

Features

HOSE USA INC. PUMP CONNECTORS ARE DESIGNED TO PROTECT AGAINST MECHANICAL FAILURES RELATED TO EXCESSIVE VIBRATION, CORRECT CONDITIONS INVOLVING TEMPERATURE VARIATIONS, MISALIGNMENT & INTERMITTENT OFFSET

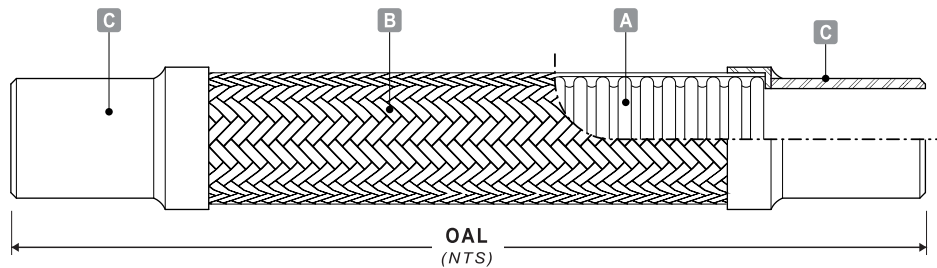
A Bronze Annular Corrugated Hose

B Bronze Braid

C Fittings

All Assemblies Tested

Operating Temperature to 400°F *



* WORKING PRESSURES DECREASE AS
OPERATING TEMPERATURES INCREASE

HBB PERFORMANCE CHARACTERISTICS

PIPE SIZE Inches	OAL	70° F PSIG
1/2	6-1/2	500
3/4	7	500
1	8	500
1-1/4	8-1/2	500
1-1/2	9	475
2	10-1/2	400
2-1/2	12	400
3	14	400
4	16	280

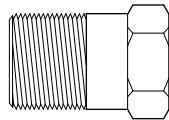
Fittings

SWEAT

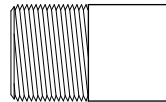


SWC
SWEAT COUPLING

NPT



HMN
HEX MALE NPT



MNN
MALE NPT NIPPLE

Ordering Information

TYPE	HOSE ASSEMBLY	PIPE SIZE	OVERALL LENGTH	FITTING END 1	FITTING END 2	FITTING ALLOY	SPECIAL REQUIREMENTS
HBB							
	1201 1 LAYER BRAID	080 1/2"	DECIMAL INCHES	SWC SWEAT COUPLING		BZ BRONZE	INS INSULATED
	1202 2 LAYER BRAID	120 3/4"	ex. 30.625 for 2" - 6 3/4"	HMN HEX MALE NPT		CS CARBON ST	OHM HEAT SHRINK CVR
		160 1"		MNN MALE NPT NIPPLE		CU COPPER	
		200 1-1/4"					
		240 1-1/2"					
		320 2"					
		400 2-1/2"					
		480 3"					

Customer: _____

PO Number: _____

Project: _____

Notes: _____



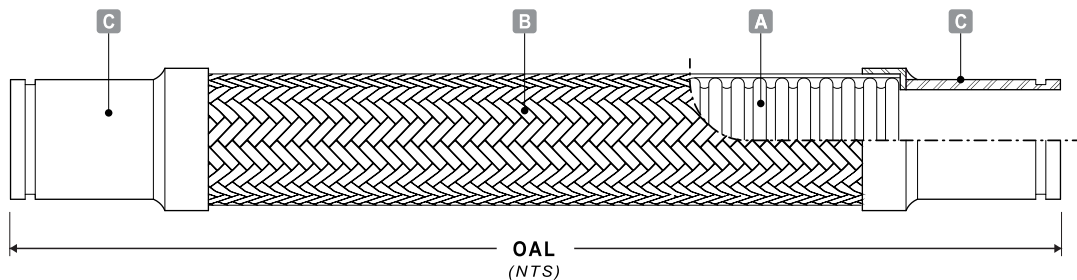
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- A** Stainless Steel Corrugated Hose
- B** Stainless Steel Braid
- C** Steel Grooved Fittings - Additional Alloys Available

All Assemblies Tested

Operating Temperature: Carbon Steel 850°F; Stainless St 1000°F *



* WORKING PRESSURES DECREASE AS
OPERATING TEMPERATURES INCREASE

Ordering Information

TYPE	HOSE ASSEMBLY	PIPE SIZE	OVERALL LENGTH	FITTING END 1	FITTING END 2	FITTING ALLOY	SPECIAL REQUIREMENTS
HVV				GRF	GRF		
	7161 700: 1 LAYER BRAID	320 2"	DECIMAL INCHES	GRF GROOVED END FITTING		CS CARBON ST	AIS AIS COMPLIANT
	7162 700: 2 LAYER BRAID	400 2-½"	ex. 30.625 for 2' - 6 ¾"			SS STAINLESS ST	AGD ARMOR GUARD
		480 3"					INS INSULATED
		640 4"					OHM HEAT SHRINK CVR
		800 5"					
		960 6"					
		1280 8"					

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A Stainless Steel Corrugated Hose

All Assemblies Tested

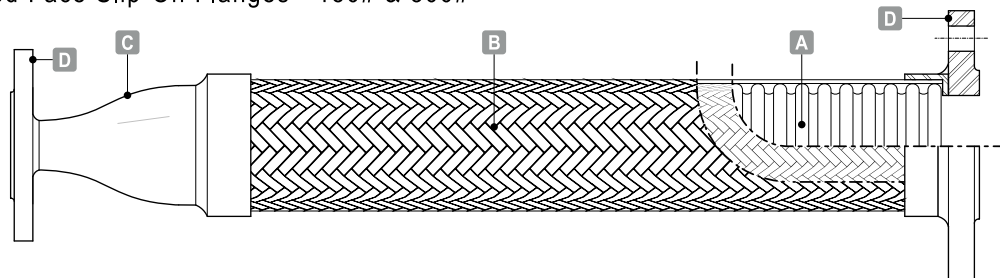
B Stainless Steel Braid

Operating Temperature to 450° F*

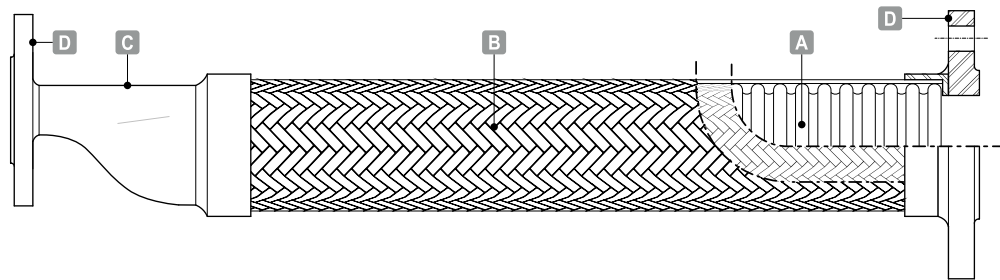
C Sch 40 Carbon Steel Reducing Connector

D Flat & Raised Face Slip-On Flanges - 150# & 300#

HCR
Concentric
Reducer



HER
Eccentric
Reducer



OAL
(NTS)

* WORKING PRESSURES DECREASE AS
OPERATING TEMPERATURES INCREASE

Ordering Information

TYPE	HOSE ASSEMBLY	PIPE SIZE	OVERALL LENGTH	FITTING END 1	FITTING END 2	FITTING ALLOY	SPECIAL REQUIREMENTS
HCR	7161 SS: 1 LAYER BRAID	320 2"	DECIMAL INCHES <i>ex. 30.625 for 2' - 6 3/4"</i>	1SF 150# SLIP-ON FLANGE		04 304L	316 316 SST BRAID
HER	7162 SS: 2 LAYER BRAID	400 2-1/2"		3SF 300# SLIP-ON FLANGE		16 316L	AIS AIS COMPLIANT
	8161 SS: 1 LAYER BRAID	480 3"		1RF 150# RAISED FACE FLANGE		CS CARBON ST	AGD ARMOR GUARD
	8162 SS: 2 LAYER BRAID	640 4"		3RF 300# RAISED FACE FLANGE		FS FORGED ST	INS INSULATED
	9161 SS: 1 LAYER BRAID	800 5"					OHM HEAT SHRINK CVR
	9162 SS: 2 LAYER BRAID	960 6"					SIL SST INTERLOCK LINER
		1280 8"					
		1600 10"					
		1920 12"					
		2240 14"					

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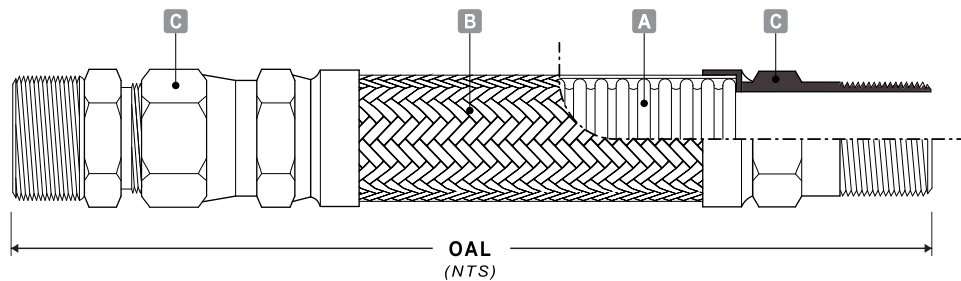
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- A** Stainless Steel Annular Corrugated Hose
- B** Stainless Steel Braid
- C** Stainless Steel Fittings - Additional Alloys Available

All Assemblies Tested

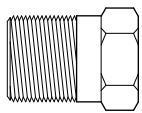
Rated for 150 PSIG @ 350°F*



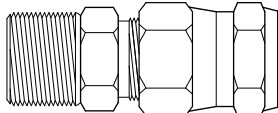
* WORKING PRESSURES DECREASE AS
OPERATING TEMPERATURES INCREASE

Fittings

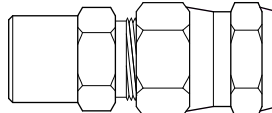
NPT



HMT
HEX MALE NPT

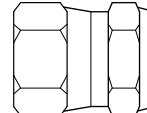


MNU
MALE NPT UNION

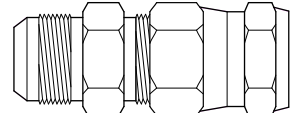


FNU
FEMALE NPT UNION

JIC



FJC
FEMALE JIC SWIVEL



MJU
MALE JIC UNION

Ordering Information

TYPE	HOSE ASSEMBLY	PIPE SIZE	OVERALL LENGTH	FITTING END 1	FITTING END 2	FITTING ALLOY	SPECIAL REQUIREMENTS
HHP							
	7161 700: 1 LAYER BRAID	060 3/8"	DECIMAL INCHES	HMT HEX MALE NPT		04 304L	004 304L HOSE/BRAID
	7162 700: 2 LAYER BRAID	080 1/2"	<i>ex. 30.625 for 2' - 6 3/4"</i>	MNU MALE NPT UNION		16 316L	016 316L HOSE/BRAID
		120 3/4"		FNU FEMALE NPT UNION		21 321L	021 321L HOSE/BRAID
		160 1"		FJC FEMALE JIC SWIVEL		CS CARBON ST	AIS AIS COMPLIANT
		200 1-1/4"		MJU MALE JIC UNION		FS FORGED ST	AGD ARMOR GUARD
		240 1-1/2"					OHM HEAT SHRINK COVER
		320 2"					INS INSULATED

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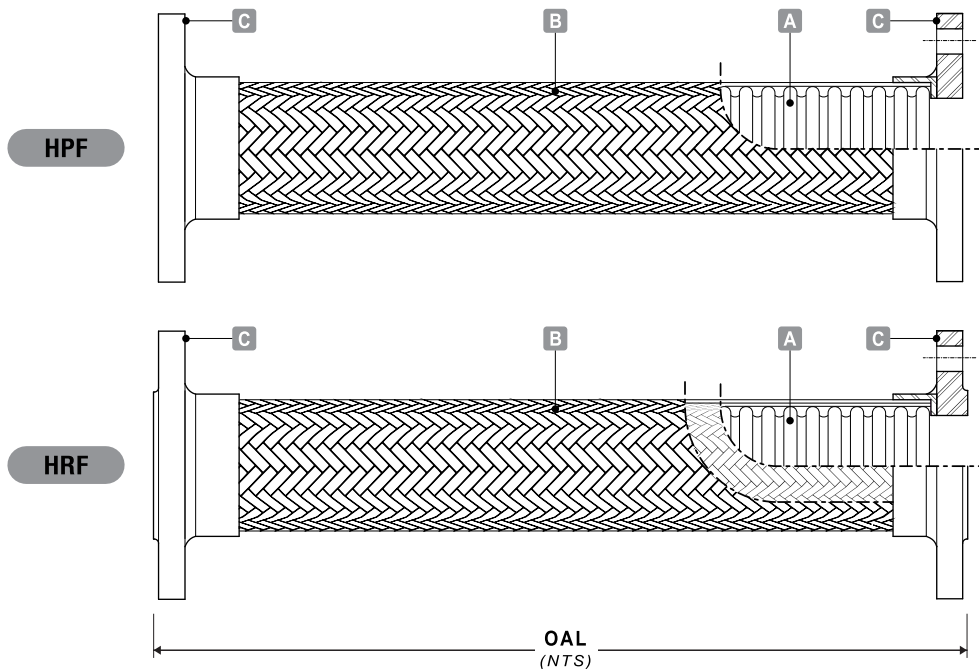
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- A** Stainless Steel Corrugated Hose
- B** Stainless Steel Braid
- C** Flat & Raised Face Slip-On Flanges - 150# or 300#

All Assemblies Tested

Operating Temperature: Carbon St 850°F; Stainless St 1000°F *

* WORKING PRESSURES DECREASE AS
OPERATING TEMPERATURES INCREASE



PERFORMANCE CHARACTERISTICS				
PIPE SIZE Inches	HPF		HRF	
	OAL	70° F PSIG	OAL	70° F PSIG
2	9	150	11	285
2-1/2	9	150	12	285
3	9	150	12	285
4	9	150	14	285
5	11	150	15	191
6	11	150	15	165
8	12	150	16	234
10	13	150	18	230
12	14	150	20	165
14	14	150	21	150
16	14	110	23	110

Ordering Information

TYPE	HOSE ASSEMBLY	PIPE SIZE	OVERALL LENGTH	FITTING END 1	FITTING END 2	FITTING ALLOY	SPECIAL REQUIREMENTS
HPF	7161 700: 1 LAYER BRAID	320 2"	DECIMAL INCHES	1SF 150# SLIP-ON FLANGE		CS CARBON ST	AIS AIS COMPLIANT
HRF	7162 700: 2 LAYER BRAID	400 2-1/2"	ex. 30.625 for 2' - 6 3/4"	3SF 300# SLIP-ON FLANGE		FS FORGED ST	AGD ARMOR GUARD
	8161 800: 1 LAYER BRAID	480 3"		1RF 150# RAISED FACE FLANGE		SS STAINLESS ST	INS INSULATED
	8162 800: 2 LAYER BRAID	640 4"		3RF 300# RAISED FACE FLANGE			OHM HEAT SHRINK CVR
		800 5"					
		960 6"					
		1280 8"					
		1600 10"					
		1920 12"					
		2240 14"					

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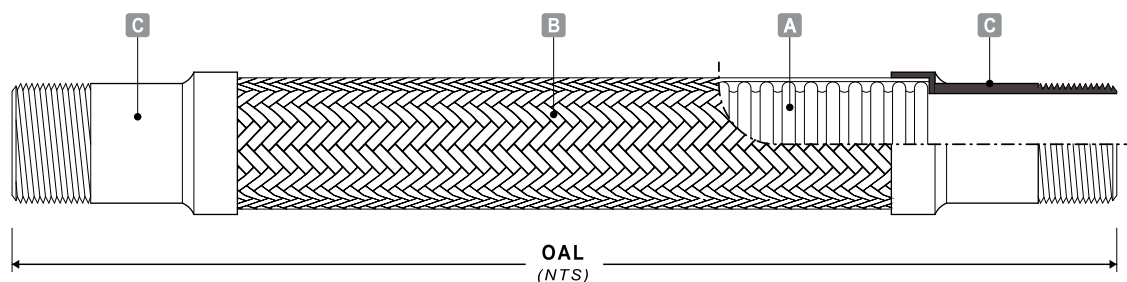
A Stainless Steel Corrugated Hose

B Stainless Steel Braid

C Steel NPT Fittings - Additional Alloys Available

All Assemblies Tested

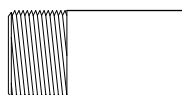
Operating Temperature to 450°F*



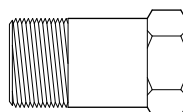
* WORKING PRESSURES DECREASE AS
OPERATING TEMPERATURES INCREASE

Fittings

NPT



MNN
MALE NPT NIPPLE



HMN
HEX MALE NPT

Ordering Information

TYPE	HOSE ASSEMBLY	PIPE SIZE	OVERALL LENGTH	FITTING END 1	FITTING END 2	FITTING ALLOY	SPECIAL REQUIREMENTS
HPM							
	7161 SS: 1 LAYER BRAID	080 1/2"	DECIMAL INCHES	MNN MALE NPT NIPPLE		CS CARBON ST	AGD ARMOR GUARD
	7162 SS: 2 LAYER BRAID	120 3/4"	ex. 30.625 for 2' - 6 3/4"	HMN HEX MALE NPT		FS FORGED ST	INS INSULATED
		160 1"				SS STAINLESS ST	OHM HEAT SHRINK CVR
		200 1-1/4"					
		240 1-1/2"					
		320 2"					
		400 2-1/2"					
		480 3"					
		640 4"					

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