

See

below

to Order

Custom

Length

Hoses

Transfer hoses are manufactured specifically for the demanding requirements of CO2 liquid and vapor transfer. Unlike rubber hydraulic hose that is constructed with carbon steel reinforcing, these hoses are reinforced with stainless steel braids to resist carbonic acid – the result of CO2 and moisture combination. In addition, our pricked cover solves the problem of bubbling that the covers of hydraulic hoses have experienced. These hoses will be dramatically more flexible in CO2 transfer than standard rubber hoses due to a specially blended tube rated to minus 65° F. The two-braid construction also offers much better kink resistance than comparable single braid products.

SPECIFICATIONS Liquid / Vapor CO2 Transfer Hose

Tube Special Neoprene blend rated for -65° F **Reinforcement** Two stainless steel braids **Cover** Special Neoprene blend. Black with blue Mylar **Temperature** -65° F to +180° F

Pressure Range 450 PSIG MAWP

Branding Blue Mylar

CGA Fittings Brass sleeve, nut, and dust caps available **Other Fittings Available** Female NPT brass bar-stock fitting with aluminum crimp collar

A WARNING: Products in this catalog can expose you to chemicals including Lead which is known to the State of California to cause cancer, birth defects or reproductive harm. For more information, go to https://www.p65warnings.ca.gov

Part #	l.D. (ln.)			Min Burst PSIG	Weight Per Foot	
CTH1	1	1.58	450	2250	0.83	
CTH112	1 1/2	2.08	450	2250	1.19	
CTH2	2	2.60	450	2250	1.90	

CO2 Transfer Hoses – 450 PSIG MAWP

Female NPT x Female NPT

1″ I.D	1″	FNPT	x 1″	FNPT	
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Hose Length	Part #
10′	CTH-1ID-F1BH120
20'	CTH-1ID-F1BH240

1" Carbon Dioxide Connection

CO2 Connections

Hose Length	Part #
10′	CTH-1ID-CGA320BH120
20′	CTH-1ID-CGA320BH240

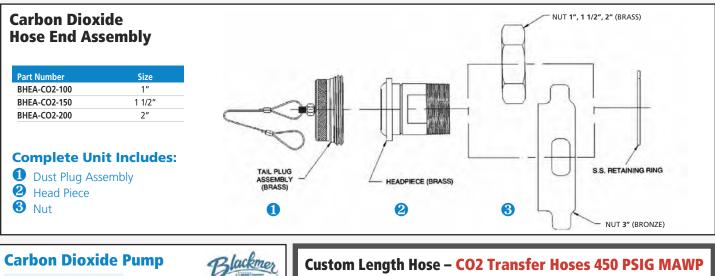
CTH-2ID-CGA320BH240

1 1/2" I.D. - 1 1/2" FNPT x 1 1/2" FNPT 1 1/2" Carbon Dioxide Connection

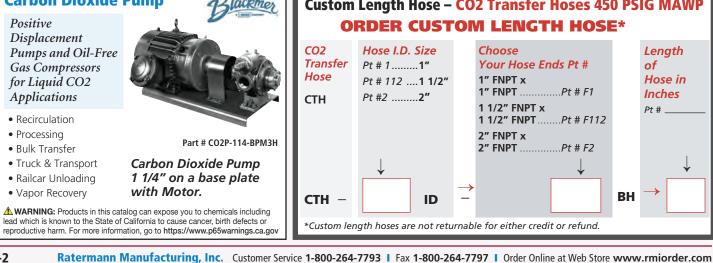
CTH-2ID-F2BH240

Hose Length	Part #	Hose Length	Part #
10′	CTH-112ID-F112BH120	10′	CTH-112ID-CGA320BH120
20'	CTH-112ID-F112BH240	20′	CTH-112ID-CGA320BH240
2″ I.D 2″	FNPT x 2" FNPT	2″ I.D C	arbon Dioxide Connection
Hose Length	Part #	Hose Length	Part #
10′	CTH-2ID-F2BH120	10′	CTH-2ID-CGA320BH120

20'



20



Mini Bulk Liquid 792 & 1,330 PSIG MAWP

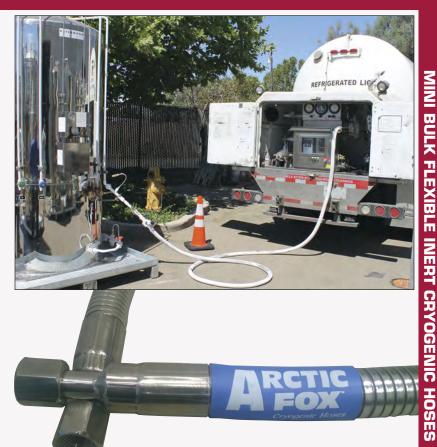
Transfer Armored Hoses

Flexible INERT CRYOGENIC LIQUID CYLINDER HOSES

1/2" & 3/4" inner diameter standard duty stainless steel hose to provide a dependable, high pressure hose for your cryogenic transfer applications. Machine flare ends and stainless steel hex nuts are standard on these hoses.

Stamped with PSIG MAWP, and month/year of manufacturer.

For Oxygen Transfer Hoses, please see 19A 9 & 11



		1/2	ID nose –	1,330 F	SIG WAWP
		In the	sesse		
		Witho	ut Armor Casing	With	Armor Casing*
INLET	OUTLET	CGA 29	5 x CGA 295	* Hoses u armore	ınder 18″ cannot b d.
		Hose Length	Part #	Hose Length	Part #
		20′	FPCGA295CH240	20′	FPACGA295CH240
		25'	FPCGA295CH300	25'	FPACGA295CH300
CGA 295	CGA 295	50'	FPCGA295CH600	50'	FPACGA295CH600
INLET	OUTLET	CGA 29	5 x 1/2" NPT Male		
		Hose Length	Part #	Hose Length	Part #
		20′	FPM12C295CH240	20'	FPAM12C295CH240
		25′	FPM12C295CH300	25′	FPAM12C295CH300
CGA 295	NPT Male	50'	FPM12C295CH600	50'	FPAM12C295CH600
INLET	OUTLET	1/2″ NP	T Male x 1/2" NPT I	Male	
		Hose Length	Part #	Hose Length	Part #
		20'	FPM12CH240	20'	FPAM12CH240
		25'	FPM12CH300	25'	FPAM12CH300
NPT Male	NPT Male	50'	FPM12CH600	50'	FPAM12CH600
			OTHER LENGTH		BLE

1/2" ID Hose – 1,330 PSIG MAWP

Without Armor Casing

CGA 295 x CGA 295

Hose Length	Part #	Hose Length	Part #
20′	FP34IDCGA295CH240	20′	FPA34IDCGA295CH240
25′	FP34IDCGA295CH300	25′	FPA34IDCGA295CH300
50'	FP34IDCGA295CH600	50′	FPA34IDCGA295CH600

3/4" ID Hose - 792 PSIG MAWP

With Armor Casing*

* Hoses under 18" cannot be

armored.

CGA 295 x 3/4" NPT Male

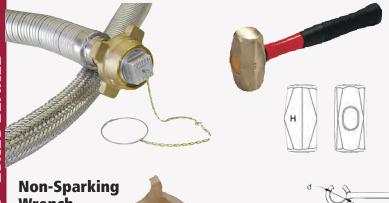
Hose Length	Part #	Hose Length	Part #
20′	FP34IDM34C295CH240	20′	FPA34IDM34C295CH240
25′	FP34IDM34C295CH300	25'	FPA34IDM34C295CH300
50'	FP34IDM34C295CH600	50'	FPA34IDM34C295CH600

3/4" NPT Male x 3/4" NPT Male

Hose Length	Part #	Hose Length	Part #
20′	FP34IDM34CH240	20′	FPA34IDM34CH240
25'	FP34IDM34CH300	25′	FPA34IDM34CH300
50'	FP34IDM34CH600	50'	FPA34IDM34CH600

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Non-Sparking Tools

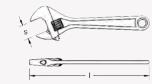


Wrench, Valve Wheel (DIN 87311)



Part #	Inch	Inch	Inch	lbs.	mm	mm	mm	kg
NST-WRVW-08	1 1/4	2 1/4	8 9/16	0.86	32	56	215	0.39
NST-WRVW-11	1 7/16	2 1/4	11 9/16	2.27	36	56	290	1.03
NST-WRVW-16	1 7/8	3 3/16	16	1.90	48	80	400	0.86
NST-WRVW-19	2 3/8	4	19 9/16	4.30	60	100	490	1.95
NST-WRVW-32	2 3/8	4 3/8	32	12.57	60	110	800	5.70

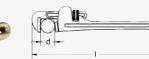
Non-Sparking Wrench, Adjustable End



Part #	s max Inch	l Inch	Wt. Ibs.	s max mm	l mm	kg
NST-WRAE-06	3/4	6	0.29	19	150	0.13
NST-WRAE-08	15/16	8	0.62	24	200	0.28
NST-WRAE-10	1 1/8	10	1.06	28	250	0.48
NST-WRAE-12	1 3/8	12	1.68	34	300	0.76
NST-WRAE-15	1 3/4	15	3.13	45	375	1.42
NST-WRAE-18	2 3/16	18	6.19	55	450	2.81
NST-WRAE-24	2 3/8	24	10.87	60	600	4.93

Non-Sparking Wrench, Pipe





Part #	d max Inch	l Inch	Wt. Ibs.	d max mm	l mm	kg
NST-WRP-06	3/4	6	0.66	20	150	0.30
NST-WRP-08	1	8	1.04	25	200	0.47
NST-WRP-10	1 3/16	10	2.25	30	250	1.02
NST-WRP-12	1 9/16	12	3.26	40	300	1.48
NST-WRP-14	2	14	3.59	50	350	1.63
NST-WRP-18	2 3/8	18	6.28	60	450	2.85
NST-WRP-24	3	24	10.67	75	600	4.84
NST-WRP-36	3 3/8	36	17.17	85	900	7.79
NST-WRP-48	4 3/8	48	29.92	110	1200	13.57

Non-Sparking Hammer Club

Part #	Material	Head Wt. Lbs.	Head Wt. Kg
NST-HM-1A	Aluminum Bronze	1	0.50
NST-HMC-2A	Aluminum Bronze	2	0.91
NST-HMC-2C	Copper Beryllium	2	0.91
NST-HMC-4A	Aluminum Bronze	4	1.81
NST-HMC-4C	Copper Beryllium	4	1.81
NST-HMC-7A	Aluminum Bronze	7	3.18
NST-HMC-7C	Copper Beryllium	7	3.18

Zone Definitions Gas, Mists or Vapors

- **Zone 0** An atmosphere where a mixture of air and flammable substances in the form of gas, vapor or mist is present frequently, continuously or for long periods.
- **Zone 1** An atmosphere where a mixture of air and flammable substances in the form of gas, vapor or mist is likely to occur in normal operation occasionally.
- **Zone 2** An atmosphere where a mixture of air and flammable substances in the form of gas, vapor or mist is not likely to occur in normal operation but, if it does occur, will persist for only a short period.
- Other Zone Information Available Contact us, we will be happy to get the info to you!

How to Choose the Correct Alloy for Your Application

	Aluminum-Bronze (AlBr) Alloy	Copper-Beryllium (CuBez) Alloy		
Zone Compatibility	Fulfill demand in ATEX directive for work in Zones 1 and 2	Fulfill demand in ATEX directive for work in Zones 0, 1 and 2		
Hardness	23-35 HRC	33-45 HRC		
Durability	Not as durable as CuBez.	Very durable due to high hardness and tensile strength.		
Magnetic Properties	Low magnetism due to minimal ferrous components. Appropriate for non-critical non-magnetic applications.	Non-ferrous components; safer for applications demanding non- magnetic properties.		
Composition	Al: 9.5-11% Fe: 3.5-5.5% Ni: 3.5-5.5% Other: 0.5% max Cu: Balance	Be: 1.8-2.1% Co + Ni: 0.6% max Other: 0.5% max Cu: Balance		

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ARG	ON	
Cryogenic B	Bulk Hose	
		Full Length Armor18" Armor CuffsNo Armor No Cuffs
1 1/2 INCH HOSE	472 PSIG MAW	Inter: Inter:
		Size Size
		in ft. Part # in ft. Part # 12' BHA-112ID-144AR150M112 12' BH-A18-112ID-144AR150M112 12' BH-112ID-144AR150M112
AR-150	1 1/2" NPT Male	16' BHA-112ID-192AR150M112 16' BH-A18-112ID-192AR150M112 16' BH-A19-112ID-192AR150M112 20' BHA-112ID-240AR150M112 20' BH-A18-112ID-240AR150M112 16' BH-112ID-240AR150M112
INLET	OUTLET	AR-150 x AR-150
		Size Size in ft. Part # in ft. Part #
		12' BHA-112ID-144AR150 12' BH-A18-112ID-144AR150 12' BH-112ID-144AR150 15' DH-412 D-144AR150 12' BH-418-112ID-144AR150 12' BH-418-112ID-144AR150
AR-150	AR-150	16' BHA-112ID-192AR150 16' BH-A18-112ID-192AR150 16' BH-112ID-192AR150 20' BHA-112ID-240AR150 20' BH-A18-112ID-240AR150 20' BH-112ID-240AR150
INLET	OUTLET	1 1/2" NPT Male x 1 1/2" NPT Male
		Size Size Size in ft. Part # in ft.
		12' BHA-112ID-144M112 12' BH-A18-112ID-144M112 12' BH-112ID-144M112 16' BHA-112ID-192M112 16' BH-A18-112ID-192M112 16' BH-112ID-192M112
1 1/2" NPT Male	1 1/2" NPT Male	10 bitArtizioriszimitiz 10 bitArtizioriszimitiz 10 bitArtizioriszimitiz 20' BHA-112ID-240M112 20' BH-A18-112ID-240M112 20' BH-A18-112ID-240M112
2 INCH HOSE 51	6 PSIG MAWP	LINER: CORRUGATED 321 STAINLESS STEEL
INLET	OUTLET	AR-250 x 2" NPT Male Size Size Size
		in ft. Part # in ft. Part # in ft. Part #
199		12' BHA-2ID-144AR250M2 12' BH-A18-2ID-144AR250M2 12' BH-2ID-144AR250M2 16' BHA-2ID-192AR250M2 16' BH-A18-2ID-192AR250M2 16' BH-2ID-192AR250M2
AR-250	2" NPT Male	20' BHA-2ID-240AR250M2 20' BH-A18-2ID-240AR250M2 20' BH-2ID-240AR250M2
INLET	OUTLET	AR-250 x AR-250
		Size Size Size in ft. Part # in ft.
and the second second	and the second second	12' BHA-2ID-144AR250 12' BH-A18-2ID-144AR250 12' BH-2ID-144AR250 16' BHA-2ID-192AR250 16' BH-A18-2ID-192AR250 16' BH-2ID-192AR250
AR-250	AR-250	10 DHA-21D-192AR230 10 DH-21D-192AR230 10 DH-21D-192AR230 20' BHA-21D-240AR250 20' BH-A18-21D-240AR250 20' BH-21D-240AR250
		2" NPT Male x 2" NPT Male
	OUTLET	Size Size Size in ft. Part # in ft. Part #
		12' BH-A1D-144M2 12' BH-A18-2ID-144M2 12' BH-A18-2ID-144M2
2" NPT Male	2" NPT Male	16' BHA-2ID-192M2 16' BH-A18-2ID-192M2 16' BH-2ID-192M2 20' BHA-2ID-240M2 20' BH-A18-2ID-240M2 20' BH-2ID-240M2
		you to chemicals including Lead which is known to the State of California For more information, go to https://www.p65warnings.ca.gov
Argon Tail Dus Plug Assembly		Liquid CGA "T" A Part # Service Size Designation Thread Size Inches MM
Plug material cast alumi	inum,	BH-DP-150-AR Argon 1 1/2" AR-150 2.76-4 Stub Acme 4.000 101.6 BH-DP-250-AR Argon 2 1/2" AR-250 3.813-4 Acme 4.000 101.6
black anodized Tenzallo B-179 Alum. #713.1	ру	BIPDF*230*Ait Algon 2 1/2 Ait*230 3.013*4 Active 4.000 101.0
Copper Clad G	asket	
(double jacket)		Part # Size Inches MM Inches MM Inches MM Material
or Virgin PTFE		BH-FCG-150-COPPER 1 1/2" 1.94 49.3 1.50 38.1 .09 2.29 Copper BH-FCG-250-COPPER 2 1/2" 3.00 76.2 2.50 63.5 .09 2.29 Copper
Oxygen clean and cer 25 Copper gaskets per		BH-FCG-150-PTFE 1 1/2" 1.94 49.3 1.50 38.1 .09 2.29 PTFE BH-FCG-250-PTFE 2 1/2" 3.00 76.2 2.50 63.5 .09 2.29 PTFE
100 PTFE gaskets per p		

NITRO	DGEN					mail	heat	_		
Cryogenic	Bulk Hose									innin s
		Full Length Arr	nor	18″ A	rmor C	uffs		No	Armo	r No Cuf
1 1/2 INCH HOSE	472 PSIG MAWP	LINER: CORRUGAT	ED 321 ST	AINLE	ESS ST	EEL-				
INLET	OUTLET	NI-150 x 1 1/2" NPT Male								
		Size in ft. Part #	Size in ft.	Part #				Size in ft.	Part #	
		12' BHA-112ID-144NI150	M112 12'	BH-A18-	-112ID-144I	NI150M1	12	12′		-144NI150M1
NI-150	1 1/2" NPT Male	16' BHA-112ID-192NI150 20' BHA-112ID-240NI150			-112ID-192I -112ID-240I			16' 20'		-192NI150M1 -240NI150M1
MI-150			<u>VITI2</u> 20	вп-Ато-	-11210-2401		12	20	BH-112ID	-2401011501011
INLET	OUTLET	NI-150 x NI-150	Circ					C		
		Size in ft. Part #	Size in ft.	Part #				Size in ft.	Part #	
		12' BHA-112ID-144NI150	12′	BH-A18-	-112ID-144I	NI150		12′	BH-112ID	-144NI150
NI-150	NI-150	16' BHA-112ID-192NI150 20' BHA-112ID-240NI150	<u> </u>		-112ID-192 -112ID-240		_	16' 20'		-192NI150
10-150	141-150			вп-Ато-	-11210-2401	11110	_	20	BH-1121D	-240NI150
INLET	OUTLET	1 1/2" NPT Male x 1 1/2"								
		Size in ft. Part #	Size in ft.	Part #				Size in ft.	Part #	
		12' BHA-112ID-144M112	12'	BH-A18-	-112ID-144I	M112		12′	BH-112ID	-144M112
1 1/2" NPT Male	1 1/2" NPT Male	16' BHA-112ID-192M112	16'		-112ID-192I			16′		-192M112
		20' BHA-112ID-240M112	20'	BH-A18-	-112ID-240I	M112	_	20'	BH-112ID	-240M112
2 INCH HOSE 516		NER: CORRUGATED	B21 STAIN	LESS	STEEL					
INLET	OUTLET	NI-250 x 2" NPT Male Size	Size					Size		
		in ft. Part #	in ft.	Part #				in ft.	Part #	
		12' BHA-2ID-144NI250M			-2ID-144NI2			12′		44NI250M2
		16' BHA-2ID-192NI250M 20' BHA-2ID-240NI250M			-2ID-192NI2 -2ID-240NI2		-	16' 20'		92NI250M2 40NI250M2
NI-250	2" NPT Male	20 BHA-21D-240Mi230Mi	20	DIFATO	-210-2401012	ZJUIVIZ	_	20	DII-ZID-Z	
INLET	OUTLET	NI-250 x NI-250								
		Size	Size					Size		
A DECEMBER OF		in ft. Part #	in ft.						Part #	
a state of the second sec	Same and the American	12' BHA-2ID-144NI250 16' BHA-2ID-192NI250	<u> </u>		-2ID-144NI2 -2ID-192NI2		-	12' 16'	BH-2ID-1 BH-2ID-1	
NI-250	NI-250	20' BHA-2ID-240NI250	20'		-2ID-240NI2			20'	BH-2ID-2	
141-230	141-250									
INLET	OUTLET	2" NPT Male x 2" NPT M						<i>c</i> :		
		Size in ft. Part #	Size in ft.	Part #				Size in ft.	Part #	
		12' BHA-2ID-144M2	12'	BH-A18-	-2ID-144M2	2		12′	BH-2ID-1	44M2
	2// AUDT A//- /-	16' BHA-2ID-192M2	16'		-2ID-192M2		_	16'	BH-2ID-1	
2" NPT Male	2" NPT Male	20' BHA-2ID-240M2	20'		-2ID-240M2	2	_	20'	BH-2ID-2	401012
		chemicals including Lead which is kno nore information, go to https://www.p								
Conner Clad C	askot	FULL COPPER JACKET								
Copper Clad Ga (double jacket)	asket	A Doub #			A	B		Inclusion	C	Na da da da da
or Virgin PTFE		Part #		Inches		Inches		Inche		Material
Oxygen clean and cer	tified.	BH-FCG-150 BH-FCG-250	-COPPER 1 1/2" -COPPER 2 1/2"	1.94 3.00	49.3 76.2	1.50 2.50	38.1 63.5	.09 .09	2.29 2.29	Copper Copper
25 Copper gaskets per		BH-FCG-150	-PTFE 1 1/2"	1.94	49.3	1.50	38.1	.09	2.29	PTFE
100 PTFE gaskets per pa		NON ASSESTOS CORE ARMETRONO D-8000	-PTFE 2 1/2"	3.00	76.2	2.50	63.5	.09	2.29	PTFE
Nitrogen Tail D			Fo	or more	e detail	s see	19B-	15		
Plug Assembly		\bigcap	Liquid		CGA		"T'			А
Plug material cast alumi	num,	Part #	Service	Size	Designat	ion	Thread	Size	Inches	MM

Plug material cast aluminum, black anodized Tenzalloy B-179 Alum. #713.1

Nitrogen

Nitrogen

1 1/2″

2 1/2"

NI-150

NI-250

BH-DP-150-NI

BH-DP-250-NI

2.4-4 Stub Acme

3.5-4 Acme

4.000

4.000

101.6

101.6

ΟΧΥ				ANANANA MARKA	_	CODE COLORIZATION
Cryogenic						
Cleaned for Oxygen S	Service to CGA G-4.1	Full Length Armor		mor Cuffs	No	Armor No Cuffs
1 1/2 INCH HOSE 4	472 PSIG MAWP	LINER: CORRUGATED 32	1 STAINL	ESS STEEL		
INLET	OUTLET	OXY-150 x 1 1/2" NPT Male				
		Size	Size		Size	
		in ft. Part #	in ft. Part a		in ft.	Part #
		12' BHA-112ID-1440X150M112 16' BHA-112ID-1920X150M112		18-112ID-1440X150M112 18-112ID-1920X150M112	12' 16'	BH-112ID-1440X150M1 BH-112ID-1920X150M1
OXY-150	1 1/2" NPT Male	20' BHA-112ID-2400X150M112		18-112ID-2400X150M112	20'	BH-112ID-2400X150M1
		OXY-150 x OXY-150				
INLET	OUTLET	Size	Size		Size	
		in ft. Part #	in ft. Part	ŧ	in ft.	Part #
		12′ BHA-112ID-1440X150		18-112ID-1440X150	12'	BH-112ID-1440X150
OXY-150	OXY-150	16' BHA-112ID-1920X150 20' BHA-112ID-2400X150		18-112ID-1920X150 18-112ID-2400X150	16' 20'	BH-112ID-1920X150 BH-112ID-2400X150
0.7-750	071-130	20 011A-11210-2400A130	20 01-A	10-11210-2400/130	20	511-11210-2400/130
INLET	OUTLET	1 1/2" NPT Male x 1 1/2" NPT N	1ale			
		Size in ft. Part #	Size in ft. Part a	ŧ	Size in ft.	Part #
		12' BHA-112ID-144M112		18-112ID-144M112	12'	BH-112ID-144M112
		16' BHA-112ID-192M112		18-112ID-192M112	16'	BH-112ID-192M112
1 1/2" NPT Male	1 1/2" NPT Male	20' BHA-112ID-240M112	20' BH-A'	18-112ID-240M112	20′	BH-112ID-240M112
2 INCH HOSE 516	PSIG MAWP LIN	IER: CORRUGATED 321 S OXY-200 x 2" NPT Male Size	Size	STEEL ———	Size	
		OXY-200 x 2" NPT Male Size in ft. Part #	Size in ft. Part :	ŧ	in ft.	Part # BH-2ID-1440X200M2
		OXY-200 x 2" NPT Male Size	Size in ft. Part ; 12' BH-A'			Part # BH-2ID-1440X200M2 BH-2ID-1920X200M2
		OXY-200 x 2" NPT Male Size in ft. Part # 12' BHA-2ID-1440X200M2	Size in ft. Part : 12' BH-A' 16' BH-A'	# 18-2ID-1440X200M2	in ft. 12'	BH-2ID-1440X200M2
INLET	OUTLET	OXY-200 x 2" NPT Male Size in ft. Part # 12' BHA-2ID-1440X200M2 16' BHA-2ID-1920X200M2	Size in ft. Part : 12' BH-A' 16' BH-A'	# 18-2ID-1440X200M2 18-2ID-1920X200M2	in ft. 12' 16'	BH-2ID-1440X200M2 BH-2ID-1920X200M2
INLET	OUTLET	OXY-200 x 2" NPT Male Size in ft. Part # 12' BHA-2ID-1440X200M2 16' BHA-2ID-1920X200M2 20' BHA-2ID-2400X200M2 OXY-200 x OXY-200 Size	Size in ft. Part f 12' BH-A' 16' BH-A' 20' BH-A' Size	# 18-2ID-1440X200M2 18-2ID-1920X200M2 18-2ID-2400X200M2	in ft. 12' 16' 20' Size	BH-2ID-1440X200M2 BH-2ID-1920X200M2 BH-2ID-2400X200M2
INLET	OUTLET	OXY-200 x 2" NPT Male Size in ft. Part # 12' BHA-2ID-1440X200M2 16' BHA-2ID-1920X200M2 20' BHA-2ID-2400X200M2 OXY-200 x OXY-200	Size in ft. Part = 12' BH-A' 16' BH-A' 20' BH-A' Size in ft. Part =	# 18-2ID-1440X200M2 18-2ID-1920X200M2 18-2ID-2400X200M2	in ft. 12' 16' 20'	BH-2ID-1440X200M2 BH-2ID-1920X200M2 BH-2ID-2400X200M2
INLET	OUTLET	OXY-200 x 2" NPT Male Size in ft. Part # 12' BHA-2ID-1440X200M2 16' BHA-2ID-1920X200M2 20' BHA-2ID-2400X200M2 OXY-200 x OXY-200 Size in ft. Part #	Size in ft. Part = 12' BH-A' 16' BH-A' 20' BH-A' Size in ft. Part = 12' BH-A'	# 18-2ID-1440X200M2 18-2ID-1920X200M2 18-2ID-2400X200M2	in ft. 12' 16' 20' Size in ft.	BH-2ID-1440X200M2 BH-2ID-1920X200M2 BH-2ID-2400X200M2 Part #
INLET	OUTLET	OXY-200 x 2" NPT Male Size in ft. Part # 12' BHA-2ID-1440X200M2 16' BHA-2ID-1920X200M2 20' BHA-2ID-2400X200M2 OXY-200 x OXY-200 Size in ft. Part # 12' BHA-2ID-1440X200	Size in ft. Part # 12' BH-A' 16' BH-A' 20' BH-A' Size in ft. Part # 12' BH-A' 16' BH-A'	# 18-2ID-1440X200M2 18-2ID-1920X200M2 18-2ID-2400X200M2 # 18-2ID-1440X200	in ft. <u>12'</u> <u>16'</u> <u>20'</u> Size in ft. <u>12'</u>	BH-2ID-1440X200M2 BH-2ID-1920X200M2 BH-2ID-2400X200M2 Part # BH-2ID-1440X200
INLET OXY-200 INLET	OUTLET	OXY-200 x 2" NPT Male Size in ft. Part # 12' BHA-2ID-1440X200M2 16' BHA-2ID-1920X200M2 20' BHA-2ID-2400X200M2 OXY-200 x OXY-200 Size in ft. Part # 12' BHA-2ID-1440X200 16' BHA-2ID-1920X200	Size in ft. Part # 12' BH-A' 16' BH-A' 20' BH-A' Size in ft. Part # 12' BH-A' 16' BH-A'	# 18-2ID-1440X200M2 18-2ID-1920X200M2 18-2ID-2400X200M2 # 18-2ID-1440X200 18-2ID-1920X200	in ft. <u>12'</u> <u>16'</u> <u>20'</u> Size in ft. <u>12'</u> <u>16'</u>	BH-2ID-1440X200M2 BH-2ID-1920X200M2 BH-2ID-2400X200M2 Part # BH-2ID-1440X200 BH-2ID-1920X200
INLET DXY-200 INLET DXY-200 OXY-200	OUTLET	OXY-200 x 2" NPT Male Size in ft. Part # 12' BHA-2ID-1440X200M2 16' BHA-2ID-1920X200M2 20' BHA-2ID-2400X200M2 OXY-200 x OXY-200 Size in ft. Part # 12' BHA-2ID-1440X200 16' BHA-2ID-1920X200 20' BHA-2ID-1920X200 20' BHA-2ID-2400X200 20' BHA-2ID-2400X200 20' BHA-2ID-2400X200	Size in ft. Part f 12' BH-A' 16' BH-A' 20' BH-A' Size 12' BH-A' 16' BH-A' 20' BH-A' Size	# 18-2ID-1440X200M2 18-2ID-1920X200M2 18-2ID-2400X200M2 # 18-2ID-1440X200 18-2ID-1920X200 18-2ID-2400X200	in ft. 12' 16' 20' Size in ft. 12' 16' 20' Size	BH-2ID-1440X200M2 BH-2ID-1920X200M2 BH-2ID-2400X200M2 Part # BH-2ID-1440X200 BH-2ID-1920X200 BH-2ID-2400X200
INLET DXY-200 INLET DXY-200 OXY-200	OUTLET	OXY-200 x 2" NPT Male Size in ft. Part # 12' BHA-2ID-1440X200M2 16' BHA-2ID-1920X200M2 20' BHA-2ID-2400X200M2 OXY-200 x OXY-200 Size in ft. Part # 12' BHA-2ID-1440X200 16' BHA-2ID-1440X200 16' BHA-2ID-1920X200 20' BHA-2ID-2400X200 20' BHA-2ID-2400X200 20' BHA-2ID-2400X200 20' BHA-2ID-2400X200	Size in ft. Part i 12' BH-A' 16' BH-A' 20' BH-A' Size in ft. Part i 12' BH-A' 16' BH-A' 20' BH-A' Size in ft. Part i	# 18-2ID-1440X200M2 18-2ID-1920X200M2 18-2ID-2400X200M2 # 18-2ID-1440X200 18-2ID-1920X200 18-2ID-2400X200 # #	in ft. 12' 16' 20' Size in ft. 12' 16' 20' Size in ft.	BH-2ID-1440X200M2 BH-2ID-1920X200M2 BH-2ID-2400X200M2 Part # BH-2ID-1440X200 BH-2ID-1920X200 BH-2ID-2400X200 BH-2ID-2400X200
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INLET DXY-200 INLET DXY-200 OXY-200	OUTLET	OXY-200 x 2" NPT Male Size in ft. Part # 12' BHA-2ID-1440X200M2 16' BHA-2ID-1920X200M2 20' BHA-2ID-2400X200M2 OXY-200 x OXY-200 Size in ft. Part # 12' BHA-2ID-1440X200 16' BHA-2ID-1440X200 20' BHA-2ID-2400X200 20' BHA-21D-2400X200 20' BHA-21D-2400X20 20' BHA-21D-2400X200 20' BHA-21D-2400X20 20' BHA-21D-2400X20 20' BHA-21D-2400X20 20' BHA-21D-2400X20 20'	Size in ft. Part i 12' BH-A' 16' BH-A' 20' BH-A' 20' BH-A' 112' BH-A' 113' B'H-A'	# 18-2ID-1440X200M2 18-2ID-1920X200M2 18-2ID-2400X200M2 # 18-2ID-1440X200 18-2ID-1440X200 18-2ID-2400X200 # 18-2ID-144M2	in ft. 12' 16' 20' Size in ft. 12' 16' 20' Size in ft. 12' 12' 12' 12' 12' 12' 12' 12'	BH-2ID-1440X200M2 BH-2ID-1920X200M2 BH-2ID-2400X200M2 Part # BH-2ID-1440X200 BH-2ID-1440X200 BH-2ID-2400X200 BH-2ID-2400X200 Part # BH-2ID-144M2
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Size in ft. Size in ft. Part # 12′ BHA-3ID-1440X300 12′ BH-A18-3ID-1440X300 12′ BH-3ID-1440X300 16′ BHA-3ID-1920X300 16′ BH-A18-3ID-1920X300 16' BH-3ID-1920X300 20' 20' BHA-3ID-2400X300 20' BH-A18-3ID-2400X300 BH-3ID-2400X300

A WARNING: Products in this catalog can expose you to chemicals including Lead which is known to the State of California to cause cancer, birth defects or reproductive harm. For more information, go to https://www.p65warnings.ca.gov

OXY-300

OXY-300

AR	GON			
Double Braideo	d Cryo Bulk Hose			
		Full Length Armor	18" Armor Cuffs	No Armor No Cuffs
1 1/2 INCH HOSE	665 PSIG MAWP	LINER: CORRUGATED	321 STAINLESS STEEL D	
INLET	OUTLET	AR-150 x 1 1/2" NPT Male		
		Size	Size	Size
		in ft. Part #	in ft. Part #	in ft. Part #
		12' BHDA-112ID-144AR150M112	2 12' BHD-A18-112ID-144AR150M112	2 12' BHD-112ID-144AR150M1
		16' BHDA-112ID-192AR150M112	2 16' BHD-A18-112ID-192AR150M112	2 16' BHD-112ID-192AR150M11
AR-150	1 1/2" NPT Male	20' BHDA-112ID-240AR150M112	20' BHD-A18-112ID-240AR150M112	20' BHD-112ID-240AR150M1
INLET	OUTLET	AR-150 x AR-150		
		Size	Size	Size
		in ft. Part #	in ft. Part #	in ft. Part #
		12' BHDA-112ID-144AR150	12' BHD-A18-112ID-144AR150	12' BHD-112ID-144AR150
		16' BHDA-112ID-192AR150	16' BHD-A18-112ID-192AR150	16' BHD-112ID-192AR150
AR-150	AR-150	20' BHDA-112ID-240AR150	20' BHD-A18-112ID-240AR150	20' BHD-112ID-240AR150
INLET	OUTLET	1 1/2" NPT Male x 1 1/2" NPT I	Male	
		Size	Size	Size
		in ft. Part #	in ft. Part #	in ft. Part #
		12' BHDA-112ID-144M112	12′ BHD-A18-112ID-144M112	12' BHD-112ID-144M112
		16' BHDA-112ID-192M112	16' BHD-A18-112ID-192M112	16' BHD-112ID-192M112
1 1/2" NPT Male	1 1/2" NPT Male	20' BHDA-112ID-240M112	20' BHD-A18-112ID-240M112	20' BHD-112ID-240M112
2 INCH HOSE 700	PSIG MAWP LII	NER: CORRUGATED 321	STAINLESS STEEL DOUE	BLE BRAID
INLET	OUTLET	AR-250 x 2" NPT Male		
-		Size	Size	Size
and the second se		in ft. Part #	in ft. Part #	in ft. Part #
and the second		12' BHDA-2ID-144AR250M2	12' BHD-A18-2ID-144AR250M2	12' BHD-2ID-144AR250M2
		16' BHDA-2ID-192AR250M2	16' BHD-A18-2ID-192AR250M2	16' BHD-2ID-192AR250M2
AR-250	2" NPT Male	20' BHDA-2ID-240AR250M2	20' BHD-A18-2ID-240AR250M2	20' BHD-2ID-240AR250M2
INLET	OUTLET	AR-250 x AR-250		
		Size	Size	Size

Size in ft.	Part #	Size in ft.	Part #	Size in ft.	Part #
12′	BHDA-2ID-144AR250	12′	BHD-A18-2ID-144AR250	12′	BHD-2ID-144AR250
16′	BHDA-2ID-192AR250	16′	BHD-A18-2ID-192AR250	16′	BHD-2ID-192AR250
20′	BHDA-2ID-240AR250	20'	BHD-A18-2ID-240AR250	20'	BHD-2ID-240AR250

and the second se						
and the local diversion of the local diversio	and the second se	12′	BHDA-2ID-144AR250		12′	BHD
		16'	BHDA-2ID-192AR250		16′	BHD
AR-250	AR-250	20'	BHDA-2ID-240AR250		20′	BHD
AK-250	AK-250					
INLET	OUTLET	2″ NP	T Male x 2" NPT Male	_		
		Size in ft.	Part #		Size in ft.	Part
and the second se		12′	BHDA-2ID-144M2		12′	BHD
		16'	BHDA-2ID-192M2		16′	BHD
2″ NPT Male	2" NPT Male	20'	BHDA-2ID-240M2		20′	BHD

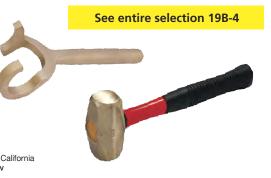
Size in ft.	Part #	Size in ft.	Part #
12′	BHD-A18-2ID-144M2	12′	BHD-2ID-144M2
16′	BHD-A18-2ID-192M2	16′	BHD-2ID-192M2
 20′	BHD-A18-2ID-240M2	20′	BHD-2ID-240M2

WARNING: Products in this catalog can expose you to chemicals including Lead which is known to the State of California to cause cancer, birth defects or reproductive harm. For more information, go to https://www.p65warnings.ca.gov

Non-Sparking Tools – Wrench, Valve Wheel (DIN 87311) • Non-Sparking tools are made of aluminum bronze alloy

Pt #	d Inch	a Inch	l Inch	Wt. lbs.	d mm	a mm	l mm	kg
NST-WRVW-08	1 1/4	2 1/4	8 9/16	0.86	32	56	215	0.39
NST-WRVW-11	1 7/16	2 1/4	11 9/16	2.27	36	56	290	1.03
NST-WRVW-16	1 7/8	3 3/16	16	1.90	48	80	400	0.86
NST-WRVW-19	2 3/8	4	19 9/16	4.30	60	100	490	1.95
NST-WRVW-32	2 3/8	4 3/8	32	12.57	60	110	800	5.70

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NITROC				
Double Braided Cr	yo Bulk Hose		10" Anno an Cuiffe	
		Full Length Armor	18" Armor Cuffs	No Armor No Cuffs
1 1/2 INCH HOSE 665	5 PSIG MAWP L	LINER: CORRUGATED 32	I STAINLESS STEEL DOU	BLE BRAID ———
INLET	OUTLET	NI-150 x 1 1/2" NPT Male		
		Size in ft. Part #	Size in ft. Part #	Size in ft. Part #
		12' BHDA-112ID-144NI150M112	12' BHD-A18-112ID-144NI150M112	12' BHD-112ID-144NI150M112
		16' BHDA-112ID-192NI150M112	16' BHD-A18-112ID-192NI150M112	16' BHD-112ID-192NI150M112
NI-150 1	1/2″ NPT Male	20' BHDA-112ID-240NI150M112	20' BHD-A18-112ID-240NI150M112	20' BHD-112ID-240NI150M112
INLET	OUTLET	NI-150 x NI-150		
		Size in ft. Part #	Size in ft. Part #	Size in ft. Part #
		12' BHDA-112ID-144NI150	12' BHD-A18-112ID-144NI150	12' BHD-112ID-144NI150
		16' BHDA-112ID-192NI150	16' BHD-A18-112ID-192NI150	16' BHD-112ID-192NI150
NI-150	NI-150	20' BHDA-112ID-240NI150	20' BHD-A18-112ID-240NI150	20' BHD-112ID-240NI150
INLET	OUTLET	1 1/2" NPT Male x 1 1/2" NPT M	ale	
		Size	Size	Size
		in ft. Part #	in ft. Part #	in ft. Part #
		12' BHDA-112ID-144M112	12' BHD-A18-112ID-144M112	12' BHD-112ID-144M112
		16' BHDA-112ID-192M112 20' BHDA-112ID-240M112	16' BHD-A18-112ID-192M112 20' BHD-A18-112ID-240M112	16' BHD-112ID-192M112 20' BHD-112ID-240M112
1 1/2" NPT Male 1	1/2" NPT Male			20 010-11210-2401112
2 INCH HOSE 700 PS	IG MAWP LINE	R: CORRUGATED 321 ST	AINLESS STEEL DOUBLE	BRAID ———
INLET	OUTLET	NI-250 x 2" NPT Male		
		Size in ft. Part #	Size in ft. Part #	Size in ft. Part #
and the state of the		12' BHDA-2ID-144NI250M2	12' BHD-A18-2ID-144NI250M2	12' BHD-2ID-144NI250M2
State of the second		16' BHDA-2ID-192NI250M2	16' BHD-A18-2ID-192NI250M2	16' BHD-2ID-192NI250M2
NI-250	2″ NPT Male	20' BHDA-2ID-240NI250M2	20' BHD-A18-2ID-240NI250M2	20' BHD-2ID-240NI250M2
INLET	OUTLET	NI-250 x NI-250		
		Size	Size	Size
		in ft. Part #	in ft. Part #	in ft. Part #
and the second		12' BHDA-2ID-144NI250	12' BHD-A18-2ID-144NI250	12' BHD-2ID-144NI250
		16' BHDA-2ID-192NI250	16' BHD-A18-2ID-192NI250	16' BHD-2ID-192NI250
NI-250	NI-250	20' BHDA-2ID-240NI250	20' BHD-A18-2ID-240NI250	20' BHD-2ID-240NI250

2" NPT Male

2" NPT Male

Size in ft. 12′ 16′ 20'

Part #	Size in ft.	Part #	Size in ft.	Part #
BHDA-2ID-144M2	12′	BHD-A18-2ID-144M2	12'	BHD-2ID-144M2
BHDA-2ID-192M2	16′	BHD-A18-2ID-192M2	16'	BHD-2ID-192M2
BHDA-2ID-240M2	20′	BHD-A18-2ID-240M2	20'	BHD-2ID-240M2
BHDA-2ID-240M2	20'	BHD-A18-2ID-240M2	20'	BHD-2ID-240M2

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Ion-Sparking Wrench	i, Adjustable End	Pt #	s max Inch	l Inch	Wt. Ibs.	s max mm
1	and the second second	NST-WRAE-06	3/4	6	0.29	19
A (10"		NST-WRAE-08	15/16	8	0.62	24
6	T	NST-WRAE-10	1 1/8	10	1.06	28
	151 70	NST-WRAE-12	1 3/8	12	1.68	34
	s s	NST-WRAE-15	1 3/4	15	3.13	45
arking tools are made		NST-WRAE-18	2 3/16	18	6.19	55
ng tools are made m bronze alloy	0	NST-WRAE-24	2 3/8	24	10.87	60

to cause cancer, birth defects or reproductive harm. For more information, go to https://www.p65warnings.ca.gov

selection 19B-4

l mm

150

200

250

300 375

450

600

kg

0.13

0.28

0.48 0.76

1.42

2.81

4.93

	XYGEN	
	aided Cryo Bulk Hos	
	Oxygen Service to CGA G-4.1	
1 1/2 INCH H	IOSE 665 PSIG MAWP	
I 1/2 INCH IN	OUTLET	OXY-150 x 1 1/2" NPT Male
		Size Size
		in ft. Part # in ft. Part # 12' BHDA-112ID-1440X150M112 12' BHD-A18-112ID-1440X150M112 12' BHD-112ID-1440X150M112
		16' BHDA-112ID-1920X150M112 16' BHD-A18-112ID-1920X150M112 16' BHD-112ID-1920X150M112
OXY-150) 1 1/2" NPT Male	20' BHDA-112ID-2400X150M112 20' BHD-A18-112ID-2400X150M112 20' BHD-112ID-2400X150M112
INLET	OUTLET	OXY-150 x OXY-150
		Size Size in ft. Part # in ft. Part #
		12' BHDA-112ID-1440X150 12' BHD-A18-112ID-1440X150 12' BHD-112ID-1440X150
OXY-150	OXY-150	16' BHDA-112ID-1920X150 16' BHD-A18-112ID-1920X150 16' BHD-112ID-1920X150 20' BHDA-112ID-2400X150 20' BHD-A18-112ID-2400X150 20' BHD-112ID-2400X150
	0/1-150	
INLET	OUTLET	1 1/2" NPT Male x 1 1/2" NPT Male Size Size Size
		Size Size Size in ft. Part # in ft.
		12' BHDA-112ID-144M112 12' BHD-A18-112ID-144M112 12' BHD-112ID-144M112 14' NUDA-442D-442M142 12' BHD-418-112ID-144M112 12' BHD-418-112ID-144M112
1 1/2″ NPT I	Male 1 1/2" NPT Male	16' BHDA-112ID-192M112 16' BHD-A18-112ID-192M112 16' BHD-112ID-192M112 20' BHDA-112ID-240M112 20' BHD-A18-112ID-240M112 20' BHD-112ID-240M112
2 INCH HOSE	E 700 PSIG MAWP LI OUTLET	NER: CORRUGATED 321 STAINLESS STEEL DOUBLE BRAID
	OUTEL	Size Size Size
		in ft. Part # in ft. Part # in ft. Part #
		12' BHDA-2ID-1440X200M2 12' BHD-A18-2ID-1440X200M2 12' BHD-2ID-1440X200M2 16' BHDA-2ID-1920X200M2 16' BHD-A18-2ID-1920X200M2 16' BHD-2ID-1920X200M2
OXY-200	2″ NPT Male	20' BHDA-2ID-2400X200M2 20' BHD-A18-2ID-2400X200M2 20' BHD-2ID-2400X200M2
INLET	OUTLET	OXY-200 x OXY-200
		Size Size Size
		in ft. Part # in ft. Part #
	and the second second	12' BHDA-2ID-1440X200 12' BHD-A18-2ID-1440X200 12' BHD-2ID-1440X200 16' BHDA-2ID-1920X200 16' BHD-A18-2ID-1920X200 16' BHD-2ID-1920X200
OXY-200	OXY-200	20' BHDA-2ID-2400X200 20' BHD-A18-2ID-2400X200 20' BHD-2ID-2400X200
INLET	OUTLET	NPT Male x NPT Male
		Size Size in ft. Part # in ft. Part #
		111. Failt# 111. Failt# 12' BHDA-2ID-144M2 12' BHD-A18-2ID-144M2 12' BHD-2ID-144M2
2″ NPT M	ale 2" NPT Male	16' BHDA-2ID-192M2 16' BHD-A18-2ID-192M2 16' BHD-2ID-192M2
2 NFT NG		20' BHDA-2ID-240M2 20' BHD-A18-2ID-240M2 20' BHD-2ID-240M2
3 INCH HOSI	E 500 PSIG MAWP LI	NER: CORRUGATED 321 STAINLESS STEEL DOUBLE BRAID —
INLET	OUTLET	OXY-300 x 3" NPT Male
		Size Size in ft. Part # in ft. Part #
		12' BHDA-3ID-1440X300M3 12' BHD-A18-3ID-1440X300M3 12' BHD-3ID-1440X300M3
2		16' BHDA-3ID-1920X300M3 16' BHD-A18-3ID-1920X300M3 16' BHD-3ID-1920X300M3 20' BHDA-3ID-2400X300M3 20' BHD-A18-3ID-2400X300M3 20' BHD-3ID-2400X300M3
OXY-300	3″ NPT Male	
INLET	OUTLET	OXY-300 x OXY-300
		Size Size Size in ft. Part # in ft. Part #
		12' BHDA-3ID-1440X300 12' BHD-A18-3ID-1440X300 12' BHD-3ID-1440X300
		16' BHDA-3ID-192OX300 16' BHD-A18-3ID-192OX300 16' BHD-31D-192OX300 20' PUDA 3ID 340OX300 20' PUDA 3ID 340OX300 20' PUDA 3ID 340OX300
		20' BHDA-3ID-2400X300 20' BHD-A18-3ID-2400X300 20' BHD-3ID-2400X300
OXY-300	OXY-300	WARNING: Products in this catalog can expose you to chemicals including Lead which is known to the State of California to cause cancer, birth defects or reproductive harm. For more information, go to https://www.p65warnings.ca.gov

OXYGEN DOUBLE BRAIDED CRYO BULK HOSES

19B-10

Ratermann Manufacturing, Inc. Customer Service 1-800-264-7793 | Fax 1-800-264-7797 | Order Online at Web Store www.rmiorder.com

Bulk Liquid Transfer Hoses



Smart-Hose Cryogenic

Part #	Description
SHB-180F1-3	Bulk Smart Hose 1" ID, 15 feet
SHB-180F112-3	Bulk Smart Hose 1 1/2" ID, 15 feet
SHB-180F2-3	Bulk Smart Hose 2" ID, 15 feet
SHB-180F212-3	Bulk Smart Hose 2 1/2" ID, 15 feet
SHB-180F3-3	Bulk Smart Hose 3" ID, 15 feet

Smart-Hose Cryogenic Bulk Tank and Truck Loading and Unloading Hoses

FEATURES

- 1-1/2" or 2" I.D. close pitch corrugated 304 stainless steel inner core.
- Full coverage heavy-duty braid.
- Heavy-duty fully machined female NPT end fittings.
- 18" armor casing cuffs (bend restrictors) each end.
- Cryogenic to 1500
 degrees F



THE WORLD'S **SAFEST HOSE ASSEMBLIES**!!

LL3 – Open Flow

(Valves Kept Open by Internal Cable)



(Valves are Closed by Separation and/or Back Pressure)



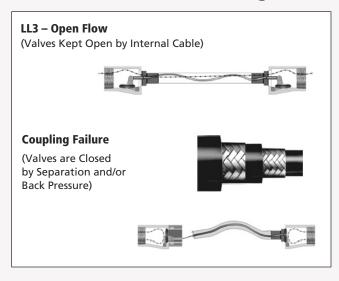
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Carbon Dioxide Bulk Liquid Transfer Hoses for Truck and Rail Car Loading

The **Smart-Hose Safety System** is built into a special rubber Carbon Dioxide discharge hose. Common uses include in-plant, truck and rail car loading. This low temperature hose has been uniquely developed to meet the rugged requirements of this application. Smooth elastomer inner tube resistant to deterioration from CO2 and flexible between -65° F and 125° F. Stainless Steel reinforced braid. Pin-pricked outer cover resistant to deterioration from elements and abrasion. Corrosion resistant stainless steel end fittings with stainless steel crimp collar.

FEATURES

- Smooth inner tube elastomer formulated to be resistant to deterioration from CO2 and maintain flexibility from -65° (-53.9° C) to 125°F (51.7° C) without cracking.
- Reinforcing braid of 300 Series Stainless Steel
- Outer cover resistant to deterioration due to exposure to the elements, oil, and abrasion.
- Fitting material is brass, the crimp collar or ferrule is aluminum.
- All assemblies are hydrostatically tested to 900 psig.
- End of fittings are stamped with month and year of manufacture
- **COVER** Black, Special low temperature abrasions resistant copolymer
- **REINFORCEMENT TUBE** 2 layers of stainless steel wire braid
- **BRANDING** Black, Special low temperature co-polymer resistant to C02 permeation, Orange Mylar brand – CO2 Discharge
- TEMPERATURE -65° to 180° F (-55°to 83° C)
- MAINTENANCE See Smart-Hose "Proper Use, Care & Maintenance" Booklet Form # 1999-1



Carbon Dioxide Bulk Liquid Transfer Smart Hose

Part #	Description
SHCDT-180F1-3	Carbon Dioxide Bulk Liquid Transfer Smart Hose 1" ID, 15 feet
SHCDT-180F112-3	Carbon Dioxide Bulk Liquid Transfer Smart Hose 1 1/2" ID, 15 feet
SHCDT-180F2-3	Carbon Dioxide Bulk Liquid Transfer Smart Hose 2" ID, 15 feet

*For other lengths, replace the 180 in the part number with the desired length in inches.

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