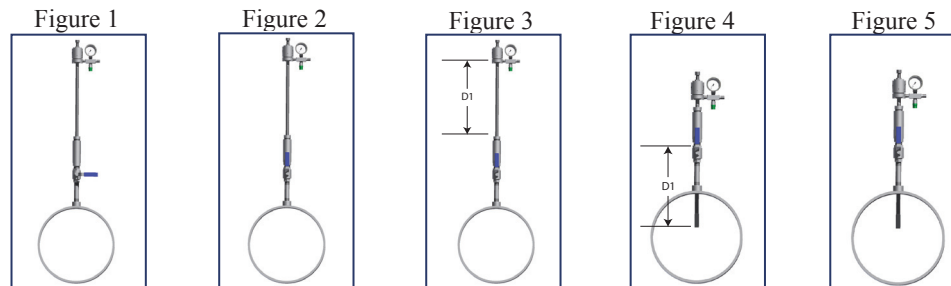
- › Decide the depth needed for the probe (D1) by determining from the top of the full port process ball valve to the desired end of the probe in the pipeline (see Figure 4)
- › Apply the depth (D1) to the probe from the top of the base up the threaded rod to determine the lowering stopping point (see Figure 3)
- › Install the 2 depth marking nuts on the threaded rod at the predetermined lower stopping point. Using 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 or optional speed wrench (Part ACC-SW) 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.

Step 6. Setting outlet pressure

- › At this point the sample pressure can be adjusted to the desired value. This is accomplished by turning the pressure adjustment screw clockwise. To allow sample flow, slowly open external valving.
- › At high supply pressure, a sudden change may be observed on the downstream pressure gauge as the valve stem moves away from the seat. Slight readjustments may be necessary until the pressure and flow have equilibrated.
- › Tighten the pressure adjustment screw lock nut firmly against the washer to prevent unintended changes in pressure adjustment.



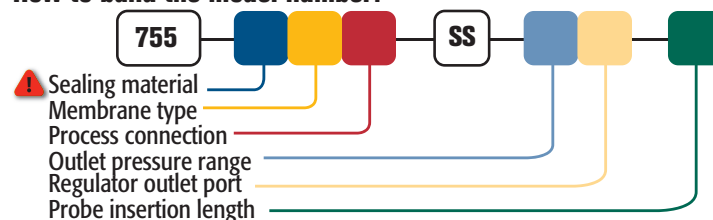
Model Numbering & Additional Part Numbers

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

Sealing material ⚠	0 = PTFE/Neoprene rubber		(other materials available upon request)		
Membrane type	0 = No membrane		6 = Type 6/BTU		
Process connection	3 = 3/4" NPT		4 = 1" NPT		6 = 1.5" NPT
Outlet pressure range (psig)	00 = 0-25	01 = 0-50	02 = 0-100	03 = 0-250	09 = 0-10
Regulator outlet port	1 = 1/4" MNPT to 1/8" tube connector			4 = 1/4" FNPT	
Probe insertion length (L)	8, 12, 18, 24, 36 inches				

How to build the model number:



Spare Parts & Accessories (sold separately)

- Sealing material replacement* - Part # 75X-570
- Complete membrane assembly replacement*
Part # 75X-CMA-506 (contains 1 complete assembly)
- Regulator seat cartridge assembly replacement* - Part # 755-771SS
- Speed Wrench for faster installation - Part # ACC-SW
- Manifold with pressure gauge, ball valve, and relief valve - for ordering information, refer to the Genie Probe Regulator Accessory Manifold product sheet
- KOZY insulated probe and valve covers - for ordering information, refer to the KOZY Assemblies product sheet
- Threaded flange or Process connection valve -
Contact factory for your specific requirements

*These parts contain standard seal materials. Contact the factory if non-standard seal materials are needed.

⚠ We cannot recommend specific sealing materials due to the complex nature of sample stream compositions. Temperature and pressure also may be factors. Unless specified otherwise, the product will ship with our standard sealing materials and materials of construction stated in the technical specifications section of the corresponding Product Sheet. Please refer to www.dupontelastomers.com for sealing material recommendations and advice. It is the user's responsibility to specify the sealing materials of construction for their application.