



# CoolFlow<sup>TM</sup>

Product Data



[www.coolflowhose.com](http://www.coolflowhose.com)

# CoolFlow Source Line

## Peroxide Cured EPDM Source Line

### V-0 Source Line

**Construction:**

- Tube: Black EPDM, peroxide cure system
- Reinforcement: Braided synthetic textile, single layer
- Cover: Black CPE, UL 94 V-0 flame resistant

- Working Pressure:** 200 psi (1.38 MPa) maximum
- Burst Pressure:** 800 psi (5.52 MPa) minimum
- Temperature Range:** -40°F to 210°F (-40°C to 99°C)

Size	ID		OD		Min Bend Radius	Weight
	min.(in)	max.(in)	min.(in)	max.(in)		
inch					inch	lb/ft
1	0.969	1.031	1.438	1.500	5	0.51
1 1/2	1.438	1.562	2.018	2.142	8	0.92
2	1.938	2.062	2.438	2.562	12	1.05



### HB Source Line

**Construction:**

- Tube: Black EPDM, (Peroxide Cure)
- Reinforcement: Spiral plied fabrics with double helix
- Cover: Corrugated Black EPDM (abrasian resistant, UL 94 HB Flame Resistant wrapped impression)

- Temperature Range:** -40°C to 93°C (-40°F to 200°F)

- Design Factor:** 4:1

Hose ID		Hose OD		Max. Working Pressure	Weight	Bend Radius	Vacuum
in	mm	in	mm	PSI	lbs per ft	in	in
3/4	19.10	1.15	29.10	150	0.34	0.75	29.02
1	25.40	1.39	35.40	150	0.42	0.98	29.02
1-1/4	31.80	1.65	41.90	150	0.53	1.26	29.02
1-1/2	38.10	1.90	48.20	150	0.62	1.50	29.02
2	50.80	2.44	61.90	150	0.85	2.01	29.02
2-1/2	63.50	3.00	76.30	150	1.25	2.52	29.02
3	76.20	3.50	89.00	150	1.49	2.99	29.02
4	101.60	4.53	115.10	150	2.11	4.02	29.02

## Flexible Metal Hose

**OPM Series Braided Hose:** Medium Weight with Medium Flexibility

**Materials:** Hose: 304L, 321, 316L Stainless  
Braid: 304 and 316L Stainless

**Construction:** Annular Hose available in either Standard or Compressed Pitch High Coverage Braid

### OPM Series Braided Hose

Nom. I.D. (IN.)	Nom. O.D (IN.)	Maximum Pressure @ 70°F (PSIG)		Centerline Bend Radius (IN.)
		Working	Normal Burst	Static
1/4"	0.64	2,500	16,000	1.00
3/8"	0.81	1,530	9,792	1.25
1/2"	0.96	1,200	7,680	1.50
3/4"	1.35	850	5,440	2.25
1"	1.65	590	3,776	2.75
1-1/4"	2.02	540	3,456	3.50
1-1/2"	2.37	475	3,040	4.00
2"	2.84	530	3,392	5.00
2-1/2"	3.43	410	2,624	8.00
3"	3.98	335	2,144	9.00
4"	5.08	240	1,536	13.00

# OPL Series Braided Hose

**OPL Series Braided Hose:** Light Weight with High Flexibility

**Materials:** Hose: 304L, 321, 316L Stainless  
Braid: 304 and 316L Stainless

**Construction:** Annular Hose available in either Standard or Compressed Pitch High Coverage Braid

Nom. I.D. (IN.)	Nom. O.D. (IN.)	Maximum Pressure @ 70°F (PSIG)		Centerline Bend Radius (IN.)
		Working	Normal Burst	Static
1/4"	0.48	2,386	11,453	1.00
3/8"	0.68	1,714	8,228	1.50
1/2"	0.78	1,281	6,148	1.75
3/4"	1.19	1,056	5,068	2.50
1"	1.41	817	3,920	3.25
1-1/4"	1.76	618	2,964	4.00
1-1/2"	2.11	571	2,740	5.00
2"	2.58	591	2,836	6.25

# CoolFlow Jumper

## Refrigerant

### Type E

Thermoplastic veneer lining inside diameter with elastomeric tube outer layer. textile reinforcement. Outer cover heat and ozone resistant synthetic elastomer

-4, -6, -8, -10, -12, -16

EZ Clip system and factory crimp



## Water Glycol

**Construction Tube:** Peroxide-cured Synthetic EPDM Rubber

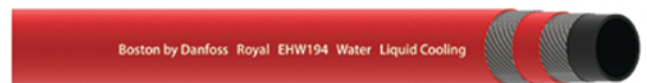
**Reinforcement:** 2-ply textile

**Cover Colors:** Black (BK), Blue (BU), Grey (GY), Red (RD)

**Operating Temperature :** -40°C to +140°C (-40°F to +284°F)

**Certifications:** UL 94 V-0 rated, exceeds ASTM E84 Class 1/A Requirements

**Packaging:** 76.2 m (250 ft.) reels



Size	Hose I.D.		Hose O.D.		Pressure Without Clamp		Burst Pressure Without Clamp		Pressure With Clamp		Burst Pressure With Clamp		Minimum Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
-4	6.4	0.25	15	0.59	5	73	15	218	16	232	48	696	50	2	0.21	0.14
-6	9.5	0.37	18.5	0.73	5	73	15	218	16	232	48	696	65	2.5	0.28	0.19
-8	12.7	0.5	22	0.87	5	73	15	218	16	232	48	696	75	3	0.36	0.24
-10	15.9	0.63	25.2	0.99	5	73	15	218	16	232	48	696	100	4	0.43	0.29
-12	19	0.75	29.7	1.17	5	73	15	218	16	232	48	696	125	5	0.56	0.38
-16	25.4	1	36.5	1.44	5	73	15	218	16	232	48	696	150	6	0.75	0.5
Thin Wall																
-4	6.4	0.25	13	0.51	5	73	15	218	16	232	48	696	25	1	0.21	0.14
-6	9.5	0.37	16	0.63	5	73	15	218	16	232	48	696	35	1.4	0.28	0.19

# CoolFlow Blade

**Tube Materials:** Black EPDM (Peroxide Cure)

**Cover Material:** CPE Rubber (UL 94 V-0 Flame Resistant)

**Reinforcement:** 1 Layer, Braided, Synthetic Yarn

**Temperature Range :** -40°F to 210°F (-40°C to 99°C)



Hose ID	Hose OD		Hose Length	Max. Working Pressure	Minimum Burst Pressure	Bend Radius	Weight
in	in	mm	ft	PSI	PSI	in	lbs per ft
3/16"	0.43	10.92	500.00	150	600	0.60	0.07
1/4"	0.50	12.70	500.00	150	600	1.00	0.09

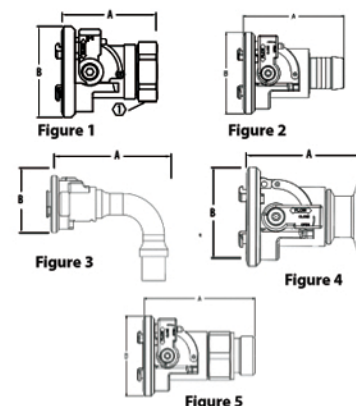
## Connectors

### FD83



Max. Operating Pressure							Min. Burst Pressure									
Coupling Size	Connected		Socket/Female Half		Socket/Female Half		Connected		Socket/Female Half		Socket/Female Half		Rated Flow	Fluid Loss		CV value
(in)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	cc. max	
1	10	150	10	150	10	150	20	300	20	300	20	300	189	50	5.0	30
2 New!	10	150	10	150	10	150	20	300	20	300	20	300	800	211	12	127

Part Number	Body Size	Port Size	Type	Fig.	Dimensions					
					A		B		Hex	1
					mm	(in)	mm	(in)		
FD83-2052-16-16	1	1	Female NPTF	1	95.5	(3.76)	71.6	(2.82)	41	(1.63)
FD83-2052-12-16	1	¾	Female NPTF	1	70.1	(2.76)	71.6	(2.82)	41	(1.63)
FD83-2046-16-16	1	1	1" Hose Barb	2	84.2	(3.31)	71.6	(2.82)	-	-
FD83-2092-16-16	1	1	1" Hose Barb 90°	3	125	(4.92)	71.6	(2.82)	-	-
FD83-2096-16-16	1	1	Male ORB	5	95.5	(3.76)	71.6	(2.82)	41	(1.63)
FD83-2140-16-16	1	1	Male BSPP	5	95.5	(3.76)	71.6	(2.82)	41	(1.63)
FD83-2126-16-16	1	1	Female BSPP	1	84.3	(3.32)	71.6	(2.82)	41	(1.63)
FD83-2128-16-16	1	1	Sanitary Flange	4	79.6	(3.13)	71.6	(2.82)	-	-
FD83-2126-32-32	2	2	Female BSPP	1	122.4	(4.82)	105.3	(4.15)	70	(2.76)
FD83-2127-32-32	2	2	2" Hose barb	2	166.9	(6.57)	105.3	(4.15)	-	-
FD83-2128-32-32	2	2	Sanitary Flange	4	102.4	(4.03)	105.3	(4.15)	-	-
FD83-2052-32-32	2	2	Female NPT	1	122.4	(4.82)	105.3	(4.15)	70	(2.76)



## Universal Quick Disconnects

**UQD02** Universal Quick Disconnect Dash 02 (1/8")

**UQD04** Universal Quick Disconnect Dash 04 (1/4")

**UQD06** Universal Quick Disconnect Dash 06 (3/8")

**UQD08** Universal Quick Disconnect Dash 08 (1/2")

Parameter	UQD02	UQD04	UQD06	UQD08
Maximum operating pressure	100 psi			
Minimum burst pressure	300 psi			
Minimum Cv*	0.25	0.80	1.60	2.50
Flow Rating*	At least 0.55 GPM	At least 1.7 GPM	At least 3.0 GPM	At least 4.7 GPM
Operating temperature range*	17°C - 65°C			
Shipping temperature range*	-40°C - 75°C			

## CoolFlow Custom Connectors

