



### HOSE ASSEMBLIES

When using a Carlisle burner, in any industry, you should be sure that the burner is connected using the correct hosing for the application. Hosing, like all piping systems, must be designed and installed with proper specifications and understanding of the dynamics related to pressure, flow, proper sizing, static pressure losses, temperature, materials, specific gravity of gases for use, and safety issues, among others. Carlisle offers many configurations of Hose Assemblies in both twin and single pre-fabricated or custom length hoses. The "How to Order" section referenced in this bulletin illustrates catalog numbers and how to select hoses. Carlisle always recommends the use of threaded connections for our products.

Tygon® hose is a very flexible light duty hose available with blank ends only. It should always be used with hose clamps and properly sized matching hose adapters. It is manufactured with color-coded "tracing" for use with natural gas, propane, mixed gases, and oxygen or air. Welding hose (Type T) utilizes threaded connections, however is less flexible than Tygon® but capable of handling up to (200psi) pressure. It is available in either "cut-to-size" or standard lengths with "B" size welding female swivel connectors (9/16-18), right and left-hand threads. Various male and female pipe adapters are also available. The welding hose is color-coded for use with natural gas, propane, mixed gases, and oxygen or air. Stainless steel braided hose is not as flexible but is extremely durable. It is metal-jacketed, smooth bore, Teflon® lined hose capable of withstanding up to (3000psi) for 1/4" diameter hose pressure (450degreeF). Frequently supplied with JIC (37 degree flare) female swivel connectors or adapted to male pipe thread. It can also be used with natural gas, propane, mixed gases, and oxygen or air.

#### HOW TO ORDER

##### HOSE TYPE & SIZE (ID)

- 1 = TYGON® 1/4"
- 2 = SPECIAL ORDER
- 3 = TWIN WELDING 1/4"
- 4 = SS BRAID 3/16"
- 5 = SS BRAID 1/4"
- 6 = SS BRAID 5/16"
- 7 = SS BRAID 13/32"
- 8 = SS BRAID 1/2"

##### 1ST CONNECTION TYPE (DEPENDING ON AVAILABILITY)

- 1 = BLANK END
- 2 = SPECIAL ORDER
- 3 = TWIN WELDING (RH & LH)
- 4 = MALE PIPE THREAD
- 5 = FEMALE PIPE THREAD
- 6 = JIC (SAE) SWIVEL

**24D000-0000**

##### 2ND CONNECTION TYPE (DEPENDING ON AVAILABILITY)

- 1 = BLANK END
- 2 = SPECIAL ORDER
- 3 = TWIN WELDING (RH & LH)
- 4 = MALE PIPE THREAD
- 5 = FEMALE PIPE THREAD
- 6 = JIC (SAE) SWIVEL

##### HOSE LENGTH IN INCHES

Example: A 6' (72") welding hose assembly with one blank end and one end with welding hose connections.

**24D313-0072**



Different hose types offered by Carlisle from left to right: Tygon® with hose adapter, welding hose with welding connector, stainless braided with JIC fitting

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Generally, hose rated for higher pressures are less flexible as the burst pressure increases. All hoses are rated for fuel gases and are UL listed. Many connection types are available depending on the hose type. Blank ends are simply "cut-to-size" open ends that slip onto hose adapters secured with hose clamps. Male pipe thread connectors are standard NPT thread. Welding hose fittings are available with both left and right-handed thread. The different connection types signify gas or oxygen and prevent crossed connections. JIC fittings are high pressure connections with a metal-to-metal seal.

Please feel free to contact your Carlisle Representative with questions or engineering needs.

**WELDING HOSE GAS CONNECTIONS ARE LEFT-HAND THREADS, OXYGEN ARE RIGHT-HAND THREADS**

## PRE-FABRICATED ASSEMBLIES

CATALOG NUMBER	HOSE TYPE	LENGTH	CONNECTION TYPE
24D111-0072	TYGON® 1/4"	6' (72")	BLANK END
24D111-0144	TYGON® 1/4"	12' (144")	BLANK END
24D111-0300	TYGON® 1/4"	25' (300")	BLANK END
24D333-0048	TWIN WELDING HOSE 1/4"	4' (48")	WELDING SWIVEL
24D333-0072	TWIN WELDING HOSE 1/4"	6' (72")	WELDING SWIVEL
24D333-0096	TWIN WELDING HOSE 1/4"	8' (96")	WELDING SWIVEL
24D333-0120	TWIN WELDING HOSE 1/4"	10' (120")	WELDING SWIVEL
24D333-0144	TWIN WELDING HOSE 1/4"	12' (144")	WELDING SWIVEL
24D333-0300	TWIN WELDING HOSE 1/4"	25' (300")	WELDING SWIVEL
24D566-0072	STAINLESS STEEL BRAIDED 1/4"	6' (72")	JIC SWIVEL
24D566-0144	STAINLESS STEEL BRAIDED 1/4"	12' (144")	JIC SWIVEL
24D866-0072	STAINLESS STEEL BRAIDED 1/2"	6' (72")	JIC SWIVEL
24D866-0144	STAINLESS STEEL BRAIDED 1/2"	12' (144")	JIC SWIVEL

## TECHNICAL SPECIFICATIONS

HOSE TYPE	INSIDE DIAMETER	OUTSIDE DIAMETER	MAX. WORKING PRESSURE	BEND RADIUS
TYGON®	1/4"	1/2"	62 P.S.I.	5/8"
WELDING HOSE (TYPE T)	1/4"	.531"	200 P.S.I.	1"
STAINLESS STEEL BRAIDED	3/16"	.320"	3,000 P.S.I.	1 1/2"
STAINLESS STEEL BRAIDED	1/4"	.375"	3,000 P.S.I.	2"
STAINLESS STEEL BRAIDED	1/2"	.656"	7,000 P.S.I.	5"

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