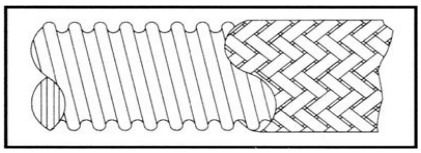
universal
hose & braid a Hyspan company

ISO 9001 : 2015

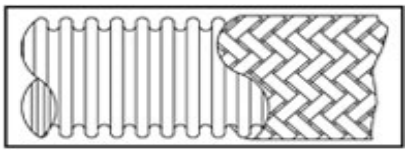
Corrugated Metal Hose and Braid — Bulletin #303

As one of the founding companies in the metal hose industry, UHB has been the #1 choice for corrugated metal hose solutions since 1942.

Manufactured to the highest standards, Universal corrugated metal hose is typically made from 321 or 316 stainless steel and covered in single or dual layers of braid to handle high pressure gas or liquid, leak free applications. Standard nominal ID sizes range from 1/4" - 12" and a variety of fitting possibilities are available. 1/4" through 3" ID hose sizes are provided as either helical or annular and the annular style is the standard for all larger sizes (above 3" ID).



Helical Style—Braided



Annular Style—Braided

Universal Hose & Braid can also provide corrugated hose in carbon steel, bronze, Inconel or monel, and all hose assemblies are leak tested to 100 PSIG air under water. (Special test requests can be made available—please consult factory for details.)

All UHB corrugated hose sizes can be supplied as bulk hose or as braided hose assemblies. A wide variety of fitting ends are available. Please contact your friendly UHB factory representative for more specific details.

The life cycle expectancy for Universal corrugated metal hose assemblies is significantly affected by several factors, most import are: bend radius, operating temperature and working pressure. Please review the temperature and application charts on the back of this bulletin to select your required hose part number, or consult our factory for additional service.

* Please see hose selection and working temperature charts on reverse side.

STANDARD APPLICATIONS

- **Compressed Air Systems - pneumatic tools, production machinery & conveyor systems**
- **Compressed Water Distribution — in-building transfer, equipment cooling and cleaning (wash down applications)**
- **Fluid Transfer Systems — storage tank transfer, cutting fluid recirculation, moving machine parts lubrication**
- **Steam handling & Transfer— product/ equipment cleaning and heating system operation**
- **Moving/ Vibrating Equipment — air compressors, pumps/ motors and misaligned pipeline connections**
- **Wire/ Cable/ Fluid Protection— sub-assembly connections, excess weight/ extreme pressure damage and to minimize animal damage**

17111 Wallace Street—
South Holland, IL 60473-2735
Phone: 773-277-0700 Fax: 773-277-0708
www.universalhb.com

universal
hose & braid a Hyspan company

Corrugated Metal Hose and Braid (con't.)

Stainless Steel Hose ID	Working PSIG		Bend Radius Max. Static	Bend Radius Max. Dynamic	Stainless Steel Hose ID		Working PSIG	Bend Radius Max. Static	Bend Radius Max. Dynamic
1/4" Single Braid	3041		7/8"	5"	2" Single Braid		608	5"	15"
Double Braid	5929				Double Braid		1185		
3/8" Single Braid	2314		1-1/8"	5-1/2"	2-1/2" Single Braid		387	8"	20"
Double Braid	4508				Double Braid		619		
1/2" Single Braid	1264		2"	7"	3" Single Braid		316	9"	22"
Double Braid	2464				Double Braid		506		
3/4" Single Braid	1069		2-1/8"	8"	4" Single Braid		232	13"	27"
Double Braid	2084				Double Braid		371		
1" Single Braid	722		2-3/4"	9"	6" Single Braid		165	19"	36"
Double Braid	1407				Double Braid		264		
1-1/4" Single Braid	667		3-1/2"	11"	8" Single Braid		234	20"	40"
Double Braid	1300				Double Braid		374		
1-1/2" Single Braid	600		3-3/4"	12"	10" Single Braid		230	25"	50"
Double Braid	1170				Double Braid		367		

*Standard working temperature = 70 degrees F

If the service conditions exceed 70 deg. F, the working pressure ratings must be reduced by the following factors: (all temperatures—Fahrenheit—max. working temperature is 1500 deg. F)

Temperature	Multiply by	Temperature	Multiply by	Temperature	Multiply by
70 degrees	100	150 degrees	.92	200 degrees	.89
300 degrees	.83	400 degrees	.81	500 degrees	.78
600 degrees	.75	700 degrees	.70	800 degrees	.66
900 degrees	.62	1000 degrees	.60	1200 degrees	..55
1300 degrees	.50	1400 degrees	.44	1500 degrees	.40

17111 Wallace Street–
South Holland, IL 60473-2735
Phone: 773-277-0700 Fax: 773-277-0708
www.universalhb.com

ISO 9001 : 2015

CERTIFIED