

**CUT AND
COUPLE****(866) 641-8851**

ANY HOSE | ANY LENGTH | ANY TIME

RELIABLE
INDUSTRIAL PRODUCTS CO.

A team driven to provide quality hose solutions through ingenuity, passion and commitment.

Corrugated Metal Hose Welding Cell:

Cut and Couple / Reliable have invested in a new arm of their warehouse operation, the Metal Hose Welding Cell. All products related to Corrugated Stainless Steel Metal Hose production are cut, coupled and packaged in this separate warehouse area. This includes hose reels, fittings, ferrules, stainless



steel braiding, and armor cover. Our hose technicians use a special metal cutting blade to cleanly fabricate the single-braided corrugated piece, void of rough snares thus eliminating snagging. Per the manufacturer's specs, we then add a second braid and armor cover where necessary before handing off to our welding crew for assembly. Certified technicians are the backbone of our

metal hose production facility. Cut and Couple / Reliable's welding cell is now fully operational and open for business! Currently we offer Single and Double Braided Corrugated Metal Hose in sizes ranging from 1/4 inch inside diameter up to 12 inches. Our inventory grows daily, so check with your sales rep for the latest our metal hose cell has to offer.

**METAL HOSE - WELD CELL****GEORGIA**
3400 Town Point Dr.
Suite 130
Kennesaw, GA 30144**OHIO**
2611 Thunderhawk Ct.
Dayton, OH 45414**(866) 641-8851 phone**
(937) 454-2086 fax
sales@cutandcouple.com
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CORRUGATED STAINLESS STEEL METAL HOSE SINGLE BRAID

HOSE MAKEUP: Grade 321 Stainless Steel
BRAID MAKEUP: Grade 304 Stainless Steel
CONSTRUCTION: Annular / Standard Pitch
TEMPERATURE: Max temperature is 1500°F
PRESSURE: Pressure rating greatly reduces as temperature increases
VACUUM: Hose will maintain shape under full vacuum
FITTINGS: Extensive range of welded fittings

FEATURES

- High flexibility
- Excellent for vibration absorption
- Ideal for extreme temperatures and aggressive chemicals
- Very high fire & heat resistance rating
- Not susceptible to gas permeation
- Can be used as protective cover for wires or other hoses

PART NUMBER	I.D. (in)	O.D. (in)	MAX W.P. @70°F	BEND RADIUS (in)		WEIGHT (lbs/ft)
				DYNAMIC	STATIC	
P4-H4021-004*	1/4	0.48	2500	5.00	1.00	0.17
P4-H4021-005*	5/16	0.57	2300	5.00	1.00	0.19
P4-H4021-006*	3/8	0.70	1680	5.50	1.25	0.27
P4-H4021-008	1/2	0.91	1240	6.00	1.50	0.39
P4-H4021-012	3/4	1.28	940	8.00	2.25	0.62
P4-H4021-016	1	1.58	630	9.00	2.75	0.79
P4-H4021-020*	1-1/4	1.93	575	10.50	3.50	1.12
P4-H4021-024	1-1/2	2.28	500	12.00	4.00	1.29
P4-H4021-032	2	2.73	532	15.00	5.00	1.61
P4-H4021-048	3	3.88	400	22.00	9.00	2.00
P4-H4021-064	4	4.98	300	27.00	13.00	2.68

* Non-stock items may take extra time. We can manufacture any assembly 1/4" up to 12" ID

Our logistical team even offers custom packaging for safe transport!



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Corrugated Stainless Steel Metal Hose is truly a feat of engineering ingenuity. Gas tight and capable of handling higher pressure situations, this robust hose has an excellent rating for gas and liquid transfers alike. Just as important as the quality of each metal hose assembly component is the skill and technical prowess of its fabricator. We are proud to have an on-site welding team that has been certified by the American Welding Society (AWS) and the Welder Training and Testing Institute. Our metal hose has been manufactured with an annular profile of independent, parallel corrugations rendering it highly flexible (**FIG-A**). This process also allows for an even distribution of stress along the entire length of the assembly.



FIG-A



FIG-B

The ability of corrugated metal hose to withstand higher pressures is achieved with the aid of **Stainless Steel Braiding (FIG-B)**. The braiding acts as a retardant against hose elongation as well as to dampen mechanical vibration. To achieve even greater working pressure ratings, a technique called Double Braiding (two layers of braid) is employed. Our state-of-the-art facility uses a braiding machine to minimize squirm, ensuring a tight fit against the hose, as well as a high percentage braid coverage to extend the life of the assembly and guard against potential environmental damage. Braid sleeves are welded to the core using a Braid Ferrule during fabrication of each unique assembly. Per request, Covers and Armor are available for added protection.



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CORRUGATED STAINLESS STEEL METAL HOSE DOUBLE BRAID

Second braid adds increased resistance to hose elongation due to internal pressure.

PART NUMBER	I.D. (in)	O.D. (in)	MAX W.P. @70°F	BEND RADIUS (in)		WEIGHT (lbs/ft)
				DYNAMIC	STATIC	
P4DB-H4021-004*	1/4	0.56	3375	5.00	1.00	0.26
P4DB-H4021-005*	5/16	0.64	3680	5.00	1.00	0.29
P4DB-H4021-006*	3/8	0.81	2700	5.50	1.25	0.41
P4DB-H4021-008	1/2	0.98	1980	6.00	1.50	0.55
P4DB-H4021-012	3/4	1.35	1500	8.00	2.25	0.85
P4DB-H4021-016	1	1.65	1000	9.00	2.75	1.05
P4DB-H4021-020*	1-1/4	2.02	920	10.50	3.50	1.48
P4DB-H4021-024	1-1/2	2.37	800	12.00	4.00	1.74
P4DB-H4021-032	2	2.85	850	15.00	5.00	2.33
P4DB-H4021-048	3	3.98	600	22.00	9.00	2.80
P4DB-H4021-064	4	5.08	444	27.00	13.00	3.68

* Non-stock items may take extra time. We can manufacture any assembly 1/4" up to 12" ID



WE STOCK AN EXTENSIVE WELD END FITTING INVENTORY

PIPE THREAD FITTINGS

Plain Male
Hex Male
Unions
Pipe Couplings

INDUSTRIAL COUPLINGS

Female JIC Swivel
Pipe Weld Fittings
Camlock
Grooved End

ANSI FLANGES

Floating
Fixed
Lap Joint
TTMA

SANITARY FDA / 3A

Bevel
Clamp
I-Line
DIN

AND MANY MORE!

