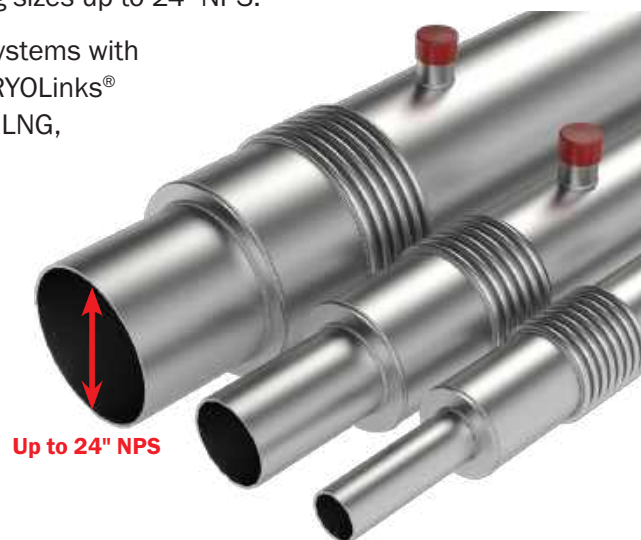


Introducing CRYOLinks® MAX, the latest advancement in cryogenic piping systems from Crane Cryogenics™. Engineered for exceptional performance in the most demanding environments, it delivers rigid pre-engineered sticks in customizable lengths up to 40ft and industrial piping sizes up to 24" NPS.

Our off-the-shelf design outperforms traditional mechanically insulated systems with faster production, shorter lead times, and superior cost-effectiveness. CRYOLinks® MAX provides unmatched reliability across critical applications, including LNG, Space Launch, and Aerospace operations from fixed and mobile launch facilities to engine testing and commodity transfer at space launch complexes.

Features:

- Standard line sizes range from 1" NPS to 24" NPS inner-line pipe.
- Available from 2ft sticks to 40ft sticks, in various quantities.
- Pre-engineered for minimal lead times.
- Ideal for all cryogenic applications.
- Fabricated to ASME B31.3 or B31.12.
- All inner line pipe schedules available compared to standard CryoLinks® product.
- Joints can be easily mechanically insulated.
- End connections: Butt weld pipe stubs.



Benefits:

- Approximately 50 times more effective than conventional foam insulation in preventing heat gain to the inner line and nearly 200 times more effective than bare copper lines.
- Extremely long-lasting and impervious to UV degradation in comparison to mechanical insulation.
- Minimize cool-down losses.
- Standard Industrial cleaned and kept.

Available Accessories/Options:

- Spring-loaded Evac Port Covers
- Bellows Covers
- **Please see "How To Order" form for all available options and accessories.**



Plain Evac Port



Evac Port w/ DV-6R



Evac Port w/ DV-6S

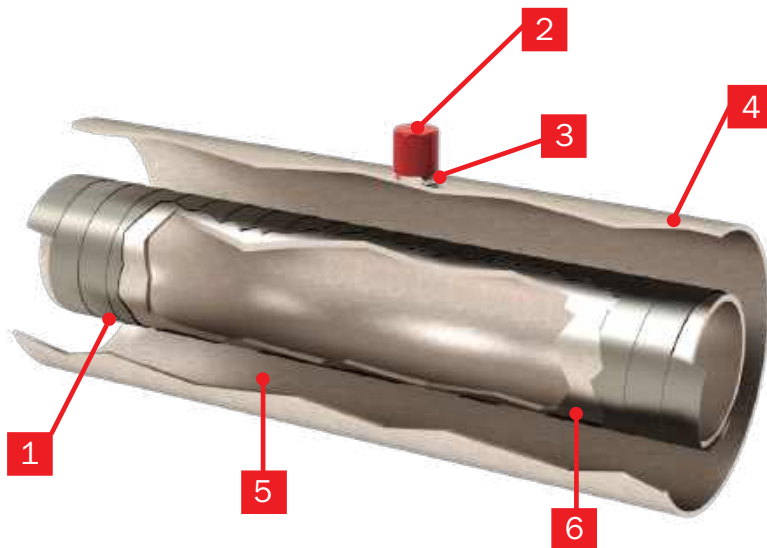


Evac Port w/ Spring Cap & DV-6S

Heat Leak - Technical Data

Line Size (NPS)	Jacket Size (NPS)	Heat Leak BTU/hr*ft (W/m)				
		LN2	LOX	LH2	LHe	LCH4
1	2	0.345 (0.332)	0.345 (0.332)	0.436 (0.419)	0.461 (0.443)	0.205 (0.197)
2	3	0.586 (0.563)	0.586 (0.563)	0.740 (0.711)	0.783 (0.753)	0.348 (0.334)
3	4	0.841 (0.809)	0.841 (0.809)	1.063 (1.022)	1.125 (1.082)	0.499 (0.480)
4	5	1.068 (1.026)	1.068 (1.026)	1.348 (1.296)	1.427 (1.372)	0.634 (0.609)
6	8	1.536 (1.477)	1.536 (1.477)	1.940 (1.865)	2.053 (1.974)	0.912 (0.877)
8	10	1.983 (1.906)	1.983 (1.906)	2.504 (2.408)	2.651 (2.549)	1.177 (1.132)
10	12	2.462 (2.367)	2.462 (2.367)	3.110 (2.990)	3.292 (3.165)	1.461 (1.405)
12	16	2.882 (2.771)	2.882 (2.771)	3.640 (3.499)	3.853 (3.705)	1.710 (1.645)
14	16	3.196 (3.073)	3.196 (3.073)	4.036 (3.881)	4.273 (4.108)	1.897 (1.824)
16	18	3.645 (3.505)	3.645 (3.505)	4.603 (4.426)	4.873 (4.686)	2.163 (2.080)
18	20	4.094 (3.937)	4.094 (3.937)	5.171 (4.972)	5.474 (5.263)	2.430 (2.337)
24	28	5.345 (5.140)	5.345 (5.140)	6.751 (6.491)	7.147 (6.872)	3.173 (3.051)
24	30	5.252 (5.050)	5.252 (5.050)	6.634 (6.379)	7.023 (6.752)	3.118 (2.998)

NPS = Nominal Pipe Size, Multi-Layer Insulation (MLI) = 20, Inner line temperature at respective fluid saturation at atmospheric pressure, Jacket temperature at ambient (70° F)



Item Description

1	Multi-Layer Super Insulation
2	Relief Port
3	Tig Welds
4	Stainless Steel Outer Pipe
5	Static High Vacuum Insulation
6	Stainless Steel Inner Pipe

Each CRYOLinks® MAX VJP transfer line is factory: fabricated, evacuated, tested, cleaned, and shipped in customer specified spool sections.

Is It Time To Install a CRYOLinks® MAX System at Your Location?

CRYOLinks® MAX is a pre-engineered piping system that delivers faster, more cost-effective cryogenic handling. By streamlining production and minimizing operational risks, it reduces lead time and long-term maintenance costs.

Selecting the right cryogenic fluid delivery system is critical to your operation's success. The correct system optimizes product costs, reduces handling labor, and ensures the safety of your team and equipment.

CRYOLinks® MAX is ideal for operations requiring:

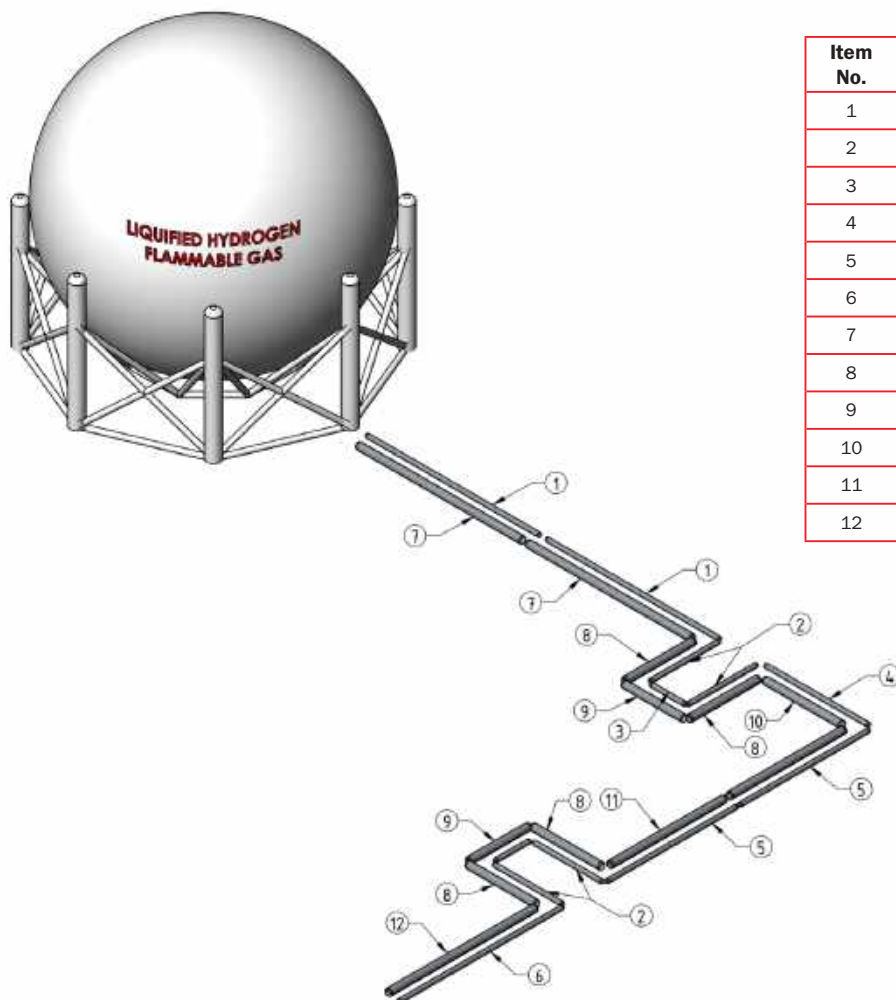
- Rigid piping with straight sticks
- Customizable lengths up to 40 ft
- Inner lines up to 24" NPS
- Reduced engineering and production time
- Faster lead times and quick deployment

Ready to see if CRYOLinks® MAX is right for your operation? Contact us using the form below, and our technical sales team will help you design the optimal system for your application.



Bellow Cover

CRYOLinks® MAX System Schematic



Item No.	Qty.	Description	Length
1	2	8x10 CryoLinks® MAX	40 ft.
2	4	8x10 CryoLinks® MAX	16 ft.
3	2	8x10 CryoLinks® MAX	8 ft.
4	1	8x10 CryoLinks® MAX	24 ft.
5	2	8x10 CryoLinks® MAX	30 ft.
6	1	8x10 CryoLinks® MAX	38 ft.
7	2	16x18 CryoLinks® MAX	38 ft.
8	4	16x18 CryoLinks® MAX	16 ft.
9	2	16x18 CryoLinks® MAX	14 ft.
10	1	16x18 CryoLinks® MAX	18 ft.
11	2	16x18 CryoLinks® MAX	26.5 ft.
12	1	16x18 CryoLinks® MAX	34 ft.

How To Order

CRYOLINKS NOMENCLATURE

Order Example:

4	-	10	-	304	-	RT/S	-	P	-	144	-	W	-	5	-	1
INNER LINE SIZE		INNER LINE SCHEDULE		INNER LINE & JACKET TYPE		INSPECTION TYPE		EVAC TYPE		LENGTH		BELLOWS COVERS		X-RAY INSPECTION		CLEANING

4		10		304		RT/S		P	
INNER LINE SIZE		INNER LINE SCHEDULE		INNER LINE & JACKET TYPE		INSPECTION TYPE		EVAC TYPE	
1	1X2	5	5S	304	304/304L SST	W	WELDED	P	PLAIN EVAC PORT
2	2X3	10	10S	316	316/316L SST	RT/S	RT SEAM WELD/ SEAMLESS	6R	EVAC PORT W/ DV-6R
3	3X4	40	40S					6S	EVAC PORT W/ DV-6S
4	4X5	80	80S					6SWC	EVAC PORT W/ SPRING CAP & DV-6S
6	6X8	160	160						
8	8X10	XXH	XXS/XXH						
10	10X12								
12	12X16								
14	14X16								
16	16X18								
18	18X20								
20	20X24								
24/28	24X28								
24/30	24X30								
144		W		5		1			
LENGTH		BELLOWS COVERS		X-RAY INSPECTION		CLEANING			
0.00	INCHES	W	WITH	5	5%	1	INDUSTRIAL		
		WO	WITHOUT	100	100%	0	OXYGEN		

Order Example:

Part Number 4-10-304-RT/S-P-144-W-5-1

4x5 Inner Line, 10s Inner Line Schedule, 304/304L Stainless Steel Pipe, RT Seam Weld/ Seamless Inspection, Plain Evac Port, 144 Inches, With Bellows Covers, 5% X-Ray Inspection, Industrial Cleaning

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Jurupa Valley, CA
91752, USA
Tel.: (951) 360-0920
www.cranecryogenics.com

Crane ChemPharma & Energy, CRANE CRYOGENICS™

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