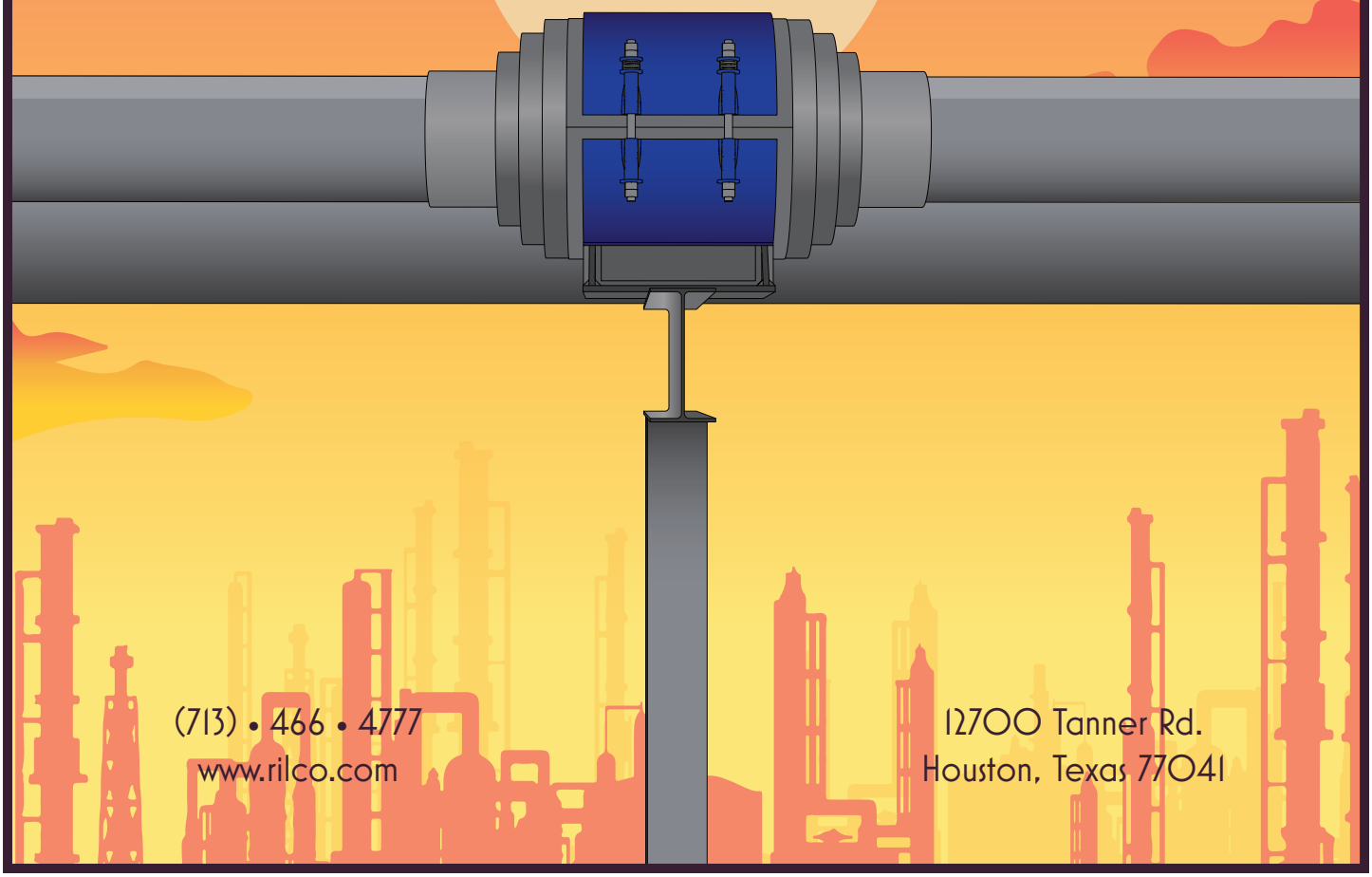
RILCO

AEROGEL SUPPORTS CATALOG



(713) • 466 • 4777
www.rilco.com

12700 Tanner Rd.
Houston, Texas 77041

All of the supports in this catalog have been tested by RILCO utilizing all blanket materials including Aerogels.

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PRODUCT OVERVIEW

CryoWrap® & PyroWrap® Insulated Pipe Supports

Once again RILCO Manufacturing Company Incorporated leads the way with lighter weight, insulated pipe supports featuring the lowest K-Values of any industrial insulation available. Designed for applications from -460°F (-270°C) to 1200°F (650 °C) we have the exact Anchor, Guide or Resting Support to meet your design requirements.

RILCO uses Aerogels to offer a pipe support that utilizes leading edge technology to provide an environmentally friendly, hydrophobic insulation that is not only durable but compact and lightweight.

CryoWrap® and PyroWrap® use aerogels, which are recognized as the world's lowest density solid and most effective thermal insulator. These lightweight silica solids, derived from gel with gas replacing the liquid, are poor conductors because they are comprised of tiny, three dimensional, intertwined clusters accounting for only 3% of the volume. The remaining 97% consists of nanopores of air with minimal room to move, thereby inhibiting convection and gas-phase conduction.

CryoWrap® and PyroWrap® pipe supports combine RILCO's renowned engineering and proprietary support design expertise with Aerogel. The result is a pipe support yielding a resilient and durable design with superior insulating properties designed specifically for applications raging from cryogenic to high temperature.

Distinguishing Characteristics

Fire Resistant - CryoWrap® and PyroWrap® offer unparalleled resistance to flame spread with minimal smoke emissions and no toxic byproducts. Each product offers extended protection for piping and equipment, thereby extending the necessary response time to unforseen events.

Hydrophobic - CryoWrap® and PyroWrap® give the pipe support incredible resistance to moisture.

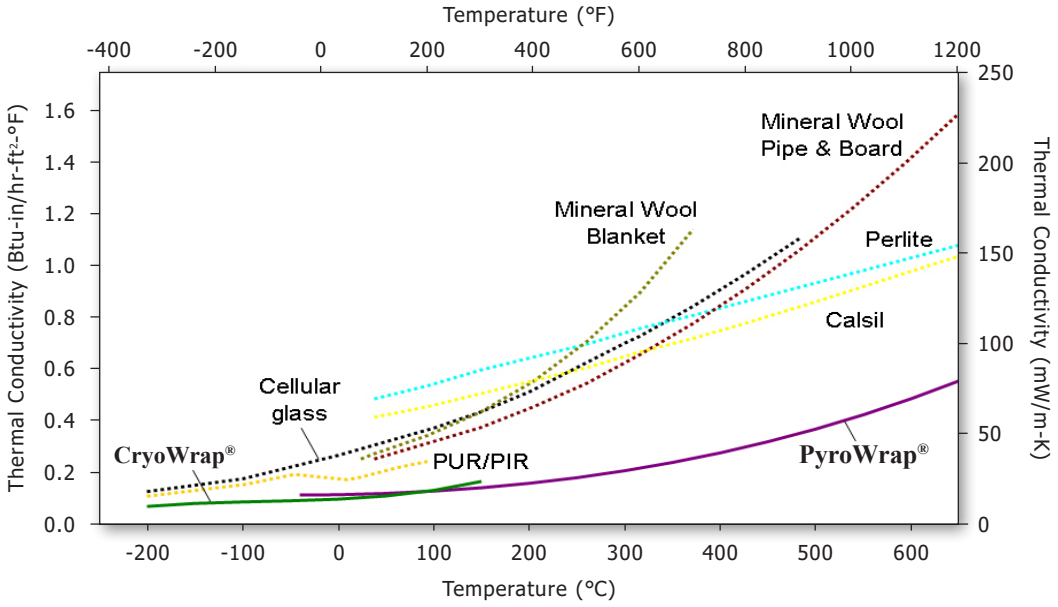
Light Weight - CryoWrap® and PyroWrap® lighter weight allows reduced overall loading of pipe and equipment support systems.

Reduced space requirements- CryoWrap® and PyroWrap®, with their superior insulation qualities, deliver a reduced insulation cross-section allowing additional equipment per given area.

System integrity- CryoWrap® does not allow thermal leaks or moisture intrusion due to its factory applied zero-perm vapor barrier.

Durable - Unlike pipe supports utilizing rigid insulation that is prone to cracking from mechanical damage, CryoWrap® and PyroWrap® are capable of with standing high impact loading without compromising performance or showing damage.

Environmentally Friendly – CryoWrap® and PyroWrap® are capable of adherence to any environmental regulations. Since these insulating aerogels are essentially silica (sand), require no blowing agents, and contain no respirable fibers, CFC, or HCFC, they pose no chemical threat to the environment. Both products can be produced in longer lengths than traditional insulation thereby greatly improving installation times and allowing for easier, safer handling on the job site.



ABOUT RILCO



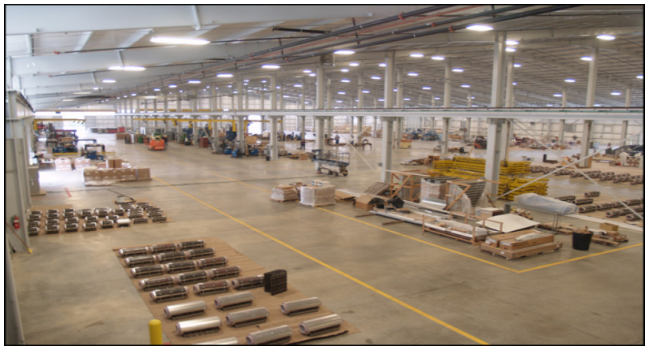
Rilco Manufacturing Company is a world leader in the development of pipe support systems and components. Our company began as a small pipe insulation facility in 1972 and has experienced exponential growth due to the high quality of our products, consistency of on-time deliveries, and the innovative designs of our engineering department.

We pride ourselves on the fact that our manufacturing processes begin in the shop with raw materials and remain in our production facilities all the way to the finished product. This process allows us to customize virtually all of our products to fit your project needs.

OUR MISSION

Exceed Customer Expectations. Meaning, we will continuously look to improve our processes and strive to be regarded as the most dependable international designer and manufacturer of the highest quality pipe support systems and consistently maintain on-time deliveries for all of our clients projects!





Contact us to request your quote!!! (713) 466-4777

STANDARDS & SPECIFICATIONS

QUALITY SYSTEMS

- ISO 9001:2015

DESIGN & MANUFACTURING

AISC	Steel Construction Manual
API 5L	Specification for Line Pipe
ASME B31.1	Power Piping
ASME B31.3	Process Piping
ASME SEC IX	Welding, Brazing, and Fusing Qualifications
ASTM A123-2015	Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
ASTM A153-2016	Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
ASTM A700-2014	Standard Guide for Packaging, Marking, and Loading Methods for Steel Products for Shipment
ASTM B633-2013	Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel
ASTM B695-2000	Standard Specification for Coatings of Zinc Mechanically Deposited on Iron and Steel
ASTM C165-1991	Standard Test Method for Measuring Compressive Properties of Thermal Insulations
ASTM C303-1990	Standard Test Method for Dimensions and Density of Preformed Block and Board-Type Thermal Insulation
ASTM E337-2007	Standard Test Method for Measuring Humidity with a Psychrometer
AWS D1.1-2015	Structural Welding Code - Steel
AWS D1.6-2015	Structural Welding Code - Stainless Steel
CWB CSA W47.1	Certification of Companies for Fusion Welding of Steel
CWB CSA W59	Welded Steel Construction (Metal Arc Welding)
ISPM 15-2009	International Plant Protection Convention (IPPC)-International Standards for Phytosanitary Measures (ISPM)
MSS SP-58-2009	Pipe Hangers and Supports - Materials, Design, Manufacture, Selection, Application, and Installation
SSPC-SP COM-2009	Surface Preparation Commentary for Steel and Concrete Substrates
JIS H 8641-2007	Hot Dip Galvanized Coatings

DISCLAIMER

ALL products included in this catalog are intended for installation and service only as described or specified herein.

RILCO cannot be held responsible for injuries to persons or property damage caused by misapplication or improper use of any products in its catalogs used in ways or for purposes other than for which said in products have been designed and manufactured. Some examples of misuse are: use of hanger products as erection tools; use of beam clamps pm beams for which they were not specified; use of concrete inserts as anchors for pulling pipe to proper elevation and suspension of one clevis hanger under another, resulting in a cumulative load greater than the specified support capability.

RILCO products are carefully designed and manufactured in accordance with the approvals and/or codes referenced above. Care should be exercised by installers and end users to install, use and maintain these products properly to avoid any possible on-the-job accidents.

All designed products are subject to change without notice.

USA & Thailand Facilities

400.8K	250	92
Total Sq Ft	**USA Employees**	**Thailand Employees**
Global manufacturing space across USA and Thailand	Rilco Manufacturing, Houston	Rilco (Thailand) Company Limited

MANUFACTURING FACILITY 1- Operations in Houston Since 1972

Rilco's original and flagship facility in Houston, Texas has been the backbone of American pipe support manufacturing for over five decades. This 120,000 sq ft production floor houses advanced fabrication equipment, overhead cranes, and a highly experienced workforce capable of producing the full range of Rilco pipe support products.

Facility Size- 120,000 sq ft of active manufacturing and assembly floor space

Location Address- 12700 Tanner Road, Houston, TX 77041

Factory Identification- Factory #1 - 12700 Tanner Rd., Houston, TX 77041

MANUFACTURING FACILITY 2- Operations in Thailand Since 2017

Rilco's Thailand facility in the Bangplee Industrial Estate serves as the company's primary manufacturing hub for Asia-Pacific region clients. Strategically located within a major industrial zone near Bangkok, Factory #2 provides efficient logistics access and a skilled workforce supporting regional project delivery.

Facility Size- 40,000 sq ft of active pipe support manufacturing capacity

Location Address- No. 148, Moo 17, Soi Bangplee Industrial Estate 5/1, Bang Sao Thong, Samutprakarn District

Factory Identification- Factory #2 - Bang Sao Thong, Samutprakarn District

USA & Thailand Facilities

MANUFACTURING FACILITY 3- New Houston Facility (2026)

Rilco's most ambitious expansion to date, Factory #3 on Irvington Boulevard will be the company's largest production facility worldwide at 200,000 sq ft. This new state-of-the-art plant significantly expands Rilco's USA manufacturing capacity, positioning the company to serve large-scale LNG, petrochemical, and energy transition projects with faster lead times and greater production depth.

Facility Size- 200,000 sq ft - Rilco's single largest production facility globally

Location Address- 18411 Irvington Boulevard, Houston, TX 77026

Factory Identification- Factory #3 - Irvington Boulevard, Houston

MANUFACTURING FACILITY 4- New Thailand Facility (2026)

To meet growing Asia-Pacific demand, Rilco is commissioning a fourth manufacturing facility in Samut Prakarn Province, Thailand. Factory #4 on Soi Winner adds 40,800 sq ft of additional regional capacity, complementing Factory #2 operations and enabling faster project delivery for clients across Southeast Asia and beyond.

Facility Size- 40,800 sq ft of new manufacturing and assembly space

Location Address- 105/2 Soi Winner, Bang Sao Thong Subdistrict
Bang Sao Thong District
Samut Prakarn Province 10540
Thailand

Factory Identification- Factory #4 - Soi Winner, Samut Prakarn Province

PRODUCT GUIDE

PRE-INSULATED COLD TEMPERATURE PIPE SUPPORTS

- Traditional Polyurethane Pipe Supports
- FOAMGLAS® Pipe Supports
- Isolation Blocks & Additional Components
- Insul-Guides









PRE-INSULATED HOT TEMPERATURE PIPE SUPPORTS

- Calcium Silicate/Chilled Water Pipe Supports
- FOAMGLAS® Pipe Supports
- Perlite Pipe Supports
- Mineral Wood Pipe Supports

HOT & COLD AEROGEL INSULATED PIPE SUPPORTS

- CryoWrap® - Cold
- PyroWrap® - Hot

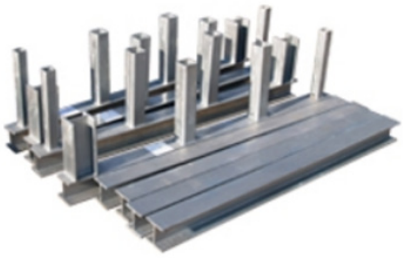
* CryoWrap® and PyroWrap® are both patents of Rilco Manufacturing Inc.





STRUCTURAL FABRICATION

- Clevis Hangers
- Structural Supports
- Hold Downs
- Instrument Stands
- Beam Attachments
- Un-Insulated Pipe Shoes
- Pipe Stands
- Embeds









ENGINEERED PIPE SUPPORTS

- RILCO Cam Roller Constants
- Variable Spring Supports & Hangers
- Constant Spring Supports & Hangers
- Big Ton Springs





VIBRATION CONTROL/HYDRAULIC

- Sway Strut Assembly
- Sway Brace
- Hydraulic Snubbers

FIELD SERVICES

Rilco Manufacturing Now Offering Field Services

Rilco provides top of the line field services to our customers around the world. With extensive experience in evaluating pipe support applications and installations, you can rest assured that your pipe supports will be properly installed and thoroughly inspected by our team.

If you have a planned shutdown that will require additional assistance with pipe support installation/maintenance, or if you need a repair or replacement service performed, please do not hesitate to contact us for your field service needs. Rilco Manufacturing provides high quality pipe support solutions that are guaranteed to perform.

We also offer training on installation and maintenance of pipe supports if you would like us to travel to your job site to teach your team.

Please e-mail us at info@rilco.com







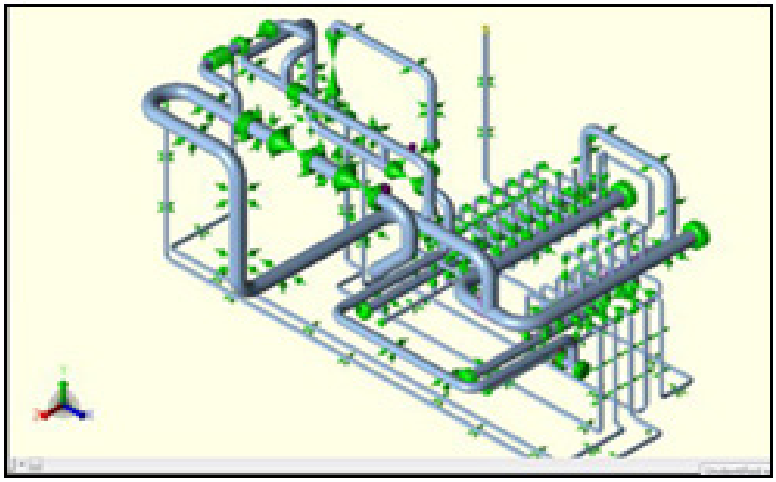


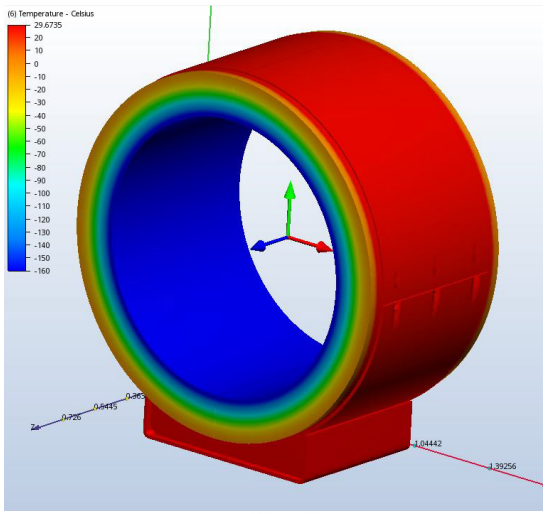
Complimentary On-Site Installation Demo with Order!!!

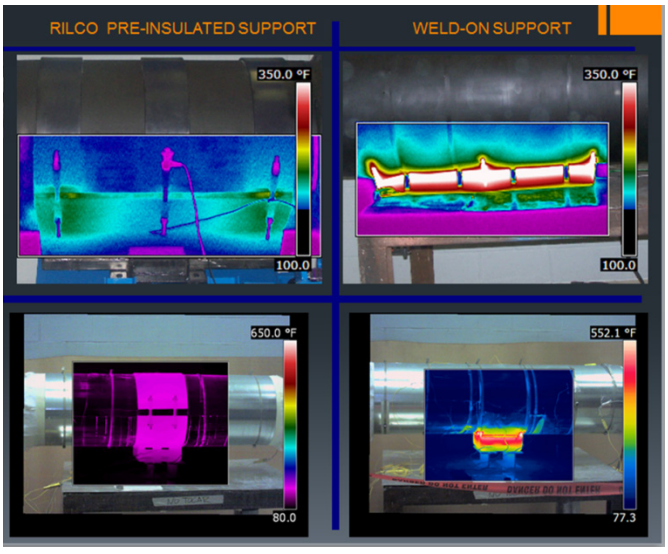
ENGINEERING SERVICES

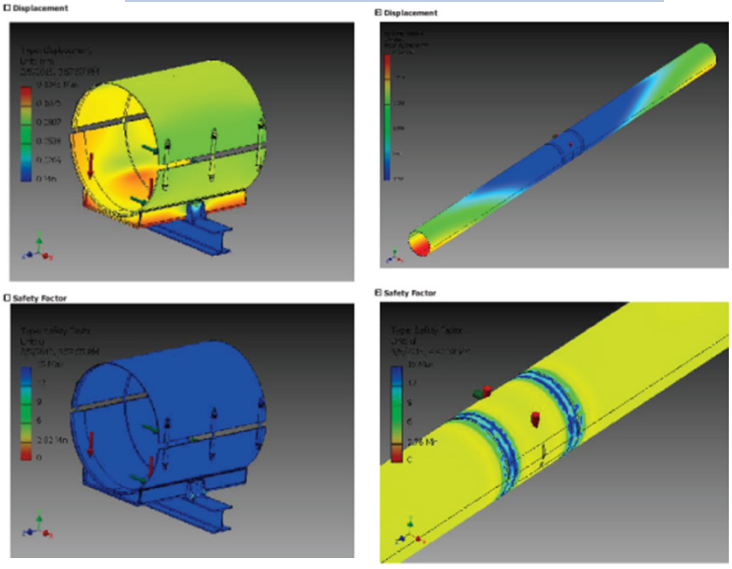
Our engineering department is staffed with experienced professionals who have over 100 years combined experience in the design of pipe supports who can ensure that the business goals of our clients are met in a safe, timely, and cost-effective manner. These professionals are capable of working with any type of pipe support client whether it's a grassroots construction project or a revamp and upgrade project.

- Engineering Support
- Research & Design
- Finite Element Analysis
- HAZOP/HAZID/SIL
- Surge Analysis
- Pipe Stress Analysis
- CFD Analysis
- Process Design/Audits
- Feasibility Report Prep
- Sizing Calculations
- Static Stress Analysis
- Dynamic Stress Analysis
- 3D Modeling of Pipe Supports
- Analysis of Steam Lines
- Support Troubleshooting









RESEARCH & DEVELOPMENT

With innovation as one of our top priorities we employ a research and development team that keeps Rilco at the forefront of pipe support technology. Our in-house testing equipment has allows us to continuously experiment with new materials and technologies and enables our R&D team to vet out each product from idea conceptualization to production.

Research Includes:

- Physical Load Testing
- Low Temperature Testing of Polyurethane & CryroWrap® (Cold Service Aerogel) Insulated Pipe Supports
- High Temperature Testing of Calcium Silicate & PyroWrap® (Hot Service Aerogel) Insulated Pipe Supports
- Low Temperature Coil Spring Cyclic Testing
- Belleville Washer Fatigue Testing



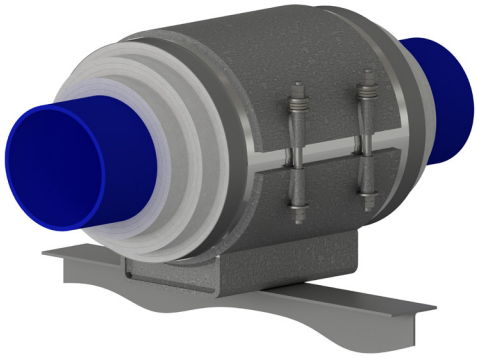




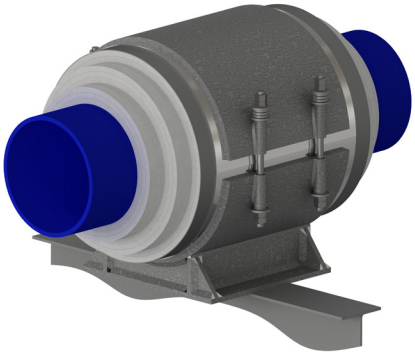


Aerogel Cold Service Supports

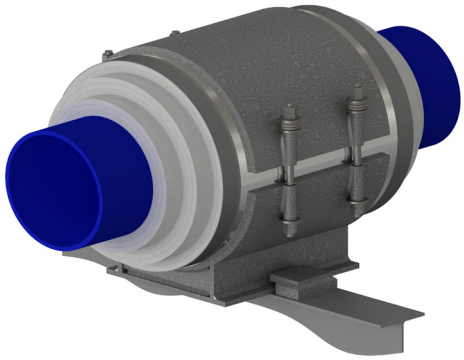
Aerogel Cold Service Supports Overview



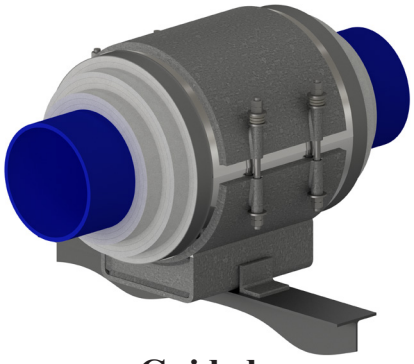
Resting



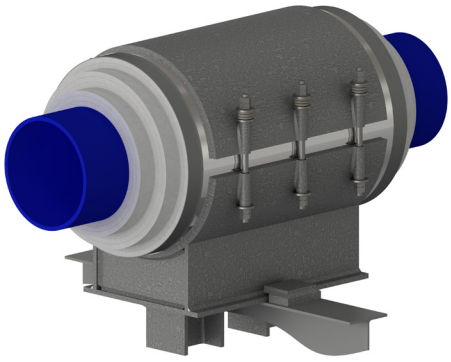
High Lateral Travel



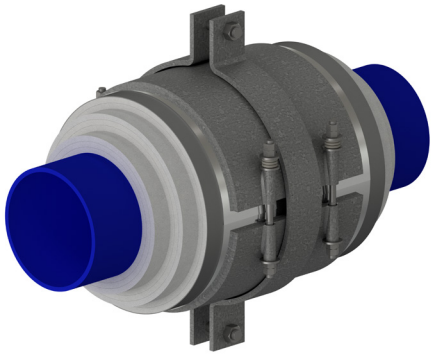
Vertically Restrained Guided



Guided

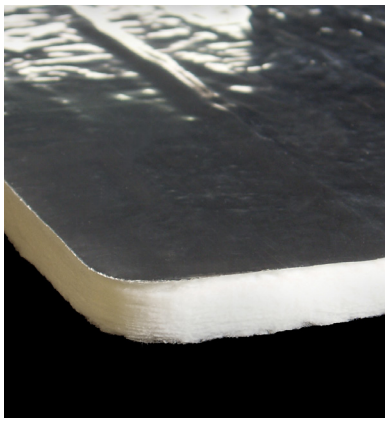


Anchor



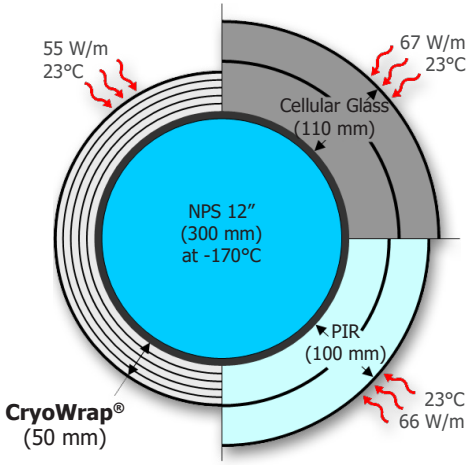
Hanging

RILCO CryoWrap® for Cryogenic and Sub-Ambient Applications
Service Temperature Ranges: -460°F (-270°C) to 195°F (90°C)



CryoWrap® pipe supports provide unique properties that make them ideal for cryogenic thermal protection. Their extremely low thermal conductivity helps reduce heat gain and liquid "boil-off," and their vapor-resistant design prevents water from entering or escaping. They're also highly durable—resisting mechanical abuse—and their smaller circumference makes installation easier and helps reduce labor costs.

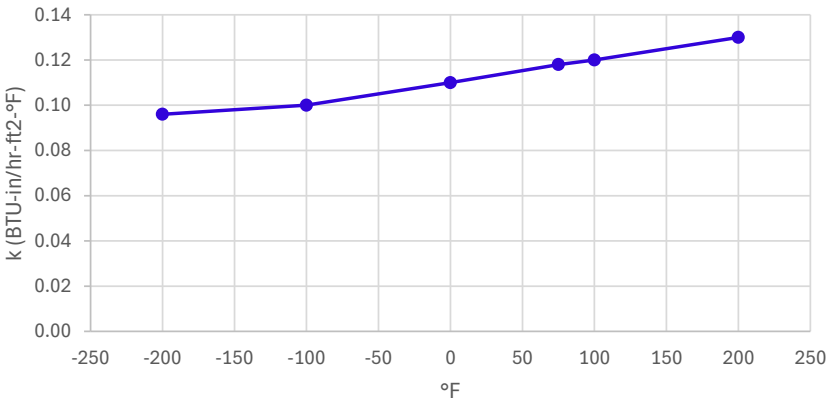
CryoWrap® pipe supports utilizes aerogels with an integral vapor barrier and requires 25% -30% the insulation thickness of other insulation types. It is lighter weight and no water permeability.



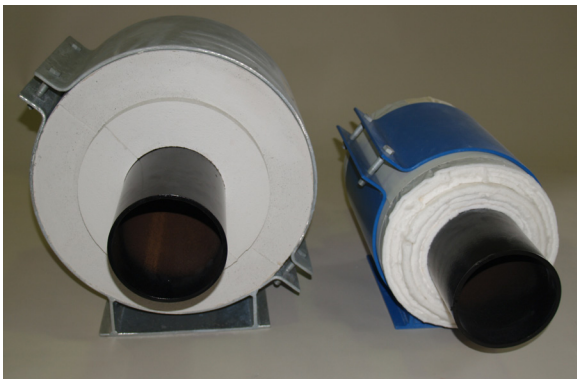
All three designs meet the same condensation control criteria

Thermal Conductivity†

ASTM C 177 Results



Comparable Insulation Ratings



Polyurethane **CryoWrap™**

Mean Temp. (°F)	-200	-100	0	75	100	200
k (BTU-in/hr-ft2-°F)	0.10	0.10	0.11	0.118	0.12	0.13

†Thermal conductivity measurements taken at a compressive load of 2 psi.

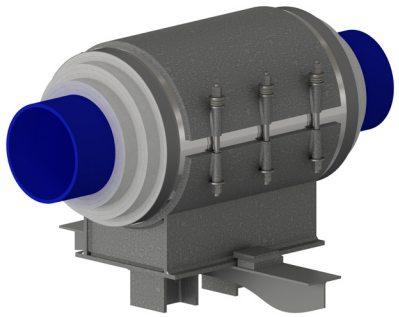
RILCO CryoWrap® - Properties
Service Temperature Ranges: -460°F (-270°C) to -195°F (-126°C)

Thermal Performance: CryoWrap® pipe supports are designed for cryogenic and sub-ambient applications and offer very low thermal conductivity. Their smaller circumference reduces exposed surface area, which helps limit heat gain. In most cases, the required condensation-control thickness is enough to meet the project's heat-gain limits. This built-in "safety factor" can improve process stability, reduce boil-off, and save energy. Thermal performance remains consistent over time because the insulation does not rely on blowing agents that could diffuse.

Moisture and Vapor Resistance: CryoWrap® pipe supports include an integral vapor barrier, providing a zero-perm system for cryogenic applications.

Structural Integrity: CryoWrap® pipe supports provide superior durability in comparison to other products commonly used in high temperature applications. The CryoWrap® systems design permit for the "modularization" of the piping by allowing the pipe sections to have the pipe supports and line insulation to be pre-installed off-site, or on-site at a safe location and then lifted into position without fear of damaging the insulation.

Dimensional Stability: CryoWrap® pipe supports when used on a CryoWrap® insulated line allow movement of the insulated system yet remain flexible and are not susceptiable thermal shock. This design allows the usual issues of degraded insulation caused by expansion, extreme stress, structural deformation and crack propagation problems encountered with traditional insulation systems to no longer be a concern.



Specification Compliance and Performance: Typical performance that is consistent with ASTM C1728

Test Procedure	Property	Results
ASTM C 165[1]	Compressive Resistance	≥ 5 psi (34.5 kPa) @ 10% deformation
ASTM C 356	Linear Shrinkage Under Soaking Heat	<2%
ASTM C 795	Insulation for Use Over Austenitic Stainless Steel	Passed
ASTM C 1101	Classifying the Flexibility of Mineral Fiber Blankets	Class: Resilient Flexible
ASTM C 1104	Water Vapor Sorption	≤5% (by weight)
ASTM C 1338	Fungal Resistance of Insulation Materials	No Growth
ASTM C 1617	Corrosiveness to Steel	Passed
ASTM C 1763	Water Absorption by Immersion	Passed
ASTM E 84	Surface Burning Characteristics	Flame Spread Index = ≤25 Smoke Developed Index = ≤50

[1] Compression resistance measured using a preload of 2 psi.

IMPERIAL

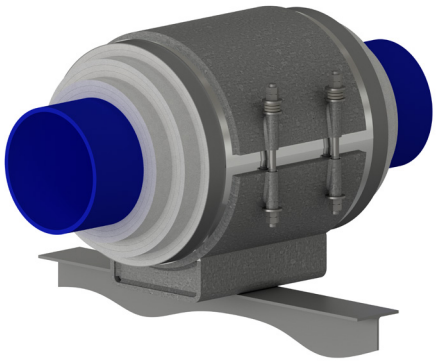
Resting

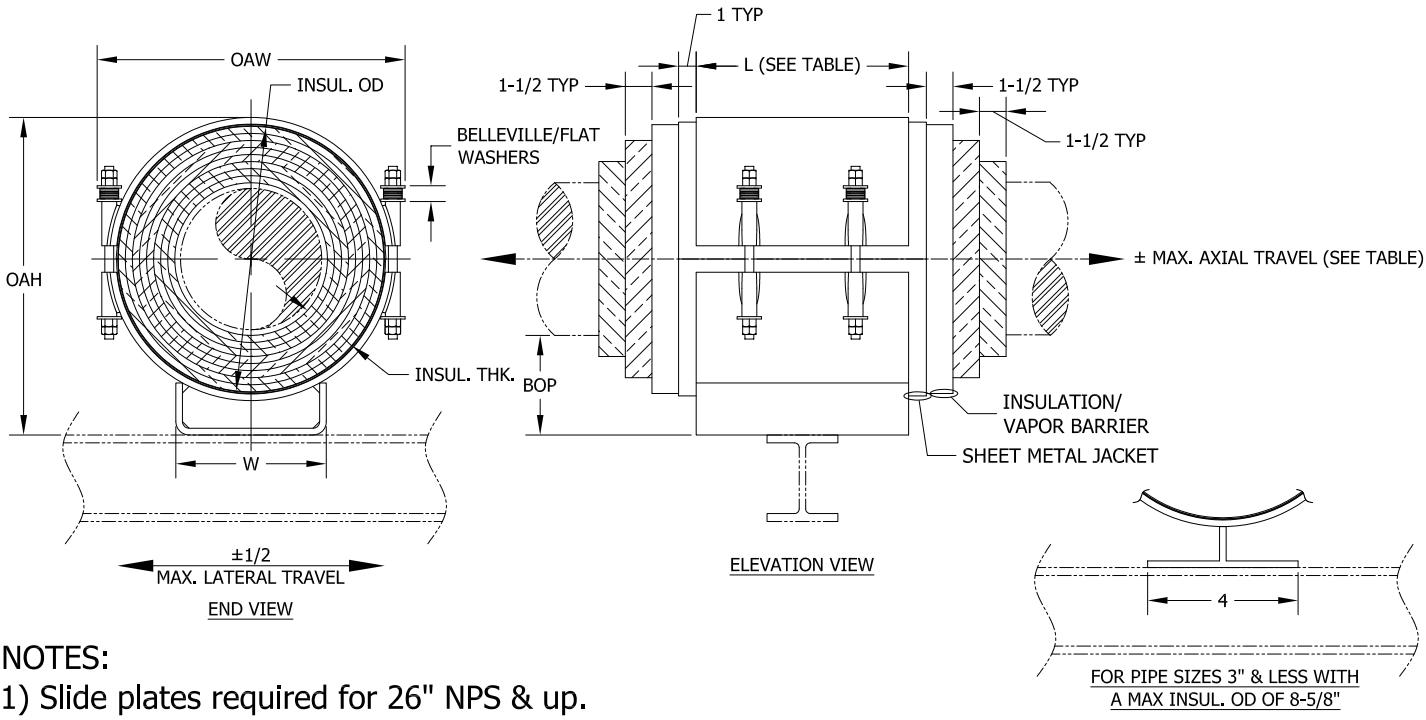
Patent No. US10,252,490 and US11,014,333
(See page 113 for international patents)

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (in)
CSCW -	8 x	30 -	4 -	12 -	5100

Cold **S**lide **C**ryo**W**rap





NOTES:
1) Slide plates required for 26" NPS & up.

*W - Dimension is calculated by multiplying (INSULATION OD*0.55).

Applications & Features:

- Temperature range to -460 Deg F to 195 Deg F
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel on sizes 26" and larger
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RCS-750
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral (±⅛ in) & Axial (See Table) Travel

** Information presented on this page subject to change without notice.

Resting

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (in)
CSCW -	8 x	30 -	4 -	12 -	5100

Cold **S**lide **C**ryo**W**rap

Notes:
1) Dimensions in inches unless noted
2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE (in)	LENGTH (in)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	INSULATION THICKNESS															
						10 mm				20 mm				30 mm				40 mm			
						BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1	6	<0.75	627	0.75	627																
1	12	<0.75	1881	1.5	1505	4	2.1	4.8	6.2	4	2.9	5.6	6.6	4	3.7	6.4	7	4	4.5	7.2	7.4
1	18	<0.75	2717	4.5	1359																
1.5	6	<0.75	627	0.75	627																
1.5	12	<0.75	1881	1.5	1505	4	2.7	5.4	6.8	4	3.5	6.2	7.2	4	4.3	7	7.6	4	5	7.7	8
1.5	18	<0.75	2717	4.5	1359																
2	6	<0.75	627	0.75	627																
2	12	<0.75	1881	1.5	1505	4	3.2	5.9	7.3	4	3.9	6.6	7.7	4	4.7	7.4	8.1	4	5.5	8.2	8.4
2	18	<0.75	2717	4.5	1359																
3	6	<0.75	1463	0.75	1463																
3	12	<0.75	3971	1.5	3177	4	4.3	7	8.4	4	5.1	7.8	8.8	4	5.9	8.6	9.2	4	6.6	9.3	9.6
3	18	<0.75	5643	4.5	2822																
4	6	<0.75	1452	0.75	1452																
4	12	<0.75	3828	1.5	3254	4	5.3	8	9.4	4	6.1	8.8	9.8	4	6.9	9.6	10.2	4	7.6	10.3	10.6
4	18	<0.75	5412	4.5	2706																
6	6	<0.75	1452	0.75	1452																
6	12	<0.75	3828	1.5	3445	4	7.4	10.1	11.5	4	8.2	10.9	11.9	4	9	11.7	12.3	4	9.8	12.5	12.7
6	18	<0.75	5412	4.5	3788																
8	6	<0.75	2250	0.75	2250																
8	12	<0.75	4950	1.5	4455	4	9.4	12.1	13.5	4	10.2	12.9	13.9	4	11	13.7	14.3	4	11.8	14.5	14.7
8	18	<0.75	7650	4.5	5355																
10	6	<0.75	2250	0.75	2250																
10	12	<0.75	4950	1.5	4455	4	11.5	14.2	15.6	4	12.3	15	16	4	13.1	15.8	16.4	4	13.9	16.6	16.8
10	18	<0.75	7650	4.5	5355																
12	6	<0.75	4050	0.75	4050																
12	12	<0.75	8550	1.5	7695	4	13.5	16.2	17.6	4	14.3	17	18	4	15.1	17.8	18.4	4	15.9	18.6	18.8
12	18	<0.75	13050	4.5	9135																
14	6	<0.75	3825	0.75	3825																
14	12	<0.75	8550	1.5	7695	4	14.8	17.5	18.9	4	15.6	18.3	19.3	4	16.4	19.1	19.7	4	17.1	19.8	20.1
14	18	<0.75	13050	4.5	9135																
16	12	<0.75	8550	1.5	7695																
16	18	<0.75	13050	4.5	9135	4	16.8	19.5	20.9	4	17.6	20.3	21.3	4	18.4	21.1	21.7	4	19.1	21.8	22.1
18	12	<0.75	8976	1.5	8078																
18	18	<0.75	14256	4.5	9979	4	18.8	21.5	22.9	4	19.6	22.3	23.3	4	20.4	23.1	23.7	4	21.1	23.8	24.1
20	12	<0.75	8976	1.5	8078																
20	18	<0.75	14256	4.5	9979	4	20.8	23.5	24.9	4	21.6	24.3	25.3	4	22.4	25.1	25.7	4	23.1	25.8	26.1
24	12	<0.75	10774	1.5	9696																
24	18	<0.75	17111	4.5	11978	4	24.8	27.5	28.9	4	25.6	28.3	29.3	4	26.4	29.1	29.7	4	27.1	29.8	30.1
26	12	<0.75	12572	1.5	11314																
26	18	<0.75	19967	4.5	13977	4	26.8	29.5	30.9	4	27.6	30.3	31.3	4	28.4	31.1	31.7	6	29.1	31.8	34.1
28	12	<0.75	14369	1.5	12932																
28	18	<0.75	22822	4.5	15975	4	28.8	31.5	32.9	4	29.6	32.3	33.3	4	30.4	33.1	33.7	6	31.1	33.8	36.1
30	12	<0.75	16167	1.5	14550																
30	18	<0.75	25677	4.5	17974	4	30.8	33.5	34.9	4	31.6	34.3	35.3	4	32.4	35.1	35.7	6	33.1	35.8	38.1
32	12	<0.75	19020	1.5	17118																
32	18	<0.75	26628	4.5	18640	4	32.8	35.5	36.9	4	33.6	36.3	37.3	4	34.4	37.1	37.7	6	35.1	37.8	40.1
34	12	<0.75	20922	1.5	18830																
34	18	<0.75	30075	4.5	21053	4	34.8	37.5	38.9	4	35.6	38.3	39.3	4	36.4	39.1	39.7	6	37.1	39.8	42.1
36	12	<0.75	22824	1.5	20542																
36	18	<0.75	33523	4.5	23466	4	36.8	39.5	40.9	4	37.6	40.3	41.3	4	38.4	41.1	41.7	6	39.1	41.8	44.1
42	12	<0.75	23775	1.5	21398																
42	18	<0.75	35663	4.5	24964	4	42.8	45.5	46.9	4	43.6	46.3	47.3	4	44.4	47.1	47.7	6	45.1	47.8	50.1

IMPERIAL

Resting

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (in)
CSCW -	8	x 30 -	4	- 12	- 5100

Cold **S**lide **C**ryo**W**rap

IMPERIAL

PIPE SIZE (in)	LENGTH (in)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	INSULATION THICKNESS													
						50 mm				60 mm				70 mm				80 mm			
						BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1	6	<0.75	627	0.75	627																
1	12	<0.75	1881	1.5	1505	4	5.3	8	7.8	4	6	8.7	8.2	6	6.8	9.5	10.6	6	7.6	10.3	11
1	18	<0.75	2717	4.5	1359																
1.5	6	<0.75	627	0.75	627																
1.5	12	<0.75	1881	1.5	1505	4	5.8	8.5	8.4	4	6.6	9.3	8.8	6	7.4	10.1	11.2	6	8.2	10.9	11.5
1.5	18	<0.75	2717	4.5	1359																
2	6	<0.75	627	0.75	627																
2	12	<0.75	1881	1.5	1505	4	6.3	9	8.8	4	7.1	9.8	9.2	6	7.9	10.6	11.6	6	8.7	11.4	12
2	18	<0.75	2717	4.5	1359																
3	6	<0.75	1463	0.75	1463																
3	12	<0.75	3971	1.5	3177	4	7.4	10.1	10	4	8.2	10.9	10.4	6	9	11.7	12.8	6	9.8	12.5	13.1
3	18	<0.75	5643	4.5	2822																
4	6	<0.75	1452	0.75	1452																
4	12	<0.75	3828	1.5	3254	4	8.4	11.1	11	4	9.2	11.9	11.4	6	10	12.7	13.8	6	10.8	13.5	14.1
4	18	<0.75	5412	4.5	2706																
6	6	<0.75	1452	0.75	1452																
6	12	<0.75	3828	1.5	3445	4	10.6	13.3	13.1	4	11.3	14	13.5	6	12.1	14.8	15.9	6	12.9	15.6	16.3
6	18	<0.75	5412	4.5	3788																
8	6	<0.75	2250	0.75	2250																
8	12	<0.75	4950	1.5	4455	4	12.6	15.3	15.1	6	13.3	16	17.5	6	14.1	16.8	17.9	6	14.9	17.6	18.3
8	18	<0.75	7650	4.5	5355																
10	6	<0.75	2250	0.75	2250																
10	12	<0.75	4950	1.5	4455	4	14.7	17.4	17.2	6	15.5	18.2	19.6	6	16.3	19	20	6	17	19.7	20.4
10	18	<0.75	7650	4.5	5355																
12	6	<0.75	4050	0.75	4050																
12	12	<0.75	8550	1.5	7695	4	16.7	19.4	19.2	6	17.5	20.2	21.6	6	18.3	21	22	6	19	21.7	22.4
12	18	<0.75	13050	4.5	9135																
14	6	<0.75	3825	0.75	3825																
14	12	<0.75	8550	1.5	7695	4	17.9	20.6	20.5	6	18.7	21.4	22.9	6	19.5	22.2	23.3	6	20.3	23	23.6
14	18	<0.75	13050	4.5	9135																
16	12	<0.75	8550	1.5	7695	6	19.9	22.6	24.5	6	20.7	23.4	24.9	6	21.5	24.2	25.3	8	22.3	25	27.6
16	18	<0.75	13050	4.5	9135																
18	12	<0.75	8976	1.5	8078	6	21.9	24.6	26.5	6	22.7	25.4	26.9	6	23.5	26.2	27.3	8	24.3	27	29.6
18	18	<0.75	14256	4.5	9979																
20	12	<0.75	8976	1.5	8078	6	23.9	26.6	28.5	6	24.7	27.4	28.9	6	25.5	28.2	29.3	8	26.3	29	31.6
20	18	<0.75	14256	4.5	9979																
24	12	<0.75	10774	1.5	9696	6	27.9	30.6	32.5	6	28.7	31.4	32.9	6	29.5	32.2	33.3	8	30.3	33	35.6
24	18	<0.75	17111	4.5	11978																
26	12	<0.75	12572	1.5	11314	6	29.9	32.6	34.5	6	30.7	33.4	34.9	6	31.5	34.2	35.3	8	32.3	35	37.6
26	18	<0.75	19967	4.5	13977																
28	12	<0.75	14369	1.5	12932	6	31.9	34.6	36.5	6	32.7	35.4	36.9	6	33.5	36.2	37.3	8	34.3	37	39.6
28	18	<0.75	22822	4.5	15975																
30	12	<0.75	16167	1.5	14550	6	33.9	36.6	38.5	6	34.7	37.4	38.9	6	35.5	38.2	39.3	8	36.3	39	41.6
30	18	<0.75	25677	4.5	17974																
32	12	<0.75	19020	1.5	17118	7	35.9	38.6	41.5	6	36.7	39.4	40.9	6	37.5	40.2	41.3	8	38.3	41	43.6
32	18	<0.75	26628	4.5	18640																
34	12	<0.75	20922	1.5	18830	8	37.9	40.6	44.5	6	38.7	41.4	42.9	6	39.5	42.2	43.3	8	40.3	43	45.6
34	18	<0.75	30075	4.5	21053																
36	12	<0.75	22824	1.5	20542	6	39.9	42.6	44.5	6	40.7	43.4	44.9	6	41.5	44.2	45.3	8	42.3	45	47.6
36	18	<0.75	33523	4.5	23466																
42	12	<0.75	23775	1.5	21398	6	45.9	48.6	50.5	6	46.7	49.4	50.9	6	47.5	50.2	51.3	8	48.3	51	53.6
42	18	<0.75	35663	4.5	24964																

Resting

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (in)
CSCW -	8 x	30 -	4 -	12 -	5100

Cold **S**lide **C**ryo**W**rap

IMPERIAL

PIPE SIZE (in)	LENGTH (in)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	INSULATION THICKNESS															
						90 mm				100 mm				110 mm				120 mm			
						BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1	6	<0.75	627	0.75	627																
1	12	<0.75	1881	1.5	1505	6	8.4	11.1	11.4	6	9.2	11.9	11.8	8	10	12.7	14.1	8	10.8	13.5	14.5
1	18	<0.75	2717	4.5	1359																
1.5	6	<0.75	627	0.75	627																
1.5	12	<0.75	1881	1.5	1505	6	9	11.7	11.9	6	9.8	12.5	12.3	8	10.6	13.3	14.7	8	11.3	14	15.1
1.5	18	<0.75	2717	4.5	1359																
2	6	<0.75	627	0.75	627																
2	12	<0.75	1881	1.5	1505	6	9.5	12.2	12.4	6	10.2	12.9	12.8	8	11	13.7	15.2	8	11.8	14.5	15.6
2	18	<0.75	2717	4.5	1359																
3	6	<0.75	1463	0.75	1463																
3	12	<0.75	3971	1.5	3177	6	10.6	13.3	13.5	6	11.4	14.1	13.9	8	12.2	14.9	16.3	8	12.9	15.6	16.7
3	18	<0.75	5643	4.5	2822																
4	6	<0.75	1452	0.75	1452																
4	12	<0.75	3828	1.5	3254	6	11.6	14.3	14.5	6	12.4	15.1	14.9	8	13.2	15.9	17.3	8	13.9	16.6	17.7
4	18	<0.75	5412	4.5	2706																
6	6	<0.75	1452	0.75	1452																
6	12	<0.75	3828	1.5	3445	6	13.7	16.4	16.7	6	14.5	17.2	17.1	8	15.3	18	19.5	8	16.1	18.8	19.8
6	18	<0.75	5412	4.5	3788																
8	6	<0.75	2250	0.75	2250																
8	12	<0.75	4950	1.5	4455	6	15.7	18.4	18.7	6	16.5	19.2	19.1	8	17.3	20	21.5	8	18.1	20.8	21.8
8	18	<0.75	7650	4.5	5355																
10	6	<0.75	2250	0.75	2250																
10	12	<0.75	4950	1.5	4455	6	17.8	20.5	20.8	6	18.6	21.3	21.2	8	19.4	22.1	23.6	8	20.2	22.9	24
10	18	<0.75	7650	4.5	5355																
12	6	<0.75	4050	0.75	4050																
12	12	<0.75	8550	1.5	7695	6	19.8	22.5	22.8	6	20.6	23.3	23.2	8	21.4	24.1	25.6	8	22.2	24.9	26
12	18	<0.75	13050	4.5	9135																
14	6	<0.75	3825	0.75	3825																
14	12	<0.75	8550	1.5	7695	6	21.1	23.8	24	6	21.9	24.6	24.4	8	22.7	25.4	26.8	8	23.4	26.1	27.2
14	18	<0.75	13050	4.5	9135																
16	12	<0.75	8550	1.5	7695	8	23.1	25.8	28	8	23.9	26.6	28.4	8	24.7	27.4	28.8	8	25.4	28.1	29.2
16	18	<0.75	13050	4.5	9135																
18	12	<0.75	8976	1.5	8078	8	25.1	27.8	30	8	25.9	28.6	30.4	8	26.7	29.4	30.8	8	27.4	30.1	31.2
18	18	<0.75	14256	4.5	9979																
20	12	<0.75	8976	1.5	8078	8	27.1	29.8	32	8	27.9	30.6	32.4	8	28.7	31.4	32.8	8	29.4	32.1	33.2
20	18	<0.75	14256	4.5	9979																
24	12	<0.75	10774	1.5	9696	8	31.1	33.8	36	8	31.9	34.6	36.4	8	32.7	35.4	36.8	8	33.4	36.1	37.2
24	18	<0.75	17111	4.5	11978																
26	12	<0.75	12572	1.5	11314	8	33.1	35.8	38	8	33.9	36.6	38.4	8	34.7	37.4	38.8	8	35.4	38.1	39.2
26	18	<0.75	19967	4.5	13977																
28	12	<0.75	14369	1.5	12932	8	35.1	37.8	40	8	35.9	38.6	40.4	8	36.7	39.4	40.8	8	37.4	40.1	41.2
28	18	<0.75	22822	4.5	15975																
30	12	<0.75	16167	1.5	14550	8	37.1	39.8	42	8	37.9	40.6	42.4	8	38.7	41.4	42.8	8	39.4	42.1	43.2
30	18	<0.75	25677	4.5	17974																
32	12	<0.75	19020	1.5	17118	8	39.1	41.8	44	8	39.9	42.6	44.4	8	40.7	43.4	44.8	8	41.4	44.1	45.2
32	18	<0.75	26628	4.5	18640																
34	12	<0.75	20922	1.5	18830	8	41.1	43.8	46	8	41.9	44.6	46.4	8	42.7	45.4	46.8	8	43.4	46.1	47.2
34	18	<0.75	30075	4.5	21053																
36	12	<0.75	22824	1.5	20542	8	43.1	45.8	48	8	43.9	46.6	48.4	8	44.7	47.4	48.8	8	45.4	48.1	49.2
36	18	<0.75	33523	4.5	23466																
42	12	<0.75	23775	1.5	21398	8	49.1	51.8	54	8	49.9	52.6	54.4	8	50.7	53.4	54.8	8	51.4	54.1	55.2
42	18	<0.75	35663	4.5	24964																

IMPERIAL

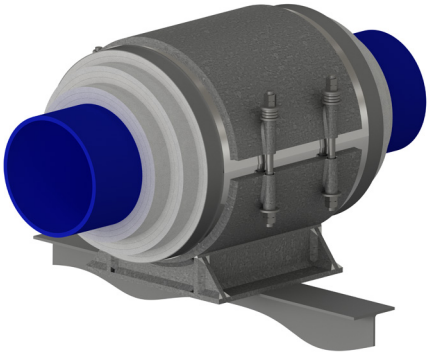
High Lateral Travel

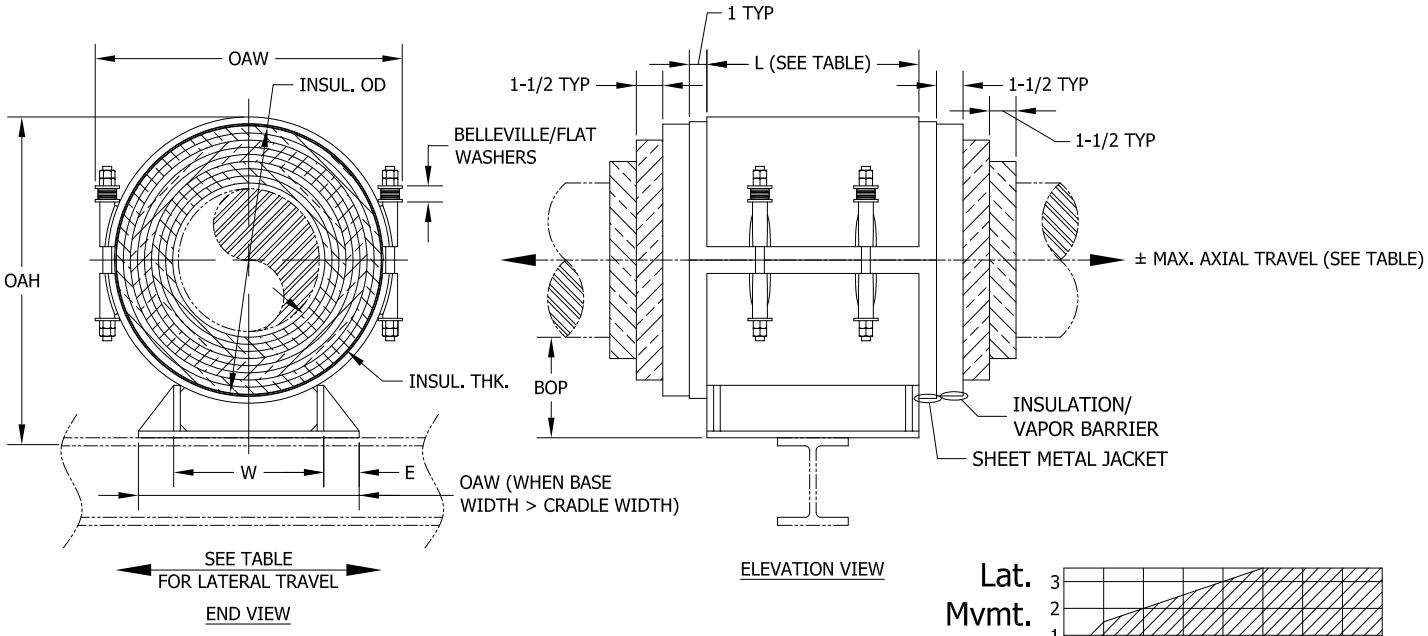
Patent No. US10,252,490 and US11,014,333
(See page 113 for international patents)

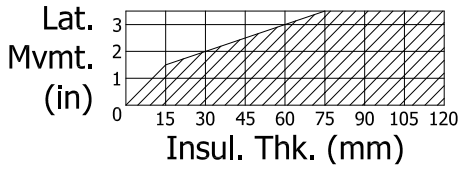
DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (in)
CS(H)CW -	8 x	30 -	4 -	12 -	5100

Cold **S**lide (**H**igh Lateral Travel) **C**ryo**W**rap







NOTES:
1) Slide plates required for 26" NPS & up.

*W - Dimension is calculated by multiplying (INSULATION OD*0.55).

Applications & Features:

- Temperature range to -460 Deg F to 195 Deg F
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel on sizes 26" and larger
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RCS-750
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral (±⅛ in) & Axial (See Table) Travel

** Information presented on this page subject to change without notice.

High Lateral Travel

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (in)
CS(H)CW -	8 x	30 -	4 -	12 -	5100

Cold **S**lide (**H**igh Lateral Travel) **C**ryo**W**rap

Notes:
1) Dimensions in inches unless noted
2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE (in)	LENGTH (in)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	INSULATION THICKNESS															
						10 mm				20 mm				30 mm				40 mm			
						BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1	6	<0.75	627	0.75	627	4	2.1	4.8	6.2	4	2.9	5.6	6.6	4	3.7	6.4	7	4	4.5	7.2	7.4
1	12	<0.75	1881	1.5	1505																
1	18	<0.75	2717	4.5	1359																
1.5	6	<0.75	627	0.75	627	4	2.7	5.4	6.8	4	3.5	6.2	7.2	4	4.3	7	7.6	4	5	7.7	8
1.5	12	<0.75	1881	1.5	1505																
1.5	18	<0.75	2717	4.5	1359																
2	6	<0.75	627	0.75	627	4	3.2	5.9	7.3	4	3.9	6.6	7.7	4	4.7	7.4	8.1	4	5.5	8.2	8.4
2	12	<0.75	1881	1.5	1505																
2	18	<0.75	2717	4.5	1359																
3	6	<0.75	1463	0.75	1463	4	4.3	7	8.4	4	5.1	7.8	8.8	4	5.9	8.6	9.2	4	6.6	9.3	9.6
3	12	<0.75	3971	1.5	3177																
3	18	<0.75	5643	4.5	2822																
4	6	<0.75	1452	0.75	1452	4	5.3	8	9.4	4	6.1	8.8	9.8	4	6.9	9.6	10.2	4	7.6	10.3	10.6
4	12	<0.75	3828	1.5	3254																
4	18	<0.75	5412	4.5	2706																
6	6	<0.75	1452	0.75	1452	4	7.4	10.1	11.5	4	8.2	10.9	11.9	4	9	11.7	12.3	4	9.8	12.5	12.7
6	12	<0.75	3828	1.5	3445																
6	18	<0.75	5412	4.5	3788																
8	6	<0.75	2250	0.75	2250	4	9.4	12.1	13.5	4	10.2	12.9	13.9	4	11	13.7	14.3	4	11.8	14.5	14.7
8	12	<0.75	4950	1.5	4455																
8	18	<0.75	7650	4.5	5355																
10	6	<0.75	2250	0.75	2250	4	11.5	14.2	15.6	4	12.3	15	16	4	13.1	15.8	16.4	4	13.9	16.6	16.8
10	12	<0.75	4950	1.5	4455																
10	18	<0.75	7650	4.5	5355																
12	6	<0.75	4050	0.75	4050	4	13.5	16.2	17.6	4	14.3	17	18	4	15.1	17.8	18.4	4	15.9	18.6	18.8
12	12	<0.75	8550	1.5	7695																
12	18	<0.75	13050	4.5	9135																
14	6	<0.75	3825	0.75	3825	4	14.8	17.5	18.9	4	15.6	18.3	19.3	4	16.4	19.1	19.7	4	17.1	19.8	20.1
14	12	<0.75	8550	1.5	7695																
14	18	<0.75	13050	4.5	9135																
16	12	<0.75	8550	1.5	7695	4	16.8	19.5	20.9	4	17.6	20.3	21.3	4	18.4	21.1	21.7	4	19.1	21.8	22.1
16	18	<0.75	13050	4.5	9135																
18	12	<0.75	8976	1.5	8078	4	18.8	21.5	22.9	4	19.6	22.3	23.3	4	20.4	23.1	23.7	4	21.1	23.8	24.1
18	18	<0.75	14256	4.5	9979																
20	12	<0.75	8976	1.5	8078	4	20.8	23.5	24.9	4	21.6	24.3	25.3	4	22.4	25.1	25.7	4	23.1	25.8	26.1
20	18	<0.75	14256	4.5	9979																
24	12	<0.75	10774	1.5	9696	4	24.8	27.5	28.9	4	25.6	28.3	29.3	4	26.4	29.1	29.7	4	27.1	29.8	30.1
24	18	<0.75	17111	4.5	11978																
26	12	<0.75	12572	1.5	11314	4	26.8	29.5	30.9	4	27.6	30.3	31.3	4	28.4	31.1	31.7	6	29.1	31.8	34.1
26	18	<0.75	19967	4.5	13977																
28	12	<0.75	14369	1.5	12932	4	28.8	31.5	32.9	4	29.6	32.3	33.3	4	30.4	33.1	33.7	6	31.1	33.8	36.1
28	18	<0.75	22822	4.5	15975																
30	12	<0.75	16167	1.5	14550	4	30.8	33.5	34.9	4	31.6	34.3	35.3	4	32.4	35.1	35.7	6	33.1	35.8	38.1
30	18	<0.75	25677	4.5	17974																
32	12	<0.75	19020	1.5	17118	4	32.8	35.5	36.9	4	33.6	36.3	37.3	4	34.4	37.1	37.7	6	35.1	37.8	40.1
32	18	<0.75	26628	4.5	18640																
34	12	<0.75	20922	1.5	18830	4	34.8	37.5	38.9	4	35.6	38.3	39.3	4	36.4	39.1	39.7	6	37.1	39.8	42.1
34	18	<0.75	30075	4.5	21053																
36	12	<0.75	22824	1.5	20542	4	36.8	39.5	40.9	4	37.6	40.3	41.3	4	38.4	41.1	41.7	6	39.1	41.8	44.1
36	18	<0.75	33523	4.5	23466																
42	12	<0.75	23775	1.5	21398	4	42.8	45.5	46.9	4	43.6	46.3	47.3	4	44.4	47.1	47.7	6	45.1	47.8	50.1
42	18	<0.75	35663	4.5	24964																

IMPERIAL

High Lateral Travel

IMPERIAL

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (in)
CS(H)CW -	8 x	30 -	4 -	12 -	5100

Cold **S**lide (**H**igh Lateral Travel) **C**ryo**W**rap

PIPE SIZE (in)	LENGTH (in)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	INSULATION THICKNESS															
						50 mm				60 mm				70 mm				80 mm			
						BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1	6	<0.75	627	0.75	627																
1	12	<0.75	1881	1.5	1505	4	5.3	8	7.8	4	6	8.7	8.2	6	6.8	9.5	10.6	6	7.6	10.3	11
1	18	<0.75	2717	4.5	1359																
1.5	6	<0.75	627	0.75	627																
1.5	12	<0.75	1881	1.5	1505	4	5.8	8.5	8.4	4	6.6	9.3	8.8	6	7.4	10.1	11.2	6	8.2	10.9	11.5
1.5	18	<0.75	2717	4.5	1359																
2	6	<0.75	627	0.75	627																
2	12	<0.75	1881	1.5	1505	4	6.3	9	8.8	4	7.1	9.8	9.2	6	7.9	10.6	11.6	6	8.7	11.4	12
2	18	<0.75	2717	4.5	1359																
3	6	<0.75	1463	0.75	1463																
3	12	<0.75	3971	1.5	3177	4	7.4	10.1	10	4	8.2	10.9	10.4	6	9	11.7	12.8	6	9.8	12.5	13.1
3	18	<0.75	5643	4.5	2822																
4	6	<0.75	1452	0.75	1452																
4	12	<0.75	3828	1.5	3254	4	8.4	11.1	11	4	9.2	11.9	11.4	6	10	12.7	13.8	6	10.8	13.5	14.1
4	18	<0.75	5412	4.5	2706																
6	6	<0.75	1452	0.75	1452																
6	12	<0.75	3828	1.5	3445	4	10.6	13.3	13.1	4	11.3	14	13.5	6	12.1	14.8	15.9	6	12.9	15.6	16.3
6	18	<0.75	5412	4.5	3788																
8	6	<0.75	2250	0.75	2250																
8	12	<0.75	4950	1.5	4455	4	12.6	15.3	15.1	6	13.3	16	17.5	6	14.1	16.8	17.9	6	14.9	17.6	18.3
8	18	<0.75	7650	4.5	5355																
10	6	<0.75	2250	0.75	2250																
10	12	<0.75	4950	1.5	4455	4	14.7	17.4	17.2	6	15.5	18.2	19.6	6	16.3	19	20	6	17	19.7	20.4
10	18	<0.75	7650	4.5	5355																
12	6	<0.75	4050	0.75	4050																
12	12	<0.75	8550	1.5	7695	4	16.7	19.4	19.2	6	17.5	20.2	21.6	6	18.3	21	22	6	19	21.7	22.4
12	18	<0.75	13050	4.5	9135																
14	6	<0.75	3825	0.75	3825																
14	12	<0.75	8550	1.5	7695	4	17.9	20.6	20.5	6	18.7	21.4	22.9	6	19.5	22.2	23.3	6	20.3	23	23.6
14	18	<0.75	13050	4.5	9135																
16	12	<0.75	8550	1.5	7695	6	19.9	22.6	24.5	6	20.7	23.4	24.9	6	21.5	24.2	25.3	8	22.3	25	27.6
16	18	<0.75	13050	4.5	9135																
18	12	<0.75	8976	1.5	8078	6	21.9	24.6	26.5	6	22.7	25.4	26.9	6	23.5	26.2	27.3	8	24.3	27	29.6
18	18	<0.75	14256	4.5	9979																
20	12	<0.75	8976	1.5	8078	6	23.9	26.6	28.5	6	24.7	27.4	28.9	6	25.5	28.2	29.3	8	26.3	29	31.6
20	18	<0.75	14256	4.5	9979																
24	12	<0.75	10774	1.5	9696	6	27.9	30.6	32.5	6	28.7	31.4	32.9	6	29.5	32.2	33.3	8	30.3	33	35.6
24	18	<0.75	17111	4.5	11978																
26	12	<0.75	12572	1.5	11314	6	29.9	32.6	34.5	6	30.7	33.4	34.9	6	31.5	34.2	35.3	8	32.3	35	37.6
26	18	<0.75	19967	4.5	13977																
28	12	<0.75	14369	1.5	12932	6	31.9	34.6	36.5	6	32.7	35.4	36.9	6	33.5	36.2	37.3	8	34.3	37	39.6
28	18	<0.75	22822	4.5	15975																
30	12	<0.75	16167	1.5	14550	6	33.9	36.6	38.5	6	34.7	37.4	38.9	6	35.5	38.2	39.3	8	36.3	39	41.6
30	18	<0.75	25677	4.5	17974																
32	12	<0.75	19020	1.5	17118	7	35.9	38.6	41.5	6	36.7	39.4	40.9	6	37.5	40.2	41.3	8	38.3	41	43.6
32	18	<0.75	26628	4.5	18640																
34	12	<0.75	20922	1.5	18830	8	37.9	40.6	44.5	6	38.7	41.4	42.9	6	39.5	42.2	43.3	8	40.3	43	45.6
34	18	<0.75	30075	4.5	21053																
36	12	<0.75	22824	1.5	20542	6	39.9	42.6	44.5	6	40.7	43.4	44.9	6	41.5	44.2	45.3	8	42.3	45	47.6
36	18	<0.75	33523	4.5	23466																
42	12	<0.75	23775	1.5	21398	6	45.9	48.6	50.5	6	46.7	49.4	50.9	6	47.5	50.2	51.3	8	48.3	51	53.6
42	18	<0.75	35663	4.5	24964																

High Lateral Travel

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (in)
CS(H)CW -	8 x	30 -	4 -	12 -	5100

Cold **S**lide (**H**igh Lateral Travel) **C**ryo**W**rap

IMPERIAL

PIPE SIZE (in)	LENGTH (in)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	INSULATION THICKNESS															
						90 mm				100 mm				110 mm				120 mm			
						BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1	6	<0.75	627	0.75	627																
1	12	<0.75	1881	1.5	1505	6	8.4	11.1	11.4	6	9.2	11.9	11.8	8	10	12.7	14.1	8	10.8	13.5	14.5
1	18	<0.75	2717	4.5	1359																
1.5	6	<0.75	627	0.75	627																
1.5	12	<0.75	1881	1.5	1505	6	9	11.7	11.9	6	9.8	12.5	12.3	8	10.6	13.3	14.7	8	11.3	14	15.1
1.5	18	<0.75	2717	4.5	1359																
2	6	<0.75	627	0.75	627																
2	12	<0.75	1881	1.5	1505	6	9.5	12.2	12.4	6	10.2	12.9	12.8	8	11	13.7	15.2	8	11.8	14.5	15.6
2	18	<0.75	2717	4.5	1359																
3	6	<0.75	1463	0.75	1463																
3	12	<0.75	3971	1.5	3177	6	10.6	13.3	13.5	6	11.4	14.1	13.9	8	12.2	14.9	16.3	8	12.9	15.6	16.7
3	18	<0.75	5643	4.5	2822																
4	6	<0.75	1452	0.75	1452																
4	12	<0.75	3828	1.5	3254	6	11.6	14.3	14.5	6	12.4	15.1	14.9	8	13.2	15.9	17.3	8	13.9	16.6	17.7
4	18	<0.75	5412	4.5	2706																
6	6	<0.75	1452	0.75	1452																
6	12	<0.75	3828	1.5	3445	6	13.7	16.4	16.7	6	14.5	17.2	17.1	8	15.3	18	19.5	8	16.1	18.8	19.8
6	18	<0.75	5412	4.5	3788																
8	6	<0.75	2250	0.75	2250																
8	12	<0.75	4950	1.5	4455	6	15.7	18.4	18.7	6	16.5	19.2	19.1	8	17.3	20	21.5	8	18.1	20.8	21.8
8	18	<0.75	7650	4.5	5355																
10	6	<0.75	2250	0.75	2250																
10	12	<0.75	4950	1.5	4455	6	17.8	20.5	20.8	6	18.6	21.3	21.2	8	19.4	22.1	23.6	8	20.2	22.9	24
10	18	<0.75	7650	4.5	5355																
12	6	<0.75	4050	0.75	4050																
12	12	<0.75	8550	1.5	7695	6	19.8	22.5	22.8	6	20.6	23.3	23.2	8	21.4	24.1	25.6	8	22.2	24.9	26
12	18	<0.75	13050	4.5	9135																
14	6	<0.75	3825	0.75	3825																
14	12	<0.75	8550	1.5	7695	6	21.1	23.8	24	6	21.9	24.6	24.4	8	22.7	25.4	26.8	8	23.4	26.1	27.2
14	18	<0.75	13050	4.5	9135																
16	12	<0.75	8550	1.5	7695	8	23.1	25.8	28	8	23.9	26.6	28.4	8	24.7	27.4	28.8	8	25.4	28.1	29.2
16	18	<0.75	13050	4.5	9135																
18	12	<0.75	8976	1.5	8078	8	25.1	27.8	30	8	25.9	28.6	30.4	8	26.7	29.4	30.8	8	27.4	30.1	31.2
18	18	<0.75	14256	4.5	9979																
20	12	<0.75	8976	1.5	8078	8	27.1	29.8	32	8	27.9	30.6	32.4	8	28.7	31.4	32.8	8	29.4	32.1	33.2
20	18	<0.75	14256	4.5	9979																
24	12	<0.75	10774	1.5	9696	8	31.1	33.8	36	8	31.9	34.6	36.4	8	32.7	35.4	36.8	8	33.4	36.1	37.2
24	18	<0.75	17111	4.5	11978																
26	12	<0.75	12572	1.5	11314	8	33.1	35.8	38	8	33.9	36.6	38.4	8	34.7	37.4	38.8	8	35.4	38.1	39.2
26	18	<0.75	19967	4.5	13977																
28	12	<0.75	14369	1.5	12932	8	35.1	37.8	40	8	35.9	38.6	40.4	8	36.7	39.4	40.8	8	37.4	40.1	41.2
28	18	<0.75	22822	4.5	15975																
30	12	<0.75	16167	1.5	14550	8	37.1	39.8	42	8	37.9	40.6	42.4	8	38.7	41.4	42.8	8	39.4	42.1	43.2
30	18	<0.75	25677	4.5	17974																
32	12	<0.75	19020	1.5	17118	8	39.1	41.8	44	8	39.9	42.6	44.4	8	40.7	43.4	44.8	8	41.4	44.1	45.2
32	18	<0.75	26628	4.5	18640																
34	12	<0.75	20922	1.5	18830	8	41.1	43.8	46	8	41.9	44.6	46.4	8	42.7	45.4	46.8	8	43.4	46.1	47.2
34	18	<0.75	30075	4.5	21053																
36	12	<0.75	22824	1.5	20542	8	43.1	45.8	48	8	43.9	46.6	48.4	8	44.7	47.4	48.8	8	45.4	48.1	49.2
36	18	<0.75	33523	4.5	23466																
42	12	<0.75	23775	1.5	21398	8	49.1	51.8	54	8	49.9	52.6	54.4	8	50.7	53.4	54.8	8	51.4	54.1	55.2
42	18	<0.75	35663	4.5	24964																

IMPERIAL

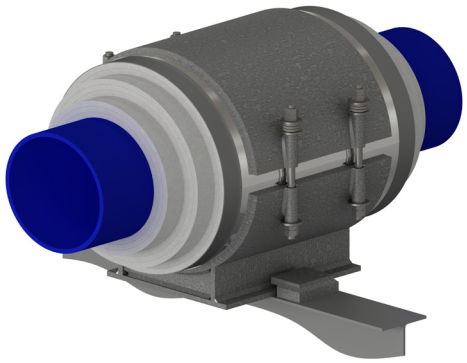
Vertically Restrained Guided

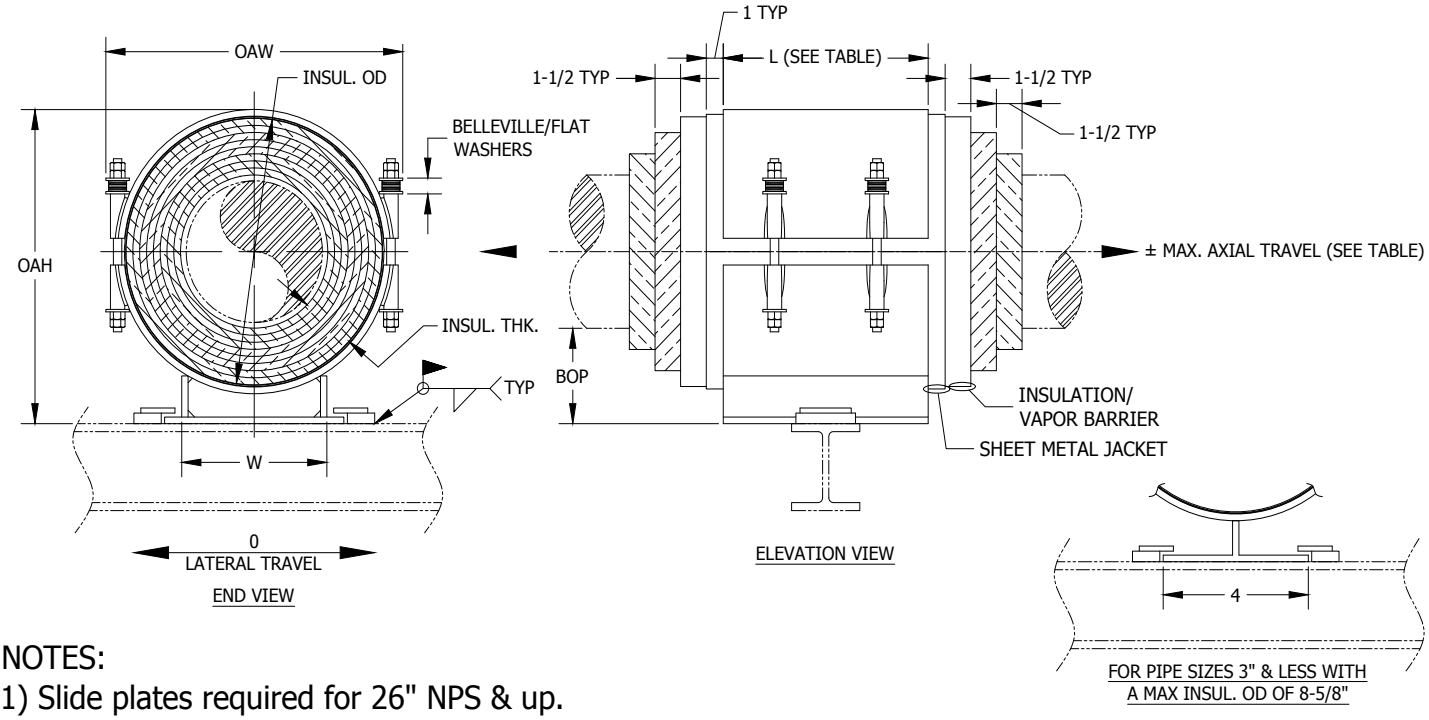
Patent No. US10,252,490 and US11,014,333
(See page 113 for international patents)

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (lbs)	Lateral Load (lbs)
CGCW -	8 x	30 -	4 -	12 -	4335 -	1520

Cold **G**uide **C**ryo**W**rap





NOTES:
1) Slide plates required for 26" NPS & up.

*W - Dimension is calculated by multiplying (INSULATION OD*0.65).

Applications & Features:

- Temperature range to -460 Deg F to 195 Deg F
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel on sizes 26" and larger
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RCS-750
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral Load (As Shown in Tables or Custom)
- Lateral (±⅛ in) & Axial (See Table) Travel

** Information presented on this page subject to change without notice.

Vertically Restrained Guided

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (lbs)	Lateral Load (lbs)
CGCW -	8 x	30 -	4 -	12 -	4335 -	1520

Cold **G**uide **C**ryo**W**rap

IMPERIAL

Notes:
1) Dimensions in inches unless noted
2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE (in)	LENGTH (in)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	LAT. LOAD (lbs)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	LAT. LOAD (lbs)	INSULATION THICKNESS															
								10 mm				20 mm				30 mm				40 mm			
								BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1	6	<0.75	592	207	0.75	592	207	4	2.1	4.8	6.2	4	2.9	5.6	6.6	4	3.7	6.4	7	4	4.5	7.2	7.4
1	12	<0.75	1775	621	1.5	1420	497																
1	18	<0.75	2564	898	4.5	1282	449																
1.5	6	<0.75	592	207	0.75	592	207	4	2.7	5.4	6.8	4	3.5	6.2	7.2	4	4.3	7	7.6	4	5	7.7	8
1.5	12	<0.75	1775	621	1.5	1420	497																
1.5	18	<0.75	2564	898	4.5	1282	449																
2	6	<0.75	592	207	0.75	592	207	4	3.2	5.9	7.3	4	3.9	6.6	7.7	4	4.7	7.4	8.1	4	5.5	8.2	8.4
2	12	<0.75	1775	621	1.5	1420	497																
2	18	<0.75	2564	898	4.5	1282	449																
3	6	<0.75	1381	483	0.75	1381	483	4	4.3	7	8.4	4	5.1	7.8	8.8	4	5.9	8.6	9.2	4	6.6	9.3	9.6
3	12	<0.75	3748	1312	1.5	2998	1049																
3	18	<0.75	5326	1864	4.5	2663	932																
4	6	<0.75	1370	480	0.75	1370	480	4	5.3	8	9.4	4	6.1	8.8	9.8	4	6.9	9.6	10.2	4	7.6	10.3	10.6
4	12	<0.75	3613	1265	1.5	3071	1075																
4	18	<0.75	5108	1788	4.5	2554	894																
6	6	<0.75	1370	480	0.75	1370	480	4	7.4	10.1	11.5	4	8.2	10.9	11.9	4	9	11.7	12.3	4	9.8	12.5	12.7
6	12	<0.75	3613	1265	1.5	3252	1138																
6	18	<0.75	5108	1788	4.5	3576	1251																
8	6	<0.75	2124	743	0.75	2124	743	4	9.4	12.1	13.5	4	10.2	12.9	13.9	4	11	13.7	14.3	4	11.8	14.5	14.7
8	12	<0.75	4672	1635	1.5	4205	1472																
8	18	<0.75	7221	2527	4.5	5054	1769																
10	6	<0.75	2124	743	0.75	2124	743	4	11.5	14.2	15.6	4	12.3	15	16	4	13.1	15.8	16.4	4	13.9	16.6	16.8
10	12	<0.75	4672	1635	1.5	4205	1472																
10	18	<0.75	7221	2527	4.5	5054	1769																
12	6	<0.75	3823	1338	0.75	3823	1338	4	13.5	16.2	17.6	4	14.3	17	18	4	15.1	17.8	18.4	4	15.9	18.6	18.8
12	12	<0.75	8070	2824	1.5	7263	2542																
12	18	<0.75	12317	4311	4.5	8622	3018																
14	6	<0.75	3610	1264	0.75	3610	1264	4	14.8	17.5	18.9	4	15.6	18.3	19.3	4	16.4	19.1	19.7	4	17.1	19.8	20.1
14	12	<0.75	8070	2824	1.5	7263	2542																
14	18	<0.75	12317	4311	4.5	8622	3018																
16	12	<0.75	8070	2824	1.5	7263	2542	4	16.8	19.5	20.9	4	17.6	20.3	21.3	4	18.4	21.1	21.7	4	19.1	21.8	22.1
16	18	<0.75	12317	4311	4.5	8622	3018																
18	12	<0.75	8472	2965	1.5	7625	2669	4	18.8	21.5	22.9	4	19.6	22.3	23.3	4	20.4	23.1	23.7	4	21.1	23.8	24.1
18	18	<0.75	13456	4709	4.5	9419	3297																
20	12	<0.75	8472	2965	1.5	7625	2669	4	20.8	23.5	24.9	4	21.6	24.3	25.3	4	22.4	25.1	25.7	4	23.1	25.8	26.1
20	18	<0.75	13456	4709	4.5	9419	3297																
24	12	<0.75	10169	3559	1.5	9152	3203	4	24.8	27.5	28.9	4	25.6	28.3	29.3	4	26.4	29.1	29.7	4	27.1	29.8	30.1
24	18	<0.75	16151	5653	4.5	11305	3957																
26	12	<0.75	11866	4153	1.5	10679	3738	4	26.8	29.5	30.9	4	27.6	30.3	31.3	4	28.4	31.1	31.7	6	29.1	31.8	34.1
26	18	<0.75	18846	6596	4.5	13192	4617																
28	12	<0.75	13563	4747	1.5	12206	4272	4	28.8	31.5	32.9	4	29.6	32.3	33.3	4	30.4	33.1	33.7	6	31.1	33.8	36.1
28	18	<0.75	21540	7539	4.5	15078	5277																
30	12	<0.75	15259	5341	1.5	13733	4807	4	30.8	33.5	34.9	4	31.6	34.3	35.3	4	32.4	35.1	35.7	6	33.1	35.8	38.1
30	18	<0.75	24235	8482	4.5	16965	5938																
32	12	<0.75	17952	6283	1.5	16157	5655	4	32.8	35.5	36.9	4	33.6	36.3	37.3	4	34.4	37.1	37.7	6	35.1	37.8	40.1
32	18	<0.75	25133	8797	4.5	17593	6158																
34	12	<0.75	19747	6912	1.5	17773	6220	4	34.8	37.5	38.9	4	35.6	38.3	39.3	4	36.4	39.1	39.7	6	37.1	39.8	42.1
34	18	<0.75	28387	9935	4.5	19871	6955																
36	12	<0.75	21543	7540	1.5	19388	6786	4	36.8	39.5	40.9	4	37.6	40.3	41.3	4	38.4	41.1	41.7	6	39.1	41.8	44.1
36	18	<0.75	31641	11074	4.5	22149	7752																
42	12	<0.75	22440	7854	1.5	20196	7069	4	42.8	45.5	46.9	4	43.6	46.3	47.3	4	44.4	47.1	47.7	6	45.1	47.8	50.1
42	18	<0.75	33660	11781	4.5	23562	8247																

Vertically Restrained Guided

IMPERIAL

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (lbs)	Lateral Load (lbs)
CGCW -	8 x	30 -	4 -	12 -	4335 -	1520

Cold **G**uide **C**ryo**W**rap

PIPE SIZE (in)	LENGTH (in)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	LAT. LOAD (lbs)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	LAT. LOAD (lbs)	INSULATION THICKNESS															
								50 mm				60 mm				70 mm				80 mm			
								BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1	6	<0.75	592	207	0.75	592	207	4	5.3	8	7.8	4	6	8.7	8.2	6	6.8	9.5	10.6	6	7.6	10.3	11
1	12	<0.75	1775	621	1.5	1420	497																
1	18	<0.75	2564	898	4.5	1282	449																
1.5	6	<0.75	592	207	0.75	592	207	4	5.8	8.5	8.4	4	6.6	9.3	8.8	6	7.4	10.1	11.2	6	8.2	10.9	11.5
1.5	12	<0.75	1775	621	1.5	1420	497																
1.5	18	<0.75	2564	898	4.5	1282	449																
2	6	<0.75	592	207	0.75	592	207	4	6.3	9	8.8	4	7.1	9.8	9.2	6	7.9	10.6	11.6	6	8.7	11.4	12
2	12	<0.75	1775	621	1.5	1420	497																
2	18	<0.75	2564	898	4.5	1282	449																
3	6	<0.75	1381	483	0.75	1381	483	4	7.4	10.1	10	4	8.2	10.9	10.4	6	9	11.7	12.8	6	9.8	12.5	13.1
3	12	<0.75	3748	1312	1.5	2998	1049																
3	18	<0.75	5326	1864	4.5	2663	932																
4	6	<0.75	1370	480	0.75	1370	480	4	8.4	11.1	11	4	9.2	11.9	11.4	6	10	12.7	13.8	6	10.8	13.5	14.1
4	12	<0.75	3613	1265	1.5	3071	1075																
4	18	<0.75	5108	1788	4.5	2554	894																
6	6	<0.75	1370	480	0.75	1370	480	4	10.6	13.3	13.1	4	11.3	14	13.5	6	12.1	14.8	15.9	6	12.9	15.6	16.3
6	12	<0.75	3613	1265	1.5	3252	1138																
6	18	<0.75	5108	1788	4.5	3576	1251																
8	6	<0.75	2124	743	0.75	2124	743	4	12.6	15.3	15.1	6	13.3	16	17.5	6	14.1	16.8	17.9	6	14.9	17.6	18.3
8	12	<0.75	4672	1635	1.5	4205	1472																
8	18	<0.75	7221	2527	4.5	5054	1769																
10	6	<0.75	2124	743	0.75	2124	743	4	14.7	17.4	17.2	6	15.5	18.2	19.6	6	16.3	19	20	6	17	19.7	20.4
10	12	<0.75	4672	1635	1.5	4205	1472																
10	18	<0.75	7221	2527	4.5	5054	1769																
12	6	<0.75	3823	1338	0.75	3823	1338	4	16.7	19.4	19.2	6	17.5	20.2	21.6	6	18.3	21	22	6	19	21.7	22.4
12	12	<0.75	8070	2824	1.5	7263	2542																
12	18	<0.75	12317	4311	4.5	8622	3018																
14	6	<0.75	3610	1264	0.75	3610	1264	4	17.9	20.6	20.5	6	18.7	21.4	22.9	6	19.5	22.2	23.3	6	20.3	23	23.6
14	12	<0.75	8070	2824	1.5	7263	2542																
14	18	<0.75	12317	4311	4.5	8622	3018																
16	12	<0.75	8070	2824	1.5	7263	2542	6	19.9	22.6	24.5	6	20.7	23.4	24.9	6	21.5	24.2	25.3	8	22.3	25	27.6
16	18	<0.75	12317	4311	4.5	8622	3018																
18	12	<0.75	8472	2965	1.5	7625	2669	6	21.9	24.6	26.5	6	22.7	25.4	26.9	6	23.5	26.2	27.3	8	24.3	27	29.6
18	18	<0.75	13456	4709	4.5	9419	3297																
20	12	<0.75	8472	2965	1.5	7625	2669	6	23.9	26.6	28.5	6	24.7	27.4	28.9	6	25.5	28.2	29.3	8	26.3	29	31.6
20	18	<0.75	13456	4709	4.5	9419	3297																
24	12	<0.75	10169	3559	1.5	9152	3203	6	27.9	30.6	32.5	6	28.7	31.4	32.9	6	29.5	32.2	33.3	8	30.3	33	35.6
24	18	<0.75	16151	5653	4.5	11305	3957																
26	12	<0.75	11866	4153	1.5	10679	3738	6	29.9	32.6	34.5	6	30.7	33.4	34.9	6	31.5	34.2	35.3	8	32.3	35	37.6
26	18	<0.75	18846	6596	4.5	13192	4617																
28	12	<0.75	13563	4747	1.5	12206	4272	6	31.9	34.6	36.5	6	32.7	35.4	36.9	6	33.5	36.2	37.3	8	34.3	37	39.6
28	18	<0.75	21540	7539	4.5	15078	5277																
30	12	<0.75	15259	5341	1.5	13733	4807	6	33.9	36.6	38.5	6	34.7	37.4	38.9	6	35.5	38.2	39.3	8	36.3	39	41.6
30	18	<0.75	24235	8482	4.5	16965	5938																
32	12	<0.75	17952	6283	1.5	16157	5655	7	35.9	38.6	41.5	6	36.7	39.4	40.9	6	37.5	40.2	41.3	8	38.3	41	43.6
32	18	<0.75	25133	8797	4.5	17593	6158																
34	12	<0.75	19747	6912	1.5	17773	6220	8	37.9	40.6	44.5	6	38.7	41.4	42.9	6	39.5	42.2	43.3	8	40.3	43	45.6
34	18	<0.75	28387	9935	4.5	19871	6955																
36	12	<0.75	21543	7540	1.5	19388	6786	6	39.9	42.6	44.5	6	40.7	43.4	44.9	6	41.5	44.2	45.3	8	42.3	45	47.6
36	18	<0.75	31641	11074	4.5	22149	7752																
42	12	<0.75	22440	7854	1.5	20196	7069	6	45.9	48.6	50.5	6	46.7	49.4	50.9	6	47.5	50.2	51.3	8	48.3	51	53.6
42	18	<0.75	33660	11781	4.5	23562	8247																

Vertically Restrained Guided

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (lbs)	Lateral Load (lbs)
CGCW -	8 x	30 -	4 -	12 -	4335 -	1520

Cold **G**uide **C**ryo**W**rap

IMPERIAL

Notes:
1) Dimensions in inches unless noted
2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE (in)	LENGTH (in)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	LAT. LOAD (lbs)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	LAT. LOAD (lbs)	INSULATION THICKNESS															
								90 mm				100 mm				110 mm				120 mm			
								BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1	6	<0.75	592	207	0.75	592	207																
1	12	<0.75	1775	621	1.5	1420	497	6	8.4	11.1	11.4	6	9.2	11.9	11.8	8	10	12.7	14.1	8	10.8	13.5	14.5
1	18	<0.75	2564	898	4.5	1282	449																
1.5	6	<0.75	592	207	0.75	592	207																
1.5	12	<0.75	1775	621	1.5	1420	497	6	9	11.7	11.9	6	9.8	12.5	12.3	8	10.6	13.3	14.7	8	11.3	14	15.1
1.5	18	<0.75	2564	898	4.5	1282	449																
2	6	<0.75	592	207	0.75	592	207																
2	12	<0.75	1775	621	1.5	1420	497	6	9.5	12.2	12.4	6	10.2	12.9	12.8	8	11	13.7	15.2	8	11.8	14.5	15.6
2	18	<0.75	2564	898	4.5	1282	449																
3	6	<0.75	1381	483	0.75	1381	483																
3	12	<0.75	3748	1312	1.5	2998	1049	6	10.6	13.3	13.5	6	11.4	14.1	13.9	8	12.2	14.9	16.3	8	12.9	15.6	16.7
3	18	<0.75	5326	1864	4.5	2663	932																
4	6	<0.75	1370	480	0.75	1370	480																
4	12	<0.75	3613	1265	1.5	3071	1075	6	11.6	14.3	14.5	6	12.4	15.1	14.9	8	13.2	15.9	17.3	8	13.9	16.6	17.7
4	18	<0.75	5108	1788	4.5	2554	894																
6	6	<0.75	1370	480	0.75	1370	480																
6	12	<0.75	3613	1265	1.5	3252	1138	6	13.7	16.4	16.7	6	14.5	17.2	17.1	8	15.3	18	19.5	8	16.1	18.8	19.8
6	18	<0.75	5108	1788	4.5	3576	1251																
8	6	<0.75	2124	743	0.75	2124	743																
8	12	<0.75	4672	1635	1.5	4205	1472	6	15.7	18.4	18.7	6	16.5	19.2	19.1	8	17.3	20	21.5	8	18.1	20.8	21.8
8	18	<0.75	7221	2527	4.5	5054	1769																
10	6	<0.75	2124	743	0.75	2124	743																
10	12	<0.75	4672	1635	1.5	4205	1472	6	17.8	20.5	20.8	6	18.6	21.3	21.2	8	19.4	22.1	23.6	8	20.2	22.9	24
10	18	<0.75	7221	2527	4.5	5054	1769																
12	6	<0.75	3823	1338	0.75	3823	1338																
12	12	<0.75	8070	2824	1.5	7263	2542	6	19.8	22.5	22.8	6	20.6	23.3	23.2	8	21.4	24.1	25.6	8	22.2	24.9	26
12	18	<0.75	12317	4311	4.5	8622	3018																
14	6	<0.75	3610	1264	0.75	3610	1264																
14	12	<0.75	8070	2824	1.5	7263	2542	6	21.1	23.8	24	6	21.9	24.6	24.4	8	22.7	25.4	26.8	8	23.4	26.1	27.2
14	18	<0.75	12317	4311	4.5	8622	3018																
16	12	<0.75	8070	2824	1.5	7263	2542	8	23.1	25.8	28	8	23.9	26.6	28.4	8	24.7	27.4	28.8	8	25.4	28.1	29.2
16	18	<0.75	12317	4311	4.5	8622	3018																
18	12	<0.75	8472	2965	1.5	7625	2669	8	25.1	27.8	30	8	25.9	28.6	30.4	8	26.7	29.4	30.8	8	27.4	30.1	31.2
18	18	<0.75	13456	4709	4.5	9419	3297																
20	12	<0.75	8472	2965	1.5	7625	2669	8	27.1	29.8	32	8	27.9	30.6	32.4	8	28.7	31.4	32.8	8	29.4	32.1	33.2
20	18	<0.75	13456	4709	4.5	9419	3297																
24	12	<0.75	10169	3559	1.5	9152	3203	8	31.1	33.8	36	8	31.9	34.6	36.4	8	32.7	35.4	36.8	8	33.4	36.1	37.2
24	18	<0.75	16151	5653	4.5	11305	3957																
26	12	<0.75	11866	4153	1.5	10679	3738	8	33.1	35.8	38	8	33.9	36.6	38.4	8	34.7	37.4	38.8	8	35.4	38.1	39.2
26	18	<0.75	18846	6596	4.5	13192	4617																
28	12	<0.75	13563	4747	1.5	12206	4272	8	35.1	37.8	40	8	35.9	38.6	40.4	8	36.7	39.4	40.8	8	37.4	40.1	41.2
28	18	<0.75	21540	7539	4.5	15078	5277																
30	12	<0.75	15259	5341	1.5	13733	4807	8	37.1	39.8	42	8	37.9	40.6	42.4	8	38.7	41.4	42.8	8	39.4	42.1	43.2
30	18	<0.75	24235	8482	4.5	16965	5938																
32	12	<0.75	17952	6283	1.5	16157	5655	8	39.1	41.8	44	8	39.9	42.6	44.4	8	40.7	43.4	44.8	8	41.4	44.1	45.2
32	18	<0.75	25133	8797	4.5	17593	6158																
34	12	<0.75	19747	6912	1.5	17773	6220	8	41.1	43.8	46	8	41.9	44.6	46.4	8	42.7	45.4	46.8	8	43.4	46.1	47.2
34	18	<0.75	28387	9935	4.5	19871	6955																
36	12	<0.75	21543	7540	1.5	19388	6786	8	43.1	45.8	48	8	43.9	46.6	48.4	8	44.7	47.4	48.8	8	45.4	48.1	49.2
36	18	<0.75	31641	11074	4.5	22149	7752																
42	12	<0.75	22440	7854	1.5	20196	7069	8	49.1	51.8	54	8	49.9	52.6	54.4	8	50.7	53.4	54.8	8	51.4	54.1	55.2
42	18	<0.75	33660	11781	4.5	23562	8247																

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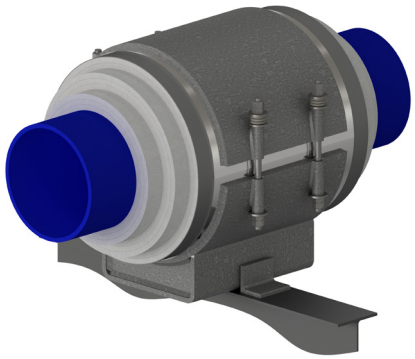
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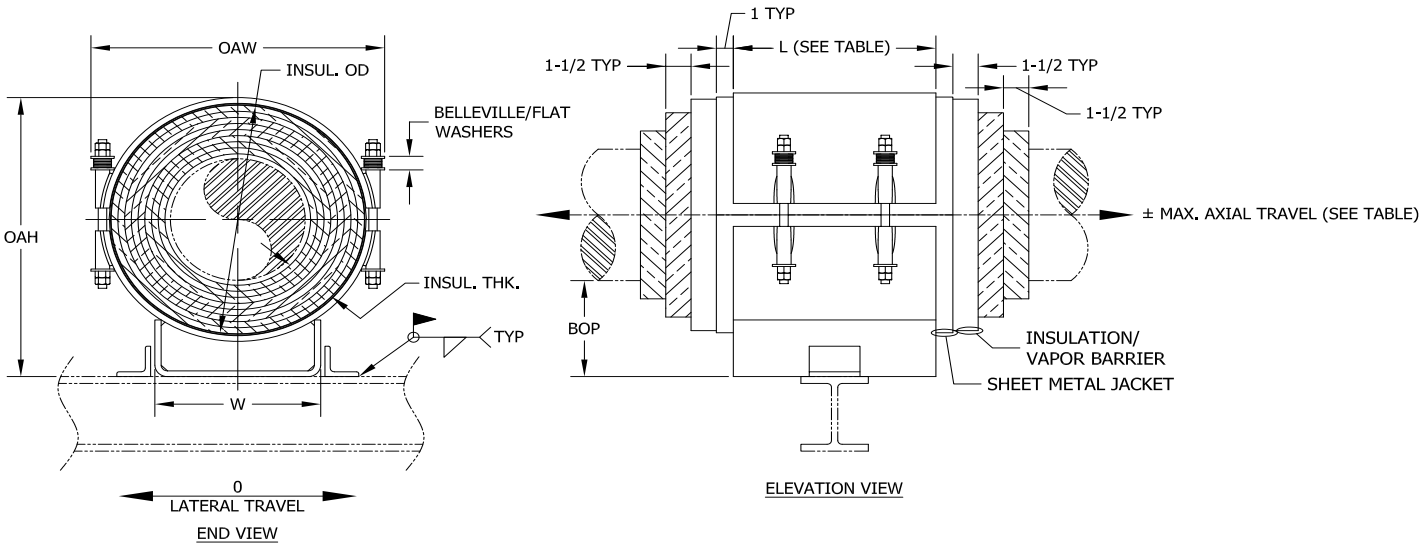
Patent No. US10,252,490 and US11,014,333
(See page 113 for international patents)

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (lbs)	Lateral Load (lbs)
CG(L)CW -	8 x	30 -	4 -	12 -	4335 -	2170

Cold **G**uide (**L**aterally Restrained) **C**ryo**W**rap





NOTES:
1) Slide plates required for 26" NPS & up.

*W - Dimension is calculated by multiplying (INSULATION OD*0.65).

Applications & Features:

- Temperature range to -460 Deg F to 195 Deg F
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel on sizes 26" and larger
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RCS-750
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral Load (As Shown in Tables or Custom)
- Lateral (±⅛ in) & Axial (See Table) Travel

** Information presented on this page subject to change without notice.

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DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (lbs)	Lateral Load (lbs)
CG(L)CW -	8	x 30 -	4 -	12 -	4335 -	2170

Cold **G**uide (**L**aterally Restrained) **C**ryo**W**rap

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Notes:
1) Dimensions in inches unless noted
2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE (in)	LENGTH (in)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	LAT. LOAD (lbs)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	LAT. LOAD (lbs)	INSULATION THICKNESS															
								10 mm				20 mm				30 mm				40 mm			
								BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1	6	<0.75	592	207	0.75	592	207	4	2.1	4.8	6.2	4	2.9	5.6	6.6	4	3.7	6.4	7	4	4.5	7.2	7.4
1	12	<0.75	1775	621	1.5	1420	497																
1	18	<0.75	2564	898	4.5	1282	449																
1.5	6	<0.75	592	207	0.75	592	207	4	2.7	5.4	6.8	4	3.5	6.2	7.2	4	4.3	7	7.6	4	5	7.7	8
1.5	12	<0.75	1775	621	1.5	1420	497																
1.5	18	<0.75	2564	898	4.5	1282	449																
2	6	<0.75	592	207	0.75	592	207	4	3.2	5.9	7.3	4	3.9	6.6	7.7	4	4.7	7.4	8.1	4	5.5	8.2	8.4
2	12	<0.75	1775	621	1.5	1420	497																
2	18	<0.75	2564	898	4.5	1282	449																
3	6	<0.75	1381	483	0.75	1381	483	4	4.3	7	8.4	4	5.1	7.8	8.8	4	5.9	8.6	9.2	4	6.6	9.3	9.6
3	12	<0.75	3748	1312	1.5	2998	1049																
3	18	<0.75	5326	1864	4.5	2663	932																
4	6	<0.75	1370	480	0.75	1370	480	4	5.3	8	9.4	4	6.1	8.8	9.8	4	6.9	9.6	10.2	4	7.6	10.3	10.6
4	12	<0.75	3613	1265	1.5	3071	1075																
4	18	<0.75	5108	1788	4.5	2554	894																
6	6	<0.75	1370	480	0.75	1370	480	4	7.4	10.1	11.5	4	8.2	10.9	11.9	4	9	11.7	12.3	4	9.8	12.5	12.7
6	12	<0.75	3613	1265	1.5	3252	1138																
6	18	<0.75	5108	1788	4.5	3576	1251																
8	6	<0.75	2124	743	0.75	2124	743	4	9.4	12.1	13.5	4	10.2	12.9	13.9	4	11	13.7	14.3	4	11.8	14.5	14.7
8	12	<0.75	4672	1635	1.5	4205	1472																
8	18	<0.75	7221	2527	4.5	5054	1769																
10	6	<0.75	2124	743	0.75	2124	743	4	11.5	14.2	15.6	4	12.3	15	16	4	13.1	15.8	16.4	4	13.9	16.6	16.8
10	12	<0.75	4672	1635	1.5	4205	1472																
10	18	<0.75	7221	2527	4.5	5054	1769																
12	6	<0.75	3823	1338	0.75	3823	1338	4	13.5	16.2	17.6	4	14.3	17	18	4	15.1	17.8	18.4	4	15.9	18.6	18.8
12	12	<0.75	8070	2824	1.5	7263	2542																
12	18	<0.75	12317	4311	4.5	8622	3018																
14	6	<0.75	3610	1264	0.75	3610	1264	4	14.8	17.5	18.9	4	15.6	18.3	19.3	4	16.4	19.1	19.7	4	17.1	19.8	20.1
14	12	<0.75	8070	2824	1.5	7263	2542																
14	18	<0.75	12317	4311	4.5	8622	3018																
16	12	<0.75	8070	2824	1.5	7263	2542	4	16.8	19.5	20.9	4	17.6	20.3	21.3	4	18.4	21.1	21.7	4	19.1	21.8	22.1
16	18	<0.75	12317	4311	4.5	8622	3018																
18	12	<0.75	8472	2965	1.5	7625	2669	4	18.8	21.5	22.9	4	19.6	22.3	23.3	4	20.4	23.1	23.7	4	21.1	23.8	24.1
18	18	<0.75	13456	4709	4.5	9419	3297																
20	12	<0.75	8472	2965	1.5	7625	2669	4	20.8	23.5	24.9	4	21.6	24.3	25.3	4	22.4	25.1	25.7	4	23.1	25.8	26.1
20	18	<0.75	13456	4709	4.5	9419	3297																
24	12	<0.75	10169	3559	1.5	9152	3203	4	24.8	27.5	28.9	4	25.6	28.3	29.3	4	26.4	29.1	29.7	4	27.1	29.8	30.1
24	18	<0.75	16151	5653	4.5	11305	3957																
26	12	<0.75	11866	4153	1.5	10679	3738	4	26.8	29.5	30.9	4	27.6	30.3	31.3	4	28.4	31.1	31.7	6	29.1	31.8	34.1
26	18	<0.75	18846	6596	4.5	13192	4617																
28	12	<0.75	13563	4747	1.5	12206	4272	4	28.8	31.5	32.9	4	29.6	32.3	33.3	4	30.4	33.1	33.7	6	31.1	33.8	36.1
28	18	<0.75	21540	7539	4.5	15078	5277																
30	12	<0.75	15259	5341	1.5	13733	4807	4	30.8	33.5	34.9	4	31.6	34.3	35.3	4	32.4	35.1	35.7	6	33.1	35.8	38.1
30	18	<0.75	24235	8482	4.5	16965	5938																
32	12	<0.75	17952	6283	1.5	16157	5655	4	32.8	35.5	36.9	4	33.6	36.3	37.3	4	34.4	37.1	37.7	6	35.1	37.8	40.1
32	18	<0.75	25133	8797	4.5	17593	6158																
34	12	<0.75	19747	6912	1.5	17773	6220	4	34.8	37.5	38.9	4	35.6	38.3	39.3	4	36.4	39.1	39.7	6	37.1	39.8	42.1
34	18	<0.75	28387	9935	4.5	19871	6955																
36	12	<0.75	21543	7540	1.5	19388	6786	4	36.8	39.5	40.9	4	37.6	40.3	41.3	4	38.4	41.1	41.7	6	39.1	41.8	44.1
36	18	<0.75	31641	11074	4.5	22149	7752																
42	12	<0.75	22440	7854	1.5	20196	7069	4	42.8	45.5	46.9	4	43.6	46.3	47.3	4	44.4	47.1	47.7	6	45.1	47.8	50.1
42	18	<0.75	33660	11781	4.5	23562	8247																

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DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (lbs)	Lateral Load (lbs)
CG(L)CW -	8 x	30 -	4 -	12 -	4335 -	2170

Cold **G**uide (**L**aterally Restrained) **C**ryo**W**rap

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PIPE SIZE (in)	LENGTH (in)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	LAT. LOAD (lbs)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	LAT. LOAD (lbs)	INSULATION THICKNESS															
								50 mm				60 mm				70 mm				80 mm			
								BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1	6	<0.75	592	207	0.75	592	207	4	5.3	8	7.8	4	6	8.7	8.2	6	6.8	9.5	10.6	6	7.6	10.3	11
1	12	<0.75	1775	621	1.5	1420	497																
1	18	<0.75	2564	898	4.5	1282	449																
1.5	6	<0.75	592	207	0.75	592	207	4	5.8	8.5	8.4	4	6.6	9.3	8.8	6	7.4	10.1	11.2	6	8.2	10.9	11.5
1.5	12	<0.75	1775	621	1.5	1420	497																
1.5	18	<0.75	2564	898	4.5	1282	449																
2	6	<0.75	592	207	0.75	592	207	4	6.3	9	8.8	4	7.1	9.8	9.2	6	7.9	10.6	11.6	6	8.7	11.4	12
2	12	<0.75	1775	621	1.5	1420	497																
2	18	<0.75	2564	898	4.5	1282	449																
3	6	<0.75	1381	483	0.75	1381	483	4	7.4	10.1	10	4	8.2	10.9	10.4	6	9	11.7	12.8	6	9.8	12.5	13.1
3	12	<0.75	3748	1312	1.5	2998	1049																
3	18	<0.75	5326	1864	4.5	2663	932																
4	6	<0.75	1370	480	0.75	1370	480	4	8.4	11.1	11	4	9.2	11.9	11.4	6	10	12.7	13.8	6	10.8	13.5	14.1
4	12	<0.75	3613	1265	1.5	3071	1075																
4	18	<0.75	5108	1788	4.5	2554	894																
6	6	<0.75	1370	480	0.75	1370	480	4	10.6	13.3	13.1	4	11.3	14	13.5	6	12.1	14.8	15.9	6	12.9	15.6	16.3
6	12	<0.75	3613	1265	1.5	3252	1138																
6	18	<0.75	5108	1788	4.5	3576	1251																
8	6	<0.75	2124	743	0.75	2124	743	4	12.6	15.3	15.1	6	13.3	16	17.5	6	14.1	16.8	17.9	6	14.9	17.6	18.3
8	12	<0.75	4672	1635	1.5	4205	1472																
8	18	<0.75	7221	2527	4.5	5054	1769																
10	6	<0.75	2124	743	0.75	2124	743	4	14.7	17.4	17.2	6	15.5	18.2	19.6	6	16.3	19	20	6	17	19.7	20.4
10	12	<0.75	4672	1635	1.5	4205	1472																
10	18	<0.75	7221	2527	4.5	5054	1769																
12	6	<0.75	3823	1338	0.75	3823	1338	4	16.7	19.4	19.2	6	17.5	20.2	21.6	6	18.3	21	22	6	19	21.7	22.4
12	12	<0.75	8070	2824	1.5	7263	2542																
12	18	<0.75	12317	4311	4.5	8622	3018																
14	6	<0.75	3610	1264	0.75	3610	1264	4	17.9	20.6	20.5	6	18.7	21.4	22.9	6	19.5	22.2	23.3	6	20.3	23	23.6
14	12	<0.75	8070	2824	1.5	7263	2542																
14	18	<0.75	12317	4311	4.5	8622	3018																
16	12	<0.75	8070	2824	1.5	7263	2542	6	19.9	22.6	24.5	6	20.7	23.4	24.9	6	21.5	24.2	25.3	8	22.3	25	27.6
16	18	<0.75	12317	4311	4.5	8622	3018																
18	12	<0.75	8472	2965	1.5	7625	2669	6	21.9	24.6	26.5	6	22.7	25.4	26.9	6	23.5	26.2	27.3	8	24.3	27	29.6
18	18	<0.75	13456	4709	4.5	9419	3297																
20	12	<0.75	8472	2965	1.5	7625	2669	6	23.9	26.6	28.5	6	24.7	27.4	28.9	6	25.5	28.2	29.3	8	26.3	29	31.6
20	18	<0.75	13456	4709	4.5	9419	3297																
24	12	<0.75	10169	3559	1.5	9152	3203	6	27.9	30.6	32.5	6	28.7	31.4	32.9	6	29.5	32.2	33.3	8	30.3	33	35.6
24	18	<0.75	16151	5653	4.5	11305	3957																
26	12	<0.75	11866	4153	1.5	10679	3738	6	29.9	32.6	34.5	6	30.7	33.4	34.9	6	31.5	34.2	35.3	8	32.3	35	37.6
26	18	<0.75	18846	6596	4.5	13192	4617																
28	12	<0.75	13563	4747	1.5	12206	4272	6	31.9	34.6	36.5	6	32.7	35.4	36.9	6	33.5	36.2	37.3	8	34.3	37	39.6
28	18	<0.75	21540	7539	4.5	15078	5277																
30	12	<0.75	15259	5341	1.5	13733	4807	6	33.9	36.6	38.5	6	34.7	37.4	38.9	6	35.5	38.2	39.3	8	36.3	39	41.6
30	18	<0.75	24235	8482	4.5	16965	5938																
32	12	<0.75	17952	6283	1.5	16157	5655	7	35.9	38.6	41.5	6	36.7	39.4	40.9	6	37.5	40.2	41.3	8	38.3	41	43.6
32	18	<0.75	25133	8797	4.5	17593	6158																
34	12	<0.75	19747	6912	1.5	17773	6220	8	37.9	40.6	44.5	6	38.7	41.4	42.9	6	39.5	42.2	43.3	8	40.3	43	45.6
34	18	<0.75	28387	9935	4.5	19871	6955																
36	12	<0.75	21543	7540	1.5	19388	6786	6	39.9	42.6	44.5	6	40.7	43.4	44.9	6	41.5	44.2	45.3	8	42.3	45	47.6
36	18	<0.75	31641	11074	4.5	22149	7752																
42	12	<0.75	22440	7854	1.5	20196	7069	6	45.9	48.6	50.5	6	46.7	49.4	50.9	6	47.5	50.2	51.3	8	48.3	51	53.6
42	18	<0.75	33660	11781	4.5	23562	8247																

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DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (lbs)	Lateral Load (lbs)
CG(L)CW -	8 x	30 -	4 -	12 -	4335 -	2170

Cold **G**uide (**L**aterally Restrained) **C**ryo**W**rap

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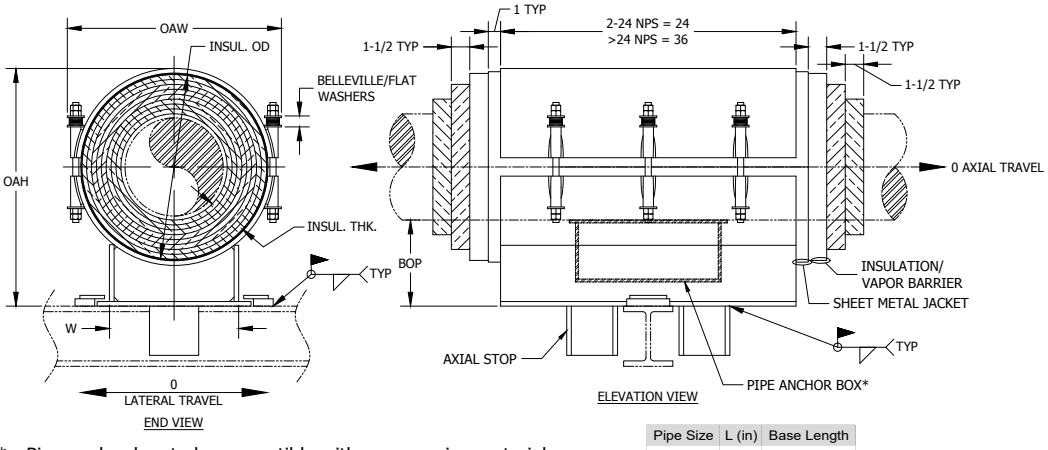
PIPE SIZE (in)	LENGTH (in)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	LAT. LOAD (lbs)	AXIAL TRAVEL (MAX.)	VERT. LOAD (lbs)	LAT. LOAD (lbs)	INSULATION THICKNESS															
								90 mm				100 mm				110 mm				120 mm			
								BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1	6	<0.75	592	207	0.75	592	207	6	8.4	11.1	11.4	6	9.2	11.9	11.8	8	10	12.7	14.1	8	10.8	13.5	14.5
1	12	<0.75	1775	621	1.5	1420	497																
1	18	<0.75	2564	898	4.5	1282	449																
1.5	6	<0.75	592	207	0.75	592	207	6	9	11.7	11.9	6	9.8	12.5	12.3	8	10.6	13.3	14.7	8	11.3	14	15.1
1.5	12	<0.75	1775	621	1.5	1420	497																
1.5	18	<0.75	2564	898	4.5	1282	449																
2	6	<0.75	592	207	0.75	592	207	6	9.5	12.2	12.4	6	10.2	12.9	12.8	8	11	13.7	15.2	8	11.8	14.5	15.6
2	12	<0.75	1775	621	1.5	1420	497																
2	18	<0.75	2564	898	4.5	1282	449																
3	6	<0.75	1381	483	0.75	1381	483	6	10.6	13.3	13.5	6	11.4	14.1	13.9	8	12.2	14.9	16.3	8	12.9	15.6	16.7
3	12	<0.75	3748	1312	1.5	2998	1049																
3	18	<0.75	5326	1864	4.5	2663	932																
4	6	<0.75	1370	480	0.75	1370	480	6	11.6	14.3	14.5	6	12.4	15.1	14.9	8	13.2	15.9	17.3	8	13.9	16.6	17.7
4	12	<0.75	3613	1265	1.5	3071	1075																
4	18	<0.75	5108	1788	4.5	2554	894																
6	6	<0.75	1370	480	0.75	1370	480	6	13.7	16.4	16.7	6	14.5	17.2	17.1	8	15.3	18	19.5	8	16.1	18.8	19.8
6	12	<0.75	3613	1265	1.5	3252	1138																
6	18	<0.75	5108	1788	4.5	3576	1251																
8	6	<0.75	2124	743	0.75	2124	743	6	15.7	18.4	18.7	6	16.5	19.2	19.1	8	17.3	20	21.5	8	18.1	20.8	21.8
8	12	<0.75	4672	1635	1.5	4205	1472																
8	18	<0.75	7221	2527	4.5	5054	1769																
10	6	<0.75	2124	743	0.75	2124	743	6	17.8	20.5	20.8	6	18.6	21.3	21.2	8	19.4	22.1	23.6	8	20.2	22.9	24
10	12	<0.75	4672	1635	1.5	4205	1472																
10	18	<0.75	7221	2527	4.5	5054	1769																
12	6	<0.75	3823	1338	0.75	3823	1338	6	19.8	22.5	22.8	6	20.6	23.3	23.2	8	21.4	24.1	25.6	8	22.2	24.9	26
12	12	<0.75	8070	2824	1.5	7263	2542																
12	18	<0.75	12317	4311	4.5	8622	3018																
14	6	<0.75	3610	1264	0.75	3610	1264	6	21.1	23.8	24	6	21.9	24.6	24.4	8	22.7	25.4	26.8	8	23.4	26.1	27.2
14	12	<0.75	8070	2824	1.5	7263	2542																
14	18	<0.75	12317	4311	4.5	8622	3018																
16	12	<0.75	8070	2824	1.5	7263	2542	8	23.1	25.8	28	8	23.9	26.6	28.4	8	24.7	27.4	28.8	8	25.4	28.1	29.2
16	18	<0.75	12317	4311	4.5	8622	3018																
18	12	<0.75	8472	2965	1.5	7625	2669	8	25.1	27.8	30	8	25.9	28.6	30.4	8	26.7	29.4	30.8	8	27.4	30.1	31.2
18	18	<0.75	13456	4709	4.5	9419	3297																
20	12	<0.75	8472	2965	1.5	7625	2669	8	27.1	29.8	32	8	27.9	30.6	32.4	8	28.7	31.4	32.8	8	29.4	32.1	33.2
20	18	<0.75	13456	4709	4.5	9419	3297																
24	12	<0.75	10169	3559	1.5	9152	3203	8	31.1	33.8	36	8	31.9	34.6	36.4	8	32.7	35.4	36.8	8	33.4	36.1	37.2
24	18	<0.75	16151	5653	4.5	11305	3957																
26	12	<0.75	11866	4153	1.5	10679	3738	8	33.1	35.8	38	8	33.9	36.6	38.4	8	34.7	37.4	38.8	8	35.4	38.1	39.2
26	18	<0.75	18846	6596	4.5	13192	4617																
28	12	<0.75	13563	4747	1.5	12206	4272	8	35.1	37.8	40	8	35.9	38.6	40.4	8	36.7	39.4	40.8	8	37.4	40.1	41.2
28	18	<0.75	21540	7539	4.5	15078	5277																
30	12	<0.75	15259	5341	1.5	13733	4807	8	37.1	39.8	42	8	37.9	40.6	42.4	8	38.7	41.4	42.8	8	39.4	42.1	43.2
30	18	<0.75	24235	8482	4.5	16965	5938																
32	12	<0.75	17952	6283	1.5	16157	5655	8	39.1	41.8	44	8	39.9	42.6	44.4	8	40.7	43.4	44.8	8	41.4	44.1	45.2
32	18	<0.75	25133	8797	4.5	17593	6158																
34	12	<0.75	19747	6912	1.5	17773	6220	8	41.1	43.8	46	8	41.9	44.6	46.4	8	42.7	45.4	46.8	8	43.4	46.1	47.2
34	18	<0.75	28387	9935	4.5	19871	6955																
36	12	<0.75	21543	7540	1.5	19388	6786	8	43.1	45.8	48	8	43.9	46.6	48.4	8	44.7	47.4	48.8	8	45.4	48.1	49.2
36	18	<0.75	31641	11074	4.5	22149	7752																
42	12	<0.75	22440	7854	1.5	20196	7069	8	49.1	51.8	54	8	49.9	52.6	54.4	8	50.7	53.4	54.8	8	51.4	54.1	55.2
42	18	<0.75	33660	11781	4.5	23562	8247																

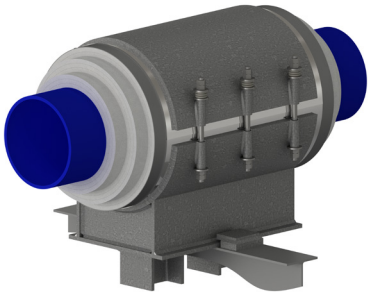
Anchor

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (in)	BOP (in)	Support Length (in)	Vertical Load (in)	Lateral Load (in)	Axial Load (in)
CACW -	8 x	30 -	4 -	24 -	4335 -	1520 -	1860

Cold **A**nchor **C**ryo**W**rap





The lengths shown are minimum lengths based on support fabrication requirements. Customer to confirm required base lengths based on field supporting structure dimensions. Alternating stop guide signs available for dimensional conflicts.

Pipe Size	L (in)	Base Length
< 14"	12	18
≥ 14"	18	18

* - Pipe anchor box to be compatible with process pipe material.

*W - Dimension is calculated by multiplying (INSULATION OD*0.65).

Applications & Features:

- Temperature range to -460 Deg F to 195 Deg F
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel on sizes 26" and larger
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- Patented anchor system allows increased load carrying capability and decreased heat transfer
- See technical specification RCS-750
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral Load (As Shown in Tables or Custom)
- Axial Load (As Shown in Tables or Custom)

** Information presented on this page subject to change without notice.

Notes:
1) Dimensions in inches unless noted

2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE	VERT. LOAD (lbs)	LAT. LOAD (lbs)	AXI. LOAD (lbs)	INSULATION THICKNESS															
				10mm				20mm				30mm				40mm			
				BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	510	180	550	4	2.1	4.8	6.2	4	2.9	5.6	6.6	4	3.7	6.4	7	4	4.5	7.2	7.4
1-1/2"	740	260	550	4	2.7	5.4	6.8	4	3.5	6.2	7.2	4	4.3	7	7.6	4	5	7.7	8
2"	930	330	550	4	3.2	5.9	7.3	4	3.9	6.6	7.7	4	4.7	7.4	8.1	4	5.5	8.2	8.4
3"	1360	480	650	4	4.3	7	8.4	4	5.1	7.8	8.8	4	5.9	8.6	9.2	4	6.6	9.3	9.6
4"	2125	745	760	4	5.3	8	9.4	4	6.1	8.8	9.8	4	6.9	9.6	10.2	4	7.6	10.3	10.6
6"	3230	1135	1510	4	7.4	10.1	11.5	4	8.2	10.9	11.9	4	9	11.7	12.3	4	9.8	12.5	12.7
8"	4335	1520	1860	4	9.4	12.1	13.5	4	10.2	12.9	13.9	4	11	13.7	14.3	4	11.8	14.5	14.7
10"	5100	1785	2370	4	11.5	14.2	15.6	4	12.3	15	16	4	13.1	15.8	16.4	4	13.9	16.6	16.8
12"	5610	1965	4570	4	13.5	16.2	17.6	4	14.3	17	18	4	15.1	17.8	18.4	4	15.9	18.6	18.8
14"	6375	2235	4750	4	14.8	17.5	18.9	4	15.6	18.3	19.3	4	16.4	19.1	19.7	4	17.1	19.8	20.1
16"	7395	2590	4910	4	16.8	19.5	20.9	4	17.6	20.3	21.3	4	18.4	21.1	21.7	4	19.1	21.8	22.1
18"	8160	2860	5460	4	18.8	21.5	22.9	4	19.6	22.3	23.3	4	20.4	23.1	23.7	4	21.1	23.8	24.1
20"	8670	3035	6010	4	20.8	23.5	24.9	4	21.6	24.3	25.3	4	22.4	25.1	25.7	4	23.1	25.8	26.1
24"	9180	3215	12910	4	24.8	27.5	28.9	4	25.6	28.3	29.3	4	26.4	29.1	29.7	4	27.1	29.8	30.1
30"	11985	4195	15890	4	30.8	33.5	34.9	4	31.6	34.3	35.3	4	32.4	35.1	35.7	6	33.1	35.8	38.1
36"	17360	6080	18870	4	36.8	39.5	40.9	4	37.6	40.3	41.3	4	38.4	41.1	41.7	6	39.1	41.8	44.1
42"	26350	9225	21840	4	42.8	45.5	46.9	4	43.6	46.3	47.3	4	44.4	47.1	47.7	6	45.1	47.8	50.1

Patent No. US9,068,685, US 10,288,209 and US10,962,164 (See page 113 for international patents)

Anchor

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (in)	BOP (in)	Support Length (in)	Vertical Load (in)	Lateral Load (in)	Axial Load (in)
CACW -	8 x	30 -	4 -	24 -	4335 -	1520 -	1860

Cold **A**nchor **C**ryo**W**rap

IMPERIAL

PIPE SIZE	VERT. LOAD (lbs)	LAT. LOAD (lbs)	AXI. LOAD (lbs)	INSULATION THICKNESS															
				50mm				60mm				70mm				80mm			
				BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	510	180	550	4	5.3	8	7.8	4	6	8.7	8.2	6	6.8	9.5	10.6	6	7.6	10.3	11
1-1/2"	740	260	550	4	5.8	8.5	8.4	4	6.6	9.3	8.8	6	7.4	10.1	11.2	6	8.2	10.9	11.5
2"	930	330	550	4	6.3	9	8.8	4	7.1	9.8	9.2	6	7.9	10.6	11.6	6	8.7	11.4	12
3"	1360	480	650	4	7.4	10.1	10	4	8.2	10.9	10.4	6	9	11.7	12.8	6	9.8	12.5	13.1
4"	2125	745	760	4	8.4	11.1	11	4	9.2	11.9	11.4	6	10	12.7	13.8	6	10.8	13.5	14.1
6"	3230	1135	1510	4	10.6	13.3	13.1	4	11.3	14	13.5	6	12.1	14.8	15.9	6	12.9	15.6	16.3
8"	4335	1520	1860	4	12.6	15.3	15.1	6	13.3	16	17.5	6	14.1	16.8	17.9	6	14.9	17.6	18.3
10"	5100	1785	2370	4	14.7	17.4	17.2	6	15.5	18.2	19.6	6	16.3	19	20	6	17	19.7	20.4
12"	5610	1965	4570	4	16.7	19.4	19.2	6	17.5	20.2	21.6	6	18.3	21	22	6	19	21.7	22.4
14"	6375	2235	4750	4	17.9	20.6	20.5	6	18.7	21.4	22.9	6	19.5	22.2	23.3	6	20.3	23	23.6
16"	7395	2590	4910	6	19.9	22.6	24.5	6	20.7	23.4	24.9	6	21.5	24.2	25.3	8	22.3	25	27.6
18"	8160	2860	5460	6	21.9	24.6	26.5	6	22.7	25.4	26.9	6	23.5	26.2	27.3	8	24.3	27	29.6
20"	8670	3035	6010	6	23.9	26.6	28.5	6	24.7	27.4	28.9	6	25.5	28.2	29.3	8	26.3	29	31.6
24"	9180	3215	12910	6	27.9	30.6	32.5	6	28.7	31.4	32.9	6	29.5	32.2	33.3	8	30.3	33	35.6
30"	11985	4195	15890	6	33.9	36.6	38.5	6	34.7	37.4	38.9	6	35.5	38.2	39.3	8	36.3	39	41.6
36"	17360	6080	18870	6	39.9	42.6	44.5	6	40.7	43.4	44.9	6	41.5	44.2	45.3	8	42.3	45	47.6
42"	26350	9225	21840	6	45.9	48.6	50.5	6	46.7	49.4	50.9	6	47.5	50.2	51.3	8	48.3	51	53.6

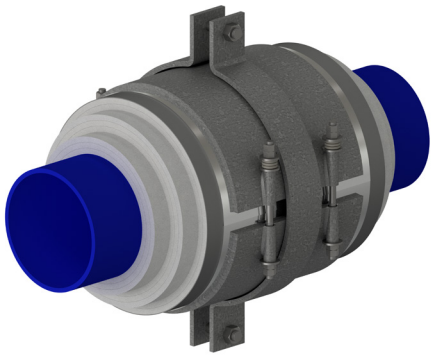
PIPE SIZE	VERT. LOAD (lbs)	LAT. LOAD (lbs)	AXI. LOAD (lbs)	INSULATION THICKNESS															
				90mm				100mm				110mm				120mm			
				BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	510	180	550	6	8.4	11.1	11.4	6	9.2	11.9	11.8	8	10	12.7	14.1	8	10.8	13.5	14.5
1-1/2"	740	260	550	6	9	11.7	11.9	6	9.8	12.5	12.3	8	10.6	13.3	14.7	8	11.3	14	15.1
2"	930	330	550	6	9.5	12.2	12.4	6	10.2	12.9	12.8	8	11	13.7	15.2	8	11.8	14.5	15.6
3"	1360	480	650	6	10.6	13.3	13.5	6	11.4	14.1	13.9	8	12.2	14.9	16.3	8	12.9	15.6	16.7
4"	2125	745	760	6	11.6	14.3	14.5	6	12.4	15.1	14.9	8	13.2	15.9	17.3	8	13.9	16.6	17.7
6"	3230	1135	1510	6	13.7	16.4	16.7	6	14.5	17.2	17.1	8	15.3	18	19.5	8	16.1	18.8	19.8
8"	4335	1520	1860	6	15.7	18.4	18.7	6	16.5	19.2	19.1	8	17.3	20	21.5	8	18.1	20.8	21.8
10"	5100	1785	2370	6	17.8	20.5	20.8	6	18.6	21.3	21.2	8	19.4	22.1	23.6	8	20.2	22.9	24
12"	5610	1965	4570	6	19.8	22.5	22.8	6	20.6	23.3	23.2	8	21.4	24.1	25.6	8	22.2	24.9	26
14"	6375	2235	4750	6	21.1	23.8	24	6	21.9	24.6	24.4	8	22.7	25.4	26.8	8	23.4	26.1	27.2
16"	7395	2590	4910	8	23.1	25.8	28	8	23.9	26.6	28.4	8	24.7	27.4	28.8	8	25.4	28.1	29.2
18"	8160	2860	5460	8	25.1	27.8	30	8	25.9	28.6	30.4	8	26.7	29.4	30.8	8	27.4	30.1	31.2
20"	8670	3035	6010	8	27.1	29.8	32	8	27.9	30.6	32.4	8	28.7	31.4	32.8	8	29.4	32.1	33.2
24"	9180	3215	12910	8	31.1	33.8	36	8	31.9	34.6	36.4	8	32.7	35.4	36.8	8	33.4	36.1	37.2
30"	11985	4195	15890	8	37.1	39.8	42	8	37.9	40.6	42.4	8	38.7	41.4	42.8	8	39.4	42.1	43.2
36"	17360	6080	18870	8	43.1	45.8	48	8	43.9	46.6	48.4	8	44.7	47.4	48.8	8	45.4	48.1	49.2
42"	26350	9225	21840	8	49.1	51.8	54	8	49.9	52.6	54.4	8	50.7	53.4	54.8	8	51.4	54.1	55.2

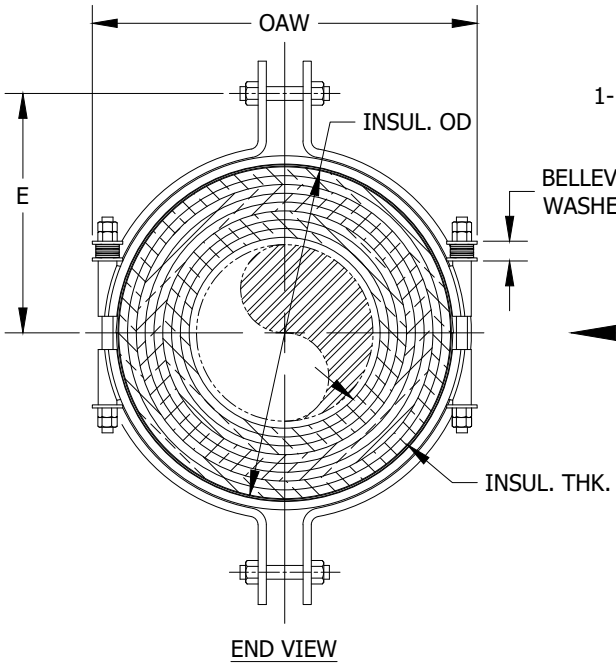
Hanging

DESIGNATION EXAMPLE

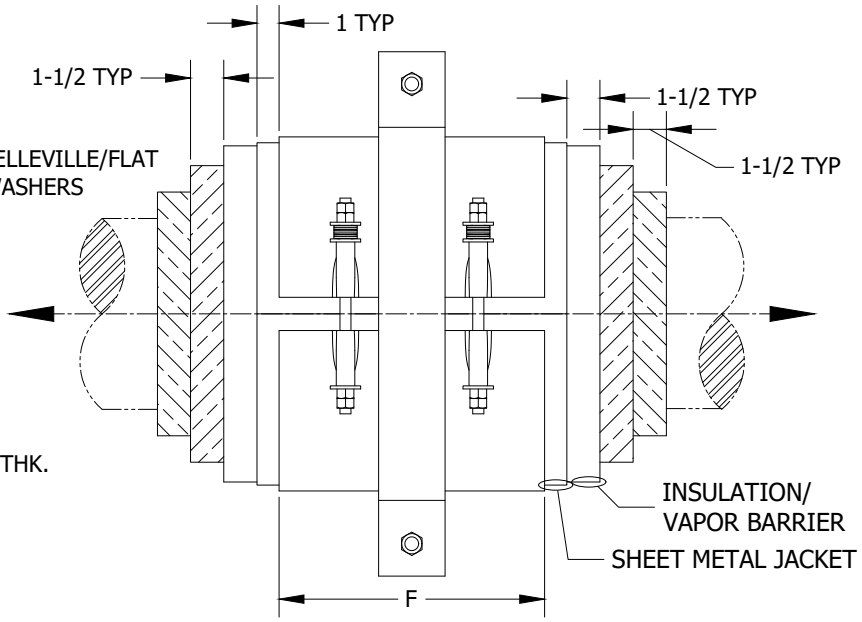
Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	Support Length (F) (in)	Vertical Load (lbs)
CHCW	8	30	9	1200

Cold **H**anging **C**ryo**W**rap





END VIEW



ELEVATION VIEW

Applications & Features:

- Temperature range to -460 Deg F to 195 Deg F
- Higher temperature applications available
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RCS-750
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral (±⅛ in) & Axial (See Table) Travel

** Information presented on this page subject to change without notice.

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Hanging

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	Support Length (F) (in)	Vertical Load (lbs)
CHCW	- 8 x	30	- 9	- 1200

Cold **H**anging **C**ryo**W**rap

IMPERIAL

Notes:
1) Dimensions in inches unless noted
2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE (in)	LENGTH (in)	VERT. LOAD (lbs)	INSULATION THICKNESS															
			10mm				20mm				30mm				40mm			
			INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)
1	6	592																
1	12	1775	2.2	9	4.5	2.4	2.9	9	7.5	2.7	3.7	9	8.5	3.1	4.5	9	9.5	3.5
1	18	2564																
1.5	6	592																
1.5	12	1775	2.7	9	5	2.6	3.5	9	7.5	3	4.3	9	8.5	3.4	5.1	9	9.5	3.8
1.5	18	2564																
2	6	592																
2	12	1775	3.2	9	5.5	2.9	4	9	7.5	3.3	4.8	9	8.5	3.7	5.6	9	9.5	4.1
2	18	2564																
3	6	1381																
3	12	3748	4.3	9	6.5	3.4	5.1	9	8.5	3.8	5.9	9	9	4.2	6.7	9	9.5	4.6
3	18	5326																
4	6	1370																
4	12	3613	5.3	9	7.5	3.9	6.1	9	10.5	4.3	6.9	9	11.5	4.7	7.7	9	12	5.1
4	18	5108																
6	6	1370																
6	12	3613	7.5	9	9.5	5	8.2	9	12.5	5.4	9	9	13.5	5.8	9.8	9	14	6.2
6	18	5108																
8	6	2124																
8	12	4672	9.5	9	11.5	6.2	10.2	9	15	6.5	11	9	15.5	6.9	11.8	9	16.5	7.6
8	18	7221																
10	6	2124																
10	12	4672	11.6	9	13.5	7.5	12.4	9	17	7.9	13.2	9	17.5	8.3	13.9	9	18.5	8.6
10	18	7221																
12	6	3823																
12	12	8070	13.6	12	15.5	9	14.4	12	18	9.4	15.2	12	19	11	15.9	12	19.5	11.3
12	18	12317																
14	6	3610																
14	12	8070	14.8	12	17.5	9.7	15.6	12	20	11.3	16.4	12	21	11.7	17.2	12	21.5	12.1
14	18	12317																
16	12	8070	16.8	12	19.5	11.9	17.6	12	22.5	12.3	18.4	12	23.5	12.7	19.2	12	24	13.1
16	18	12317																
18	12	8472	18.8	12	21.5	13	19.6	12	24.5	13.4	20.4	12	25.5	13.8	21.2	12	26	14.2
18	18	13456																
20	12	8472	20.8	12	23.5	14	21.6	12	28.5	14.4	22.4	12	29.5	14.8	23.2	12	30	15.6
20	18	13456																
24	12	10169	24.8	15	27.5	16.8	25.6	15	34.5	18.1	26.4	15	35.5	18.5	27.2	15	36	18.9
24	18	16151																
26	12	11866	26.8	15	29.5	18.2	27.6	15	36.5	19.2	28.4	15	37.5	19.6	29.2	15	38	20
26	18	18846																
28	12	13563	28.8	15	31.5	19.6	29.6	15	38.5	20.3	30.4	15	39.5	20.7	31.2	15	40	21.1
28	18	21540																
30	12	15259	30.8	15	33.5	20.9	31.6	15	40.5	21.3	32.4	15	41.5	21.7	33.2	15	42	22.1
30	18	24235																
32	12	17952	32.8	15	35.5	22	33.6	15	42.5	22.4	34.4	15	43.5	22.8	35.2	15	44	23.2
32	18	25133																
34	12	19747	34.8	15	37.5	23.1	35.6	15	44.5	23.5	36.4	15	45.5	23.9	37.2	15	46	24.3
34	18	28387																
36	12	21543	36.8	15	39.5	24.2	37.6	15	47	24.6	38.4	15	47.5	25	39.2	15	48.5	25.4
36	18	31641																
42	12	22440	42.8	15	45.5	28.1	43.6	15	53	28.5	44.4	15	53.5	28.9	45.2	15	54.5	29.3
42	18	33660																

Hanging

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	Support Length (F) (in)	Vertical Load (lbs)
CHCW	- 8 x	30	- 9	- 1200

Cold **H**anging **C**ryo**W**rap

IMPERIAL

PIPE SIZE (in)	LENGTH (in)	VERT. LOAD (lbs)	INSULATION THICKNESS															
			50mm				60mm				70mm				80mm			
			INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)
1	6	592																
1	12	1775	5.3	9	10.5	3.9	6.1	9	12.5	4.3	6.9	9	12.5	4.7	7.7	9	12.5	5.1
1	18	2564																
1.5	6	592																
1.5	12	1775	5.9	9	10.5	4.2	6.7	9	12.5	4.6	7.5	9	12.5	5	8.2	9	12.5	5.4
1.5	18	2564																
2	6	592																
2	12	1775	6.4	9	10.5	4.5	7.1	9	12.5	4.8	7.9	9	12.5	5.2	8.7	9	12.5	5.6
2	18	2564																
3	6	1381																
3	12	3748	7.5	9	10.5	5	8.3	9	12.5	5.4	9.1	9	12.5	5.8	9.8	9	12.5	6.2
3	18	5326																
4	6	1370																
4	12	3613	8.5	9	13	5.5	9.3	9	14	5.9	10.1	9	14.5	6.3	10.8	9	15.5	6.7
4	18	5108																
6	6	1370																
6	12	3613	10.6	9	15	6.6	11.4	9	16	7	12.2	9	16.5	7.4	13	9	17.5	7.8
6	18	5108																
8	6	2124																
8	12	4672	12.6	9	17	8	13.4	9	18	8.4	14.2	9	18.5	8.8	15	9	19.5	9.2
8	18	7221																
10	6	2124																
10	12	4672	14.7	9	19	9	15.5	9	20	9.4	16.3	9	20.5	9.8	17.1	12	21.5	10.5
10	18	7221																
12	6	3823																
12	12	8070	16.7	12	20.5	11.7	17.5	12	21	12.1	18.3	12	22	12.5	19.1	12	22.5	12.9
12	18	12317																
14	6	3610																
14	12	8070	18	12	22.5	12.5	18.8	12	23	12.9	19.6	12	24	13.3	20.3	12	24.5	13.6
14	18	12317																
16	12	8070	20	12	25	13.5	20.8	12	25.5	13.9	21.6	12	26.5	14.3	22.3	12	27	14.6
16	18	12317																
18	12	8472	22	12	27	14.6	22.8	12	27.5	15	23.6	12	28.5	15.4	24.3	12	29	15.8
18	18	13456																
20	12	8472	24	12	31	16	24.8	12	31.5	16.4	25.6	12	32.5	16.8	26.3	12	33	17.2
20	18	13456																
24	12	10169	28	15	37	19.3	28.8	15	37.5	19.7	29.6	15	38.5	20.1	30.3	15	39	20.4
24	18	16151																
26	12	11866	30	15	39	20.4	30.8	15	39.5	20.8	31.6	15	40.5	21.2	32.3	15	41	21.5
26	18	18846																
28	12	13563	32	15	41	21.5	32.8	15	41.5	21.9	33.6	15	42.5	22.3	34.3	15	43	22.6
28	18	21540																
30	12	15259	34	15	43	22.5	34.8	15	43.5	22.9	35.6	15	44.5	23.3	36.3	15	45	23.7
30	18	24235																
32	12	17952	36	15	45	23.6	36.8	15	45.5	24	37.6	15	46.5	24.4	38.3	15	47	24.8
32	18	25133																
34	12	19747	38	15	47	24.7	38.8	15	47.5	25.1	39.6	15	48.5	25.5	40.3	15	49	25.9
34	18	28387																
36	12	21543	40	15	49	25.8	40.8	15	50	26.2	41.6	15	51	26.6	42.3	15	51.5	26.9
36	18	31641																
42	12	22440	46	15	55	29.7	46.8	15	56	30.1	47.6	15	57	30.5	48.3	15	57.5	30.8
42	18	33660																

Hanging

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	Support Length (F) (in)	Vertical Load (lbs)
CHCW	- 8 x	30	- 9	- 1200

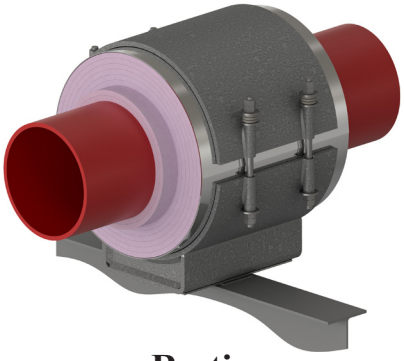
Cold **H**anging **C**ryo**W**rap

IMPERIAL

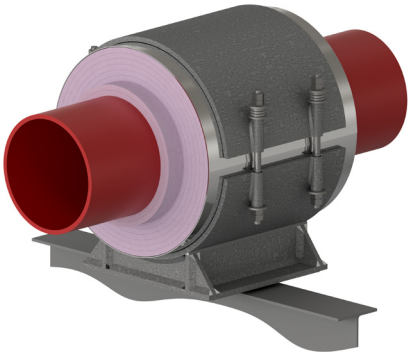
PIPE SIZE (in)	LENGTH (in)	VERT. LOAD (lbs)	INSULATION THICKNESS															
			90mm				100mm				110mm				120mm			
			INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)
1	6	592																
1	12	1775	8.5	9	12.5	5.5	9.2	9	12.5	5.9	10	9	12.5	6.3	10.8	9	13.5	6.7
1	18	2564																
1.5	6	592																
1.5	12	1775	9	9	12.5	5.8	9.8	9	12.5	6.2	10.6	9	13	6.6	11.4	9	14	7
1.5	18	2564																
2	6	592																
2	12	1775	9.5	9	12.5	6	10.3	9	13	6.4	11.1	9	13.5	6.8	11.9	9	14.5	7.2
2	18	2564																
3	6	1381																
3	12	3748	10.6	9	13.5	6.6	11.4	9	14.5	7	12.2	9	15	7.4	13	9	16	7.8
3	18	5326																
4	6	1370																
4	12	3613	11.6	9	16	7.1	12.4	9	17	7.5	13.2	9	17.5	7.9	14	9	18.5	8.3
4	18	5108																
6	6	1370																
6	12	3613	13.8	9	18	8.2	14.5	9	19	8.5	15.3	9	19.5	8.9	16.1	9	20.5	9.3
6	18	5108																
8	6	2124																
8	12	4672	15.8	9	20.5	9.6	16.5	9	21	9.9	17.3	9	22	10.3	18.1	9	22.5	10.7
8	18	7221																
10	6	2124																
10	12	4672	17.9	12	22.5	10.9	18.7	12	23	11.3	19.5	12	24	11.7	20.2	12	24.5	12
10	18	7221																
12	6	3823																
12	12	8070	19.9	12	23.5	13.3	20.7	12	24.5	13.7	21.5	12	25	14.1	22.2	12	26	14.5
12	18	12317																
14	6	3610																
14	12	8070	21.1	12	25.5	14	21.9	12	26.5	14.4	22.7	12	27	14.8	23.5	12	28	15.2
14	18	12317																
16	12	8070	23.1	12	28	15	23.9	12	29	15.4	24.7	12	29.5	15.8	25.5	12	30.5	16.2
16	18	12317																
18	12	8472	25.1	12	30	16.6	25.9	12	31	17	26.7	12	31.5	17.4	27.5	12	32.5	17.8
18	18	13456																
20	12	8472	27.1	12	34	17.6	27.9	12	35	18	28.7	12	35.5	18.4	29.5	15	36.5	18.8
20	18	13456																
24	12	10169	31.1	15	40	20.8	31.9	15	41	21.2	32.7	15	41.5	21.6	33.5	15	42.5	22
24	18	16151																
26	12	11866	33.1	15	42	21.9	33.9	15	43	22.3	34.7	15	43.5	22.7	35.5	15	44.5	23.1
26	18	18846																
28	12	13563	35.1	15	44	23	35.9	15	45	23.4	36.7	15	45.5	23.8	37.5	15	46.5	24.2
28	18	21540																
30	12	15259	37.1	15	46	24.1	37.9	15	47	24.5	38.7	15	47.5	24.9	39.5	15	48.5	25.3
30	18	24235																
32	12	17952	39.1	15	48	25.5	39.9	15	49	25.9	40.7	15	49.5	26.3	41.5	15	49.5	26.7
32	18	25133																
34	12	19747	41.1	15	50	26.9	41.9	15	51	27.3	42.7	15	51.5	27.7	43.5	15	51.5	28.1
34	18	28387																
36	12	21543	43.1	15	52.5	28.2	43.9	15	53	28.6	44.7	15	54	29	45.5	15	54.5	29.4
36	18	31641																
42	12	22440	49.1	15	58.5	31.2	49.9	15	59	31.6	50.7	15	60	32	51.5	15	60.5	32.4
42	18	33660																

Aerogel Hot Service Supports

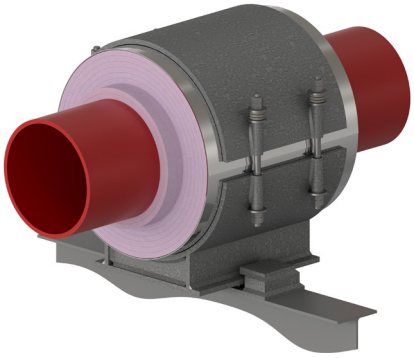
Aerogel Hot Service Supports Overview



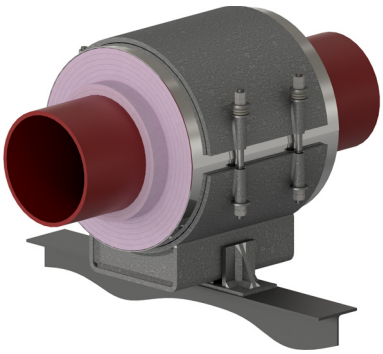
Resting



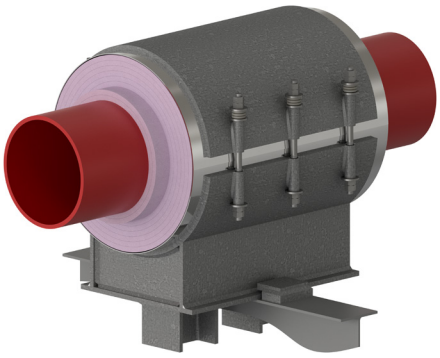
High Lateral Travel



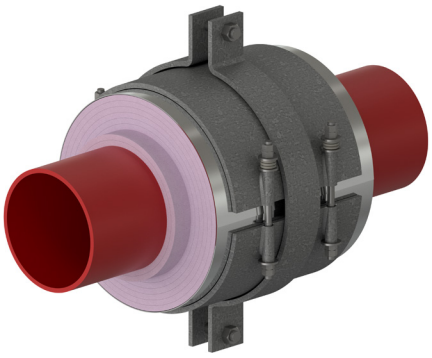
Vertically Restrained Guided



Guided



Anchor



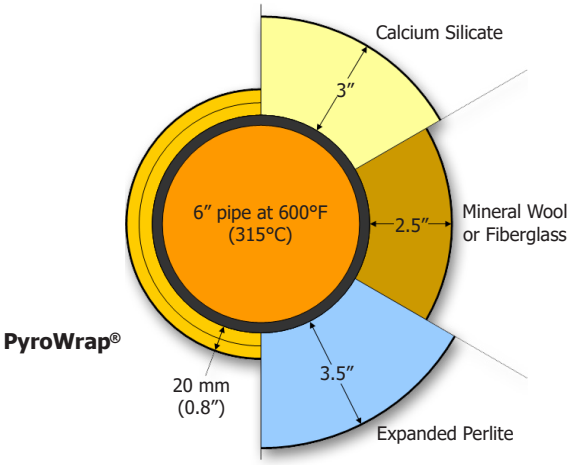
Hanging

RILCO PyroWrap® for Hot Work and High Temperatures
Service Temperature Ranges: -40°F (-40°C) to 1200°F (650°C)



PyroWrap® pipe supports offer specialized properties the make them highly effective for high-temperature applications. Their construction utilizes an insulation which has the lowest thermal conductivity of any known solid and is hydrophobic, helping protect against corrosion under the insulation. The material is also flexible and is designed to recover its thermal performance after compression up to 100 psi.

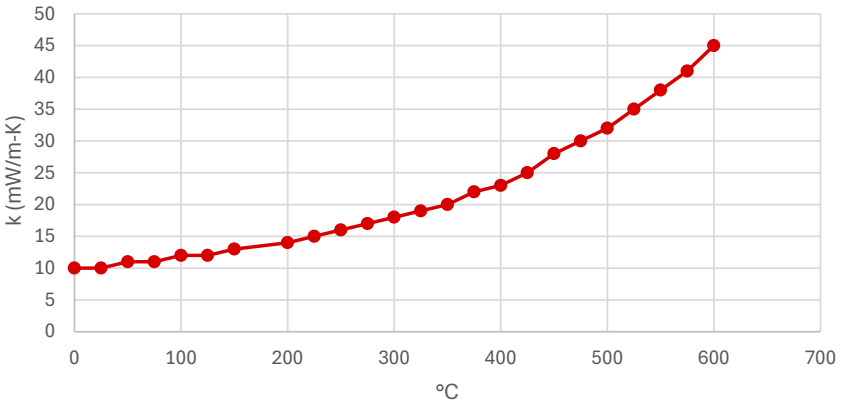
PyroWrap® pipe supports utilize a silica aerogel blanket reinforced with non-woven glass-fiber batting. They require 25%-30% the insulation thickness of other insulation types, making them substantially lighter in weight, thereby easing the installation process and reducing its associated cost.



All four designs provide same level of thermal efficiency

Thermal Conductivity†

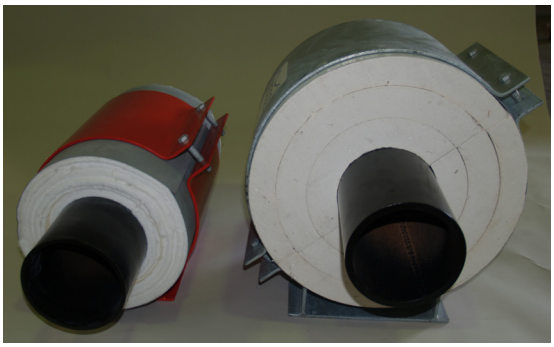
ASTM C 177 Results



†Thermal conductivity measurements taken at a compressive load of 2 psi.

MEAN. TEMP. (°F)	k (BTU-in/hr-ft2)
50	0.14
100	0.14
150	0.15
200	0.15
250	0.16
300	0.17
350	0.18
400	0.19
450	0.20
500	0.22
550	0.23
600	0.25
650	0.27
700	0.29
750	0.32
800	0.35
850	0.38
900	0.42
950	0.45
1000	0.50

Comparable Insulation Ratings



PyroWrap™ Cal-Sil

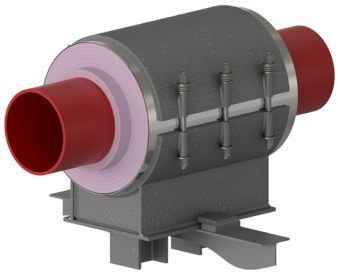
RILCO PyroWrap® - Properties
Service Temperature Ranges: -40°F (-40°C) to 1200°F (650°C)

Thermal Performance: PyroWrap® pipe supports are the most efficient products available in the world for high temperature applications. PyroWrap® supports requires 25% - 30% the insulation thickness of other insulation types to acheive similar heat loss efficiency.

Moisture Resistance: PyroWrap® pipe supports are hydrophobic over the entire matrix of the insulation, not just the surface. The unique hydrophobic characteristic of high temperature aerogel insulation not only repels liquid water, but allows vapor to pass through the insulation and wick moisture away from the pipe, helping to prevent corrosion and deterioration of the substrate.

Structural Integrity: PyroWrap® pipe supports provide superior durability in comparison to other products commonly used in high temperature applications. The PyroWrap® systems design permit for the "modularization" of the piping by allowing the pipe sections to have the pipe supports and line insulation to be pre-installed off-site, or on-site at a safe location and then lifted into position without fear of damaging the insulation.

Dimensional Stability: PyroWrap® pipe supports when used on a Pyrowrap® insulated line allow movement of the insulated system yet remain flexible and are not susceptiable thermal shock. This design allows the usual issues of degraded insulation caused by expansion, extreme stress, structural deformation and crack propagation problems encountered with traditional insulation systems to no longer be a concern.



Specification Compliance and Performance: Typical performance of pyrogenic aerogel blanket insulations.

Test Procedure	Property	Results
ASTM C 165[1]	Compressive Strength	≥3 psi (20.7 kPa) @ 10% deformation
ASTM C 356	Linear Shrinkage Under Soaking Heat	<1.4% @ 1200°F (650°C)
ASTM C 411	Hot Surface Performance	Passed
ASTM C447	Estimation of Maximum Use Temperature	1200°F (650°C)
ASTM C 795	Insulation for Use Over Austenitic Stainless Steel	Passed
ASTM C 1101	Classifying the Flexibility of Mineral Fiber Blankets	Class: Resilient Flexible
ASTM C 1104	Water Vapor Sorption	≤5% (by weight)
ASTM C 1338	Fungal Resistance of Insulation Materials	Passed
ASTM C 1617	Corrosiveness to Steel	Passed
ASTM C 1763	Water Absorption by Immersion	Passed
ASTM C 1511	Liquid Water Retention after Submersion	4% (by weight)
ASTM E 84	Surface Burning Characteristics	Flame Spread Index = ≤5 Smoke Developed Index = ≤10

[1] Compression resistance measured using a preload of 2 psi.

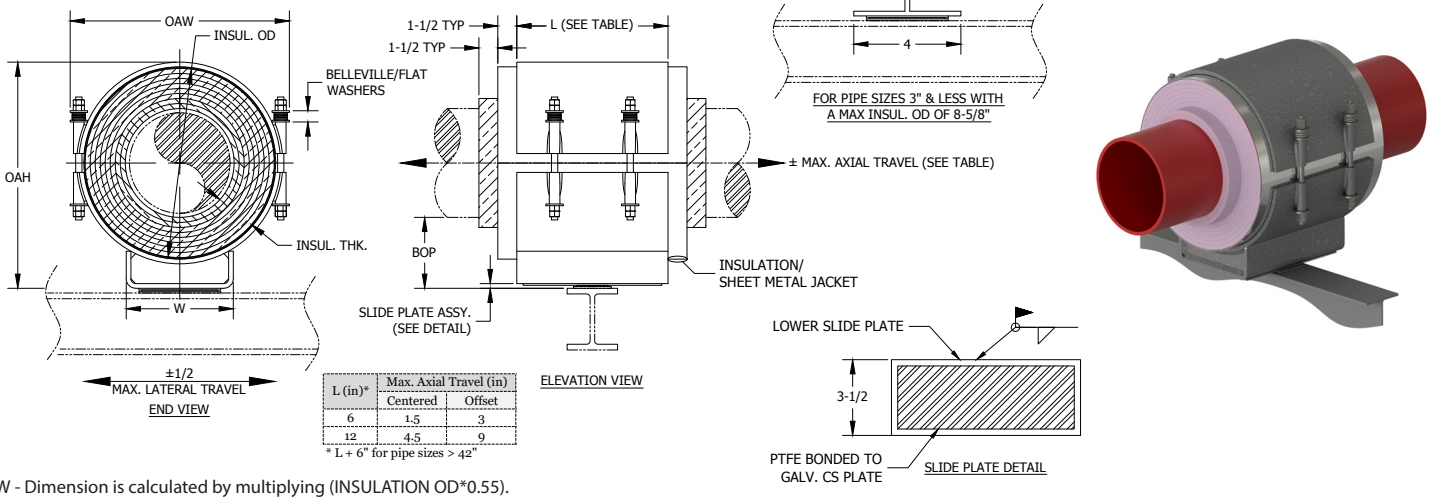
IMPERIAL

Resting

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (in)
HSPW -	8 x	30 -	4 -	12 -	6800

Hot **S**lide **P**yro**W**rap



L (in)*	Max. Axial Travel (in)	
	Centered	Offset
6	1.5	3
12	4.5	9

* L + 6" for pipe sizes > 42"

*W - Dimension is calculated by multiplying (INSULATION OD*0.55).

Applications & Features:

- Temperature range from -40 Deg F to 1200 Deg F
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RHS-850
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!**

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral (±⅛ in) & Axial (See Table) Travel

** Information presented on this page subject to change without notice.

Notes:
1) Dimensions in inches unless noted
2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE	LOW VERT. LOAD (lbs)	HIGH VERT. LOAD (lbs)	INSULATION THICKNESS															
			10mm				20mm				30mm				40mm			
			BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	160	450	4	2.1	4.8	6.2	4	2.9	5.6	6.6	4	3.7	6.4	7	4	4.5	7.2	7.4
1-1/2"	240	650	4	2.7	5.4	6.8	4	3.5	6.2	7.2	4	4.3	7	7.6	4	5	7.7	8
2"	300	800	4	3.2	5.9	7.3	4	3.9	6.6	7.7	4	4.7	7.4	8.1	4	5.5	8.2	8.4
3"	530	2100	4	4.3	7	8.4	4	5.1	7.8	8.8	4	5.9	8.6	9.2	4	6.6	9.3	9.6
4"	840	3350	4	5.3	8	9.4	4	6.1	8.8	9.8	4	6.9	9.6	10.2	4	7.6	10.3	10.6
6"	1275	5100	4	7.4	10.1	11.5	4	8.2	10.9	11.9	4	9	11.7	12.3	4	9.8	12.5	12.7
8"	1700	6800	4	9.4	12.1	13.5	4	10.2	12.9	13.9	4	11	13.7	14.3	4	11.8	14.5	14.7
10"	2000	8000	4	11.5	14.2	15.6	4	12.3	15	16	4	13.1	15.8	16.4	4	13.9	16.6	16.8
12"	2200	8800	4	13.5	16.2	17.6	4	14.3	17	18	4	15.1	17.8	18.4	4	15.9	18.6	18.8
14"	2500	10000	4	14.8	17.5	18.9	4	15.6	18.3	19.3	4	16.4	19.1	19.7	4	17.1	19.8	20.1
16"	2900	11600	4	16.8	19.5	20.9	4	17.6	20.3	21.3	4	18.4	21.1	21.7	4	19.1	21.8	22.1
18"	3200	12800	4	18.8	21.5	22.9	4	19.6	22.3	23.3	4	20.4	23.1	23.7	4	21.1	23.8	24.1
20"	3400	13600	4	20.8	23.5	24.9	4	21.6	24.3	25.3	4	22.4	25.1	25.7	4	23.1	25.8	26.1
24"	3600	14400	4	24.8	27.5	28.9	4	25.6	28.3	29.3	4	26.4	29.1	29.7	4	27.1	29.8	30.1
30"	4700	18800	4	30.8	33.5	34.9	4	31.6	34.3	35.3	4	32.4	35.1	35.7	6	33.1	35.8	38.1
36"	5500	22000	4	36.8	39.5	40.9	4	37.6	40.3	41.3	4	38.4	41.1	41.7	6	39.1	41.8	44.1
42"	6200	24800	4	42.8	45.5	46.9	4	43.6	46.3	47.3	4	44.4	47.1	47.7	6	45.1	47.8	50.1

Patent No. US10,252,490 and US11,014,333 (See page 113 for international patents)

Resting

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (in)
HSPW -	8 x	30 -	4 -	12 -	6800

Hot **S**lide **P**yro**W**rap

IMPERIAL

PIPE SIZE	LOW VERT. LOAD (lbs)	HIGH VERT. LOAD (lbs)	INSULATION THICKNESS															
			50mm				60mm				70mm				80mm			
			BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	160	450	4	5.3	8	7.8	4	6	8.7	8.2	6	6.8	9.5	10.6	6	7.6	10.3	11
1-1/2"	240	650	4	5.8	8.5	8.4	4	6.6	9.3	8.8	6	7.4	10.1	11.2	6	8.2	10.9	11.5
2"	300	800	4	6.3	9	8.8	4	7.1	9.8	9.2	6	7.9	10.6	11.6	6	8.7	11.4	12
3"	530	2100	4	7.4	10.1	10	4	8.2	10.9	10.4	6	9	11.7	12.8	6	9.8	12.5	13.1
4"	840	3350	4	8.4	11.1	11	4	9.2	11.9	11.4	6	10	12.7	13.8	6	10.8	13.5	14.1
6"	1275	5100	4	10.6	13.3	13.1	4	11.3	14	13.5	6	12.1	14.8	15.9	6	12.9	15.6	16.3
8"	1700	6800	4	12.6	15.3	15.1	6	13.3	16	17.5	6	14.1	16.8	17.9	6	14.9	17.6	18.3
10"	2000	8000	4	14.7	17.4	17.2	6	15.5	18.2	19.6	6	16.3	19	20	6	17	19.7	20.4
12"	2200	8800	4	16.7	19.4	19.2	6	17.5	20.2	21.6	6	18.3	21	22	6	19	21.7	22.4
14"	2500	10000	4	17.9	20.6	20.5	6	18.7	21.4	22.9	6	19.5	22.2	23.3	6	20.3	23	23.6
16"	2900	11600	6	19.9	22.6	24.5	6	20.7	23.4	24.9	6	21.5	24.2	25.3	8	22.3	25	27.6
18"	3200	12800	6	21.9	24.6	26.5	6	22.7	25.4	26.9	6	23.5	26.2	27.3	8	24.3	27	29.6
20"	3400	13600	6	23.9	26.6	28.5	6	24.7	27.4	28.9	6	25.5	28.2	29.3	8	26.3	29	31.6
24"	3600	14400	6	27.9	30.6	32.5	6	28.7	31.4	32.9	6	29.5	32.2	33.3	8	30.3	33	35.6
30"	4700	18800	6	33.9	36.6	38.5	6	34.7	37.4	38.9	6	35.5	38.2	39.3	8	36.3	39	41.6
36"	5500	22000	6	39.9	42.6	44.5	6	40.7	43.4	44.9	6	41.5	44.2	45.3	8	42.3	45	47.6
42"	6200	24800	6	45.9	48.6	50.5	6	46.7	49.4	50.9	6	47.5	50.2	51.3	8	48.3	51	53.6

PIPE SIZE	LOW VERT. LOAD (lbs)	HIGH VERT. LOAD (lbs)	INSULATION THICKNESS															
			90mm				100mm				110mm				120mm			
			BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	160	450	6	8.4	11.1	11.4	6	9.2	11.9	11.8	8	10	12.7	14.1	8	10.8	13.5	14.5
1-1/2"	240	650	6	9	11.7	11.9	6	9.8	12.5	12.3	8	10.6	13.3	14.7	8	11.3	14	15.1
2"	300	800	6	9.5	12.2	12.4	6	10.2	12.9	12.8	8	11	13.7	15.2	8	11.8	14.5	15.6
3"	530	2100	6	10.6	13.3	13.5	6	11.4	14.1	13.9	8	12.2	14.9	16.3	8	12.9	15.6	16.7
4"	840	3350	6	11.6	14.3	14.5	6	12.4	15.1	14.9	8	13.2	15.9	17.3	8	13.9	16.6	17.7
6"	1275	5100	6	13.7	16.4	16.7	6	14.5	17.2	17.1	8	15.3	18	19.5	8	16.1	18.8	19.8
8"	1700	6800	6	15.7	18.4	18.7	6	16.5	19.2	19.1	8	17.3	20	21.5	8	18.1	20.8	21.8
10"	2000	8000	6	17.8	20.5	20.8	6	18.6	21.3	21.2	8	19.4	22.1	23.6	8	20.2	22.9	24
12"	2200	8800	6	19.8	22.5	22.8	6	20.6	23.3	23.2	8	21.4	24.1	25.6	8	22.2	24.9	26
14"	2500	10000	6	21.1	23.8	24	6	21.9	24.6	24.4	8	22.7	25.4	26.8	8	23.4	26.1	27.2
16"	2900	11600	8	23.1	25.8	28	8	23.9	26.6	28.4	8	24.7	27.4	28.8	8	25.4	28.1	29.2
18"	3200	12800	8	25.1	27.8	30	8	25.9	28.6	30.4	8	26.7	29.4	30.8	8	27.4	30.1	31.2
20"	3400	13600	8	27.1	29.8	32	8	27.9	30.6	32.4	8	28.7	31.4	32.8	8	29.4	32.1	33.2
24"	3600	14400	8	31.1	33.8	36	8	31.9	34.6	36.4	8	32.7	35.4	36.8	8	33.4	36.1	37.2
30"	4700	18800	8	37.1	39.8	42	8	37.9	40.6	42.4	8	38.7	41.4	42.8	8	39.4	42.1	43.2
36"	5500	22000	8	43.1	45.8	48	8	43.9	46.6	48.4	8	44.7	47.4	48.8	8	45.4	48.1	49.2
42"	6200	24800	8	49.1	51.8	54	8	49.9	52.6	54.4	8	50.7	53.4	54.8	8	51.4	54.1	55.2

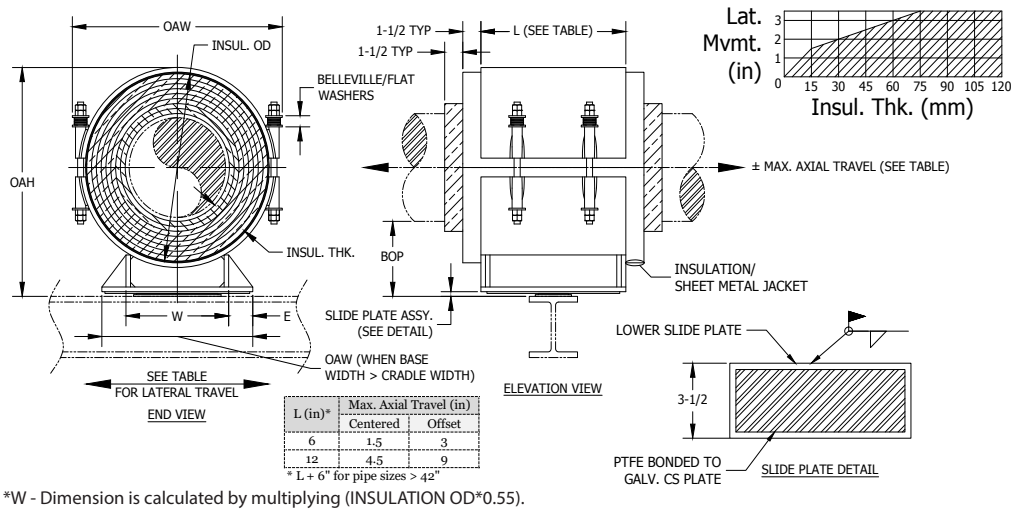
High Lateral Travel

IMPERIAL

DESIGNATION EXAMPLE

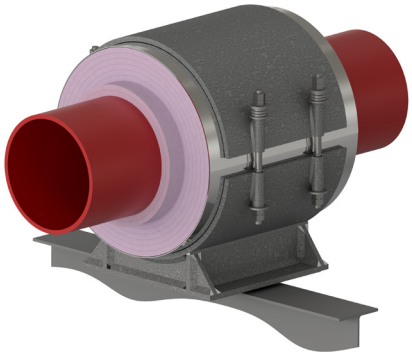
Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (in)
HS(H)PW -	8 x	30 -	4 -	12 -	6800

Hot **S**lide (**H**igh Lateral Travel) **P**yro**W**rap



L (in)*	Max. Axial Travel (in)	
	Centered	Offset
6	1.5	3
12	4.5	9

* L + 6" for pipe sizes > 42"



*W - Dimension is calculated by multiplying (INSULATION OD*0.55).

Applications & Features:

- Temperature range from -40 Deg F to 1200 Deg F
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RHS-850
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral (±⅛ in) & Axial (See Table) Travel

** Information presented on this page subject to change without notice.

Notes:

1) Dimensions in inches unless noted

2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE	LOW VERT. LOAD (lbs)	HIGH VERT. LOAD (lbs)	INSULATION THICKNESS															
			10mm				20mm				30mm				40mm			
			BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	160	450	4	2.1	4.8	6.2	4	2.9	5.6	6.6	4	3.7	6.4	7	4	4.5	7.2	7.4
1-1/2"	240	650	4	2.7	5.4	6.8	4	3.5	6.2	7.2	4	4.3	7	7.6	4	5	7.7	8
2"	300	800	4	3.2	5.9	7.3	4	3.9	6.6	7.7	4	4.7	7.4	8.1	4	5.5	8.2	8.4
3"	530	2100	4	4.3	7	8.4	4	5.1	7.8	8.8	4	5.9	8.6	9.2	4	6.6	9.3	9.6
4"	840	3350	4	5.3	8	9.4	4	6.1	8.8	9.8	4	6.9	9.6	10.2	4	7.6	10.3	10.6
6"	1275	5100	4	7.4	10.1	11.5	4	8.2	10.9	11.9	4	9	11.7	12.3	4	9.8	12.5	12.7
8"	1700	6800	4	9.4	12.1	13.5	4	10.2	12.9	13.9	4	11	13.7	14.3	4	11.8	14.5	14.7
10"	2000	8000	4	11.5	14.2	15.6	4	12.3	15	16	4	13.1	15.8	16.4	4	13.9	16.6	16.8
12"	2200	8800	4	13.5	16.2	17.6	4	14.3	17	18	4	15.1	17.8	18.4	4	15.9	18.6	18.8
14"	2500	10000	4	14.8	17.5	18.9	4	15.6	18.3	19.3	4	16.4	19.1	19.7	4	17.1	19.8	20.1
16"	2900	11600	4	16.8	19.5	20.9	4	17.6	20.3	21.3	4	18.4	21.1	21.7	4	19.1	21.8	22.1
18"	3200	12800	4	18.8	21.5	22.9	4	19.6	22.3	23.3	4	20.4	23.1	23.7	4	21.1	23.8	24.1
20"	3400	13600	4	20.8	23.5	24.9	4	21.6	24.3	25.3	4	22.4	25.1	25.7	4	23.1	25.8	26.1
24"	3600	14400	4	24.8	27.5	28.9	4	25.6	28.3	29.3	4	26.4	29.1	29.7	4	27.1	29.8	30.1
30"	4700	18800	4	30.8	33.5	34.9	4	31.6	34.3	35.3	4	32.4	35.1	35.7	6	33.1	35.8	38.1
36"	5500	22000	4	36.8	39.5	40.9	4	37.6	40.3	41.3	4	38.4	41.1	41.7	6	39.1	41.8	44.1
42"	6200	24800	4	42.8	45.5	46.9	4	43.6	46.3	47.3	4	44.4	47.1	47.7	6	45.1	47.8	50.1

Patent No. US10,252,490 and US11,014,333 (See page 113 for international patents)

High Lateral Travel

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (in)
HS(H)PW -	8 x	30 -	4 -	12 -	6800

Hot **S**lide (**H**igh Lateral Travel) **P**yro**W**rap

IMPERIAL

PIPE SIZE	LOW VERT. LOAD (lbs)	HIGH VERT. LOAD (lbs)	INSULATION THICKNESS															
			50mm				60mm				70mm				80mm			
			BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	160	450	4	5.3	8	7.8	4	6	8.7	8.2	6	6.8	9.5	10.6	6	7.6	10.3	11
1-1/2"	240	650	4	5.8	8.5	8.4	4	6.6	9.3	8.8	6	7.4	10.1	11.2	6	8.2	10.9	11.5
2"	300	800	4	6.3	9	8.8	4	7.1	9.8	9.2	6	7.9	10.6	11.6	6	8.7	11.4	12
3"	530	2100	4	7.4	10.1	10	4	8.2	10.9	10.4	6	9	11.7	12.8	6	9.8	12.5	13.1
4"	840	3350	4	8.4	11.1	11	4	9.2	11.9	11.4	6	10	12.7	13.8	6	10.8	13.5	14.1
6"	1275	5100	4	10.6	13.3	13.1	4	11.3	14	13.5	6	12.1	14.8	15.9	6	12.9	15.6	16.3
8"	1700	6800	4	12.6	15.3	15.1	6	13.3	16	17.5	6	14.1	16.8	17.9	6	14.9	17.6	18.3
10"	2000	8000	4	14.7	17.4	17.2	6	15.5	18.2	19.6	6	16.3	19	20	6	17	19.7	20.4
12"	2200	8800	4	16.7	19.4	19.2	6	17.5	20.2	21.6	6	18.3	21	22	6	19	21.7	22.4
14"	2500	10000	4	17.9	20.6	20.5	6	18.7	21.4	22.9	6	19.5	22.2	23.3	6	20.3	23	23.6
16"	2900	11600	6	19.9	22.6	24.5	6	20.7	23.4	24.9	6	21.5	24.2	25.3	8	22.3	25	27.6
18"	3200	12800	6	21.9	24.6	26.5	6	22.7	25.4	26.9	6	23.5	26.2	27.3	8	24.3	27	29.6
20"	3400	13600	6	23.9	26.6	28.5	6	24.7	27.4	28.9	6	25.5	28.2	29.3	8	26.3	29	31.6
24"	3600	14400	6	27.9	30.6	32.5	6	28.7	31.4	32.9	6	29.5	32.2	33.3	8	30.3	33	35.6
30"	4700	18800	6	33.9	36.6	38.5	6	34.7	37.4	38.9	6	35.5	38.2	39.3	8	36.3	39	41.6
36"	5500	22000	6	39.9	42.6	44.5	6	40.7	43.4	44.9	6	41.5	44.2	45.3	8	42.3	45	47.6
42"	6200	24800	6	45.9	48.6	50.5	6	46.7	49.4	50.9	6	47.5	50.2	51.3	8	48.3	51	53.6

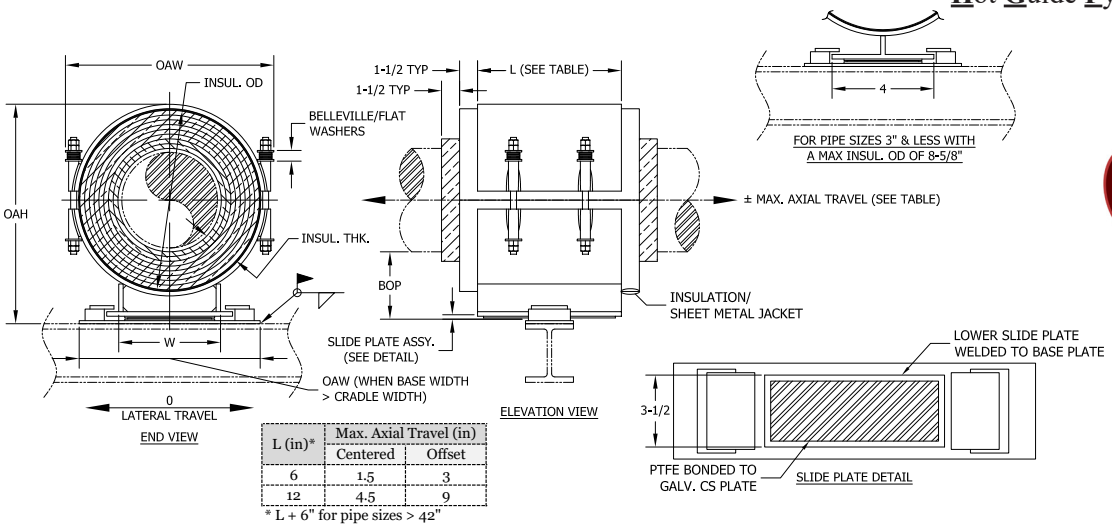
PIPE SIZE	LOW VERT. LOAD (lbs)	HIGH VERT. LOAD (lbs)	INSULATION THICKNESS															
			90mm				100mm				110mm				120mm			
			BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	160	450	6	8.4	11.1	11.4	6	9.2	11.9	11.8	8	10	12.7	14.1	8	10.8	13.5	14.5
1-1/2"	240	650	6	9	11.7	11.9	6	9.8	12.5	12.3	8	10.6	13.3	14.7	8	11.3	14	15.1
2"	300	800	6	9.5	12.2	12.4	6	10.2	12.9	12.8	8	11	13.7	15.2	8	11.8	14.5	15.6
3"	530	2100	6	10.6	13.3	13.5	6	11.4	14.1	13.9	8	12.2	14.9	16.3	8	12.9	15.6	16.7
4"	840	3350	6	11.6	14.3	14.5	6	12.4	15.1	14.9	8	13.2	15.9	17.3	8	13.9	16.6	17.7
6"	1275	5100	6	13.7	16.4	16.7	6	14.5	17.2	17.1	8	15.3	18	19.5	8	16.1	18.8	19.8
8"	1700	6800	6	15.7	18.4	18.7	6	16.5	19.2	19.1	8	17.3	20	21.5	8	18.1	20.8	21.8
10"	2000	8000	6	17.8	20.5	20.8	6	18.6	21.3	21.2	8	19.4	22.1	23.6	8	20.2	22.9	24
12"	2200	8800	6	19.8	22.5	22.8	6	20.6	23.3	23.2	8	21.4	24.1	25.6	8	22.2	24.9	26
14"	2500	10000	6	21.1	23.8	24	6	21.9	24.6	24.4	8	22.7	25.4	26.8	8	23.4	26.1	27.2
16"	2900	11600	8	23.1	25.8	28	8	23.9	26.6	28.4	8	24.7	27.4	28.8	8	25.4	28.1	29.2
18"	3200	12800	8	25.1	27.8	30	8	25.9	28.6	30.4	8	26.7	29.4	30.8	8	27.4	30.1	31.2
20"	3400	13600	8	27.1	29.8	32	8	27.9	30.6	32.4	8	28.7	31.4	32.8	8	29.4	32.1	33.2
24"	3600	14400	8	31.1	33.8	36	8	31.9	34.6	36.4	8	32.7	35.4	36.8	8	33.4	36.1	37.2
30"	4700	18800	8	37.1	39.8	42	8	37.9	40.6	42.4	8	38.7	41.4	42.8	8	39.4	42.1	43.2
36"	5500	22000	8	43.1	45.8	48	8	43.9	46.6	48.4	8	44.7	47.4	48.8	8	45.4	48.1	49.2
42"	6200	24800	8	49.1	51.8	54	8	49.9	52.6	54.4	8	50.7	53.4	54.8	8	51.4	54.1	55.2

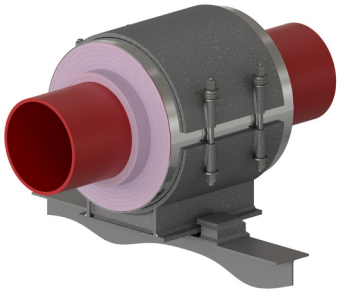
Vertically Restrained Guided

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (lbs)	Lateral Load (lbs)
HGPW -	8	x 30 -	4 -	12 -	6800 -	3400

Hot **G**uide **P**yro**W**rap





L (in)*	Max. Axial Travel (in)	
	Centered	Offset
6	1.5	3
12	4.5	9

* L + 6" for pipe sizes > 42"

*W - Dimension is calculated by multiplying (INSULATION OD*0.65).

Applications & Features:

- Temperature range from -40 Deg F to 1200 Deg F
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RHS-850
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral Load (As Shown in Tables or Custom)
- Lateral (±⅛ in) & Axial (See Table) Travel

** Information presented on this page subject to change without notice.

Notes:

1) Dimensions in inches unless noted

2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE	**LOW** LOAD OPTION		**HIGH** LOAD OPTION		INSULATION THICKNESS															
					10mm				20mm				30mm				40mm			
	VERT. (lbs)	LAT. (lbs)	VERT. (lbs)	LAT. (lbs)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	160	56	450	158	4	2.1	4.8	6.2	4	2.9	5.6	6.6	4	3.7	6.4	7	4	4.5	7.2	7.4
1-1/2"	240	84	650	227	4	2.7	5.4	6.8	4	3.5	6.2	7.2	4	4.3	7	7.6	4	5	7.7	8
2"	300	105	800	280	4	3.2	5.9	7.3	4	3.9	6.6	7.7	4	4.7	7.4	8.1	4	5.5	8.2	8.4
3"	530	190	2100	1050	4	4.3	7	8.4	4	5.1	7.8	8.8	4	5.9	8.6	9.2	4	6.6	9.3	9.6
4"	840	295	3350	1675	4	5.3	8	9.4	4	6.1	8.8	9.8	4	6.9	9.6	10.2	4	7.6	10.3	10.6
6"	1275	450	5100	2550	4	7.4	10.1	11.5	4	8.2	10.9	11.9	4	9	11.7	12.3	4	9.8	12.5	12.7
8"	1700	595	6800	3400	4	9.4	12.1	13.5	4	10.2	12.9	13.9	4	11	13.7	14.3	4	11.8	14.5	14.7
10"	2000	700	8000	4000	4	11.5	14.2	15.6	4	12.3	15	16	4	13.1	15.8	16.4	4	13.9	16.6	16.8
12"	2200	770	8800	4400	4	13.5	16.2	17.6	4	14.3	17	18	4	15.1	17.8	18.4	4	15.9	18.6	18.8
14"	2500	875	10000	5000	4	14.8	17.5	18.9	4	15.6	18.3	19.3	4	16.4	19.1	19.7	4	17.1	19.8	20.1
16"	2900	1015	11600	5800	4	16.8	19.5	20.9	4	17.6	20.3	21.3	4	18.4	21.1	21.7	4	19.1	21.8	22.1
18"	3200	1120	12800	6400	4	18.8	21.5	22.9	4	19.6	22.3	23.3	4	20.4	23.1	23.7	4	21.1	23.8	24.1
20"	3400	1190	13600	6800	4	20.8	23.5	24.9	4	21.6	24.3	25.3	4	22.4	25.1	25.7	4	23.1	25.8	26.1
24"	3600	1260	14400	7200	4	24.8	27.5	28.9	4	25.6	28.3	29.3	4	26.4	29.1	29.7	4	27.1	29.8	30.1
30"	4700	1645	18800	9400	4	30.8	33.5	34.9	4	31.6	34.3	35.3	4	32.4	35.1	35.7	6	33.1	35.8	38.1
36"	5500	1925	22000	11000	4	36.8	39.5	40.9	4	37.6	40.3	41.3	4	38.4	41.1	41.7	6	39.1	41.8	44.1
42"	6200	2170	24800	8680	4	42.8	45.5	46.9	4	43.6	46.3	47.3	4	44.4	47.1	47.7	6	45.1	47.8	50.1

Patent No. US10,252,490 and US11,014,333 (See page 113 for international patents)

Vertically Restrained Guided

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (lbs)	Lateral Load (lbs)
HGPW -	8	x 30 -	4	- 12 -	6800 -	3400

Hot Guide PyroWrap

IMPERIAL

PIPE SIZE	LOW LOAD OPTION		HIGH LOAD OPTION		INSULATION THICKNESS															
					50mm				60mm				70mm				80mm			
	VERT. (lbs)	LAT. (lbs)	VERT. (lbs)	LAT. (lbs)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	160	56	450	158	4	5.3	8	7.8	4	6	8.7	8.2	6	6.8	9.5	10.6	6	7.6	10.3	11
1-1/2"	240	84	650	227	4	5.8	8.5	8.4	4	6.6	9.3	8.8	6	7.4	10.1	11.2	6	8.2	10.9	11.5
2"	300	105	800	280	4	6.3	9	8.8	4	7.1	9.8	9.2	6	7.9	10.6	11.6	6	8.7	11.4	12
3"	530	190	2100	1050	4	7.4	10.1	10	4	8.2	10.9	10.4	6	9	11.7	12.8	6	9.8	12.5	13.1
4"	840	295	3350	1675	4	8.4	11.1	11	4	9.2	11.9	11.4	6	10	12.7	13.8	6	10.8	13.5	14.1
6"	1275	450	5100	2550	4	10.6	13.3	13.1	4	11.3	14	13.5	6	12.1	14.8	15.9	6	12.9	15.6	16.3
8"	1700	595	6800	3400	4	12.6	15.3	15.1	6	13.3	16	17.5	6	14.1	16.8	17.9	6	14.9	17.6	18.3
10"	2000	700	8000	4000	4	14.7	17.4	17.2	6	15.5	18.2	19.6	6	16.3	19	20	6	17	19.7	20.4
12"	2200	770	8800	4400	4	16.7	19.4	19.2	6	17.5	20.2	21.6	6	18.3	21	22	6	19	21.7	22.4
14"	2500	875	10000	5000	4	17.9	20.6	20.5	6	18.7	21.4	22.9	6	19.5	22.2	23.3	6	20.3	23	23.6
16"	2900	1015	11600	5800	6	19.9	22.6	24.5	6	20.7	23.4	24.9	6	21.5	24.2	25.3	8	22.3	25	27.6
18"	3200	1120	12800	6400	6	21.9	24.6	26.5	6	22.7	25.4	26.9	6	23.5	26.2	27.3	8	24.3	27	29.6
20"	3400	1190	13600	6800	6	23.9	26.6	28.5	6	24.7	27.4	28.9	6	25.5	28.2	29.3	8	26.3	29	31.6
24"	3600	1260	14400	7200	6	27.9	30.6	32.5	6	28.7	31.4	32.9	6	29.5	32.2	33.3	8	30.3	33	35.6
30"	4700	1645	18800	9400	6	33.9	36.6	38.5	6	34.7	37.4	38.9	6	35.5	38.2	39.3	8	36.3	39	41.6
36"	5500	1925	22000	11000	6	39.9	42.6	44.5	6	40.7	43.4	44.9	6	41.5	44.2	45.3	8	42.3	45	47.6
42"	6200	2170	24800	8680	6	45.9	48.6	50.5	6	46.7	49.4	50.9	6	47.5	50.2	51.3	8	48.3	51	53.6

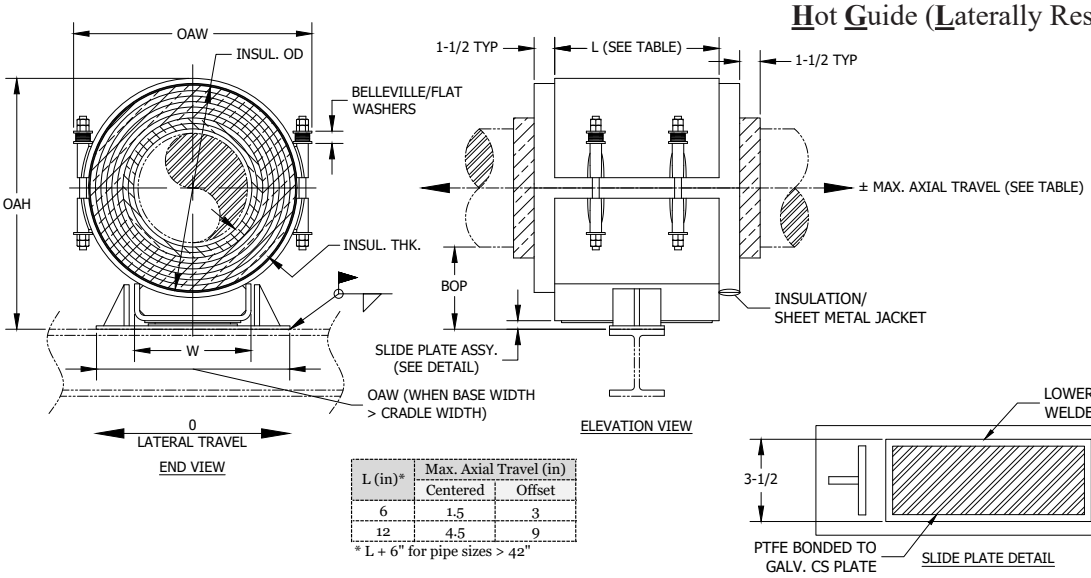
PIPE SIZE	LOW LOAD OPTION		HIGH LOAD OPTION		INSULATION THICKNESS															
					90mm				100mm				110mm				120mm			
	VERT. (lbs)	LAT. (lbs)	VERT. (lbs)	LAT. (lbs)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	160	56	450	158	6	8.4	11.1	11.4	6	9.2	11.9	11.8	8	10	12.7	14.1	8	10.8	13.5	14.5
1-1/2"	240	84	650	227	6	9	11.7	11.9	6	9.8	12.5	12.3	8	10.6	13.3	14.7	8	11.3	14	15.1
2"	300	105	800	280	6	9.5	12.2	12.4	6	10.2	12.9	12.8	8	11	13.7	15.2	8	11.8	14.5	15.6
3"	530	190	2100	1050	6	10.6	13.3	13.5	6	11.4	14.1	13.9	8	12.2	14.9	16.3	8	12.9	15.6	16.7
4"	840	295	3350	1675	6	11.6	14.3	14.5	6	12.4	15.1	14.9	8	13.2	15.9	17.3	8	13.9	16.6	17.7
6"	1275	450	5100	2550	6	13.7	16.4	16.7	6	14.5	17.2	17.1	8	15.3	18	19.5	8	16.1	18.8	19.8
8"	1700	595	6800	3400	6	15.7	18.4	18.7	6	16.5	19.2	19.1	8	17.3	20	21.5	8	18.1	20.8	21.8
10"	2000	700	8000	4000	6	17.8	20.5	20.8	6	18.6	21.3	21.2	8	19.4	22.1	23.6	8	20.2	22.9	24
12"	2200	770	8800	4400	6	19.8	22.5	22.8	6	20.6	23.3	23.2	8	21.4	24.1	25.6	8	22.2	24.9	26
14"	2500	875	10000	5000	6	21.1	23.8	24	6	21.9	24.6	24.4	8	22.7	25.4	26.8	8	23.4	26.1	27.2
16"	2900	1015	11600	5800	8	23.1	25.8	28	8	23.9	26.6	28.4	8	24.7	27.4	28.8	8	25.4	28.1	29.2
18"	3200	1120	12800	6400	8	25.1	27.8	30	8	25.9	28.6	30.4	8	26.7	29.4	30.8	8	27.4	30.1	31.2
20"	3400	1190	13600	6800	8	27.1	29.8	32	8	27.9	30.6	32.4	8	28.7	31.4	32.8	8	29.4	32.1	33.2
24"	3600	1260	14400	7200	8	31.1	33.8	36	8	31.9	34.6	36.4	8	32.7	35.4	36.8	8	33.4	36.1	37.2
30"	4700	1645	18800	9400	8	37.1	39.8	42	8	37.9	40.6	42.4	8	38.7	41.4	42.8	8	39.4	42.1	43.2
36"	5500	1925	22000	11000	8	43.1	45.8	48	8	43.9	46.6	48.4	8	44.7	47.4	48.8	8	45.4	48.1	49.2
42"	6200	2170	24800	8680	8	49.1	51.8	54	8	49.9	52.6	54.4	8	50.7	53.4	54.8	8	51.4	54.1	55.2

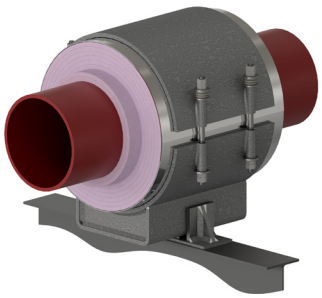
Guided

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (lbs)	Lateral Load (lbs)
HG(L)PW -	8	x 30 -	4 -	12 -	6800 -	3400

Hot **G**uide (**L**aterally Restrained) **P**yro**W**rap





L (in)*	Max. Axial Travel (in)	
	Centered	Offset
6	1.5	3
12	4.5	9

* L + 6" for pipe sizes > 42"

*W - Dimension is calculated by multiplying (INSULATION OD*0.65).

Applications & Features:

- Temperature range from -40 Deg F to 1200 Deg F
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RHS-850
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral Load (As Shown in Tables or Custom)
- Lateral (±⅛ in) & Axial (See Table) Travel

** Information presented on this page subject to change without notice.

Notes:
1) Dimensions in inches unless noted
2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE	**LOW** LOAD OPTION		**HIGH** LOAD OPTION		INSULATION THICKNESS															
					10mm				20mm				30mm				40mm			
	VERT. (lbs)	LAT. (lbs)	VERT. (lbs)	LAT. (lbs)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	225	115	900	450	4	2.1	4.8	6.2	4	2.9	5.6	6.6	4	3.7	6.4	7	4	4.5	7.2	7.4
1-1/2"	325	165	1300	650	4	2.7	5.4	6.8	4	3.5	6.2	7.2	4	4.3	7	7.6	4	5	7.7	8
2"	375	190	1500	750	4	3.2	5.9	7.3	4	3.9	6.6	7.7	4	4.7	7.4	8.1	4	5.5	8.2	8.4
3"	530	265	2100	1050	4	4.3	7	8.4	4	5.1	7.8	8.8	4	5.9	8.6	9.2	4	6.6	9.3	9.6
4"	840	420	3350	1675	4	5.3	8	9.4	4	6.1	8.8	9.8	4	6.9	9.6	10.2	4	7.6	10.3	10.6
6"	1275	640	5100	2550	4	7.4	10.1	11.5	4	8.2	10.9	11.9	4	9	11.7	12.3	4	9.8	12.5	12.7
8"	1700	850	6800	3400	4	9.4	12.1	13.5	4	10.2	12.9	13.9	4	11	13.7	14.3	4	11.8	14.5	14.7
10"	2000	1000	8000	4000	4	11.5	14.2	15.6	4	12.3	15	16	4	13.1	15.8	16.4	4	13.9	16.6	16.8
12"	2200	1100	8800	4400	4	13.5	16.2	17.6	4	14.3	17	18	4	15.1	17.8	18.4	4	15.9	18.6	18.8
14"	2500	1250	10000	5000	4	14.8	17.5	18.9	4	15.6	18.3	19.3	4	16.4	19.1	19.7	4	17.1	19.8	20.1
16"	2900	1450	11600	5800	4	16.8	19.5	20.9	4	17.6	20.3	21.3	4	18.4	21.1	21.7	4	19.1	21.8	22.1
18"	3200	1600	12800	6400	4	18.8	21.5	22.9	4	19.6	22.3	23.3	4	20.4	23.1	23.7	4	21.1	23.8	24.1
20"	3400	1700	13600	6800	4	20.8	23.5	24.9	4	21.6	24.3	25.3	4	22.4	25.1	25.7	4	23.1	25.8	26.1
24"	3600	1800	14400	7200	4	24.8	27.5	28.9	4	25.6	28.3	29.3	4	26.4	29.1	29.7	4	27.1	29.8	30.1
30"	4700	2350	18800	9400	4	30.8	33.5	34.9	4	31.6	34.3	35.3	4	32.4	35.1	35.7	6	33.1	35.8	38.1
36"	5500	2750	22000	11000	4	36.8	39.5	40.9	4	37.6	40.3	41.3	4	38.4	41.1	41.7	6	39.1	41.8	44.1
42"	6200	3100	24800	12400	4	42.8	45.5	46.9	4	43.6	46.3	47.3	4	44.4	47.1	47.7	6	45.1	47.8	50.1

Patent No. US10,252,490 and US11,014,333 (See page 113 for international patents)

Guided

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	BOP (in)	Support Length (in)	Vertical Load (lbs)	Lateral Load (lbs)
HG(L)PW	- 8 x	30 -	4 -	12 -	6800 -	3400

Hot **G**uide (**L**aterally Restrained) **P**yro**W**rap

IMPERIAL

PIPE SIZE	**LOW** LOAD OPTION		**HIGH** LOAD OPTION		**INSULATION THICKNESS**															
					50mm				60mm				70mm				80mm			
	VERT. (lbs)	LAT. (lbs)	VERT. (lbs)	LAT. (lbs)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	225	115	900	450	4	5.3	8	7.8	4	6	8.7	8.2	6	6.8	9.5	10.6	6	7.6	10.3	11
1-1/2"	325	165	1300	650	4	5.8	8.5	8.4	4	6.6	9.3	8.8	6	7.4	10.1	11.2	6	8.2	10.9	11.5
2"	375	190	1500	750	4	6.3	9	8.8	4	7.1	9.8	9.2	6	7.9	10.6	11.6	6	8.7	11.4	12
3"	530	265	2100	1050	4	7.4	10.1	10	4	8.2	10.9	10.4	6	9	11.7	12.8	6	9.8	12.5	13.1
4"	840	420	3350	1675	4	8.4	11.1	11	4	9.2	11.9	11.4	6	10	12.7	13.8	6	10.8	13.5	14.1
6"	1275	640	5100	2550	4	10.6	13.3	13.1	4	11.3	14	13.5	6	12.1	14.8	15.9	6	12.9	15.6	16.3
8"	1700	850	6800	3400	4	12.6	15.3	15.1	6	13.3	16	17.5	6	14.1	16.8	17.9	6	14.9	17.6	18.3
10"	2000	1000	8000	4000	4	14.7	17.4	17.2	6	15.5	18.2	19.6	6	16.3	19	20	6	17	19.7	20.4
12"	2200	1100	8800	4400	4	16.7	19.4	19.2	6	17.5	20.2	21.6	6	18.3	21	22	6	19	21.7	22.4
14"	2500	1250	10000	5000	4	17.9	20.6	20.5	6	18.7	21.4	22.9	6	19.5	22.2	23.3	6	20.3	23	23.6
16"	2900	1450	11600	5800	6	19.9	22.6	24.5	6	20.7	23.4	24.9	6	21.5	24.2	25.3	8	22.3	25	27.6
18"	3200	1600	12800	6400	6	21.9	24.6	26.5	6	22.7	25.4	26.9	6	23.5	26.2	27.3	8	24.3	27	29.6
20"	3400	1700	13600	6800	6	23.9	26.6	28.5	6	24.7	27.4	28.9	6	25.5	28.2	29.3	8	26.3	29	31.6
24"	3600	1800	14400	7200	6	27.9	30.6	32.5	6	28.7	31.4	32.9	6	29.5	32.2	33.3	8	30.3	33	35.6
30"	4700	2350	18800	9400	6	33.9	36.6	38.5	6	34.7	37.4	38.9	6	35.5	38.2	39.3	8	36.3	39	41.6
36"	5500	2750	22000	11000	6	39.9	42.6	44.5	6	40.7	43.4	44.9	6	41.5	44.2	45.3	8	42.3	45	47.6
42"	6200	3100	24800	12400	6	45.9	48.6	50.5	6	46.7	49.4	50.9	6	47.5	50.2	51.3	8	48.3	51	53.6

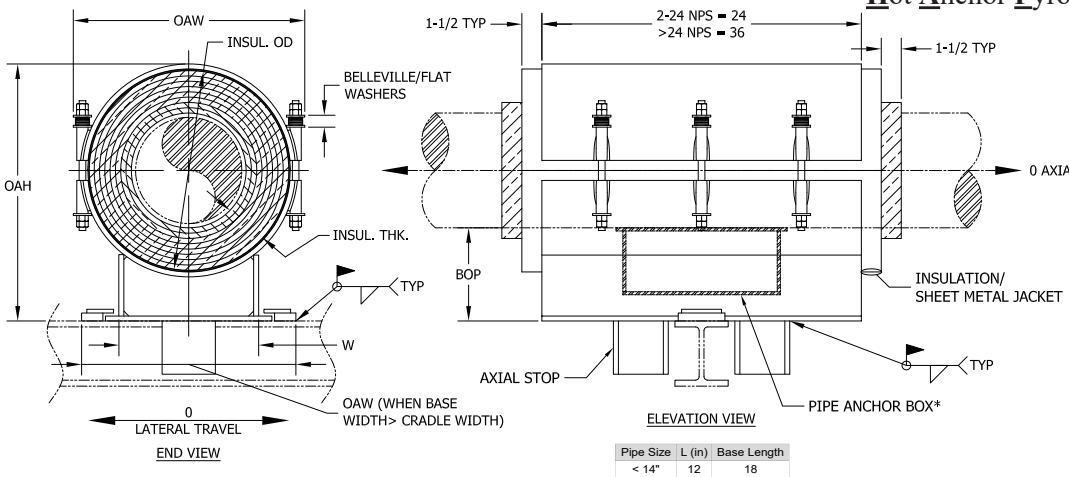
PIPE SIZE	**LOW** LOAD OPTION		**HIGH** LOAD OPTION		**INSULATION THICKNESS**															
					90mm				100mm				110mm				120mm			
	VERT. (lbs)	LAT. (lbs)	VERT. (lbs)	LAT. (lbs)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	225	115	900	450	6	8.4	11.1	11.4	6	9.2	11.9	11.8	8	10	12.7	14.1	8	10.8	13.5	14.5
1-1/2"	325	165	1300	650	6	9	11.7	11.9	6	9.8	12.5	12.3	8	10.6	13.3	14.7	8	11.3	14	15.1
2"	375	190	1500	750	6	9.5	12.2	12.4	6	10.2	12.9	12.8	8	11	13.7	15.2	8	11.8	14.5	15.6
3"	530	265	2100	1050	6	10.6	13.3	13.5	6	11.4	14.1	13.9	8	12.2	14.9	16.3	8	12.9	15.6	16.7
4"	840	420	3350	1675	6	11.6	14.3	14.5	6	12.4	15.1	14.9	8	13.2	15.9	17.3	8	13.9	16.6	17.7
6"	1275	640	5100	2550	6	13.7	16.4	16.7	6	14.5	17.2	17.1	8	15.3	18	19.5	8	16.1	18.8	19.8
8"	1700	850	6800	3400	6	15.7	18.4	18.7	6	16.5	19.2	19.1	8	17.3	20	21.5	8	18.1	20.8	21.8
10"	2000	1000	8000	4000	6	17.8	20.5	20.8	6	18.6	21.3	21.2	8	19.4	22.1	23.6	8	20.2	22.9	24
12"	2200	1100	8800	4400	6	19.8	22.5	22.8	6	20.6	23.3	23.2	8	21.4	24.1	25.6	8	22.2	24.9	26
14"	2500	1250	10000	5000	6	21.1	23.8	24	6	21.9	24.6	24.4	8	22.7	25.4	26.8	8	23.4	26.1	27.2
16"	2900	1450	11600	5800	8	23.1	25.8	28	8	23.9	26.6	28.4	8	24.7	27.4	28.8	8	25.4	28.1	29.2
18"	3200	1600	12800	6400	8	25.1	27.8	30	8	25.9	28.6	30.4	8	26.7	29.4	30.8	8	27.4	30.1	31.2
20"	3400	1700	13600	6800	8	27.1	29.8	32	8	27.9	30.6	32.4	8	28.7	31.4	32.8	8	29.4	32.1	33.2
24"	3600	1800	14400	7200	8	31.1	33.8	36	8	31.9	34.6	36.4	8	32.7	35.4	36.8	8	33.4	36.1	37.2
30"	4700	2350	18800	9400	8	37.1	39.8	42	8	37.9	40.6	42.4	8	38.7	41.4	42.8	8	39.4	42.1	43.2
36"	5500	2750	22000	11000	8	43.1	45.8	48	8	43.9	46.6	48.4	8	44.7	47.4	48.8	8	45.4	48.1	49.2
42"	6200	3100	24800	12400	8	49.1	51.8	54	8	49.9	52.6	54.4	8	50.7	53.4	54.8	8	51.4	54.1	55.2

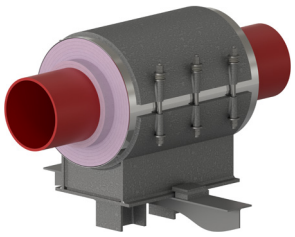
Anchor

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (in)	BOP (in)	Support Length (in)	Vertical Load (in)	Lateral Load (in)	Axial Load (in)
HAPW -	8 x	30 -	4 -	24 -	5950 -	2085 -	8930

Hot **A**nchor **P**yro**W**rap





The lengths shown are minimum lengths based on support fabrication requirements. Customer to confirm required base lengths based on field supporting structure dimensions. Alternating stop guide signs available for dimensional conflicts.

Pipe Size	L (in)	Base Length
< 14"	12	18
≥ 14"	18	18

* - Pipe anchor box to be compatible with process pipe material.

*W - Dimension is calculated by multiplying (INSULATION OD*0.65).

Applications & Features:

- Temperature range from -40 Deg F to 1200 Deg F
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- Patented anchor system allows increased load carrying capability and decreased heat transfer
- See technical specification RHS-850
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral Load (As Shown in Tables or Custom)
- Axial Load (As Shown in Tables or Custom)

** Information presented on this page subject to change without notice.

Notes:

1) Dimensions in inches unless noted

2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE	**LOW** LOAD OPTION			**HIGH** LOAD OPTION			INSULATION THICKNESS													
							10mm				20mm				30mm				40mm			
	VERT. (lbs)	LAT. (lbs)	AXI. (lbs)	VERT. (lbs)	LAT. (lbs)	AXI. (lbs)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	200	70	410	910	320	1360	4	2.1	4.8	6.2	4	2.9	5.6	6.6	4	3.7	6.4	7	4	4.5	7.2	7.4
1-1/2"	290	105	590	1310	460	1970	4	2.7	5.4	6.8	4	3.5	6.2	7.2	4	4.3	7	7.6	4	5	7.7	8
2"	360	130	730	1640	575	2460	4	3.2	5.9	7.3	4	3.9	6.6	7.7	4	4.7	7.4	8.1	4	5.5	8.2	8.4
3"	530	190	1400	2420	850	3620	4	4.3	7	8.4	4	5.1	7.8	8.8	4	5.9	8.6	9.2	4	6.6	9.3	9.6
4"	840	295	1730	3110	1090	4660	4	5.3	8	9.4	4	6.1	8.8	9.8	4	6.9	9.6	10.2	4	7.6	10.3	10.6
6"	1275	450	2400	4570	1600	6860	4	7.4	10.1	11.5	4	8.2	10.9	11.9	4	9	11.7	12.3	4	9.8	12.5	12.7
8"	1700	595	3020	5950	2085	8930	4	9.4	12.1	13.5	4	10.2	12.9	13.9	4	11	13.7	14.3	4	11.8	14.5	14.7
10"	2000	700	3700	7420	2600	11130	4	11.5	14.2	15.6	4	12.3	15	16	4	13.1	15.8	16.4	4	13.9	16.6	16.8
12"	2200	770	4320	8800	3080	13200	4	13.5	16.2	17.6	4	14.3	17	18	4	15.1	17.8	18.4	4	15.9	18.6	18.8
14"	2500	875	4700	10000	3500	15000	4	14.8	17.5	18.9	4	15.6	18.3	19.3	4	16.4	19.1	19.7	4	17.1	19.8	20.1
16"	2900	1015	5340	11600	4060	17400	4	16.8	19.5	20.9	4	17.6	20.3	21.3	4	18.4	21.1	21.7	4	19.1	21.8	22.1
18"	3200	1120	5970	12800	4480	19200	4	18.8	21.5	22.9	4	19.6	22.3	23.3	4	20.4	23.1	23.7	4	21.1	23.8	24.1
20"	3400	1190	6600	13600	4760	20400	4	20.8	23.5	24.9	4	21.6	24.3	25.3	4	22.4	25.1	25.7	4	23.1	25.8	26.1
24"	3600	1260	7850	14400	5040	21600	4	24.8	27.5	28.9	4	25.6	28.3	29.3	4	26.4	29.1	29.7	4	27.1	29.8	30.1
30"	4700	1645	9740	18800	6580	28200	4	30.8	33.5	34.9	4	31.6	34.3	35.3	4	32.4	35.1	35.7	6	33.1	35.8	38.1
36"	5500	1925	11600	22000	7700	33000	4	36.8	39.5	40.9	4	37.6	40.3	41.3	4	38.4	41.1	41.7	6	39.1	41.8	44.1
42"	6200	2170	13500	24800	8680	37200	4	42.8	45.5	46.9	4	43.6	46.3	47.3	4	44.4	47.1	47.7	6	45.1	47.8	50.1

Patent No. US9,068,685, US 10,288,209 and US10,962,164 (See page 113 for international patents)

Anchor

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (in)	BOP (in)	Support Length (in)	Vertical Load (in)	Lateral Load (in)	Axial Load (in)
HAPW -	8 x	30 -	4 -	24 -	5950 -	2085 -	8930

Hot **A**nchor **P**yro**W**rap

IMPERIAL

PIPE SIZE	LOW LOAD OPTION			HIGH LOAD OPTION			INSULATION THICKNESS															
							50mm				60mm				70mm				80mm			
	VERT. (lbs)	LAT. (lbs)	AXI. (lbs)	VERT. (lbs)	LAT. (lbs)	AXI. (lbs)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	200	70	410	910	320	1360	4	5.3	8	7.8	4	6	8.7	8.2	6	6.8	9.5	10.6	6	7.6	10.3	11
1-1/2"	290	105	590	1310	460	1970	4	5.8	8.5	8.4	4	6.6	9.3	8.8	6	7.4	10.1	11.2	6	8.2	10.9	11.5
2"	360	130	730	1640	575	2460	4	6.3	9	8.8	4	7.1	9.8	9.2	6	7.9	10.6	11.6	6	8.7	11.4	12
3"	530	190	1400	2420	850	3620	4	7.4	10.1	10	4	8.2	10.9	10.4	6	9	11.7	12.8	6	9.8	12.5	13.1
4"	840	295	1730	3110	1090	4660	4	8.4	11.1	11	4	9.2	11.9	11.4	6	10	12.7	13.8	6	10.8	13.5	14.1
6"	1275	450	2400	4570	1600	6860	4	10.6	13.3	13.1	4	11.3	14	13.5	6	12.1	14.8	15.9	6	12.9	15.6	16.3
8"	1700	595	3020	5950	2085	8930	4	12.6	15.3	15.1	6	13.3	16	17.5	6	14.1	16.8	17.9	6	14.9	17.6	18.3
10"	2000	700	3700	7420	2600	11130	4	14.7	17.4	17.2	6	15.5	18.2	19.6	6	16.3	19	20	6	17	19.7	20.4
12"	2200	770	4320	8800	3080	13200	4	16.7	19.4	19.2	6	17.5	20.2	21.6	6	18.3	21	22	6	19	21.7	22.4
14"	2500	875	4700	10000	3500	15000	4	17.9	20.6	20.5	6	18.7	21.4	22.9	6	19.5	22.2	23.3	6	20.3	23	23.6
16"	2900	1015	5340	11600	4060	17400	6	19.9	22.6	24.5	6	20.7	23.4	24.9	6	21.5	24.2	25.3	8	22.3	25	27.6
18"	3200	1120	5970	12800	4480	19200	6	21.9	24.6	26.5	6	22.7	25.4	26.9	6	23.5	26.2	27.3	8	24.3	27	29.6
20"	3400	1190	6600	13600	4760	20400	6	23.9	26.6	28.5	6	24.7	27.4	28.9	6	25.5	28.2	29.3	8	26.3	29	31.6
24"	3600	1260	7850	14400	5040	21600	6	27.9	30.6	32.5	6	28.7	31.4	32.9	6	29.5	32.2	33.3	8	30.3	33	35.6
30"	4700	1645	9740	18800	6580	28200	6	33.9	36.6	38.5	6	34.7	37.4	38.9	6	35.5	38.2	39.3	8	36.3	39	41.6
36"	5500	1925	11600	22000	7700	33000	6	39.9	42.6	44.5	6	40.7	43.4	44.9	6	41.5	44.2	45.3	8	42.3	45	47.6
42"	6200	2170	13500	24800	8680	37200	6	45.9	48.6	50.5	6	46.7	49.4	50.9	6	47.5	50.2	51.3	8	48.3	51	53.6

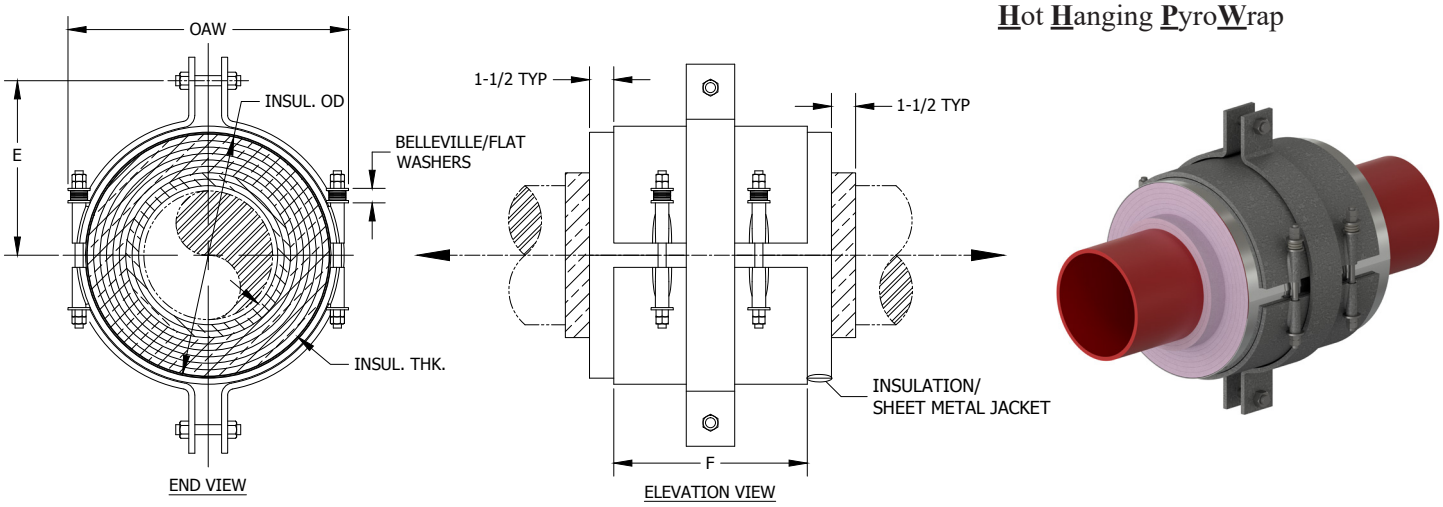
PIPE SIZE	LOW LOAD OPTION			HIGH LOAD OPTION			INSULATION THICKNESS															
							90mm				100mm				110mm				120mm			
	VERT. (lbs)	LAT. (lbs)	AXI. (lbs)	VERT. (lbs)	LAT. (lbs)	AXI. (lbs)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)	BOP (in)	INSUL. OD (in)	OAW (in)	OAH (in)
1"	200	70	410	910	320	1360	6	8.4	11.1	11.4	6	9.2	11.9	11.8	8	10	12.7	14.1	8	10.8	13.5	14.5
1-1/2"	290	105	590	1310	460	1970	6	9	11.7	11.9	6	9.8	12.5	12.3	8	10.6	13.3	14.7	8	11.3	14	15.1
2"	360	130	730	1640	575	2460	6	9.5	12.2	12.4	6	10.2	12.9	12.8	8	11	13.7	15.2	8	11.8	14.5	15.6
3"	530	190	1400	2420	850	3620	6	10.6	13.3	13.5	6	11.4	14.1	13.9	8	12.2	14.9	16.3	8	12.9	15.6	16.7
4"	840	295	1730	3110	1090	4660	6	11.6	14.3	14.5	6	12.4	15.1	14.9	8	13.2	15.9	17.3	8	13.9	16.6	17.7
6"	1275	450	2400	4570	1600	6860	6	13.7	16.4	16.7	6	14.5	17.2	17.1	8	15.3	18	19.5	8	16.1	18.8	19.8
8"	1700	595	3020	5950	2085	8930	6	15.7	18.4	18.7	6	16.5	19.2	19.1	8	17.3	20	21.5	8	18.1	20.8	21.8
10"	2000	700	3700	7420	2600	11130	6	17.8	20.5	20.8	6	18.6	21.3	21.2	8	19.4	22.1	23.6	8	20.2	22.9	24
12"	2200	770	4320	8800	3080	13200	6	19.8	22.5	22.8	6	20.6	23.3	23.2	8	21.4	24.1	25.6	8	22.2	24.9	26
14"	2500	875	4700	10000	3500	15000	6	21.1	23.8	24	6	21.9	24.6	24.4	8	22.7	25.4	26.8	8	23.4	26.1	27.2
16"	2900	1015	5340	11600	4060	17400	8	23.1	25.8	28	8	23.9	26.6	28.4	8	24.7	27.4	28.8	8	25.4	28.1	29.2
18"	3200	1120	5970	12800	4480	19200	8	25.1	27.8	30	8	25.9	28.6	30.4	8	26.7	29.4	30.8	8	27.4	30.1	31.2
20"	3400	1190	6600	13600	4760	20400	8	27.1	29.8	32	8	27.9	30.6	32.4	8	28.7	31.4	32.8	8	29.4	32.1	33.2
24"	3600	1260	7850	14400	5040	21600	8	31.1	33.8	36	8	31.9	34.6	36.4	8	32.7	35.4	36.8	8	33.4	36.1	37.2
30"	4700	1645	9740	18800	6580	28200	8	37.1	39.8	42	8	37.9	40.6	42.4	8	38.7	41.4	42.8	8	39.4	42.1	43.2
36"	5500	1925	11600	22000	7700	33000	8	43.1	45.8	48	8	43.9	46.6	48.4	8	44.7	47.4	48.8	8	45.4	48.1	49.2
42"	6200	2170	13500	24800	8680	37200	8	49.1	51.8	54	8	49.9	52.6	54.4	8	50.7	53.4	54.8	8	51.4	54.1	55.2

Hanging

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	Support Length (F) (in)	E (in)	Vertical Load (lb)
HHPW	8	30	9	7.2	1200

Hot **H**anging **P**yro**W**rap



Applications & Features:

- Temperature range from -40 Deg F to 1200 Deg F
- Higher temperature applications available
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RHS-850
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- Support Length (As Shown in Tables or Custom)
- E (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)

** Information presented on this page subject to change without notice.

Notes:
1) Dimensions in inches unless noted

2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE	LOW VERT. LOAD (lbs)	HIGH VERT. LOAD (lbs)	INSULATION THICKNESS															
			10mm				20mm				30mm				40mm			
			INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)
1"	90	180	2.2	9	4.5	2.4	2.9	9	7.5	2.7	3.7	9	8.5	3.1	4.5	9	9.5	3.5
1-1/2"	150	375	2.7	9	5	2.6	3.5	9	7.5	3	4.3	9	8.5	3.4	5.1	9	9.5	3.8
2"	245	570	3.2	9	5.5	2.9	4	9	7.5	3.3	4.8	9	8.5	3.7	5.6	9	9.5	4.1
3"	365	955	4.3	9	6.5	3.4	5.1	9	8.5	3.8	5.9	9	9	4.2	6.7	9	9.5	4.6
4"	475	1340	5.3	9	7.5	3.9	6.1	9	10.5	4.3	6.9	9	11.5	4.7	7.7	9	12	5.1
6"	800	2110	7.5	9	9.5	5	8.2	9	12.5	5.4	9	9	13.5	5.8	9.8	9	14	6.2
8"	1300	2885	9.5	9	11.5	6.2	10.2	9	15	6.5	11	9	15.5	6.9	11.8	9	16.5	7.6
10"	2000	3655	11.6	9	13.5	7.5	12.4	9	17	7.9	13.2	9	17.5	8.3	13.9	9	18.5	8.6
12"	2400	4425	13.6	12	15.5	9	14.4	12	18	9.4	15.2	12	19	11	15.9	12	19.5	11.3
14"	2500	5200	14.8	12	17.5	9.7	15.6	12	20	11.3	16.4	12	21	11.7	17.2	12	21.5	12.1
16"	3300	5970	16.8	12	19.5	11.9	17.6	12	22.5	12.3	18.4	12	23.5	12.7	19.2	12	24	13.1
18"	3500	6740	18.8	12	21.5	13	19.6	12	24.5	13.4	20.4	12	25.5	13.8	21.2	12	26	14.2
20"	3600	7515	20.8	12	23.5	14	21.6	12	28.5	14.4	22.4	12	29.5	14.8	23.2	12	30	15.6
24"	4500	9055	24.8	15	27.5	16.8	25.6	15	34.5	18.1	26.4	15	35.5	18.5	27.2	15	36	18.9
30"	4800	11370	30.8	15	33.5	20.9	31.6	15	40.5	21.3	32.4	15	41.5	21.7	33.2	15	42	22.1
36"	6500	13685	36.8	15	39.5	24.2	37.6	15	47	24.6	38.4	15	47.5	25	39.2	15	48.5	25.4
42"	8200	16000	42.8	15	45.5	28.1	43.6	15	53	28.5	44.4	15	53.5	28.9	45.2	15	54.5	29.3

Hanging

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size (in)	Insulation Thickness (mm)	Support Length (F) (in)	E (in)	Vertical Load (lb)
HHPW	8	30	9	7.2	1200

Hot **H**anging **P**yro**W**rap

IMPERIAL

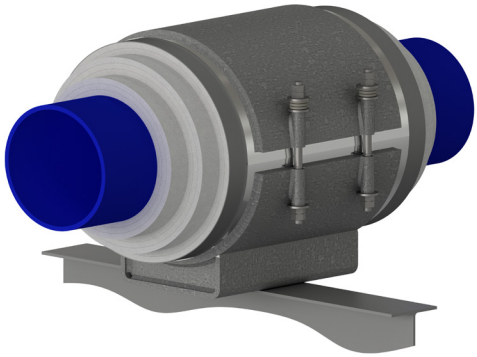
PIPE SIZE	LOW VERT. LOAD (lbs)	HIGH VERT. LOAD (lbs)	INSULATION THICKNESS															
			50mm				60mm				70mm				80mm			
			INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)
1"	90	180	5.3	9	10.5	3.9	6.1	9	12.5	4.3	6.9	9	12.5	4.7	7.7	9	12.5	5.1
1-1/2"	150	375	5.9	9	10.5	4.2	6.7	9	12.5	4.6	7.5	9	12.5	5	8.2	9	12.5	5.4
2"	245	570	6.4	9	10.5	4.5	7.1	9	12.5	4.8	7.9	9	12.5	5.2	8.7	9	12.5	5.6
3"	365	955	7.5	9	10.5	5	8.3	9	12.5	5.4	9.1	9	12.5	5.8	9.8	9	12.5	6.2
4"	475	1340	8.5	9	13	5.5	9.3	9	14	5.9	10.1	9	14.5	6.3	10.8	9	15.5	6.7
6"	800	2110	10.6	9	15	6.6	11.4	9	16	7	12.2	9	16.5	7.4	13	9	17.5	7.8
8"	1300	2885	12.6	9	17	8	13.4	9	18	8.4	14.2	9	18.5	8.8	15	9	19.5	9.2
10"	2000	3655	14.7	9	19	9	15.5	9	20	9.4	16.3	9	20.5	9.8	17.1	12	21.5	10.5
12"	2400	4425	16.7	12	20.5	11.7	17.5	12	21	12.1	18.3	12	22	12.5	19.1	12	22.5	12.9
14"	2500	5200	18	12	22.5	12.5	18.8	12	23	12.9	19.6	12	24	13.3	20.3	12	24.5	13.6
16"	3300	5970	20	12	25	13.5	20.8	12	25.5	13.9	21.6	12	26.5	14.3	22.3	12	27	14.6
18"	3500	6740	22	12	27	14.6	22.8	12	27.5	15	23.6	12	28.5	15.4	24.3	12	29	15.8
20"	3600	7515	24	12	31	16	24.8	12	31.5	16.4	25.6	12	32.5	16.8	26.3	12	33	17.2
24"	4500	9055	28	15	37	19.3	28.8	15	37.5	19.7	29.6	15	38.5	20.1	30.3	15	39	20.4
30"	4800	11370	34	15	43	22.5	34.8	15	43.5	22.9	35.6	15	44.5	23.3	36.3	15	45	23.7
36"	6500	13685	40	15	49	25.8	40.8	15	50	26.2	41.6	15	51	26.6	42.3	15	51.5	26.9
42"	8200	16000	46	15	55	29.7	46.8	15	56	30.1	47.6	15	57	30.5	48.3	15	57.5	30.8

PIPE SIZE	LOW VERT. LOAD (lbs)	HIGH VERT. LOAD (lbs)	INSULATION THICKNESS															
			90mm				100mm				110mm				120mm			
			INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)	INSUL. OD (in)	F (in)	OAW (in)	E (in)
1"	90	180	8.5	9	12.5	5.5	9.2	9	12.5	5.9	10	9	12.5	6.3	10.8	9	13.5	6.7
1-1/2"	150	375	9	9	12.5	5.8	9.8	9	12.5	6.2	10.6	9	13	6.6	11.4	9	14	7
2"	245	570	9.5	9	12.5	6	10.3	9	13	6.4	11.1	9	13.5	6.8	11.9	9	14.5	7.2
3"	365	955	10.6	9	13.5	6.6	11.4	9	14.5	7	12.2	9	15	7.4	13	9	16	7.8
4"	475	1340	11.6	9	16	7.1	12.4	9	17	7.5	13.2	9	17.5	7.9	14	9	18.5	8.3
6"	800	2110	13.8	9	18	8.2	14.5	9	19	8.5	15.3	9	19.5	8.9	16.1	9	20.5	9.3
8"	1300	2885	15.8	9	20.5	9.6	16.5	9	21	9.9	17.3	9	22	10.3	18.1	9	22.5	10.7
10"	2000	3655	17.9	12	22.5	10.9	18.7	12	23	11.3	19.5	12	24	11.7	20.2	12	24.5	12
12"	2400	4425	19.9	12	23.5	13.3	20.7	12	24.5	13.7	21.5	12	25	14.1	22.2	12	26	14.5
14"	2500	5200	21.1	12	25.5	14	21.9	12	26.5	14.4	22.7	12	27	14.8	23.5	12	28	15.2
16"	3300	5970	23.1	12	28	15	23.9	12	29	15.4	24.7	12	29.5	15.8	25.5	12	30.5	16.2
18"	3500	6740	25.1	12	30	16.6	25.9	12	31	17	26.7	12	31.5	17.4	27.5	12	32.5	17.8
20"	3600	7515	27.1	12	34	17.6	27.9	12	35	18	28.7	12	35.5	18.4	29.5	15	36.5	18.8
24"	4500	9055	31.1	15	40	20.8	31.9	15	41	21.2	32.7	15	41.5	21.6	33.5	15	42.5	22
30"	4800	11370	37.1	15	46	24.1	37.9	15	47	1	38.7	15	47.5	24.9	39.5	15	48.5	25.3
36"	6500	13685	43.1	15	52.5	28.2	43.9	15	53	28.6	44.7	15	54	29	45.5	15	54.5	29.4
42"	8200	16000	49.1	15	58.5	31.2	49.9	15	59	31.6	50.7	15	60	32	51.5	15	60.5	32.4

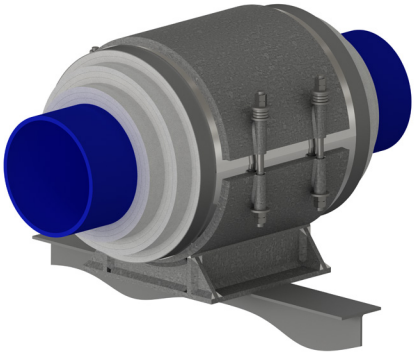
Aerogel Cold Service Supports

METRIC

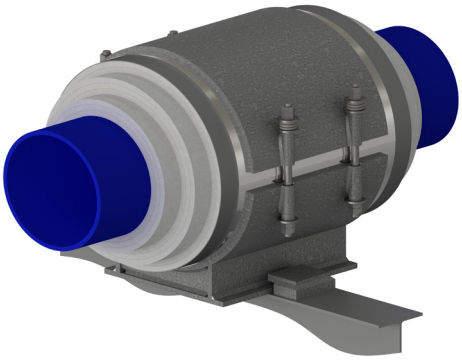
Aerogel Cold Service Supports Overview



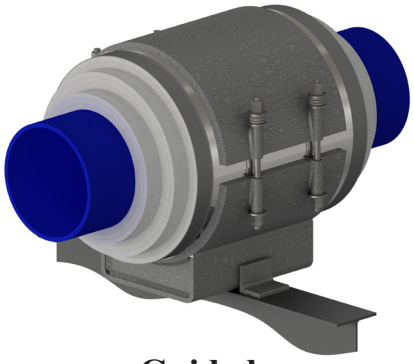
Resting



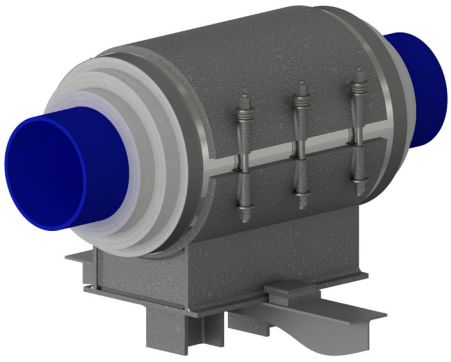
High Lateral Travel



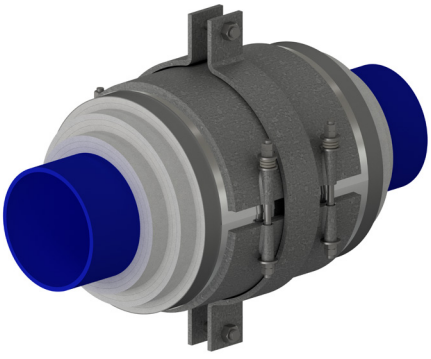
Vertically Restrained Guided



Guided

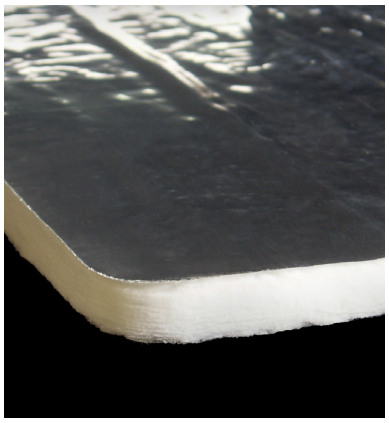


Anchor



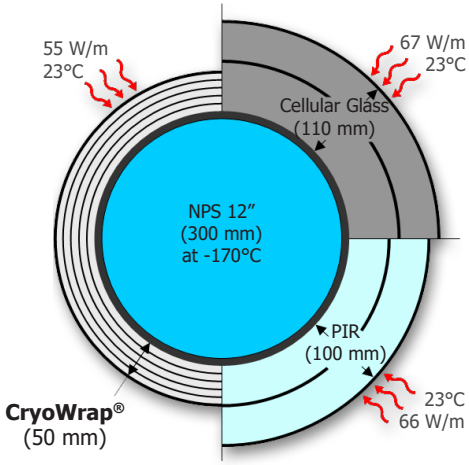
Hanging

RILCO CryoWrap® for Cryogenic and Sub-Ambient Applications
Service Temperature Ranges: -460°F (-270°C) to 195°F (90°C)



CryoWrap® pipe supports provide unique properties that make them ideal for cryogenic thermal protection. Their extremely low thermal conductivity helps reduce heat gain and liquid "boil-off," and their vapor-resistant design prevents water from entering or escaping. They're also highly durable—resisting mechanical abuse—and their smaller circumference makes installation easier and helps reduce labor costs.

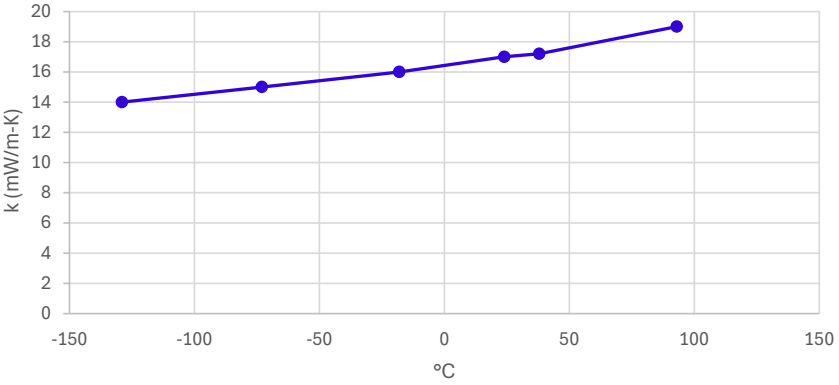
CryoWrap® pipe supports utilizes aerogels with an integral vapor barrier and requires 25% -30% the insulation thickness of other insulation types. It is lighter weight and no water permeability.



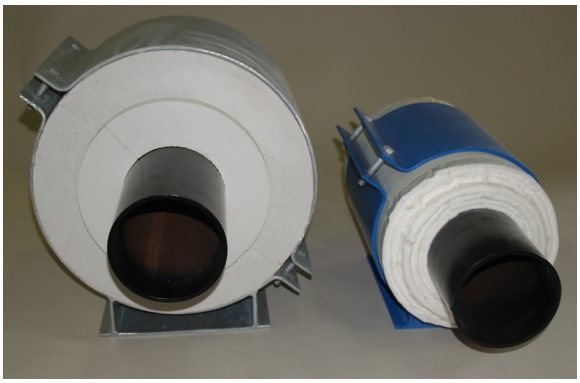
All three designs meet the same condensation control criteria

Thermal Conductivity†

ASTM C 177 Results



Comparable Insulation Ratings



Polyurethane **CryoWrap™**

Mean Temp (°C)	-129	-73	-18	24	38	93
k (mW/m-K)	14	15	16	17	17	19

†Thermal conductivity measurements taken at a compressive load of 2 psi.

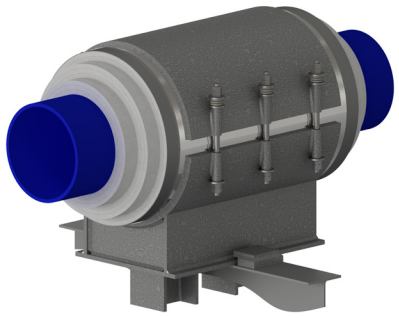
RILCO CryoWrap® - Properties
Service Temperature Ranges: -460°F (-270°C) to -195°F (-126°C)

Thermal Performance: CryoWrap® pipe supports are designed for cryogenic and sub-ambient applications and offer very low thermal conductivity. Their smaller circumference reduces exposed surface area, which helps limit heat gain. In most cases, the required condensation-control thickness is enough to meet the project's heat-gain limits. This built-in "safety factor" can improve process stability, reduce boil-off, and save energy. Thermal performance remains consistent over time because the insulation does not rely on blowing agents that could diffuse.

Moisture and Vapor Resistance: CryoWrap® pipe supports include an integral vapor barrier, providing a zero-perm system for cryogenic applications.

Structural Integrity: CryoWrap® pipe supports provide superior durability in comparison to other products commonly used in high temperature applications. The CryoWrap® systems design permit for the "modularization" of the piping by allowing the pipe sections to have the pipe supports and line insulation to be pre-installed off-site, or on-site at a safe location and then lifted into position without fear of damaging the insulation.

Dimensional Stability: CryoWrap® pipe supports when used on a CryoWrap® insulated line allow movement of the insulated system yet remain flexible and are not susceptiable thermal shock. This design allows the usual issues of degraded insulation caused by expansion, extreme stress, structural deformation and crack propagation problems encountered with traditional insulation systems to no longer be a concern.



Specification Compliance and Performance: Typical performance that is consistent with ASTM C1728

Test Procedure	Property	Results
ASTM C 165[1]	Compressive Resistance	≥ 5 psi (34.5 kPa) @ 10% deformation
ASTM C 356	Linear Shrinkage Under Soaking Heat	<2%
ASTM C 795	Insulation for Use Over Austenitic Stainless Steel	Passed
ASTM C 1101	Classifying the Flexibility of Mineral Fiber Blankets	Class: Resilient Flexible
ASTM C 1104	Water Vapor Sorption	≤5% (by weight)
ASTM C 1338	Fungal Resistance of Insulation Materials	No Growth
ASTM C 1617	Corrosiveness to Steel	Passed
ASTM C 1763	Water Absorption by Immersion	Passed
ASTM E 84	Surface Burning Characteristics	Flame Spread Index = ≤25 Smoke Developed Index = ≤50

[1] Compression resistance measured using a preload of 2 psi.

METRIC

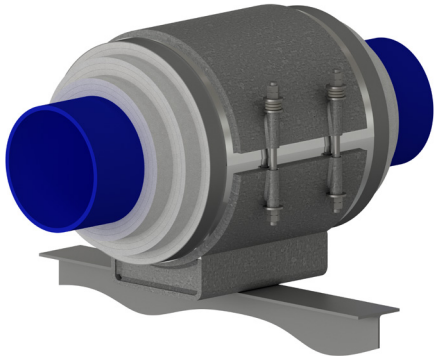
Resting

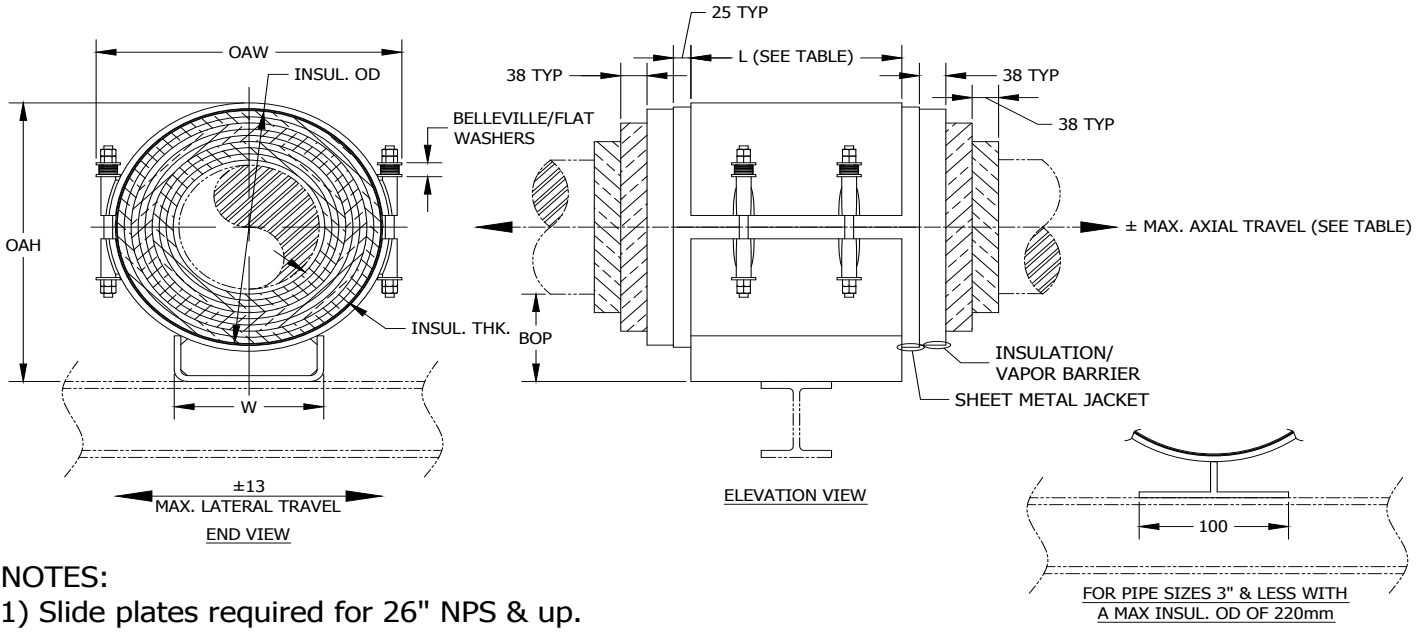
Patent No. US10,252,490 and US11,014,333
(See page 113 for international patents)

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)
CSCW	- 8 x	30 -	100 -	300 -	23

Cold **S**lide **C**ryo**W**rap





NOTES:
1) Slide plates required for 26" NPS & up.

**W - Dimension is calculated by multiplying (INSULATION OD*0.55).

Applications & Features:

- Temperature range to -270 Deg C to 90 Deg C
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel on sizes 26" and larger
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RCS-750
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral (3 mm) & Axial (See Table) Travel

** Information presented on this page subject to change without notice.

Resting

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)
CSCW	8	30	100	300	23

Cold **S**lide **C**ryo**W**rap

Notes:
1) Dimensions in millimeters unless noted
2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE (in)	LENGTH (mm)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	INSULATION THICKNESS													
						10 mm				20 mm				30 mm				40 mm			
						BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1	152	<19	2.8	19	2.8	102	53	122	157	102	74	142	168	102	94	163	178	102	114	183	188
1	305	<19	8.4	38	6.7																
1	457	<19	12.1	114	6																
1.5	152	<19	2.8	19	2.8	102	69	137	173	102	89	157	183	102	109	178	193	102	127	196	203
1.5	305	<19	8.4	38	6.7																
1.5	457	<19	12.1	114	6																
2	152	<19	2.8	19	2.8	102	81	150	185	102	99	168	196	102	119	188	206	102	140	208	213
2	305	<19	8.4	38	6.7																
2	457	<19	12.1	114	6																
3	152	<19	6.5	19	6.5	102	109	178	213	102	130	198	224	102	150	218	234	102	168	236	244
3	305	<19	17.7	38	14.1																
3	457	<19	25.1	114	12.6																
4	152	<19	6.5	19	6.5	102	135	203	239	102	155	224	249	102	175	244	259	102	193	262	269
4	305	<19	17	38	14.5																
4	457	<19	24.1	114	12																
6	152	<19	6.5	19	6.5	102	188	257	292	102	208	277	302	102	229	297	312	102	249	318	323
6	305	<19	17	38	15.3																
6	457	<19	24.1	114	16.9																
8	152	<19	10	19	10	102	239	307	343	102	259	328	353	102	279	348	363	102	300	368	373
8	305	<19	22	38	19.8																
8	457	<19	34	114	23.8																
10	152	<19	10	19	10	102	292	361	396	102	312	381	406	102	333	401	417	102	353	422	427
10	305	<19	22	38	19.8																
10	457	<19	34	114	23.8																
12	152	<19	18	19	18	102	343	411	447	102	363	432	457	102	384	452	467	102	404	472	478
12	305	<19	38	38	34.2																
12	457	<19	58	114	40.6																
14	152	<19	17	19	17	102	376	445	480	102	396	465	490	102	417	485	500	102	434	503	511
14	305	<19	38	38	34.2																
14	457	<19	58	114	40.6																
16	305	<19	38	38	34.2	102	427	495	531	102	447	516	541	102	467	536	551	102	485	554	561
16	457	<19	58	114	40.6																
18	305	<19	39.9	38	35.9	102	478	546	582	102	498	566	592	102	518	587	602	102	536	605	612
18	457	<19	63.4	114	44.4																
20	305	<19	39.9	38	35.9	102	528	597	632	102	549	617	643	102	569	638	653	102	587	655	663
20	457	<19	63.4	114	44.4																
24	305	<19	47.9	38	43.1	102	630	699	734	102	650	719	744	102	671	739	754	102	688	757	765
24	457	<19	76.1	114	53.3																
26	305	<19	55.9	38	50.3	102	681	749	785	102	701	770	795	102	721	790	805	152	739	808	866
26	457	<19	88.8	114	62.2																
28	305	<19	63.9	38	57.5	102	732	800	836	102	752	820	846	102	772	841	856	152	790	859	917
28	457	<19	101.5	114	71.1																
30	305	<19	71.9	38	64.7	102	782	851	886	102	803	871	897	102	823	892	907	152	841	909	968
30	457	<19	114.2	114	80																
32	305	<19	84.6	38	76.1	102	833	902	937	102	853	922	947	102	874	942	958	152	892	960	1019
32	457	<19	118.4	114	82.9																
34	305	<19	93.1	38	83.8	102	884	953	988	102	904	973	998	102	925	993	1008	152	942	1011	1069
34	457	<19	133.8	114	93.6																
36	305	<19	101.5	38	91.4	102	935	1003	1039	102	955	1024	1049	102	975	1044	1059	152	993	1062	1120
36	457	<19	149.1	114	104.4																
42	305	<19	105.8	38	95.2	102	1087	1156	1191	102	1107	1176	1201	102	1128	1196	1212	152	1146	1214	1273
42	457	<19	158.6	114	111																

Resting

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)
CSCW -	8 x	30 -	100 -	300 -	23

Cold **S**lide **C**ryo**W**rap

METRIC

PIPE SIZE (in)	LENGTH (mm)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	INSULATION THICKNESS													
						50 mm				60 mm				70 mm				80 mm			
						BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1	152	<19	2.8	19	2.8														
1	305	<19	8.4	38	6.7	102	135	203	198	102	152	221	208	152	173	241	269	152	193	262	279
1	457	<19	12.1	114	6														
1.5	152	<19	2.8	19	2.8														
1.5	305	<19	8.4	38	6.7	102	147	216	213	102	168	236	224	152	188	257	284	152	208	277	292
1.5	457	<19	12.1	114	6														
2	152	<19	2.8	19	2.8														
2	305	<19	8.4	38	6.7	102	160	229	224	102	180	249	234	152	201	269	295	152	221	290	305
2	457	<19	12.1	114	6														
3	152	<19	6.5	19	6.5														
3	305	<19	17.7	38	14.1	102	188	257	254	102	208	277	264	152	229	297	325	152	249	318	333
3	457	<19	25.1	114	12.6														
4	152	<19	6.5	19	6.5														
4	305	<19	17	38	14.5	102	213	282	279	102	234	302	290	152	254	323	351	152	274	343	358
4	457	<19	24.1	114	12														
6	152	<19	6.5	19	6.5														
6	305	<19	17	38	15.3	102	269	338	333	102	287	356	343	152	307	376	404	152	328	396	414
6	457	<19	24.1	114	16.9														
8	152	<19	10	19	10														
8	305	<19	22	38	19.8	102	320	389	384	152	338	406	445	152	358	427	455	152	378	447	465
8	457	<19	34	114	23.8														
10	152	<19	10	19	10														
10	305	<19	22	38	19.8	102	373	442	437	152	394	462	498	152	414	483	508	152	432	500	518
10	457	<19	34	114	23.8														
12	152	<19	18	19	18														
12	305	<19	38	38	34.2	102	424	493	488	152	445	513	549	152	465	533	559	152	483	551	569
12	457	<19	58	114	40.6														
14	152	<19	17	19	17														
14	305	<19	38	38	34.2	102	455	523	521	152	475	544	582	152	495	564	592	152	516	584	599
14	457	<19	58	114	40.6														
16	305	<19	38	38	34.2	152	505	574	622	152	526	594	632	152	546	615	643	203	566	635	701
16	457	<19	58	114	40.6														
18	305	<19	39.9	38	35.9	152	556	625	673	152	577	645	683	152	597	665	693	203	617	686	752
18	457	<19	63.4	114	44.4														
20	305	<19	39.9	38	35.9	152	607	676	724	152	627	696	734	152	648	716	744	203	668	737	803
20	457	<19	63.4	114	44.4														
24	305	<19	47.9	38	43.1	152	709	777	826	152	729	798	836	152	749	818	846	203	770	838	904
24	457	<19	76.1	114	53.3														
26	305	<19	55.9	38	50.3	152	759	828	876	152	780	848	886	152	800	869	897	203	820	889	955
26	457	<19	88.8	114	62.2														
28	305	<19	63.9	38	57.5	152	810	879	927	152	831	899	937	152	851	919	947	203	871	940	1006
28	457	<19	101.5	114	71.1														
30	305	<19	71.9	38	64.7	152	861	930	978	152	881	950	988	152	902	970	998	203	922	991	1057
30	457	<19	114.2	114	80														
32	305	<19	84.6	38	76.1	178	912	980	1054	152	932	1001	1039	152	953	1021	1049	203	973	1041	1107
32	457	<19	118.4	114	82.9														
34	305	<19	93.1	38	83.8	203	963	1031	1130	152	983	1052	1090	152	1003	1072	1100	203	1024	1092	1158
34	457	<19	133.8	114	93.6														
36	305	<19	101.5	38	91.4	152	1013	1082	1130	152	1034	1102	1140	152	1054	1123	1151	203	1074	1143	1209
36	457	<19	149.1	114	104.4														
42	305	<19	105.8	38	95.2	152	1166	1234	1283	152	1186	1255	1293	152	1207	1275	1303	203	1227	1295	1361
42	457	<19	158.6	114	111														

Resting

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)
CSCW -	8 x	30 -	100 -	300 -	23

Cold **S**lide **C**ryo**W**rap

METRIC

PIPE SIZE (in)	LENGTH (mm)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	INSULATION THICKNESS													
						90 mm				100 mm				110 mm				120 mm			
						BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1	152	<19	2.8	19	2.8														
1	305	<19	8.4	38	6.7	152	213	282	290	152	234	302	300	203	254	323	358	203	274	343	368
1	457	<19	12.1	114	6														
1.5	152	<19	2.8	19	2.8														
1.5	305	<19	8.4	38	6.7	152	229	297	302	152	249	318	312	203	269	338	373	203	287	356	384
1.5	457	<19	12.1	114	6														
2	152	<19	2.8	19	2.8														
2	305	<19	8.4	38	6.7	152	241	310	315	152	259	328	325	203	279	348	386	203	300	368	396
2	457	<19	12.1	114	6														
3	152	<19	6.5	19	6.5														
3	305	<19	17.7	38	14.1	152	269	338	343	152	290	358	353	203	310	378	414	203	328	396	424
3	457	<19	25.1	114	12.6														
4	152	<19	6.5	19	6.5														
4	305	<19	17	38	14.5	152	295	363	368	152	315	384	378	203	335	404	439	203	353	422	450
4	457	<19	24.1	114	12														
6	152	<19	6.5	19	6.5														
6	305	<19	17	38	15.3	152	348	417	424	152	368	437	434	203	389	457	495	203	409	478	503
6	457	<19	24.1	114	16.9														
8	152	<19	10	19	10														
8	305	<19	22	38	19.8	152	399	467	475	152	419	488	485	203	439	508	546	203	460	528	554
8	457	<19	34	114	23.8														
10	152	<19	10	19	10														
10	305	<19	22	38	19.8	152	452	521	528	152	472	541	538	203	493	561	599	203	513	582	610
10	457	<19	34	114	23.8														
12	152	<19	18	19	18														
12	305	<19	38	38	34.2	152	503	572	579	152	523	592	589	203	544	612	650	203	564	632	660
12	457	<19	58	114	40.6														
14	152	<19	17	19	17														
14	305	<19	38	38	34.2	152	536	605	610	152	556	625	620	203	577	645	681	203	594	663	691
14	457	<19	58	114	40.6														
16	305	<19	38	38	34.2	203	587	655	711	203	607	676	721	203	627	696	732	203	645	714	742
16	457	<19	58	114	40.6														
18	305	<19	39.9	38	35.9	203	638	706	762	203	658	726	772	203	678	747	782	203	696	765	792
18	457	<19	63.4	114	44.4														
20	305	<19	39.9	38	35.9	203	688	757	813	203	709	777	823	203	729	798	833	203	747	815	843
20	457	<19	63.4	114	44.4														
24	305	<19	47.9	38	43.1	203	790	859	914	203	810	879	925	203	831	899	935	203	848	917	945
24	457	<19	76.1	114	53.3														
26	305	<19	55.9	38	50.3	203	841	909	965	203	861	930	975	203	881	950	986	203	899	968	996
26	457	<19	88.8	114	62.2														
28	305	<19	63.9	38	57.5	203	892	960	1016	203	912	980	1026	203	932	1001	1036	203	950	1019	1046
28	457	<19	101.5	114	71.1														
30	305	<19	71.9	38	64.7	203	942	1011	1067	203	963	1031	1077	203	983	1052	1087	203	1001	1069	1097
30	457	<19	114.2	114	80														
32	305	<19	84.6	38	76.1	203	993	1062	1118	203	1013	1082	1128	203	1034	1102	1138	203	1052	1120	1148
32	457	<19	118.4	114	82.9														
34	305	<19	93.1	38	83.8	203	1044	1113	1168	203	1064	1133	1179	203	1085	1153	1189	203	1102	1171	1199
34	457	<19	133.8	114	93.6														
36	305	<19	101.5	38	91.4	203	1095	1163	1219	203	1115	1184	1229	203	1135	1204	1240	203	1153	1222	1250
36	457	<19	149.1	114	104.4														
42	305	<19	105.8	38	95.2	203	1247	1316	1372	203	1267	1336	1382	203	1288	1356	1392	203	1306	1374	1402
42	457	<19	158.6	114	111														

High Lateral Travel

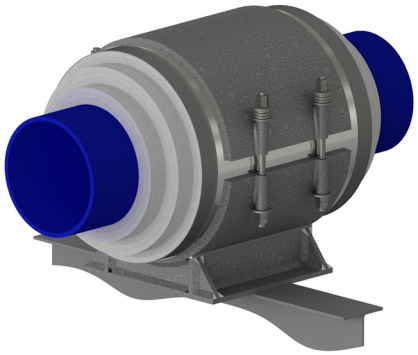
Patent No. US10,252,490 and US11,014,333
(See page 113 for international patents)

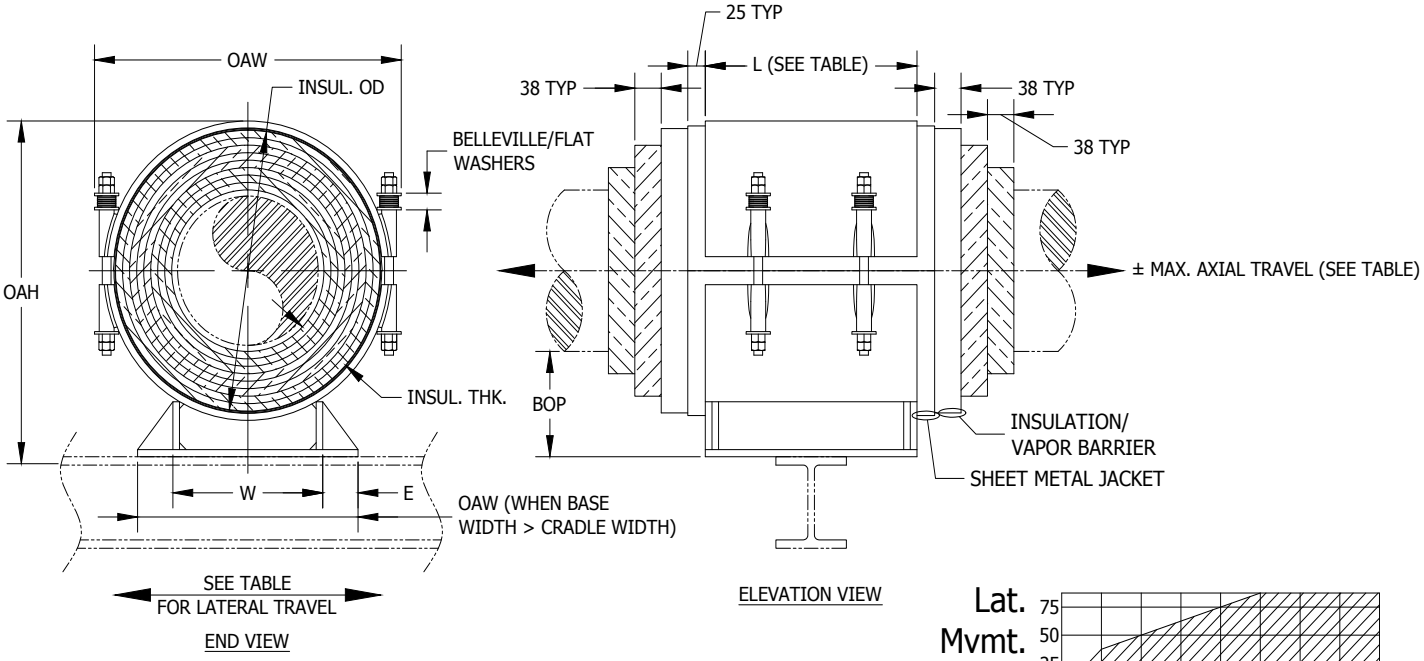
METRIC

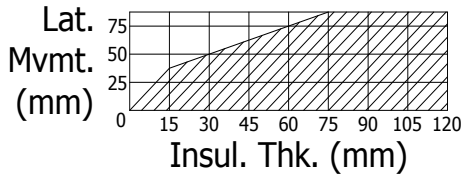
DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)
CS(H)CW	- 8 x	30 -	100 -	300 -	23

Cold **S**lide (**H**igh Lateral Travel) **C**ryo**W**rap







NOTES:
1) Slide plates required for 26" NPS & up.

*W - Dimension is calculated by multiplying (INSULATION OD*0.55), when base is not a WT member.

Applications & Features:

- Temperature range to -270 Deg C to 90 Deg C
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel on sizes 26" and larger
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RCS-750
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral (3 mm) & Axial (See Table) Travel

** Information presented on this page subject to change without notice.

High Lateral Travel

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)
CS(H)CW	- 8 x	30	- 100	- 300	- 23

Cold **S**lide (**H**igh Lateral Travel) **C**ryo**W**rap

METRIC

Notes:
1) Dimensions in millimeters unless noted
2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE (in)	LENGTH (mm)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	INSULATION THICKNESS															
						10 mm				20 mm				30 mm				40 mm			
						BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1	152	<19	2.8	19	2.8																
1	305	<19	8.4	38	6.7	102	53	122	157	102	74	142	168	102	94	163	178	102	114	183	188
1	457	<19	12.1	114	6																
1.5	152	<19	2.8	19	2.8																
1.5	305	<19	8.4	38	6.7	102	69	137	173	102	89	157	183	102	109	178	193	102	127	196	203
1.5	457	<19	12.1	114	6																
2	152	<19	2.8	19	2.8																
2	305	<19	8.4	38	6.7	102	81	150	185	102	99	168	196	102	119	188	206	102	140	208	213
2	457	<19	12.1	114	6																
3	152	<19	6.5	19	6.5																
3	305	<19	17.7	38	14.1	102	109	178	213	102	130	198	224	102	150	218	234	102	168	236	244
3	457	<19	25.1	114	12.6																
4	152	<19	6.5	19	6.5																
4	305	<19	17	38	14.5	102	135	203	239	102	155	224	249	102	175	244	259	102	193	262	269
4	457	<19	24.1	114	12																
6	152	<19	6.5	19	6.5																
6	305	<19	17	38	15.3	102	188	257	292	102	208	277	302	102	229	297	312	102	249	318	323
6	457	<19	24.1	114	16.9																
8	152	<19	10	19	10																
8	305	<19	22	38	19.8	102	239	307	343	102	259	328	353	102	279	348	363	102	300	368	373
8	457	<19	34	114	23.8																
10	152	<19	10	19	10																
10	305	<19	22	38	19.8	102	292	361	396	102	312	381	406	102	333	401	417	102	353	422	427
10	457	<19	34	114	23.8																
12	152	<19	18	19	18																
12	305	<19	38	38	34.2	102	343	411	447	102	363	432	457	102	384	452	467	102	404	472	478
12	457	<19	58	114	40.6																
14	152	<19	17	19	17																
14	305	<19	38	38	34.2	102	376	445	480	102	396	465	490	102	417	485	500	102	434	503	511
14	457	<19	58	114	40.6																
16	305	<19	38	38	34.2	102	427	495	531	102	447	516	541	102	467	536	551	102	485	554	561
16	457	<19	58	114	40.6																
18	305	<19	39.9	38	35.9	102	478	546	582	102	498	566	592	102	518	587	602	102	536	605	612
18	457	<19	63.4	114	44.4																
20	305	<19	39.9	38	35.9	102	528	597	632	102	549	617	643	102	569	638	653	102	587	655	663
20	457	<19	63.4	114	44.4																
24	305	<19	47.9	38	43.1	102	630	699	734	102	650	719	744	102	671	739	754	102	688	757	765
24	457	<19	76.1	114	53.3																
26	305	<19	55.9	38	50.3	102	681	749	785	102	701	770	795	102	721	790	805	152	739	808	866
26	457	<19	88.8	114	62.2																
28	305	<19	63.9	38	57.5	102	732	800	836	102	752	820	846	102	772	841	856	152	790	859	917
28	457	<19	101.5	114	71.1																
30	305	<19	71.9	38	64.7	102	782	851	886	102	803	871	897	102	823	892	907	152	841	909	968
30	457	<19	114.2	114	80																
32	305	<19	84.6	38	76.1	102	833	902	937	102	853	922	947	102	874	942	958	152	892	960	1019
32	457	<19	118.4	114	82.9																
34	305	<19	93.1	38	83.8	102	884	953	988	102	904	973	998	102	925	993	1008	152	942	1011	1069
34	457	<19	133.8	114	93.6																
36	305	<19	101.5	38	91.4	102	935	1003	1039	102	955	1024	1049	102	975	1044	1059	152	993	1062	1120
36	457	<19	149.1	114	104.4																
42	305	<19	105.8	38	95.2	102	1087	1156	1191	102	1107	1176	1201	102	1128	1196	1212	152	1146	1214	1273
42	457	<19	158.6	114	111																

High Lateral Travel

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)
CS(H)CW	- 8 x	30	- 100	- 300	- 23

Cold **S**lide (**H**igh Lateral Travel) **C**ryo**W**rap

METRIC

PIPE SIZE (in)	LENGTH (mm)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	INSULATION THICKNESS													
						50 mm				60 mm				70 mm				80 mm			
						BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1	152	<19	2.8	19	2.8														
1	305	<19	8.4	38	6.7	102	135	203	198	102	152	221	208	152	173	241	269	152	193	262	279
1	457	<19	12.1	114	6														
1.5	152	<19	2.8	19	2.8														
1.5	305	<19	8.4	38	6.7	102	147	216	213	102	168	236	224	152	188	257	284	152	208	277	292
1.5	457	<19	12.1	114	6														
2	152	<19	2.8	19	2.8														
2	305	<19	8.4	38	6.7	102	160	229	224	102	180	249	234	152	201	269	295	152	221	290	305
2	457	<19	12.1	114	6														
3	152	<19	6.5	19	6.5														
3	305	<19	17.7	38	14.1	102	188	257	254	102	208	277	264	152	229	297	325	152	249	318	333
3	457	<19	25.1	114	12.6														
4	152	<19	6.5	19	6.5														
4	305	<19	17	38	14.5	102	213	282	279	102	234	302	290	152	254	323	351	152	274	343	358
4	457	<19	24.1	114	12														
6	152	<19	6.5	19	6.5														
6	305	<19	17	38	15.3	102	269	338	333	102	287	356	343	152	307	376	404	152	328	396	414
6	457	<19	24.1	114	16.9														
8	152	<19	10	19	10														
8	305	<19	22	38	19.8	102	320	389	384	152	338	406	445	152	358	427	455	152	378	447	465
8	457	<19	34	114	23.8														
10	152	<19	10	19	10														
10	305	<19	22	38	19.8	102	373	442	437	152	394	462	498	152	414	483	508	152	432	500	518
10	457	<19	34	114	23.8														
12	152	<19	18	19	18														
12	305	<19	38	38	34.2	102	424	493	488	152	445	513	549	152	465	533	559	152	483	551	569
12	457	<19	58	114	40.6														
14	152	<19	17	19	17														
14	305	<19	38	38	34.2	102	455	523	521	152	475	544	582	152	495	564	592	152	516	584	599
14	457	<19	58	114	40.6														
16	305	<19	38	38	34.2	152	505	574	622	152	526	594	632	152	546	615	643	203	566	635	701
16	457	<19	58	114	40.6														
18	305	<19	39.9	38	35.9	152	556	625	673	152	577	645	683	152	597	665	693	203	617	686	752
18	457	<19	63.4	114	44.4														
20	305	<19	39.9	38	35.9	152	607	676	724	152	627	696	734	152	648	716	744	203	668	737	803
20	457	<19	63.4	114	44.4														
24	305	<19	47.9	38	43.1	152	709	777	826	152	729	798	836	152	749	818	846	203	770	838	904
24	457	<19	76.1	114	53.3														
26	305	<19	55.9	38	50.3	152	759	828	876	152	780	848	886	152	800	869	897	203	820	889	955
26	457	<19	88.8	114	62.2														
28	305	<19	63.9	38	57.5	152	810	879	927	152	831	899	937	152	851	919	947	203	871	940	1006
28	457	<19	101.5	114	71.1														
30	305	<19	71.9	38	64.7	152	861	930	978	152	881	950	988	152	902	970	998	203	922	991	1057
30	457	<19	114.2	114	80														
32	305	<19	84.6	38	76.1	178	912	980	1054	152	932	1001	1039	152	953	1021	1049	203	973	1041	1107
32	457	<19	118.4	114	82.9														
34	305	<19	93.1	38	83.8	203	963	1031	1130	152	983	1052	1090	152	1003	1072	1100	203	1024	1092	1158
34	457	<19	133.8	114	93.6														
36	305	<19	101.5	38	91.4	152	1013	1082	1130	152	1034	1102	1140	152	1054	1123	1151	203	1074	1143	1209
36	457	<19	149.1	114	104.4														
42	305	<19	105.8	38	95.2	152	1166	1234	1283	152	1186	1255	1293	152	1207	1275	1303	203	1227	1295	1361
42	457	<19	158.6	114	111														

High Lateral Travel

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)
CS(H)CW	- 8 x	30	- 100	- 300	- 23

Cold **S**lide (**H**igh Lateral Travel) **C**ryo**W**rap

METRIC

PIPE SIZE (in)	LENGTH (mm)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	INSULATION THICKNESS															
						90 mm				100 mm				110 mm				120 mm			
						BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1	152	<19	2.8	19	2.8																
1	305	<19	8.4	38	6.7	152	213	282	290	152	234	302	300	203	254	323	358	203	274	343	368
1	457	<19	12.1	114	6																
1.5	152	<19	2.8	19	2.8																
1.5	305	<19	8.4	38	6.7	152	229	297	302	152	249	318	312	203	269	338	373	203	287	356	384
1.5	457	<19	12.1	114	6																
2	152	<19	2.8	19	2.8																
2	305	<19	8.4	38	6.7	152	241	310	315	152	259	328	325	203	279	348	386	203	300	368	396
2	457	<19	12.1	114	6																
3	152	<19	6.5	19	6.5																
3	305	<19	17.7	38	14.1	152	269	338	343	152	290	358	353	203	310	378	414	203	328	396	424
3	457	<19	25.1	114	12.6																
4	152	<19	6.5	19	6.5																
4	305	<19	17	38	14.5	152	295	363	368	152	315	384	378	203	335	404	439	203	353	422	450
4	457	<19	24.1	114	12																
6	152	<19	6.5	19	6.5																
6	305	<19	17	38	15.3	152	348	417	424	152	368	437	434	203	389	457	495	203	409	478	503
6	457	<19	24.1	114	16.9																
8	152	<19	10	19	10																
8	305	<19	22	38	19.8	152	399	467	475	152	419	488	485	203	439	508	546	203	460	528	554
8	457	<19	34	114	23.8																
10	152	<19	10	19	10																
10	305	<19	22	38	19.8	152	452	521	528	152	472	541	538	203	493	561	599	203	513	582	610
10	457	<19	34	114	23.8																
12	152	<19	18	19	18																
12	305	<19	38	38	34.2	152	503	572	579	152	523	592	589	203	544	612	650	203	564	632	660
12	457	<19	58	114	40.6																
14	152	<19	17	19	17																
14	305	<19	38	38	34.2	152	536	605	610	152	556	625	620	203	577	645	681	203	594	663	691
14	457	<19	58	114	40.6																
16	305	<19	38	38	34.2	203	587	655	711	203	607	676	721	203	627	696	732	203	645	714	742
16	457	<19	58	114	40.6																
18	305	<19	39.9	38	35.9	203	638	706	762	203	658	726	772	203	678	747	782	203	696	765	792
18	457	<19	63.4	114	44.4																
20	305	<19	39.9	38	35.9	203	688	757	813	203	709	777	823	203	729	798	833	203	747	815	843
20	457	<19	63.4	114	44.4																
24	305	<19	47.9	38	43.1	203	790	859	914	203	810	879	925	203	831	899	935	203	848	917	945
24	457	<19	76.1	114	53.3																
26	305	<19	55.9	38	50.3	203	841	909	965	203	861	930	975	203	881	950	986	203	899	968	996
26	457	<19	88.8	114	62.2																
28	305	<19	63.9	38	57.5	203	892	960	1016	203	912	980	1026	203	932	1001	1036	203	950	1019	1046
28	457	<19	101.5	114	71.1																
30	305	<19	71.9	38	64.7	203	942	1011	1067	203	963	1031	1077	203	983	1052	1087	203	1001	1069	1097
30	457	<19	114.2	114	80																
32	305	<19	84.6	38	76.1	203	993	1062	1118	203	1013	1082	1128	203	1034	1102	1138	203	1052	1120	1148
32	457	<19	118.4	114	82.9																
34	305	<19	93.1	38	83.8	203	1044	1113	1168	203	1064	1133	1179	203	1085	1153	1189	203	1102	1171	1199
34	457	<19	133.8	114	93.6																
36	305	<19	101.5	38	91.4	203	1095	1163	1219	203	1115	1184	1229	203	1135	1204	1240	203	1153	1222	1250
36	457	<19	149.1	114	104.4																
42	305	<19	105.8	38	95.2	203	1247	1316	1372	203	1267	1336	1382	203	1288	1356	1392	203	1306	1374	1402
42	457	<19	158.6	114	111																

Vertically Restrained Guided

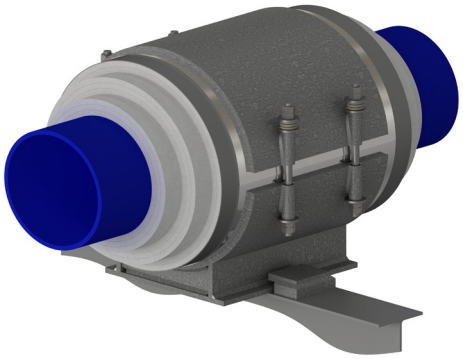
METRIC

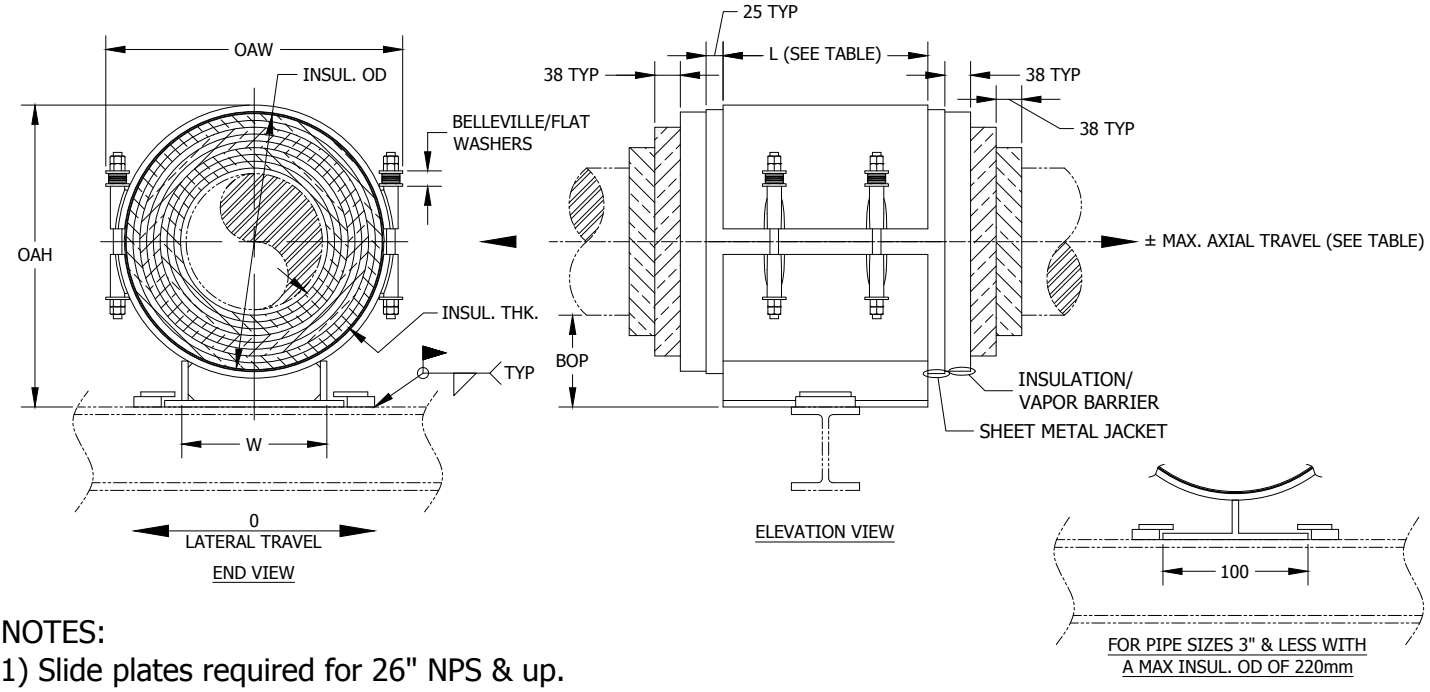
DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)	Lateral Load (kN)
CGCW -	8 x	30 -	100 -	300 -	19 -	6.8

Cold **G**uide **C**ryo**W**rap

Patent No. US10,252,490 and US11,014,333
(See page 113 for international patents)





NOTES:
1) Slide plates required for 26" NPS & up.

*W - Dimension is calculated by multiplying (INSULATION OD*0.65).

Applications & Features:

- Temperature range to -270 Deg C to 90 Deg C
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel on sizes 26" and larger
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RCS-750
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral Load (As Shown in Tables or Custom)
- Lateral (3 mm) & Axial (See Table) Travel

** Information presented on this page subject to change without notice.

Vertically Restrained Guided

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)	Lateral Load (kN)
CGCW	- 8 x	30	- 100	- 300	- 19	- 6.8

Cold **G**uide **C**ryo**W**rap

Notes:
1) Dimensions in millimeters unless noted
2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE (in)	LENGTH (mm)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	LAT. LOAD (kN)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	LAT. LOAD (kN)	INSULATION THICKNESS															
								10 mm				20 mm				30 mm				40 mm			
								BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1	152	<19	3	1	19	3	1																
1	305	<19	8	3	38	6	2	102	53	122	157	102	74	142	168	102	94	163	178	102	114	183	188
1	457	<19	11	4	114	6	2																
1.5	152	<19	3	1	19	3	1																
1.5	305	<19	8	3	38	6	2	102	69	137	173	102	89	157	183	102	109	178	193	102	127	196	203
1.5	457	<19	11	4	114	6	2																
2	152	<19	3	1	19	3	1																
2	305	<19	8	3	38	6	2	102	81	150	185	102	99	168	196	102	119	188	206	102	140	208	213
2	457	<19	11	4	114	6	2																
3	152	<19	6	2	19	6	2																
3	305	<19	17	6	38	13	5	102	109	178	213	102	130	198	224	102	150	218	234	102	168	236	244
3	457	<19	24	8	114	12	4																
4	152	<19	6	2	19	6	2																
4	305	<19	16	6	38	14	5	102	135	203	239	102	155	224	249	102	175	244	259	102	193	262	269
4	457	<19	23	8	114	11	4																
6	152	<19	6	2	19	6	2																
6	305	<19	16	6	38	15	5	102	188	257	292	102	208	277	302	102	229	297	312	102	249	318	323
6	457	<19	23	8	114	16	6																
8	152	<19	9	3	19	9	3																
8	305	<19	21	7	38	19	7	102	239	307	343	102	259	328	353	102	279	348	363	102	300	368	373
8	457	<19	32	11	114	23	8																
10	152	<19	9	3	19	9	3																
10	305	<19	21	7	38	19	7	102	292	361	396	102	312	381	406	102	333	401	417	102	353	422	427
10	457	<19	32	11	114	23	8																
12	152	<19	17	6	19	17	6																
12	305	<19	36	13	38	32	11	102	343	411	447	102	363	432	457	102	384	452	467	102	404	472	478
12	457	<19	55	19	114	38	13																
14	152	<19	16	6	19	16	6																
14	305	<19	36	13	38	32	11	102	376	445	480	102	396	465	490	102	417	485	500	102	434	503	511
14	457	<19	55	19	114	38	13																
16	305	<19	36	13	38	32	11	102	427	495	531	102	447	516	541	102	467	536	551	102	485	554	561
16	457	<19	55	19	114	38	13																
18	305	<19	38	13	38	34	12	102	478	546	582	102	498	566	592	102	518	587	602	102	536	605	612
18	457	<19	60	21	114	42	15																
20	305	<19	38	13	38	34	12	102	528	597	632	102	549	617	643	102	569	638	653	102	587	655	663
20	457	<19	60	21	114	42	15																
24	305	<19	45	16	38	41	14	102	630	699	734	102	650	719	744	102	671	739	754	102	688	757	765
24	457	<19	72	25	114	50	18																
26	305	<19	53	19	38	48	17	102	681	749	785	102	701	770	795	102	721	790	805	152	739	808	866
26	457	<19	84	29	114	59	21																
28	305	<19	60	21	38	54	19	102	732	800	836	102	752	820	846	102	772	841	856	152	790	859	917
28	457	<19	96	34	114	67	24																
30	305	<19	68	24	38	61	21	102	782	851	886	102	803	871	897	102	823	892	907	152	841	909	968
30	457	<19	108	38	114	76	26																
32	305	<19	80	28	38	72	25	102	833	902	937	102	853	922	947	102	874	942	958	152	892	960	1019
32	457	<19	112	39	114	78	27																
34	305	<19	88	31	38	79	28	102	884	953	988	102	904	973	998	102	925	993	1008	152	942	1011	1069
34	457	<19	126	44	114	88	31																
36	305	<19	96	34	38	86	30	102	935	1003	1039	102	955	1024	1049	102	975	1044	1059	152	993	1062	1120
36	457	<19	141	49	114	99	35																
42	305	<19	100	35	38	90	31	102	1087	1156	1191	102	1107	1176	1201	102	1128	1196	1212	152	1146	1214	1273
42	457	<19	150	52	114	105	37																

Vertically Restrained Guided

METRIC

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)	Lateral Load (kN)
CGCW	- 8 x	30	- 100	- 300	- 19	- 6.8

Cold **G**uide **C**ryo**W**rap

PIPE SIZE (in)	LENGTH (mm)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	LAT. LOAD (kN)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	LAT. LOAD (kN)	INSULATION THICKNESS															
								50 mm				60 mm				70 mm				80 mm			
								BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1	152	<19	3	1	19	3	1	102	135	203	198	102	152	221	208	152	173	241	269	152	193	262	279
1	305	<19	8	3	38	6	2																
1	457	<19	11	4	114	6	2																
1.5	152	<19	3	1	19	3	1	102	147	216	213	102	168	236	224	152	188	257	284	152	208	277	292
1.5	305	<19	8	3	38	6	2																
1.5	457	<19	11	4	114	6	2																
2	152	<19	3	1	19	3	1	102	160	229	224	102	180	249	234	152	201	269	295	152	221	290	305
2	305	<19	8	3	38	6	2																
2	457	<19	11	4	114	6	2																
3	152	<19	6	2	19	6	2	102	188	257	254	102	208	277	264	152	229	297	325	152	249	318	333
3	305	<19	17	6	38	13	5																
3	457	<19	24	8	114	12	4																
4	152	<19	6	2	19	6	2	102	213	282	279	102	234	302	290	152	254	323	351	152	274	343	358
4	305	<19	16	6	38	14	5																
4	457	<19	23	8	114	11	4																
6	152	<19	6	2	19	6	2	102	269	338	333	102	287	356	343	152	307	376	404	152	328	396	414
6	305	<19	16	6	38	15	5																
6	457	<19	23	8	114	16	6																
8	152	<19	9	3	19	9	3	102	320	389	384	152	338	406	445	152	358	427	455	152	378	447	465
8	305	<19	21	7	38	19	7																
8	457	<19	32	11	114	23	8																
10	152	<19	9	3	19	9	3	102	373	442	437	152	394	462	498	152	414	483	508	152	432	500	518
10	305	<19	21	7	38	19	7																
10	457	<19	32	11	114	23	8																
12	152	<19	17	6	19	17	6	102	424	493	488	152	445	513	549	152	465	533	559	152	483	551	569
12	305	<19	36	13	38	32	11																
12	457	<19	55	19	114	38	13																
14	152	<19	16	6	19	16	6	102	455	523	521	152	475	544	582	152	495	564	592	152	516	584	599
14	305	<19	36	13	38	32	11																
14	457	<19	55	19	114	38	13																
16	305	<19	36	13	38	32	11	152	505	574	622	152	526	594	632	152	546	615	643	203	566	635	701
16	457	<19	55	19	114	38	13																
18	305	<19	38	13	38	34	12	152	556	625	673	152	577	645	683	152	597	665	693	203	617	686	752
18	457	<19	60	21	114	42	15																
20	305	<19	38	13	38	34	12	152	607	676	724	152	627	696	734	152	648	716	744	203	668	737	803
20	457	<19	60	21	114	42	15																
24	305	<19	45	16	38	41	14	152	709	777	826	152	729	798	836	152	749	818	846	203	770	838	904
24	457	<19	72	25	114	50	18																
26	305	<19	53	19	38	48	17	152	759	828	876	152	780	848	886	152	800	869	897	203	820	889	955
26	457	<19	84	29	114	59	21																
28	305	<19	60	21	38	54	19	152	810	879	927	152	831	899	937	152	851	919	947	203	871	940	1006
28	457	<19	96	34	114	67	24																
30	305	<19	68	24	38	61	21	152	861	930	978	152	881	950	988	152	902	970	998	203	922	991	1057
30	457	<19	108	38	114	76	26																
32	305	<19	80	28	38	72	25	178	912	980	1054	152	932	1001	1039	152	953	1021	1049	203	973	1041	1107
32	457	<19	112	39	114	78	27																
34	305	<19	88	31	38	79	28	203	963	1031	1130	152	983	1052	1090	152	1003	1072	1100	203	1024	1092	1158
34	457	<19	126	44	114	88	31																
36	305	<19	96	34	38	86	30	152	1013	1082	1130	152	1034	1102	1140	152	1054	1123	1151	203	1074	1143	1209
36	457	<19	141	49	114	99	35																
42	305	<19	100	35	38	90	31	152	1166	1234	1283	152	1186	1255	1293	152	1207	1275	1303	203	1227	1295	1361
42	457	<19	150	52	114	105	37																

Vertically Restrained Guided

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)	Lateral Load (kN)
CGCW	- 8 x	30	- 100	- 300	- 19	- 6.8

Cold **G**uide **C**ryo**W**rap

M E T R I C

PIPE SIZE (in)	LENGTH (mm)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	LAT. LOAD (kN)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	LAT. LOAD (kN)	INSULATION THICKNESS															
								90 mm				100 mm				110 mm				120 mm			
								BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1	152	<19	3	1	19	3	1																
1	305	<19	8	3	38	6	2	152	213	282	290	152	234	302	300	203	254	323	358	203	274	343	368
1	457	<19	11	4	114	6	2																
1.5	152	<19	3	1	19	3	1																
1.5	305	<19	8	3	38	6	2	152	229	297	302	152	249	318	312	203	269	338	373	203	287	356	384
1.5	457	<19	11	4	114	6	2																
2	152	<19	3	1	19	3	1																
2	305	<19	8	3	38	6	2	152	241	310	315	152	259	328	325	203	279	348	386	203	300	368	396
2	457	<19	11	4	114	6	2																
3	152	<19	6	2	19	6	2																
3	305	<19	17	6	38	13	5	152	269	338	343	152	290	358	353	203	310	378	414	203	328	396	424
3	457	<19	24	8	114	12	4																
4	152	<19	6	2	19	6	2																
4	305	<19	16	6	38	14	5	152	295	363	368	152	315	384	378	203	335	404	439	203	353	422	450
4	457	<19	23	8	114	11	4																
6	152	<19	6	2	19	6	2																
6	305	<19	16	6	38	15	5	152	348	417	424	152	368	437	434	203	389	457	495	203	409	478	503
6	457	<19	23	8	114	16	6																
8	152	<19	9	3	19	9	3																
8	305	<19	21	7	38	19	7	152	399	467	475	152	419	488	485	203	439	508	546	203	460	528	554
8	457	<19	32	11	114	23	8																
10	152	<19	9	3	19	9	3																
10	305	<19	21	7	38	19	7	152	452	521	528	152	472	541	538	203	493	561	599	203	513	582	610
10	457	<19	32	11	114	23	8																
12	152	<19	17	6	19	17	6																
12	305	<19	36	13	38	32	11	152	503	572	579	152	523	592	589	203	544	612	650	203	564	632	660
12	457	<19	55	19	114	38	13																
14	152	<19	16	6	19	16	6																
14	305	<19	36	13	38	32	11	152	536	605	610	152	556	625	620	203	577	645	681	203	594	663	691
14	457	<19	55	19	114	38	13																
16	305	<19	36	13	38	32	11	203	587	655	711	203	607	676	721	203	627	696	732	203	645	714	742
16	457	<19	55	19	114	38	13																
18	305	<19	38	13	38	34	12	203	638	706	762	203	658	726	772	203	678	747	782	203	696	765	792
18	457	<19	60	21	114	42	15																
20	305	<19	38	13	38	34	12	203	688	757	813	203	709	777	823	203	729	798	833	203	747	815	843
20	457	<19	60	21	114	42	15																
24	305	<19	45	16	38	41	14	203	790	859	914	203	810	879	925	203	831	899	935	203	848	917	945
24	457	<19	72	25	114	50	18																
26	305	<19	53	19	38	48	17	203	841	909	965	203	861	930	975	203	881	950	986	203	899	968	996
26	457	<19	84	29	114	59	21																
28	305	<19	60	21	38	54	19	203	892	960	1016	203	912	980	1026	203	932	1001	1036	203	950	1019	1046
28	457	<19	96	34	114	67	24																
30	305	<19	68	24	38	61	21	203	942	1011	1067	203	963	1031	1077	203	983	1052	1087	203	1001	1069	1097
30	457	<19	108	38	114	76	26																
32	305	<19	80	28	38	72	25	203	993	1062	1118	203	1013	1082	1128	203	1034	1102	1138	203	1052	1120	1148
32	457	<19	112	39	114	78	27																
34	305	<19	88	31	38	79	28	203	1044	1113	1168	203	1064	1133	1179	203	1085	1153	1189	203	1102	1171	1199
34	457	<19	126	44	114	88	31																
36	305	<19	96	34	38	86	30	203	1095	1163	1219	203	1115	1184	1229	203	1135	1204	1240	203	1153	1222	1250
36	457	<19	141	49	114	99	35																
42	305	<19	100	35	38	90	31	203	1247	1316	1372	203	1267	1336	1382	203	1288	1356	1392	203	1306	1374	1402
42	457	<19	150	52	114	105	37																

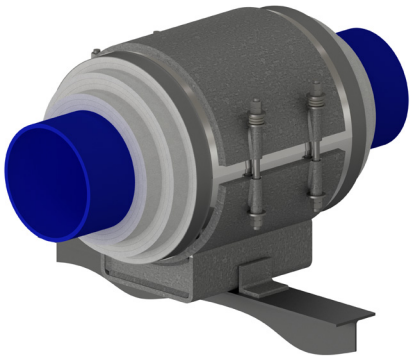
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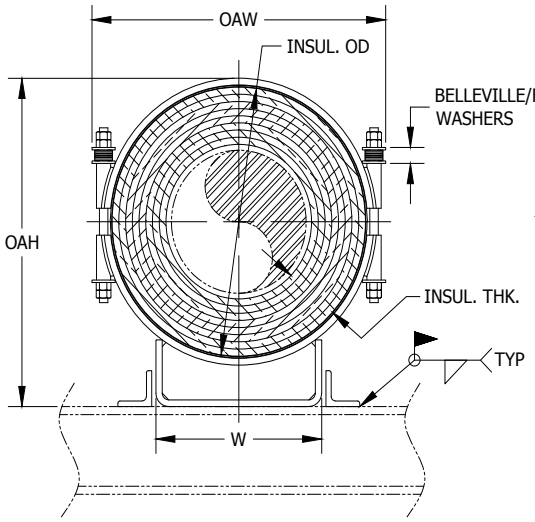
Patent No. US10,252,490 and US11,014,333
(See page 113 for international patents)

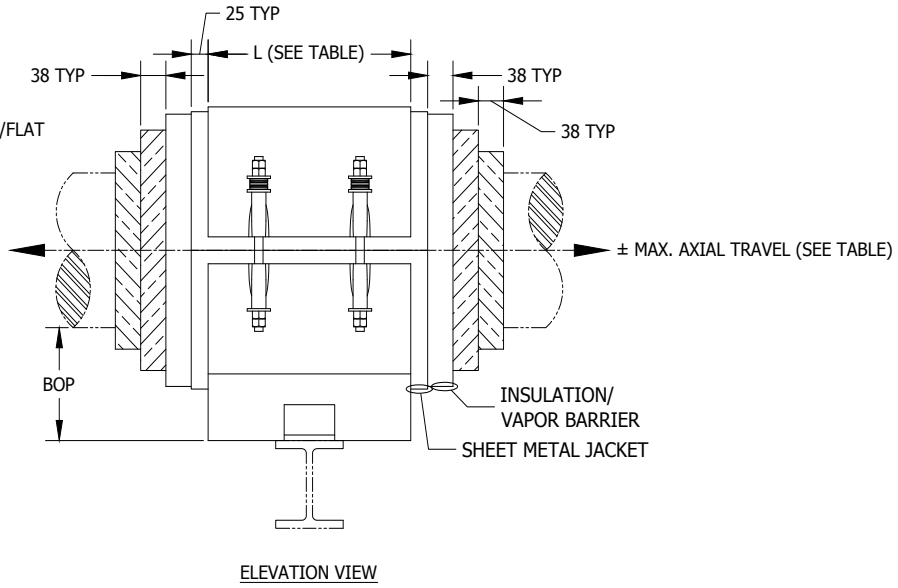
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DESIGNATION EXAMPLE	Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)	Lateral Load (kN)
	CG(L)CW	- 8 x	30 -	100 -	300 -	19 -	9.7

Cold **G**uide (**L**aterally Restrained) **C**ryo**W**rap







NOTES:
1) Slide plates required for 26" NPS & up.

*W - Dimension is calculated by multiplying (INSULATION OD*0.65).

Applications & Features:

- Temperature range to -270 Deg C to 90 Deg C
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel on sizes 26" and larger
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RCS-750
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral Load (As Shown in Tables or Custom)
- Lateral (3 mm) & Axial (See Table) Travel

* See last page of this document for new designation model number construction

** Information presented on this page subject to change without notice.

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DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)	Lateral Load (kN)
CG(L)CW	- 8 x	30	- 100	- 300	- 19	- 9.7

Cold **G**uide (**L**aterally Restrained) **C**ryo**W**rap

Notes:
1) Dimensions in millimeters unless noted
2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE (in)	LENGTH (mm)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	LAT. LOAD (kN)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	LAT. LOAD (kN)	INSULATION THICKNESS															
								10 mm				20 mm				30 mm				40 mm			
								BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1	152	<19	3	1	19	3	1																
1	305	<19	8	3	38	6	2	102	53	122	157	102	74	142	168	102	94	163	178	102	114	183	188
1	457	<19	11	4	114	6	2																
1.5	152	<19	3	1	19	3	1																
1.5	305	<19	8	3	38	6	2	102	69	137	173	102	89	157	183	102	109	178	193	102	127	196	203
1.5	457	<19	11	4	114	6	2																
2	152	<19	3	1	19	3	1																
2	305	<19	8	3	38	6	2	102	81	150	185	102	99	168	196	102	119	188	206	102	140	208	213
2	457	<19	11	4	114	6	2																
3	152	<19	6	2	19	6	2																
3	305	<19	17	6	38	13	5	102	109	178	213	102	130	198	224	102	150	218	234	102	168	236	244
3	457	<19	24	8	114	12	4																
4	152	<19	6	2	19	6	2																
4	305	<19	16	6	38	14	5	102	135	203	239	102	155	224	249	102	175	244	259	102	193	262	269
4	457	<19	23	8	114	11	4																
6	152	<19	6	2	19	6	2																
6	305	<19	16	6	38	15	5	102	188	257	292	102	208	277	302	102	229	297	312	102	249	318	323
6	457	<19	23	8	114	16	6																
8	152	<19	9	3	19	9	3																
8	305	<19	21	7	38	19	7	102	239	307	343	102	259	328	353	102	279	348	363	102	300	368	373
8	457	<19	32	11	114	23	8																
10	152	<19	9	3	19	9	3																
10	305	<19	21	7	38	19	7	102	292	361	396	102	312	381	406	102	333	401	417	102	353	422	427
10	457	<19	32	11	114	23	8																
12	152	<19	17	6	19	17	6																
12	305	<19	36	13	38	32	11	102	343	411	447	102	363	432	457	102	384	452	467	102	404	472	478
12	457	<19	55	19	114	38	13																
14	152	<19	16	6	19	16	6																
14	305	<19	36	13	38	32	11	102	376	445	480	102	396	465	490	102	417	485	500	102	434	503	511
14	457	<19	55	19	114	38	13																
16	305	<19	36	13	38	32	11	102	427	495	531	102	447	516	541	102	467	536	551	102	485	554	561
16	457	<19	55	19	114	38	13																
18	305	<19	38	13	38	34	12	102	478	546	582	102	498	566	592	102	518	587	602	102	536	605	612
18	457	<19	60	21	114	42	15																
20	305	<19	38	13	38	34	12	102	528	597	632	102	549	617	643	102	569	638	653	102	587	655	663
20	457	<19	60	21	114	42	15																
24	305	<19	45	16	38	41	14	102	630	699	734	102	650	719	744	102	671	739	754	102	688	757	765
24	457	<19	72	25	114	50	18																
26	305	<19	53	19	38	48	17	102	681	749	785	102	701	770	795	102	721	790	805	152	739	808	866
26	457	<19	84	29	114	59	21																
28	305	<19	60	21	38	54	19	102	732	800	836	102	752	820	846	102	772	841	856	152	790	859	917
28	457	<19	96	34	114	67	24																
30	305	<19	68	24	38	61	21	102	782	851	886	102	803	871	897	102	823	892	907	152	841	909	968
30	457	<19	108	38	114	76	26																
32	305	<19	80	28	38	72	25	102	833	902	937	102	853	922	947	102	874	942	958	152	892	960	1019
32	457	<19	112	39	114	78	27																
34	305	<19	88	31	38	79	28	102	884	953	988	102	904	973	998	102	925	993	1008	152	942	1011	1069
34	457	<19	126	44	114	88	31																
36	305	<19	96	34	38	86	30	102	935	1003	1039	102	955	1024	1049	102	975	1044	1059	152	993	1062	1120
36	457	<19	141	49	114	99	35																
42	305	<19	100	35	38	90	31	102	1087	1156	1191	102	1107	1176	1201	102	1128	1196	1212	152	1146	1214	1273
42	457	<19	150	52	114	105	37																

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DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)	Lateral Load (kN)
CG(L)CW -	8 x	30 -	100 -	300 -	19 -	9.7

Cold **G**uide (**L**aterally Restrained) **C**ryo**W**rap

M E T R I C

PIPE SIZE (in)	LENGTH (mm)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	LAT. LOAD (kN)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	LAT. LOAD (kN)	INSULATION THICKNESS															
								50 mm				60 mm				70 mm				80 mm			
								BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1	152	<19	3	1	19	3	1																
1	305	<19	8	3	38	6	2	102	135	203	198	102	152	221	208	152	173	241	269	152	193	262	279
1	457	<19	11	4	114	6	2																
1.5	152	<19	3	1	19	3	1																
1.5	305	<19	8	3	38	6	2	102	147	216	213	102	168	236	224	152	188	257	284	152	208	277	292
1.5	457	<19	11	4	114	6	2																
2	152	<19	3	1	19	3	1																
2	305	<19	8	3	38	6	2	102	160	229	224	102	180	249	234	152	201	269	295	152	221	290	305
2	457	<19	11	4	114	6	2																
3	152	<19	6	2	19	6	2																
3	305	<19	17	6	38	13	5	102	188	257	254	102	208	277	264	152	229	297	325	152	249	318	333
3	457	<19	24	8	114	12	4																
4	152	<19	6	2	19	6	2																
4	305	<19	16	6	38	14	5	102	213	282	279	102	234	302	290	152	254	323	351	152	274	343	358
4	457	<19	23	8	114	11	4																
6	152	<19	6	2	19	6	2																
6	305	<19	16	6	38	15	5	102	269	338	333	102	287	356	343	152	307	376	404	152	328	396	414
6	457	<19	23	8	114	16	6																
8	152	<19	9	3	19	9	3																
8	305	<19	21	7	38	19	7	102	320	389	384	152	338	406	445	152	358	427	455	152	378	447	465
8	457	<19	32	11	114	23	8																
10	152	<19	9	3	19	9	3																
10	305	<19	21	7	38	19	7	102	373	442	437	152	394	462	498	152	414	483	508	152	432	500	518
10	457	<19	32	11	114	23	8																
12	152	<19	17	6	19	17	6																
12	305	<19	36	13	38	32	11	102	424	493	488	152	445	513	549	152	465	533	559	152	483	551	569
12	457	<19	55	19	114	38	13																
14	152	<19	16	6	19	16	6																
14	305	<19	36	13	38	32	11	102	455	523	521	152	475	544	582	152	495	564	592	152	516	584	599
14	457	<19	55	19	114	38	13																
16	305	<19	36	13	38	32	11	152	505	574	622	152	526	594	632	152	546	615	643	203	566	635	701
16	457	<19	55	19	114	38	13																
18	305	<19	38	13	38	34	12	152	556	625	673	152	577	645	683	152	597	665	693	203	617	686	752
18	457	<19	60	21	114	42	15																
20	305	<19	38	13	38	34	12	152	607	676	724	152	627	696	734	152	648	716	744	203	668	737	803
20	457	<19	60	21	114	42	15																
24	305	<19	45	16	38	41	14	152	709	777	826	152	729	798	836	152	749	818	846	203	770	838	904
24	457	<19	72	25	114	50	18																
26	305	<19	53	19	38	48	17	152	759	828	876	152	780	848	886	152	800	869	897	203	820	889	955
26	457	<19	84	29	114	59	21																
28	305	<19	60	21	38	54	19	152	810	879	927	152	831	899	937	152	851	919	947	203	871	940	1006
28	457	<19	96	34	114	67	24																
30	305	<19	68	24	38	61	21	152	861	930	978	152	881	950	988	152	902	970	998	203	922	991	1057
30	457	<19	108	38	114	76	26																
32	305	<19	80	28	38	72	25	178	912	980	1054	152	932	1001	1039	152	953	1021	1049	203	973	1041	1107
32	457	<19	112	39	114	78	27																
34	305	<19	88	31	38	79	28	203	963	1031	1130	152	983	1052	1090	152	1003	1072	1100	203	1024	1092	1158
34	457	<19	126	44	114	88	31																
36	305	<19	96	34	38	86	30	152	1013	1082	1130	152	1034	1102	1140	152	1054	1123	1151	203	1074	1143	1209
36	457	<19	141	49	114	99	35																
42	305	<19	100	35	38	90	31	152	1166	1234	1283	152	1186	1255	1293	152	1207	1275	1303	203	1227	1295	1361
42	457	<19	150	52	114	105	37																

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DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)	Lateral Load (kN)
CG(L)CW -	8 x	30 -	100 -	300 -	19 -	9.7

Cold **G**uide (**L**aterally Restrained) **C**ryo**W**rap

METRIC

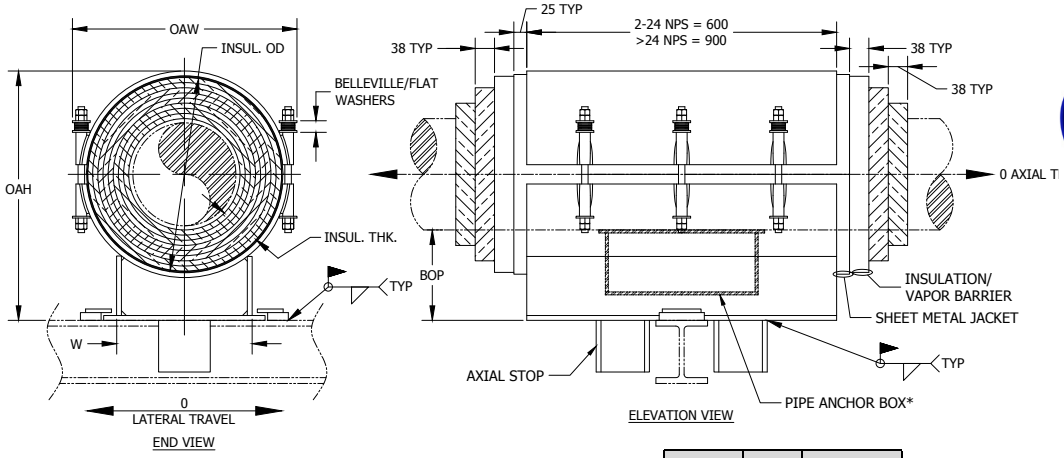
PIPE SIZE (in)	LENGTH (mm)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	LAT. LOAD (kN)	AXIAL TRAVEL (MAX.)	VERT. LOAD (kN)	LAT. LOAD (kN)	INSULATION THICKNESS															
								90 mm				100 mm				110 mm				120 mm			
								BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1	152	<19	3	1	19	3	1																
1	305	<19	8	3	38	6	2	152	213	282	290	152	234	302	300	203	254	323	358	203	274	343	368
1	457	<19	11	4	114	6	2																
1.5	152	<19	3	1	19	3	1																
1.5	305	<19	8	3	38	6	2	152	229	297	302	152	249	318	312	203	269	338	373	203	287	356	384
1.5	457	<19	11	4	114	6	2																
2	152	<19	3	1	19	3	1																
2	305	<19	8	3	38	6	2	152	241	310	315	152	259	328	325	203	279	348	386	203	300	368	396
2	457	<19	11	4	114	6	2																
3	152	<19	6	2	19	6	2																
3	305	<19	17	6	38	13	5	152	269	338	343	152	290	358	353	203	310	378	414	203	328	396	424
3	457	<19	24	8	114	12	4																
4	152	<19	6	2	19	6	2																
4	305	<19	16	6	38	14	5	152	295	363	368	152	315	384	378	203	335	404	439	203	353	422	450
4	457	<19	23	8	114	11	4																
6	152	<19	6	2	19	6	2																
6	305	<19	16	6	38	15	5	152	348	417	424	152	368	437	434	203	389	457	495	203	409	478	503
6	457	<19	23	8	114	16	6																
8	152	<19	9	3	19	9	3																
8	305	<19	21	7	38	19	7	152	399	467	475	152	419	488	485	203	439	508	546	203	460	528	554
8	457	<19	32	11	114	23	8																
10	152	<19	9	3	19	9	3																
10	305	<19	21	7	38	19	7	152	452	521	528	152	472	541	538	203	493	561	599	203	513	582	610
10	457	<19	32	11	114	23	8																
12	152	<19	17	6	19	17	6																
12	305	<19	36	13	38	32	11	152	503	572	579	152	523	592	589	203	544	612	650	203	564	632	660
12	457	<19	55	19	114	38	13																
14	152	<19	16	6	19	16	6																
14	305	<19	36	13	38	32	11	152	536	605	610	152	556	625	620	203	577	645	681	203	594	663	691
14	457	<19	55	19	114	38	13																
16	305	<19	36	13	38	32	11	203	587	655	711	203	607	676	721	203	627	696	732	203	645	714	742
16	457	<19	55	19	114	38	13																
18	305	<19	38	13	38	34	12	203	638	706	762	203	658	726	772	203	678	747	782	203	696	765	792
18	457	<19	60	21	114	42	15																
20	305	<19	38	13	38	34	12	203	688	757	813	203	709	777	823	203	729	798	833	203	747	815	843
20	457	<19	60	21	114	42	15																
24	305	<19	45	16	38	41	14	203	790	859	914	203	810	879	925	203	831	899	935	203	848	917	945
24	457	<19	72	25	114	50	18																
26	305	<19	53	19	38	48	17	203	841	909	965	203	861	930	975	203	881	950	986	203	899	968	996
26	457	<19	84	29	114	59	21																
28	305	<19	60	21	38	54	19	203	892	960	1016	203	912	980	1026	203	932	1001	1036	203	950	1019	1046
28	457	<19	96	34	114	67	24																
30	305	<19	68	24	38	61	21	203	942	1011	1067	203	963	1031	1077	203	983	1052	1087	203	1001	1069	1097
30	457	<19	108	38	114	76	26																
32	305	<19	80	28	38	72	25	203	993	1062	1118	203	1013	1082	1128	203	1034	1102	1138	203	1052	1120	1148
32	457	<19	112	39	114	78	27																
34	305	<19	88	31	38	79	28	203	1044	1113	1168	203	1064	1133	1179	203	1085	1153	1189	203	1102	1171	1199
34	457	<19	126	44	114	88	31																
36	305	<19	96	34	38	86	30	203	1095	1163	1219	203	1115	1184	1229	203	1135	1204	1240	203	1153	1222	1250
36	457	<19	141	49	114	99	35																
42	305	<19	100	35	38	90	31	203	1247	1316	1372	203	1267	1336	1382	203	1288	1356	1392	203	1306	1374	1402
42	457	<19	150	52	114	105	37																

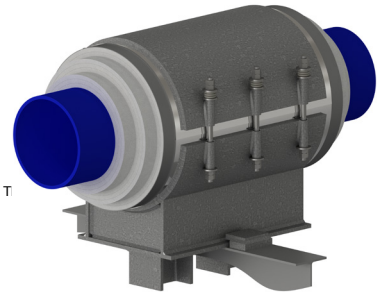
Anchor

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)	Lateral Load (kN)	Axial Load (kN)
CACW	8	30	150	600	19	6.8	8.3

Cold **A**nchor **C**ryo**W**rap





The lengths shown are minimum lengths based on support fabrication requirements. Customer to confirm required base lengths based on field supporting structure dimensions. Alternating stop guide signs available for dimensional conflicts.

Pipe Size	L (mm)	Base Length
< 356 mm	305	457
≥ 356 mm	457	457

* - Pipe anchor box to be compatible with process pipe material.

*W - Dimension is calculated by multiplying (INSULATION OD*0.65).

Applications & Features:

- Temperature range to -270 Deg C to 90 Deg C
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel on sizes 26" and larger
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- Patented anchor system allows increased load carrying capability and decreased heat transfer
- See technical specification RCS-750
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral Load (As Shown in Tables or Custom)
- Axial Load (As Shown in Tables or Custom)

** Information presented on this page subject to change without notice.

Notes:

1) Dimensions in millimeters unless noted

2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE	VERT. LOAD (kN)	LAT. LOAD (kN)	AXI. LOAD (kN)	INSULATION THICKNESS															
				10mm				20mm				30mm				40mm			
				BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	2.3	0.8	2.4	102	53	122	157	102	74	142	168	102	94	163	178	102	114	183	188
1-1/2"	3.3	1.2	2.4	102	69	137	173	102	89	157	183	102	109	178	193	102	127	196	203
2"	4.1	1.5	2.4	102	81	150	185	102	99	168	196	102	119	188	206	102	140	208	213
3"	6	2.1	2.9	102	109	178	213	102	130	198	224	102	150	218	234	102	168	236	244
4"	9.5	3.3	3.4	102	135	203	239	102	155	224	249	102	175	244	259	102	193	262	269
6"	14.4	5	6.7	102	188	257	292	102	208	277	302	102	229	297	312	102	249	318	323
8"	19.3	6.8	8.3	102	239	307	343	102	259	328	353	102	279	348	363	102	300	368	373
10"	22.7	7.9	10.5	102	292	361	396	102	312	381	406	102	333	401	417	102	353	422	427
12"	25	8.7	20.3	102	343	411	447	102	363	432	457	102	384	452	467	102	404	472	478
14"	28.4	9.9	21.1	102	376	445	480	102	396	465	490	102	417	485	500	102	434	503	511
16"	32.9	11.5	21.8	102	427	495	531	102	447	516	541	102	467	536	551	102	485	554	561
18"	36.3	12.7	24.3	102	478	546	582	102	498	566	592	102	518	587	602	102	536	605	612
20"	38.6	13.5	26.7	102	528	597	632	102	549	617	643	102	569	638	653	102	587	655	663
24"	40.8	14.3	57.4	102	630	699	734	102	650	719	744	102	671	739	754	102	688	757	765
30"	53.3	18.7	70.7	102	782	851	886	102	803	871	897	102	823	892	907	152	841	909	968
36"	77.2	27	83.9	102	935	1003	1039	102	955	1024	1049	102	975	1044	1059	152	993	1062	1120
42"	117.2	41	97.1	102	1087	1156	1191	102	1107	1176	1201	102	1128	1196	1212	152	1146	1214	1273

Patent No. US9,068,685, US 10,288,209 and US10,962,164 (See page 113 for international patents)

Anchor

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)	Lateral Load (kN)	Axial Load (kN)
CACW	8 x 30	150	600	19	6.8	8.3	

Cold **A**nchor **C**ryo**W**rap

METRIC

PIPE SIZE	VERT. LOAD (kN)	LAT. LOAD (kN)	AXI. LOAD (kN)	INSULATION THICKNESS															
				50mm				60mm				70mm				80mm			
				BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	2.3	0.8	2.4	102	135	203	198	102	152	221	208	152	173	241	269	152	193	262	279
1-1/2"	3.3	1.2	2.4	102	147	216	213	102	168	236	224	152	188	257	284	152	208	277	292
2"	4.1	1.5	2.4	102	160	229	224	102	180	249	234	152	201	269	295	152	221	290	305
3"	6	2.1	2.9	102	188	257	254	102	208	277	264	152	229	297	325	152	249	318	333
4"	9.5	3.3	3.4	102	213	282	279	102	234	302	290	152	254	323	351	152	274	343	358
6"	14.4	5	6.7	102	269	338	333	102	287	356	343	152	307	376	404	152	328	396	414
8"	19.3	6.8	8.3	102	320	389	384	152	338	406	445	152	358	427	455	152	378	447	465
10"	22.7	7.9	10.5	102	373	442	437	152	394	462	498	152	414	483	508	152	432	500	518
12"	25	8.7	20.3	102	424	493	488	152	445	513	549	152	465	533	559	152	483	551	569
14"	28.4	9.9	21.1	102	455	523	521	152	475	544	582	152	495	564	592	152	516	584	599
16"	32.9	11.5	21.8	152	505	574	622	152	526	594	632	152	546	615	643	203	566	635	701
18"	36.3	12.7	24.3	152	556	625	673	152	577	645	683	152	597	665	693	203	617	686	752
20"	38.6	13.5	26.7	152	607	676	724	152	627	696	734	152	648	716	744	203	668	737	803
24"	40.8	14.3	57.4	152	709	777	826	152	729	798	836	152	749	818	846	203	770	838	904
30"	53.3	18.7	70.7	152	861	930	978	152	881	950	988	152	902	970	998	203	922	991	1057
36"	77.2	27	83.9	152	1013	1082	1130	152	1034	1102	1140	152	1054	1123	1151	203	1074	1143	1209
42"	117.2	41	97.1	152	1166	1234	1283	152	1186	1255	1293	152	1207	1275	1303	203	1227	1295	1361

PIPE SIZE	VERT. LOAD (kN)	LAT. LOAD (kN)	AXI. LOAD (kN)	INSULATION THICKNESS															
				90mm				100mm				110mm				120mm			
				BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	2.3	0.8	2.4	152	213	282	290	152	234	302	300	203	254	323	358	203	274	343	368
1-1/2"	3.3	1.2	2.4	152	229	297	302	152	249	318	312	203	269	338	373	203	287	356	384
2"	4.1	1.5	2.4	152	241	310	315	152	259	328	325	203	279	348	386	203	300	368	396
3"	6	2.1	2.9	152	269	338	343	152	290	358	353	203	310	378	414	203	328	396	424
4"	9.5	3.3	3.4	152	295	363	368	152	315	384	378	203	335	404	439	203	353	422	450
6"	14.4	5	6.7	152	348	417	424	152	368	437	434	203	389	457	495	203	409	478	503
8"	19.3	6.8	8.3	152	399	467	475	152	419	488	485	203	439	508	546	203	460	528	554
10"	22.7	7.9	10.5	152	452	521	528	152	472	541	538	203	493	561	599	203	513	582	610
12"	25	8.7	20.3	152	503	572	579	152	523	592	589	203	544	612	650	203	564	632	660
14"	28.4	9.9	21.1	152	536	605	610	152	556	625	620	203	577	645	681	203	594	663	691
16"	32.9	11.5	21.8	203	587	655	711	203	607	676	721	203	627	696	732	203	645	714	742
18"	36.3	12.7	24.3	203	638	706	762	203	658	726	772	203	678	747	782	203	696	765	792
20"	38.6	13.5	26.7	203	688	757	813	203	709	777	823	203	729	798	833	203	747	815	843
24"	40.8	14.3	57.4	203	790	859	914	203	810	879	925	203	831	899	935	203	848	917	945
30"	53.3	18.7	70.7	203	942	1011	1067	203	963	1031	1077	203	983	1052	1087	203	1001	1069	1097
36"	77.2	27	83.9	203	1095	1163	1219	203	1115	1184	1229	203	1135	1204	1240	203	1153	1222	1250
42"	117.2	41	97.1	203	1247	1316	1372	203	1267	1336	1382	203	1288	1356	1392	203	1306	1374	1402

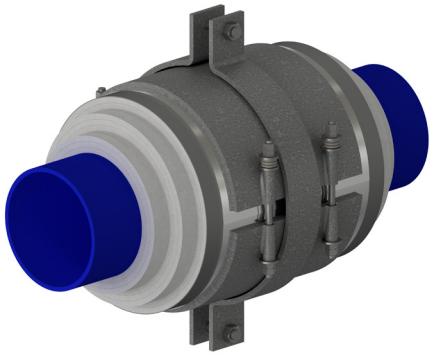
Hanging

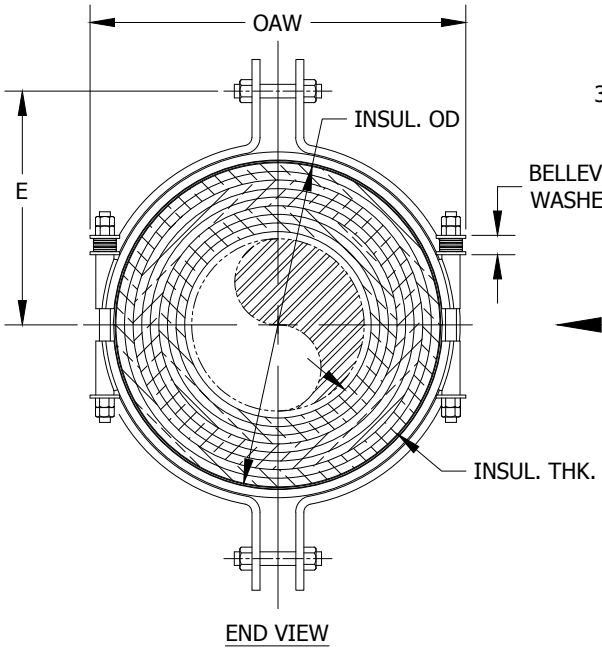
METRIC

DESIGNATION EXAMPLE

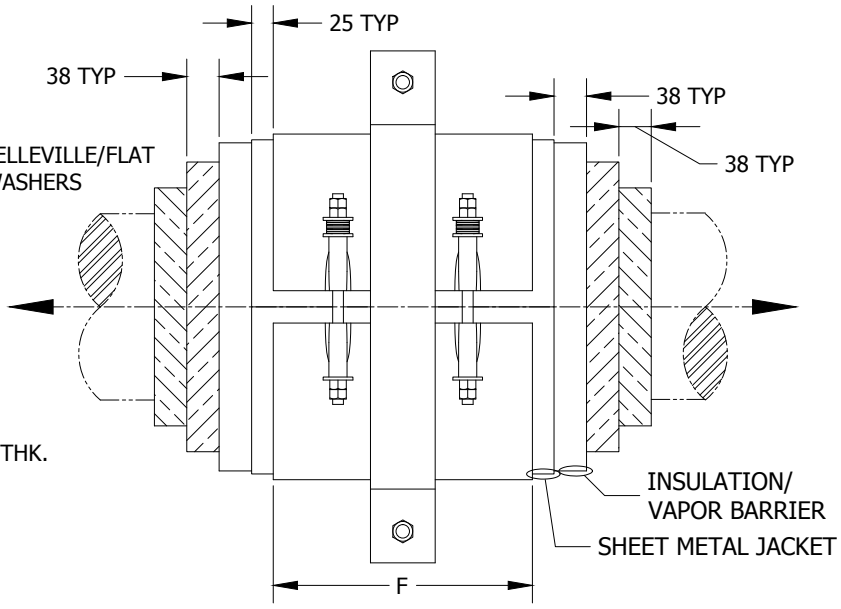
Model No.	Nominal Pipe Size	Insulation Thickness	Support Length (F)	Vertical Load (kN)
CHCW	8 x	30 -	229 -	5.3

Cold **H**anging **C**ryo**W**rap





END VIEW



ELEVATION VIEW

Applications & Features:

- Temperature range to -270 Deg C to 90 Deg C
- Higher temperature applications available
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RCS-750
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral (3 mm) & Axial (See Table) Travel

* See last page of this document for new designation model number construction

** Information presented on this page subject to change without notice.

Hanging

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	Support Length (F)	Vertical Load (kN)
CHCW	8	30	229	5.3

Cold **H**anging **C**ryo**W**rap

Notes:
1) Dimensions in millimeters unless noted
2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE	LENGTH (mm)	VERT. LOAD (kN)	INSULATION THICKNESS															
			10mm				20mm				30mm				40mm			
			INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)
1	152	3	56	229	114	61	74	229	191	69	94	229	216	79	114	229	241	89
1	305	8																
1	457	11																
1.5	152	3	69	229	127	66	89	229	191	76	109	229	216	86	130	229	241	97
1.5	305	8																
1.5	457	11																
2	152	3	81	229	140	74	102	229	191	84	122	229	216	94	142	229	241	104
2	305	8																
2	457	11																
3	152	6	109	229	165	86	130	229	216	97	150	229	229	107	170	229	241	117
3	305	17																
3	457	24																
4	152	6	135	229	191	99	155	229	267	109	175	229	292	119	196	229	305	130
4	305	16																
4	457	23																
6	152	6	191	229	241	127	208	229	318	137	229	229	343	147	249	229	356	157
6	305	16																
6	457	23																
8	152	9	241	229	292	157	259	229	381	165	279	229	394	175	300	229	419	193
8	305	21																
8	457	32																
10	152	9	295	229	343	191	315	229	432	201	335	229	445	211	353	229	470	218
10	305	21																
10	457	32																
12	152	17	345	305	394	229	366	305	457	239	386	305	483	279	404	305	495	287
12	305	36																
12	457	55																
14	152	16	376	305	445	246	396	305	508	287	417	305	533	297	437	305	546	307
14	305	36																
14	457	55																
16	305	36	427	305	495	302	447	305	572	312	467	305	597	323	488	305	610	333
16	457	55																
18	305	38	478	305	546	330	498	305	622	340	518	305	648	351	538	305	660	361
18	457	60																
20	305	38	528	305	597	356	549	305	724	366	569	305	749	376	589	305	762	396
20	457	60																
24	305	45	630	381	699	427	650	381	876	460	671	381	902	470	691	381	914	480
24	457	72																
26	305	53	681	381	749	462	701	381	927	488	721	381	953	498	742	381	965	508
26	457	84																
28	305	60	732	381	800	498	752	381	978	516	772	381	1003	526	792	381	1016	536
28	457	96																
30	305	68	782	381	851	531	803	381	1029	541	823	381	1054	551	843	381	1067	561
30	457	108																
32	305	80	833	381	902	559	853	381	1080	569	874	381	1105	579	894	381	1118	589
32	457	112																
34	305	88	884	381	953	587	904	381	1130	597	925	381	1156	607	945	381	1168	617
34	457	126																
36	305	96	935	381	1003	615	955	381	1194	625	975	381	1207	635	996	381	1232	645
36	457	141																
42	305	100	1087	381	1156	714	1107	381	1346	724	1128	381	1359	734	1148	381	1384	744
42	457	150																

METRIC

Hanging

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	Support Length (F)	Vertical Load (kN)
CHCW	8	30	229	5.3

Cold **H**anging **C**ryo**W**rap

METRIC

PIPE SIZE	LENGTH (mm)	VERT. LOAD (kN)	INSULATION THICKNESS															
			50mm				60mm				70mm				80mm			
			INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)
1	152	3																
1	305	8	135	229	267	99	155	229	318	109	175	229	318	119	196	229	318	130
1	457	11																
1.5	152	3																
1.5	305	8	150	229	267	107	170	229	318	117	191	229	318	127	208	229	318	137
1.5	457	11																
2	152	3																
2	305	8	163	229	267	114	180	229	318	122	201	229	318	132	221	229	318	142
2	457	11																
3	152	6																
3	305	17	191	229	267	127	211	229	318	137	231	229	318	147	249	229	318	157
3	457	24																
4	152	6																
4	305	16	216	229	330	140	236	229	356	150	257	229	368	160	274	229	394	170
4	457	23																
6	152	6																
6	305	16	269	229	381	168	290	229	406	178	310	229	419	188	330	229	445	198
6	457	23																
8	152	9																
8	305	21	320	229	432	203	340	229	457	213	361	229	470	224	381	229	495	234
8	457	32																
10	152	9																
10	305	21	373	229	483	229	394	229	508	239	414	229	521	249	434	305	546	267
10	457	32																
12	152	17																
12	305	36	424	305	521	297	445	305	533	307	465	305	559	318	485	305	572	328
12	457	55																
14	152	16																
14	305	36	457	305	572	318	478	305	584	328	498	305	610	338	516	305	622	345
14	457	55																
16	305	36	508	305	635	343	528	305	648	353	549	305	673	363	566	305	686	371
16	457	55																
18	305	38	559	305	686	371	579	305	699	381	599	305	724	391	617	305	737	401
18	457	60																
20	305	38	610	305	787	406	630	305	800	417	650	305	826	427	668	305	838	437
20	457	60																
24	305	45	711	381	940	490	732	381	953	500	752	381	978	511	770	381	991	518
24	457	72																
26	305	53	762	381	991	518	782	381	1003	528	803	381	1029	538	820	381	1041	546
26	457	84																
28	305	60	813	381	1041	546	833	381	1054	556	853	381	1080	566	871	381	1092	574
28	457	96																
30	305	68	864	381	1092	572	884	381	1105	582	904	381	1130	592	922	381	1143	602
30	457	108																
32	305	80	914	381	1143	599	935	381	1156	610	955	381	1181	620	973	381	1194	630
32	457	112																
34	305	88	965	381	1194	627	986	381	1207	638	1006	381	1232	648	1024	381	1245	658
34	457	126																
36	305	96	1016	381	1245	655	1036	381	1270	665	1057	381	1295	676	1074	381	1308	683
36	457	141																
42	305	100	1168	381	1397	754	1189	381	1422	765	1209	381	1448	775	1227	381	1461	782
42	457	150																

Hanging

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	Support Length (F)	Vertical Load (kN)
CHCW	8	30	229	5.3

Cold **H**anging **C**ryo**W**rap

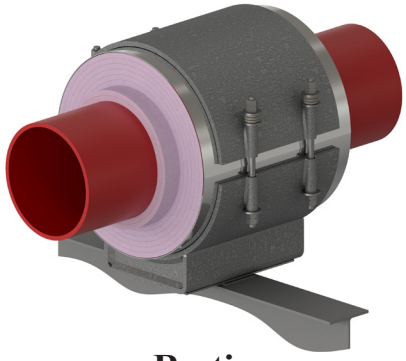
METRIC

PIPE SIZE	LENGTH (mm)	VERT. LOAD (kN)	INSULATION THICKNESS															
			90mm				100mm				110mm				120mm			
			INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)
1	152	3																
1	305	8	216	229	318	140	234	229	318	150	254	229	318	160	274	229	343	170
1	457	11																
1.5	152	3																
1.5	305	8	229	229	318	147	249	229	318	157	269	229	330	168	290	229	356	178
1.5	457	11																
2	152	3																
2	305	8	241	229	318	152	262	229	330	163	282	229	343	173	302	229	368	183
2	457	11																
3	152	6																
3	305	17	269	229	343	168	290	229	368	178	310	229	381	188	330	229	406	198
3	457	24																
4	152	6																
4	305	16	295	229	406	180	315	229	432	191	335	229	445	201	356	229	470	211
4	457	23																
6	152	6																
6	305	16	351	229	457	208	368	229	483	216	389	229	495	226	409	229	521	236
6	457	23																
8	152	9																
8	305	21	401	229	521	244	419	229	533	251	439	229	559	262	460	229	572	272
8	457	32																
10	152	9																
10	305	21	455	305	572	277	475	305	584	287	495	305	610	297	513	305	622	305
10	457	32																
12	152	17																
12	305	36	505	305	597	338	526	305	622	348	546	305	635	358	564	305	660	368
12	457	55																
14	152	16																
14	305	36	536	305	648	356	556	305	673	366	577	305	686	376	597	305	711	386
14	457	55																
16	305	36	587	305	711	381	607	305	737	391	627	305	749	401	648	305	775	411
16	457	55																
18	305	38	638	305	762	422	658	305	787	432	678	305	800	442	699	305	826	452
18	457	60																
20	305	38	688	305	864	447	709	305	889	457	729	305	902	467	749	381	927	478
20	457	60																
24	305	45	790	381	1016	528	810	381	1041	538	831	381	1054	549	851	381	1080	559
24	457	72																
26	305	53	841	381	1067	556	861	381	1092	566	881	381	1105	577	902	381	1130	587
26	457	84																
28	305	60	892	381	1118	584	912	381	1143	594	932	381	1156	605	953	381	1181	615
28	457	96																
30	305	68	942	381	1168	612	963	381	1194	622	983	381	1207	632	1003	381	1232	643
30	457	108																
32	305	80	993	381	1219	648	1013	381	1245	658	1034	381	1257	668	1054	381	1257	678
32	457	112																
34	305	88	1044	381	1270	683	1064	381	1295	693	1085	381	1308	704	1105	381	1308	714
34	457	126																
36	305	96	1095	381	1334	716	1115	381	1346	726	1135	381	1372	737	1156	381	1384	747
36	457	141																
42	305	100	1247	381	1486	792	1267	381	1499	803	1288	381	1524	813	1308	381	1537	823
42	457	150																

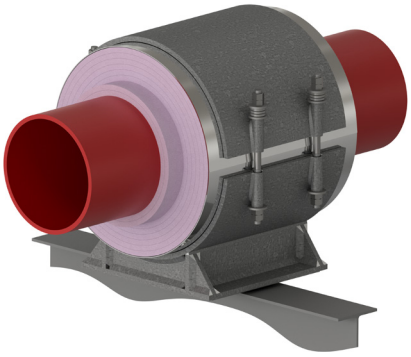
Aerogel Hot Service Supports

METRIC

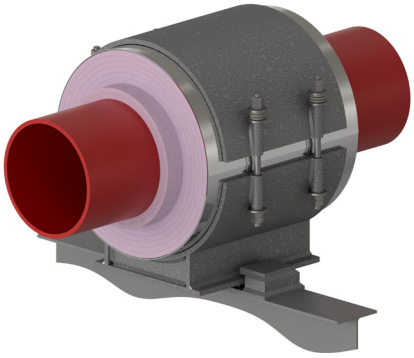
Aerogel Hot Service Supports Overview



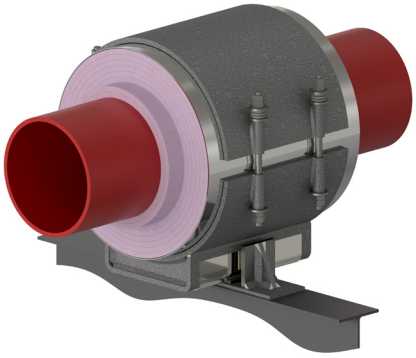
Resting



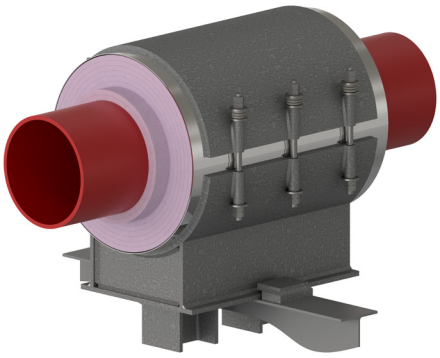
High Lateral Travel



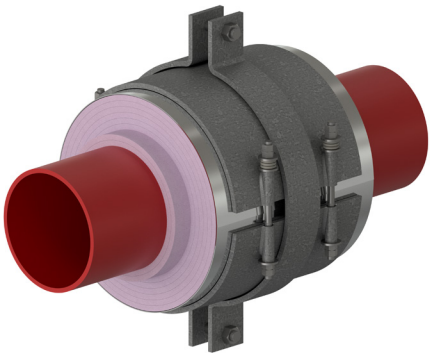
Vertically Restrained Guided



Guided



Anchor



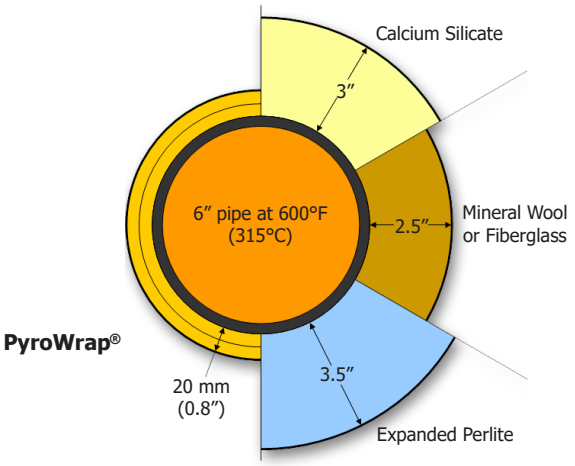
Hanging

RILCO PyroWrap® for Hot Work and High Temperatures
Service Temperature Ranges: -40°F (-40°C) to 1200°F (650°C)



PyroWrap® pipe supports offer specialized properties the make them highly effective for high-temperature applications. Their construction utilizes an insulation which has the lowest thermal conductivity of any known solid and is hydrophobic, helping protect against corrosion under the insulation. The material is also flexible and is designed to recover its thermal performance after compression up to 100 psi.

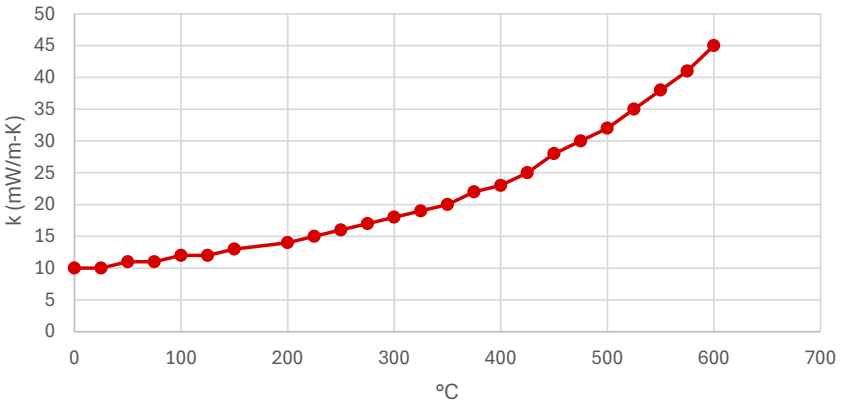
PyroWrap® pipe supports utilize a silica aerogel blanket reinforced with non-woven glass-fiber batting. They require 25%-30% the insulation thickness of other insulation types, making them substantially lighter in weight, thereby easing the installation process and reducing its associated cost.



All four designs provide same level of thermal efficiency

Thermal Conductivity†

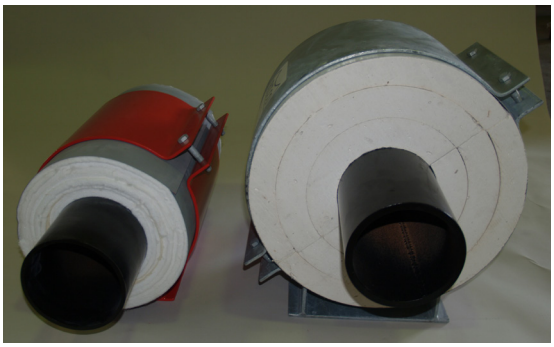
ASTM C 177 Results



†Thermal conductivity measurements taken at a compressive load of 2 psi.

MEAN. TEMP. (°C)	k (mW/m-K)
0	10
25	10
50	11
75	11
100	12
125	12
150	13
200	14
225	15
250	16
275	17
300	18
325	19
350	20
375	22
400	23
425	25
450	28
475	30
500	32
525	35
550	38
575	41
600	45

Comparable Insulation Ratings



PyroWrap™ Cal-Sil

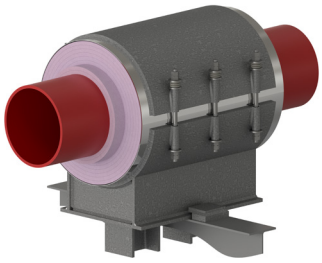
RILCO PyroWrap® - Properties
Service Temperature Ranges: -40°F (-40°C) to 1200°F (650°C)

Thermal Performance: PyroWrap® pipe supports are the most efficient products available in the world for high temperature applications. PyroWrap® supports requires 25% - 30% the insulation thickness of other insulation types to acheive similar heat loss efficiency.

Moisture Resistance: PyroWrap® pipe supports are hydrophobic over the entire matrix of the insulation, not just the surface. The unique hydrophobic characteristic of high temperature aerogel insulation not only repels liquid water, but allows vapor to pass through the insulation and wick moisture away from the pipe, helping to prevent corrosion and deterioration of the substrate.

Structural Integrity: PyroWrap® pipe supports provide superior durability in comparison to other products commonly used in high temperature applications. The PyroWrap® systems design permit for the "modularization" of the piping by allowing the pipe sections to have the pipe supports and line insulation to be pre-installed off-site, or on-site at a safe location and then lifted into position without fear of damaging the insulation.

Dimensional Stability: PyroWrap® pipe supports when used on a Pyrowrap® insulated line allow movement of the insulated system yet remain flexible and are not susceptiable thermal shock. This design allows the usual issues of degraded insulation caused by expansion, extreme stress, structural deformation and crack propagation problems encountered with traditional insulation systems to no longer be a concern.



Specification Compliance and Performance: Typical performance of pyrogenic aerogel blanket insulations.

Test Procedure	Property	Results
ASTM C 165[1]	Compressive Strength	≥3 psi (20.7 kPa) @ 10% deformation
ASTM C 356	Linear Shrinkage Under Soaking Heat	<1.4% @ 1200°F (650°C)
ASTM C 411	Hot Surface Performance	Passed
ASTM C447	Estimation of Maximum Use Temperature	1200°F (650°C)
ASTM C 795	Insulation for Use Over Austenitic Stainless Steel	Passed
ASTM C 1101	Classifying the Flexibility of Mineral Fiber Blankets	Class: Resilient Flexible
ASTM C 1104	Water Vapor Sorption	≤5% (by weight)
ASTM C 1338	Fungal Resistance of Insulation Materials	Passed
ASTM C 1617	Corrosiveness to Steel	Passed
ASTM C 1763	Water Absorption by Immersion	Passed
ASTM C 1511	Liquid Water Retention after Submersion	4% (by weight)
ASTM E 84	Surface Burning Characteristics	Flame Spread Index = ≤5 Smoke Developed Index = ≤10

[1] Compression resistance measured using a preload of 2 psi.

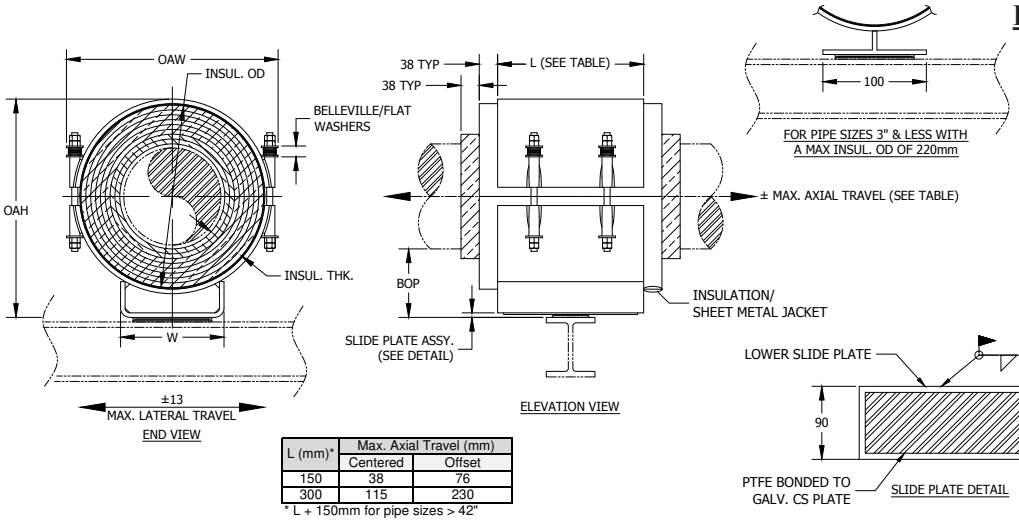
Resting

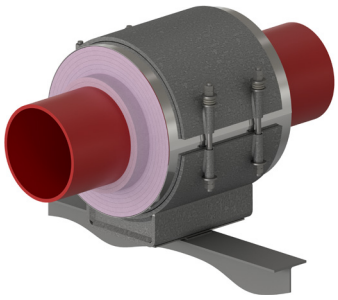
DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)
HSPW	- 8 x	30	- 100	- 300	- 7.6

Hot **S**lide **P**yro**W**rap

METRIC





L (mm)*	Max. Axial Travel (mm)	
	Centered	Offset
150	38	76
300	115	230

* L + 150mm for pipe sizes > 42"

*W - Dimension is calculated by multiplying (INSULATION OD*0.55).

Applications & Features:

- Temperature range from -40 Deg C to 650 Deg C
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RHS-850
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral (3 mm) & Axial (See Table) Travel

** Information presented on this page subject to change without notice.

Notes:
1) Dimensions in millimeters unless noted

2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

NOM PIPE SIZE	LOW VERT. LOAD (kN)	HIGH VERT. LOAD (kN)	INSULATION THICKNESS															
			10mm				20mm				30mm				40mm			
			BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	0.7	2.0	102	53	122	157	102	74	142	168	102	94	163	178	102	114	183	188
1-1/2"	1.1	2.9	102	69	137	173	102	89	157	183	102	109	178	193	102	127	196	203
2"	1.3	3.6	102	81	150	185	102	99	168	196	102	119	188	206	102	140	208	213
3"	2.4	9.3	102	109	178	213	102	130	198	224	102	150	218	234	102	168	236	244
4"	3.7	15	102	135	203	239	102	155	224	249	102	175	244	259	102	193	262	269
6"	5.7	23	102	188	257	292	102	208	277	302	102	229	297	312	102	249	318	323
8"	7.6	30	102	239	307	343	102	259	328	353	102	279	348	363	102	300	368	373
10"	8.9	36	102	292	361	396	102	312	381	406	102	333	401	417	102	353	422	427
12"	9.8	39	102	343	411	447	102	363	432	457	102	384	452	467	102	404	472	478
14"	11	45	102	376	445	480	102	396	465	490	102	417	485	500	102	434	503	511
16"	13	52	102	427	495	531	102	447	516	541	102	467	536	551	102	485	554	561
18"	14	57	102	478	546	582	102	498	566	592	102	518	587	602	102	536	605	612
20"	15	61	102	528	597	632	102	549	617	643	102	569	638	653	102	587	655	663
24"	16	64	102	630	699	734	102	650	719	744	102	671	739	754	102	688	757	765
30"	21	84	102	782	851	886	102	803	871	897	102	823	892	907	152	841	909	968
36"	25	98	102	935	1003	1039	102	955	1024	1049	102	975	1044	1059	152	993	1062	1120
42"	28	110	102	1087	1156	1191	102	1107	1176	1201	102	1128	1196	1212	152	1146	1214	1273

Patent No. US10,252,490 and US11,014,333 (See page 113 for international patents)

Resting

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)
HSPW	8	30	100	300	7.6

Hot **S**lide **P**yro**W**rap

METRIC

NOM PIPE SIZE	LOW VERT. LOAD (kN)	HIGH VERT. LOAD (kN)	INSULATION THICKNESS															
			50mm				60mm				70mm				80mm			
			BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	0.7	2.0	102	135	203	198	102	152	221	208	152	173	241	269	152	193	262	279
1-1/2"	1.1	2.9	102	147	216	213	102	168	236	224	152	188	257	284	152	208	277	292
2"	1.3	3.6	102	160	229	224	102	180	249	234	152	201	269	295	152	221	290	305
3"	2.4	9.3	102	188	257	254	102	208	277	264	152	229	297	325	152	249	318	333
4"	3.7	15	102	213	282	279	102	234	302	290	152	254	323	351	152	274	343	358
6"	5.7	23	102	269	338	333	102	287	356	343	152	307	376	404	152	328	396	414
8"	7.6	30	102	320	389	384	152	338	406	445	152	358	427	455	152	378	447	465
10"	8.9	36	102	373	442	437	152	394	462	498	152	414	483	508	152	432	500	518
12"	9.8	39	102	424	493	488	152	445	513	549	152	465	533	559	152	483	551	569
14"	11	45	102	455	523	521	152	475	544	582	152	495	564	592	152	516	584	599
16"	13	52	152	505	574	622	152	526	594	632	152	546	615	643	203	566	635	701
18"	14	57	152	556	625	673	152	577	645	683	152	597	665	693	203	617	686	752
20"	15	61	152	607	676	724	152	627	696	734	152	648	716	744	203	668	737	803
24"	16	64	152	709	777	826	152	729	798	836	152	749	818	846	203	770	838	904
30"	21	84	152	861	930	978	152	881	950	988	152	902	970	998	203	922	991	1057
36"	25	98	152	1013	1082	1130	152	1034	1102	1140	152	1054	1123	1151	203	1074	1143	1209
42"	28	110	152	1166	1234	1283	152	1186	1255	1293	152	1207	1275	1303	203	1227	1295	1361

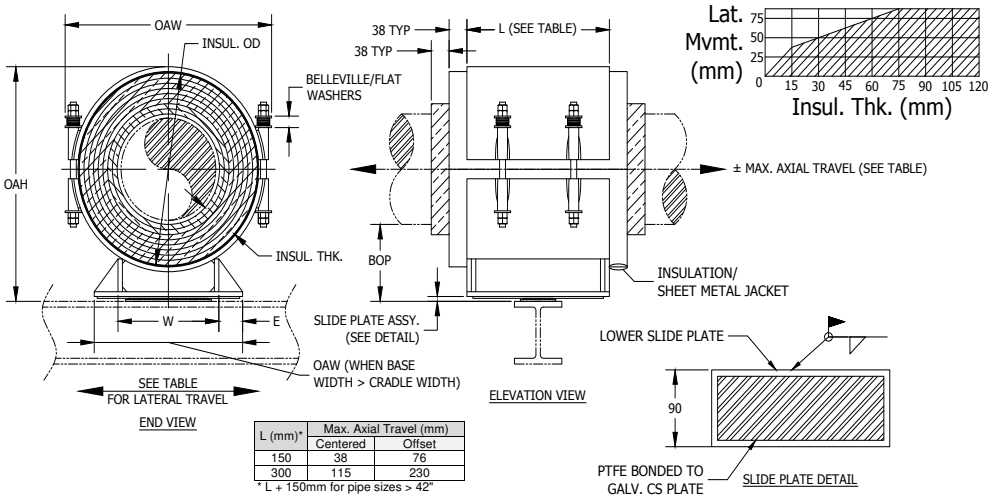
NOM PIPE SIZE	LOW VERT. LOAD (kN)	HIGH VERT. LOAD (kN)	INSULATION THICKNESS															
			90mm				100mm				110mm				120mm			
			BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	0.7	2.0	152	213	282	290	152	234	302	300	203	254	323	358	203	274	343	368
1-1/2"	1.1	2.9	152	229	297	302	152	249	318	312	203	269	338	373	203	287	356	384
2"	1.3	3.6	152	241	310	315	152	259	328	325	203	279	348	386	203	300	368	396
3"	2.4	9.3	152	269	338	343	152	290	358	353	203	310	378	414	203	328	396	424
4"	3.7	15	152	295	363	368	152	315	384	378	203	335	404	439	203	353	422	450
6"	5.7	23	152	348	417	424	152	368	437	434	203	389	457	495	203	409	478	503
8"	7.6	30	152	399	467	475	152	419	488	485	203	439	508	546	203	460	528	554
10"	8.9	36	152	452	521	528	152	472	541	538	203	493	561	599	203	513	582	610
12"	9.8	39	152	503	572	579	152	523	592	589	203	544	612	650	203	564	632	660
14"	11	45	152	536	605	610	152	556	625	620	203	577	645	681	203	594	663	691
16"	13	52	203	587	655	711	203	607	676	721	203	627	696	732	203	645	714	742
18"	14	57	203	638	706	762	203	658	726	772	203	678	747	782	203	696	765	792
20"	15	61	203	688	757	813	203	709	777	823	203	729	798	833	203	747	815	843
24"	16	64	203	790	859	914	203	810	879	925	203	831	899	935	203	848	917	945
30"	21	84	203	942	1011	1067	203	963	1031	1077	203	983	1052	1087	203	1001	1069	1097
36"	25	98	203	1095	1163	1219	203	1115	1184	1229	203	1135	1204	1240	203	1153	1222	1250
42"	28	110	203	1247	1316	1372	203	1267	1336	1382	203	1288	1356	1392	203	1306	1374	1402

High Lateral Travel

DESIGNATION EXAMPLE

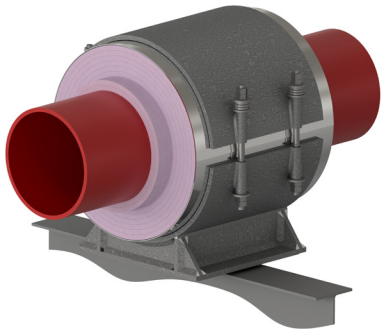
Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)
HS(H)PW -	8 x	30 -	100 -	300 -	7.6

Hot **S**lide (**H**igh Lateral Travel) **P**yro**W**rap



L (mm)*	Max. Axial Travel (mm)	
	Centered	Offset
150	38	76
300	115	230

* L + 150mm for pipe sizes > 42"



*W - Dimension is calculated by multiplying (INSULATION OD*0.55).

Applications & Features:

- Temperature range from -40 Deg C to 650 Deg C
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RHS-850
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral (3 mm) & Axial (See Table) Travel

** Information presented on this page subject to change without notice.

Notes:
1) Dimensions in millimeters unless noted

2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

NOM PIPE SIZE	LOW VERT. LOAD (kN)	HIGH VERT. LOAD (kN)	INSULATION THICKNESS															
			10mm				20mm				30mm				40mm			
			BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	1.0	4.0	100	56	102	152	100	74	127	165	100	94	140	178	100	114	165	191
1-1/2"	1.4	5.8	100	69	114	0	100	89	140	0	100	109	152	191	100	130	178	203
2"	1.7	6.7	100	81	127	0	100	102	152	191	100	122	165	203	100	142	191	216
3"	2.4	9.3	100	109	152	216	100	130	178	216	100	150	203	229	100	170	216	241
4"	3.7	15	100	135	178	241	100	155	203	241	100	175	229	254	100	196	241	267
6"	5.7	23	100	191	254	292	100	208	267	305	100	229	292	318	100	249	305	318
8"	7.6	30	100	241	305	343	100	259	318	356	100	279	343	368	100	300	356	368
10"	8.9	36	100	295	356	394	100	315	381	406	100	335	394	419	100	353	419	432
12"	9.8	39	100	345	406	445	100	366	432	457	100	386	445	470	100	404	470	483
14"	11	44	100	376	432	483	100	396	457	495	100	417	483	495	100	437	495	508
16"	13	52	100	427	483	533	100	447	508	546	100	467	533	559	100	488	546	559
18"	14	57	100	478	546	584	100	498	572	597	100	518	597	610	100	538	610	610
20"	15	60	100	528	597	635	100	549	622	648	100	569	648	660	100	589	660	660
24"	16	64	100	630	699	737	100	650	724	749	100	671	749	762	100	691	762	775
30"	21	84	100	782	851	889	100	803	876	902	100	823	902	914	150	843	914	978
36"	24	98	100	935	1003	1041	100	955	1029	1054	100	975	1054	1067	150	996	1067	1130
42"	28	110	100	1087	1168	1194	100	1107	1194	1207	100	1128	1207	1219	150	1148	1232	1283

Patent No. US10,252,490 and US11,014,333 (See page 113 for international patents)

High Lateral Travel

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)
HS(H)PW	- 8 x	30 -	100 -	300 -	7.6

Hot **S**lide (**H**igh Lateral Travel) **P**yro**W**rap

METRIC

NOM PIPE SIZE	LOW VERT. LOAD (kN)	HIGH VERT. LOAD (kN)	INSULATION THICKNESS															
			50mm				60mm				70mm				80mm			
			BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	1.0	4.0	100	135	178	191	100	155	203	203	150	175	229	267	150	196	241	279
1-1/2"	1.4	5.8	100	150	203	216	100	170	216	216	150	191	241	279	150	208	254	292
2"	1.7	6.7	100	163	216	229	100	180	229	229	150	201	254	292	150	221	267	305
3"	2.4	9.3	100	191	241	254	100	211	254	267	150	231	279	318	150	249	292	330
4"	3.7	15	100	216	267	279	100	236	279	292	150	257	305	343	150	274	318	356
6"	5.7	23	100	269	330	330	100	290	356	343	150	310	368	406	150	330	394	419
8"	7.6	30	100	320	381	381	150	340	406	445	150	361	419	457	150	381	445	470
10"	8.9	36	100	373	432	432	150	394	457	495	150	414	470	508	150	434	495	521
12"	9.8	39	100	424	483	483	150	445	508	546	150	465	521	559	150	485	546	572
14"	11	44	100	457	521	521	150	478	533	584	150	498	559	597	150	516	572	597
16"	13	52	150	508	572	622	150	528	584	635	150	549	610	648	150	566	622	660
18"	14	57	150	559	635	673	150	579	648	686	150	599	673	699	150	617	686	711
20"	15	60	150	610	686	724	150	630	699	737	150	650	724	749	150	668	737	762
24"	16	64	150	711	787	826	150	732	800	838	150	752	826	851	150	770	838	864
30"	21	84	150	864	940	978	150	884	953	991	150	904	978	1003	200	922	991	1067
36"	24	98	150	1016	1092	1130	150	1036	1105	1143	150	1057	1130	1156	200	1074	1143	1219
42"	28	110	150	1168	1245	1283	150	1189	1270	1295	150	1209	1295	1308	200	1227	1308	1372

NOM PIPE SIZE	LOW VERT. LOAD (kN)	HIGH VERT. LOAD (kN)	INSULATION THICKNESS															
			90mm				100mm				110mm				120mm			
			BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	1.0	4.0	150	216	267	292	150	234	279	292	200	254	305	356	200	274	318	368
1-1/2"	1.4	5.8	150	229	279	305	150	249	292	318	200	269	318	368	200	290	343	381
2"	1.7	6.7	150	241	292	318	150	262	305	330	200	282	330	381	200	302	356	394
3"	2.4	9.3	150	269	318	343	150	290	343	356	200	310	356	419	200	330	381	419
4"	3.7	15	150	295	343	368	150	315	368	381	200	335	381	445	200	356	406	445
6"	5.7	23	150	351	406	419	150	368	432	432	200	389	445	495	200	409	470	508
8"	7.6	30	150	401	457	470	200	419	483	533	200	439	495	546	200	460	521	559
10"	8.9	36	150	455	521	533	200	475	533	584	200	495	559	597	200	513	572	610
12"	9.8	39	150	505	572	584	200	526	584	635	200	546	610	648	200	564	622	660
14"	11	44	150	536	597	610	200	556	622	673	200	577	635	686	200	597	660	686
16"	13	52	200	587	648	711	200	607	673	724	200	627	686	737	200	648	711	749
18"	14	57	200	638	711	762	200	658	737	775	200	678	749	787	200	699	775	800
20"	15	60	200	688	762	813	200	709	787	826	200	729	800	838	200	749	826	851
24"	16	64	200	790	864	927	200	810	889	927	200	831	902	940	200	851	927	953
30"	21	84	200	942	1016	1080	200	963	1041	1080	200	983	1054	1092	250	1003	1080	1156
36"	24	98	200	1095	1168	1232	200	1115	1194	1232	200	1135	1207	1245	250	1156	1232	1308
42"	28	110	200	1247	1334	1384	200	1267	1346	1384	200	1288	1372	1397	250	1308	1384	1461

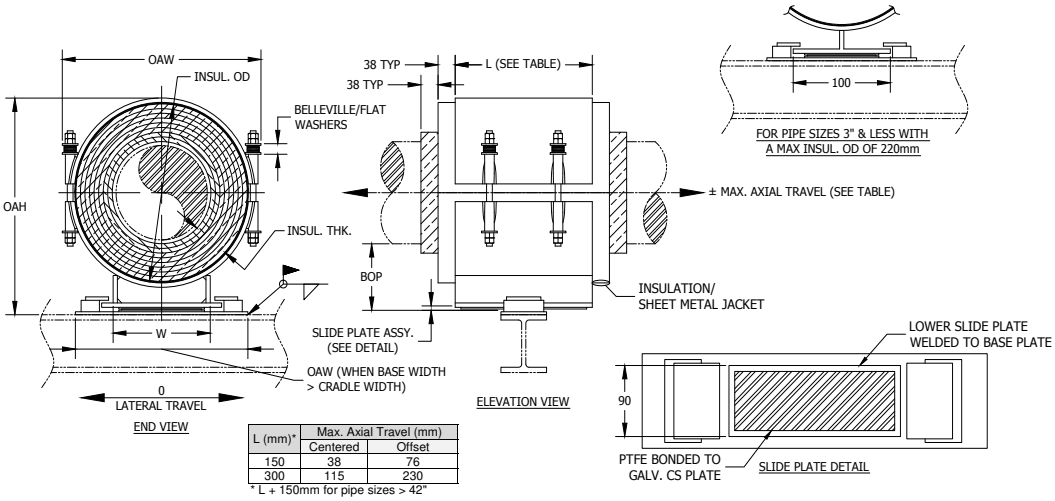
Vertically Restrained Guided

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)	Lateral Load (kN)
HGPW -	8 x	30 -	100 -	300 -	19 -	6.8

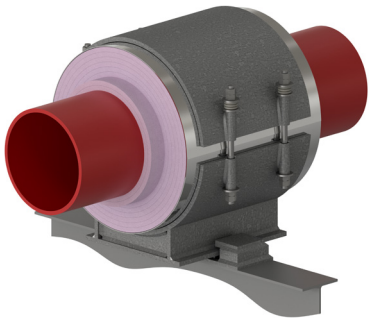
Hot **G**uide **P**yro**W**rap

METRIC



L (mm)*	Max. Axial Travel (mm)	
	Centered	Offset
150	38	76
300	115	230

* L + 150mm for pipe sizes > 42"



*W - Dimension is calculated by multiplying (INSULATION OD*0.65).

Applications & Features:

- Temperature range from -40 Deg C to 650 Deg C
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RHS-850
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral Load (As Shown in Tables or Custom)
- Lateral (3 mm) & Axial (See Table) Travel

** Information presented on this page subject to change without notice.

Notes:

1) Dimensions in millimeters unless noted

2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

NOM PIPE SIZE	**LOW** LOAD OPTION		**HIGH** LOAD OPTION		INSULATION THICKNESS															
					10mm				20mm				30mm				40mm			
	VERT. (kN)	LAT. (kN)	VERT. (kN)	LAT. (kN)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	0.7	0.2	2.0	0.7	102	53	122	157	102	74	142	168	102	94	163	178	102	114	183	188
1-1/2"	1.1	0.4	2.9	1.0	102	69	137	173	102	89	157	183	102	109	178	193	102	127	196	203
2"	1.3	0.5	3.6	1.2	102	81	150	185	102	99	168	196	102	119	188	206	102	140	208	213
3"	2.4	0.8	9.3	4.7	102	109	178	213	102	130	198	224	102	150	218	234	102	168	236	244
4"	3.7	1.3	15	7.5	102	135	203	239	102	155	224	249	102	175	244	259	102	193	262	269
6"	5.7	2.0	23	11	102	188	257	292	102	208	277	302	102	229	297	312	102	249	318	323
8"	7.6	2.6	30	15	102	239	307	343	102	259	328	353	102	279	348	363	102	300	368	373
10"	8.9	3.1	36	18	102	292	361	396	102	312	381	406	102	333	401	417	102	353	422	427
12"	9.8	3.4	39	20	102	343	411	447	102	363	432	457	102	384	452	467	102	404	472	478
14"	11	3.9	45	22	102	376	445	480	102	396	465	490	102	417	485	500	102	434	503	511
16"	13	4.5	52	26	102	427	495	531	102	447	516	541	102	467	536	551	102	485	554	561
18"	14	5.0	57	29	102	478	546	582	102	498	566	592	102	518	587	602	102	536	605	612
20"	15	5.3	61	30	102	528	597	632	102	549	617	643	102	569	638	653	102	587	655	663
24"	16	5.6	64	32	102	630	699	734	102	650	719	744	102	671	739	754	102	688	757	765
30"	21	7.3	84	42	102	782	851	886	102	803	871	897	102	823	892	907	152	841	909	968
36"	25	8.6	98	49	102	935	1003	1039	102	955	1024	1049	102	975	1044	1059	152	993	1062	1120
42"	28	9.7	110	39	102	1087	1156	1191	102	1107	1176	1201	102	1128	1196	1212	152	1146	1214	1273

Patent No. US10,252,490 and US11,014,333 (See page 113 for international patents)

Vertically Restrained Guided

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)	Lateral Load
HGPW	- 8 x	30	- 100	- 300	- 19	- 6.8

Hot **G**uide **P**yro**W**rap

METRIC

NOM PIPE SIZE	**LOW** LOAD OPTION		**HIGH** LOAD OPTION		INSULATION THICKNESS															
					50mm				60mm				70mm				80mm			
	VERT. (kN)	LAT. (kN)	VERT. (kN)	LAT. (kN)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	0.7	0.2	2.0	0.7	102	135	203	198	102	152	221	208	152	173	241	269	152	193	262	279
1-1/2"	1.1	0.4	2.9	1.0	102	147	216	213	102	168	236	224	152	188	257	284	152	208	277	292
2"	1.3	0.5	3.6	1.2	102	160	229	224	102	180	249	234	152	201	269	295	152	221	290	305
3"	2.4	0.8	9.3	4.7	102	188	257	254	102	208	277	264	152	229	297	325	152	249	318	333
4"	3.7	1.3	15	7.5	102	213	282	279	102	234	302	290	152	254	323	351	152	274	343	358
6"	5.7	2.0	23	11	102	269	338	333	102	287	356	343	152	307	376	404	152	328	396	414
8"	7.6	2.6	30	15	102	320	389	384	152	338	406	445	152	358	427	455	152	378	447	465
10"	8.9	3.1	36	18	102	373	442	437	152	394	462	498	152	414	483	508	152	432	500	518
12"	9.8	3.4	39	20	102	424	493	488	152	445	513	549	152	465	533	559	152	483	551	569
14"	11	3.9	45	22	102	455	523	521	152	475	544	582	152	495	564	592	152	516	584	599
16"	13	4.5	52	26	152	505	574	622	152	526	594	632	152	546	615	643	203	566	635	701
18"	14	5.0	57	29	152	556	625	673	152	577	645	683	152	597	665	693	203	617	686	752
20"	15	5.3	61	30	152	607	676	724	152	627	696	734	152	648	716	744	203	668	737	803
24"	16	5.6	64	32	152	709	777	826	152	729	798	836	152	749	818	846	203	770	838	904
30"	21	7.3	84	42	152	861	930	978	152	881	950	988	152	902	970	998	203	922	991	1057
36"	25	8.6	98	49	152	1013	1082	1130	152	1034	1102	1140	152	1054	1123	1151	203	1074	1143	1209
42"	28	9.7	110	39	152	1166	1234	1283	152	1186	1255	1293	152	1207	1275	1303	203	1227	1295	1361

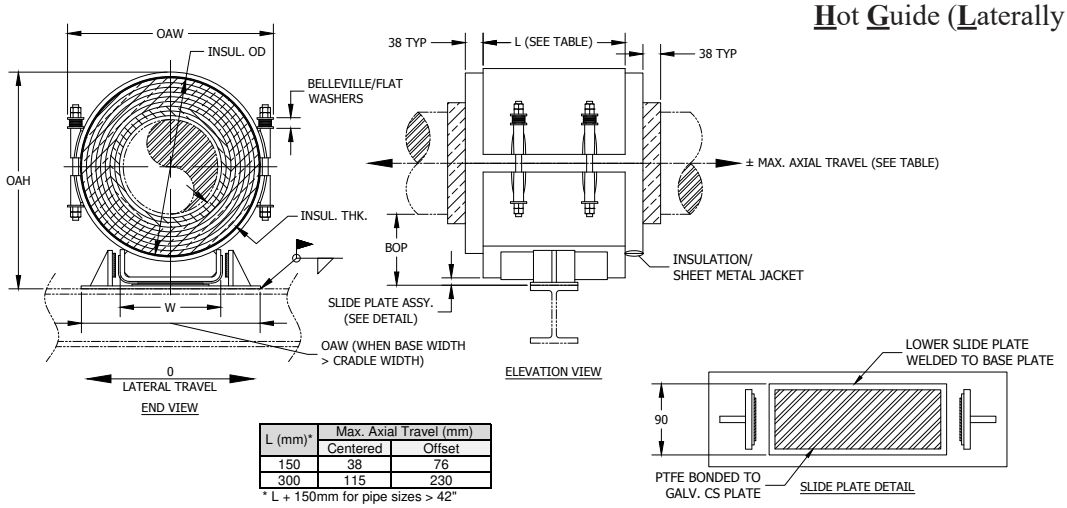
NOM PIPE SIZE	**LOW** LOAD OPTION		**HIGH** LOAD OPTION		INSULATION THICKNESS															
					90mm				100mm				110mm				120mm			
	VERT. (kN)	LAT. (kN)	VERT. (kN)	LAT. (kN)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	0.7	0.2	2.0	0.7	152	213	282	290	152	234	302	300	203	254	323	358	203	274	343	368
1-1/2"	1.1	0.4	2.9	1.0	152	229	297	302	152	249	318	312	203	269	338	373	203	287	356	384
2"	1.3	0.5	3.6	1.2	152	241	310	315	152	259	328	325	203	279	348	386	203	300	368	396
3"	2.4	0.8	9.3	4.7	152	269	338	343	152	290	358	353	203	310	378	414	203	328	396	424
4"	3.7	1.3	15	7.5	152	295	363	368	152	315	384	378	203	335	404	439	203	353	422	450
6"	5.7	2.0	23	11	152	348	417	424	152	368	437	434	203	389	457	495	203	409	478	503
8"	7.6	2.6	30	15	152	399	467	475	152	419	488	485	203	439	508	546	203	460	528	554
10"	8.9	3.1	36	18	152	452	521	528	152	472	541	538	203	493	561	599	203	513	582	610
12"	9.8	3.4	39	20	152	503	572	579	152	523	592	589	203	544	612	650	203	564	632	660
14"	11	3.9	45	22	152	536	605	610	152	556	625	620	203	577	645	681	203	594	663	691
16"	13	4.5	52	26	203	587	655	711	203	607	676	721	203	627	696	732	203	645	714	742
18"	14	5.0	57	29	203	638	706	762	203	658	726	772	203	678	747	782	203	696	765	792
20"	15	5.3	61	30	203	688	757	813	203	709	777	823	203	729	798	833	203	747	815	843
24"	16	5.6	64	32	203	790	859	914	203	810	879	925	203	831	899	935	203	848	917	945
30"	21	7.3	84	42	203	942	1011	1067	203	963	1031	1077	203	983	1052	1087	203	1001	1069	1097
36"	25	8.6	98	49	203	1095	1163	1219	203	1115	1184	1229	203	1135	1204	1240	203	1153	1222	1250
42"	28	9.7	110	39	203	1247	1316	1372	203	1267	1336	1382	203	1288	1356	1392	203	1306	1374	1402

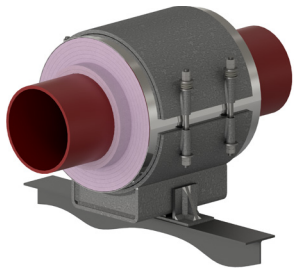
Guided

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)	Lateral Load (kN)
HG(L)PW	- 8 x	30 -	100 -	300 -	7.6 -	3.8

Hot **G**uide (**L**aterally Restrained) **P**yro**W**rap





L (mm)*	Max. Axial Travel (mm)	
	Centered	Offset
150	38	76
300	115	230

* L + 150mm for pipe sizes > 42"

*W - Dimension is calculated by multiplying (INSULATION OD*0.65).

Applications & Features:

- Temperature range from -40 Deg C to 650 Deg C
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RHS-850
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
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- Vertical Load (As Shown in Tables or Custom)
- Lateral Load (As Shown in Tables or Custom)
- Lateral (3 mm) & Axial (See Table) Travel

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Notes:
1) Dimensions in millimeters unless noted

2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

NOM PIPE SIZE	**LOW** LOAD OPTION		**HIGH** LOAD OPTION		INSULATION THICKNESS															
					10mm				20mm				30mm				40mm			
	VERT. (kN)	LAT. (kN)	VERT. (kN)	LAT. (kN)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	1.0	0.5	4.0	2.0	x	x	x	x	x	x	x	x	x	x	x	x	100	114	178	191
1-1/2"	1.4	0.7	5.8	2.9	x	x	x	x	x	x	x	x	100	109	178	191	100	130	191	203
2"	1.7	0.8	6.7	3.3	x	x	x	x	100	102	178	191	100	122	191	203	100	142	203	216
3"	2.4	1.2	9.3	4.7	100	109	178	216	100	130	191	216	100	150	203	229	100	170	216	241
4"	3.7	1.9	15	7.5	100	135	191	241	100	155	203	241	100	175	229	254	100	196	241	267
6"	5.7	2.8	23	11	100	191	279	292	100	208	292	305	100	229	305	318	100	249	318	318
8"	7.6	3.8	30	15	100	241	318	343	100	259	330	356	100	279	343	368	100	300	356	368
10"	8.9	4.4	36	18	100	295	406	394	100	315	419	406	100	335	432	419	100	353	445	432
12"	9.8	4.9	39	20	100	345	432	445	100	366	445	457	100	386	457	470	100	404	470	483
14"	11	5.6	44	22	100	376	457	483	100	396	470	495	100	417	483	495	100	437	495	508
16"	13	6.4	52	26	100	427	483	533	100	447	508	546	100	467	533	559	100	488	546	559
18"	14	7.1	57	28	100	478	546	584	100	498	572	597	100	518	597	610	100	538	610	610
20"	15	7.6	60	30	100	528	597	635	100	549	622	648	100	569	648	660	100	589	660	660
24"	16	8.0	64	32	100	630	699	737	100	650	724	749	100	671	749	762	100	691	762	775
30"	21	10	84	42	100	782	851	889	100	803	876	902	100	823	902	914	150	843	914	978
36"	24	12	98	49	100	935	1003	1041	100	955	1029	1054	100	975	1054	1067	150	996	1067	1130
42"	28	14	110	55	100	1087	1168	1194	100	1107	1194	1207	100	1128	1207	1219	150	1148	1232	1283

Patent No. US10,252,490 and US11,014,333 (See page 113 for international patents)

Guided

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)	Lateral Load (kN)
HG(L)PW -	8 x	30 -	100 -	300 -	7.6 -	3.8

Hot **G**uide (**L**aterally Restrained) **P**yro**W**rap

METRIC

NOM PIPE SIZE	**LOW** LOAD OPTION		**HIGH** LOAD OPTION		INSULATION THICKNESS															
					50mm				60mm				70mm				80mm			
	VERT. (kN)	LAT. (kN)	VERT. (kN)	LAT. (kN)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	1.0	0.5	4.0	2.0	100	135	191	191	100	155	203	203	150	175	229	267	150	196	241	279
1-1/2"	1.4	0.7	5.8	2.9	100	150	203	216	100	170	216	216	150	191	241	279	150	208	254	292
2"	1.7	0.8	6.7	3.3	100	163	216	229	100	180	229	229	150	201	254	292	150	221	267	305
3"	2.4	1.2	9.3	4.7	100	191	241	254	100	211	254	267	150	231	279	318	150	249	292	330
4"	3.7	1.9	15	7.5	100	216	267	279	100	236	279	292	150	257	305	343	150	274	318	356
6"	5.7	2.8	23	11	100	269	330	330	100	290	356	343	150	310	368	406	150	330	394	419
8"	7.6	3.8	30	15	100	320	381	381	150	340	406	445	150	361	419	457	150	381	445	470
10"	8.9	4.4	36	18	100	373	457	432	150	394	470	495	150	414	483	508	150	434	495	521
12"	9.8	4.9	39	20	100	424	483	483	150	445	508	546	150	465	521	559	150	485	546	572
14"	11	5.6	44	22	100	457	521	521	150	478	533	584	150	498	559	597	150	516	572	597
16"	13	6.4	52	26	150	508	572	622	150	528	584	635	150	549	610	648	150	566	622	660
18"	14	7.1	57	28	150	559	635	673	150	579	648	686	150	599	673	699	150	617	686	711
20"	15	7.6	60	30	150	610	686	724	150	630	699	737	150	650	724	749	150	668	737	762
24"	16	8.0	64	32	150	711	787	826	150	732	800	838	150	752	826	851	150	770	838	864
30"	21	10	84	42	150	864	940	978	150	884	953	991	150	904	978	1003	200	922	991	1067
36"	24	12	98	49	150	1016	1092	1130	150	1036	1105	1143	150	1057	1130	1156	200	1074	1143	1219
42"	28	14	110	55	150	1168	1245	1283	150	1189	1270	1295	150	1209	1295	1308	200	1227	1308	1372

NOM PIPE SIZE	**LOW** LOAD OPTION		**HIGH** LOAD OPTION		INSULATION THICKNESS															
					90mm				100mm				110mm				120mm			
	VERT. (kN)	LAT. (kN)	VERT. (kN)	LAT. (kN)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	1.0	0.5	4.0	2.0	150	216	267	292	150	234	279	292	200	254	305	356	200	274	318	368
1-1/2"	1.4	0.7	5.8	2.9	150	229	279	305	150	249	292	318	200	269	318	368	200	290	343	381
2"	1.7	0.8	6.7	3.3	150	241	292	318	150	262	305	330	200	282	330	381	200	302	356	394
3"	2.4	1.2	9.3	4.7	150	269	318	343	150	290	343	356	200	310	356	419	200	330	381	419
4"	3.7	1.9	15	7.5	150	295	343	368	150	315	368	381	200	335	381	445	200	356	406	445
6"	5.7	2.8	23	11	150	351	406	419	150	368	432	432	200	389	445	495	200	409	470	508
8"	7.6	3.8	30	15	150	401	457	470	200	419	483	533	200	439	495	546	200	460	521	559
10"	8.9	4.4	36	18	150	455	521	533	200	475	533	584	200	495	559	597	200	513	572	610
12"	9.8	4.9	39	20	150	505	572	584	200	526	584	635	200	546	610	648	200	564	622	660
14"	11	5.6	44	22	150	536	597	610	200	556	622	673	200	577	635	686	200	597	660	686
16"	13	6.4	52	26	200	587	648	711	200	607	673	724	200	627	686	737	200	648	711	749
18"	14	7.1	57	28	200	638	711	762	200	658	737	775	200	678	749	787	200	699	775	800
20"	15	7.6	60	30	200	688	762	813	200	709	787	826	200	729	800	838	200	749	826	851
24"	16	8.0	64	32	200	790	864	927	200	810	889	927	200	831	902	940	200	851	927	953
30"	21	10	84	42	200	942	1016	1080	200	963	1041	1080	200	983	1054	1092	250	1003	1080	1156
36"	24	12	98	49	200	1095	1168	1232	200	1115	1194	1232	200	1135	1207	1245	250	1156	1232	1308
42"	28	14	110	55	200	1247	1334	1384	200	1267	1346	1384	200	1288	1372	1397	250	1308	1384	1461

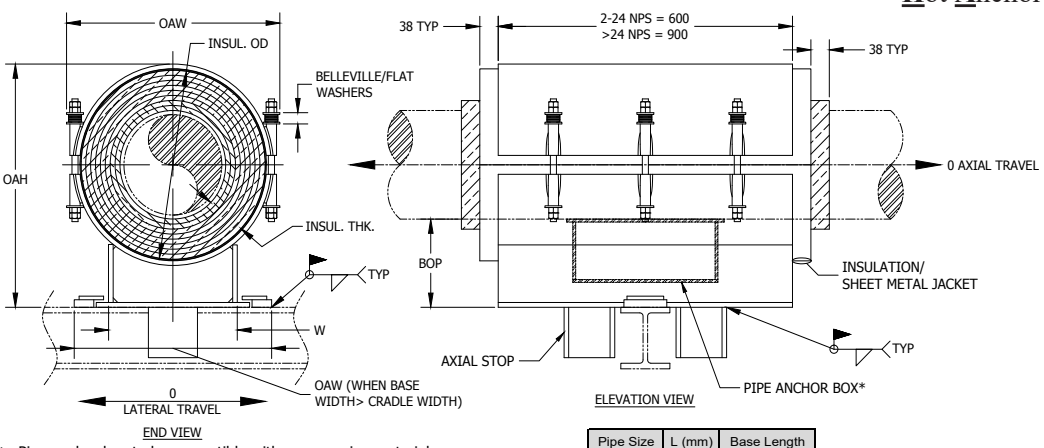
Anchor

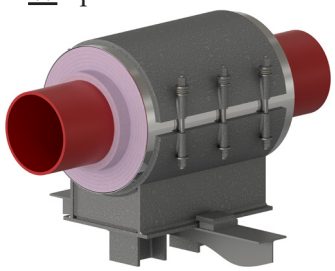
METRIC

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)	Lateral Load (kN)	Axial Load (kN)
HAPW -	8 x	30 -	100 -	600 -	7.6 -	2.6 -	13

Hot **A**nchor **P**yro**W**rap





The lengths shown are minimum lengths based on support fabrication requirements. Customer to confirm required base lengths based on field supporting structure dimensions. Alternating stop guide signs available for dimensional conflicts.

Pipe Size	L (mm)	Base Length
< 356 mm	305	457
≥ 356 mm	457	457

* - Pipe anchor box to be compatible with process pipe material.

*W - Dimension is calculated by multiplying (INSULATION OD*0.65).

Applications & Features:

- Temperature range from -40 Deg C to 650 Deg C
- Higher temperature applications available
- Teflon®/2B SS 304 slide plates on shoe and supporting steel
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- Patented anchor system allows increased load carrying capability and decreased heat transfer
- See technical specification RHS-850
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- BOP (See Tables for Standard or Custom)
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)
- Lateral Load (As Shown in Tables or Custom)
- Axial Load (As Shown in Tables or Custom)

** Information presented on this page subject to change without notice.

Notes:

1) Dimensions in millimeters unless noted

2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE	LOW LOAD OPTION			HIGH LOAD OPTION			INSULATION THICKNESS															
							10mm				20mm				30mm				40mm			
	VERT. (kN)	LAT. (kN)	AXI. (kN)	VERT. (kN)	LAT. (kN)	AXI. (kN)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	0.7	0.2	1.3	2.0	0.7	3.8	102	53	122	157	102	74	142	168	102	94	163	178	102	114	183	188
1-1/2"	1.1	0.4	2.0	2.9	1.0	5.3	102	69	137	173	102	89	157	183	102	109	178	193	102	127	196	203
2"	1.3	0.5	2.4	3.6	1.2	7	102	81	150	185	102	99	168	196	102	119	188	206	102	140	208	213
3"	2.4	0.8	6.2	9	4.7	16	102	109	178	213	102	130	198	224	102	150	218	234	102	168	236	244
4"	3.7	1.3	7.7	14	4.8	21	102	135	203	239	102	155	224	249	102	175	244	259	102	193	262	269
6"	5.7	2.0	11	20	7.1	31	102	188	257	292	102	208	277	302	102	229	297	312	102	249	318	323
8"	7.6	2.6	13	27	9.3	40	102	239	307	343	102	259	328	353	102	279	348	363	102	300	368	373
10"	8.9	3.1	17	33	12	50	102	292	361	396	102	312	381	406	102	333	401	417	102	353	422	427
12"	9.8	3.4	19	39	14	59	102	343	411	447	102	363	432	457	102	384	452	467	102	404	472	478
14"	11	3.9	21	45	16	67	102	376	445	480	102	396	465	490	102	417	485	500	102	434	503	511
16"	13	4.5	24	52	18	77	102	427	495	531	102	447	516	541	102	467	536	551	102	485	554	561
18"	14	5.0	27	57	20	85	102	478	546	582	102	498	566	592	102	518	587	602	102	536	605	612
20"	15	5.3	29	61	21	91	102	528	597	632	102	549	617	643	102	569	638	653	102	587	655	663
24"	16	5.6	35	64	22	96	102	630	699	734	102	650	719	744	102	671	739	754	102	688	757	765
30"	21	7.3	43	84	29	125	102	782	851	886	102	803	871	897	102	823	892	907	152	841	909	968
36"	25	8.6	52	98	34	147	102	935	1003	1039	102	955	1024	1049	102	975	1044	1059	152	993	1062	1120
42"	28	9.7	60	110	39	166	102	1087	1156	1191	102	1107	1176	1201	102	1128	1196	1212	152	1146	1214	1273

Patent No. US9,068,685, US 10,288,209 and US10,962,164 (See page 113 for international patents)

Anchor

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	BOP (mm)	Support Length (mm)	Vertical Load (kN)	Lateral Load (kN)	Axial Load (kN)
HAPW -	8 x	30 -	100 -	600 -	7.6 -	2.6 -	13

Hot **A**nchor **P**yro**W**rap

METRIC

PIPE SIZE	LOW LOAD OPTION			HIGH LOAD OPTION			INSULATION THICKNESS															
							50mm				60mm				70mm				80mm			
	VERT. (kN)	LAT. (kN)	AXI. (kN)	VERT. (kN)	LAT. (kN)	AXI. (kN)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	0.7	0.2	1.3	2.0	0.7	3.8	102	135	203	198	102	152	221	208	152	173	241	269	152	193	262	279
1-1/2"	1.1	0.4	2.0	2.9	1.0	5.3	102	147	216	213	102	168	236	224	152	188	257	284	152	208	277	292
2"	1.3	0.5	2.4	3.6	1.2	7	102	160	229	224	102	180	249	234	152	201	269	295	152	221	290	305
3"	2.4	0.8	6.2	9	4.7	16	102	188	257	254	102	208	277	264	152	229	297	325	152	249	318	333
4"	3.7	1.3	7.7	14	4.8	21	102	213	282	279	102	234	302	290	152	254	323	351	152	274	343	358
6"	5.7	2.0	11	20	7.1	31	102	269	338	333	102	287	356	343	152	307	376	404	152	328	396	414
8"	7.6	2.6	13	27	9.3	40	102	320	389	384	152	338	406	445	152	358	427	455	152	378	447	465
10"	8.9	3.1	17	33	12	50	102	373	442	437	152	394	462	498	152	414	483	508	152	432	500	518
12"	9.8	3.4	19	39	14	59	102	424	493	488	152	445	513	549	152	465	533	559	152	483	551	569
14"	11	3.9	21	45	16	67	102	455	523	521	152	475	544	582	152	495	564	592	152	516	584	599
16"	13	4.5	24	52	18	77	152	505	574	622	152	526	594	632	152	546	615	643	203	566	635	701
18"	14	5.0	27	57	20	85	152	556	625	673	152	577	645	683	152	597	665	693	203	617	686	752
20"	15	5.3	29	61	21	91	152	607	676	724	152	627	696	734	152	648	716	744	203	668	737	803
24"	16	5.6	35	64	22	96	152	709	777	826	152	729	798	836	152	749	818	846	203	770	838	904
30"	21	7.3	43	84	29	125	152	861	930	978	152	881	950	988	152	902	970	998	203	922	991	1057
36"	25	8.6	52	98	34	147	152	1013	1082	1130	152	1034	1102	1140	152	1054	1123	1151	203	1074	1143	1209
42"	28	9.7	60	110	39	166	152	1166	1234	1283	152	1186	1255	1293	152	1207	1275	1303	203	1227	1295	1361

PIPE SIZE	LOW LOAD OPTION			HIGH LOAD OPTION			INSULATION THICKNESS															
							90mm				100mm				110mm				120mm			
	VERT. (kN)	LAT. (kN)	AXI. (kN)	VERT. (kN)	LAT. (kN)	AXI. (kN)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)	BOP (mm)	INSUL. OD (mm)	OAW (mm)	OAH (mm)
1"	0.7	0.2	1.3	2.0	0.7	3.8	152	213	282	290	152	234	302	300	203	254	323	358	203	274	343	368
1-1/2"	1.1	0.4	2.0	2.9	1.0	5.3	152	229	297	302	152	249	318	312	203	269	338	373	203	287	356	384
2"	1.3	0.5	2.4	3.6	1.2	7	152	241	310	315	152	259	328	325	203	279	348	386	203	300	368	396
3"	2.4	0.8	6.2	9	4.7	16	152	269	338	343	152	290	358	353	203	310	378	414	203	328	396	424
4"	3.7	1.3	7.7	14	4.8	21	152	295	363	368	152	315	384	378	203	335	404	439	203	353	422	450
6"	5.7	2.0	11	20	7.1	31	152	348	417	424	152	368	437	434	203	389	457	495	203	409	478	503
8"	7.6	2.6	13	27	9.3	40	152	399	467	475	152	419	488	485	203	439	508	546	203	460	528	554
10"	8.9	3.1	17	33	12	50	152	452	521	528	152	472	541	538	203	493	561	599	203	513	582	610
12"	9.8	3.4	19	39	14	59	152	503	572	579	152	523	592	589	203	544	612	650	203	564	632	660
14"	11	3.9	21	45	16	67	152	536	605	610	152	556	625	620	203	577	645	681	203	594	663	691
16"	13	4.5	24	52	18	77	203	587	655	711	203	607	676	721	203	627	696	732	203	645	714	742
18"	14	5.0	27	57	20	85	203	638	706	762	203	658	726	772	203	678	747	782	203	696	765	792
20"	15	5.3	29	61	21	91	203	688	757	813	203	709	777	823	203	729	798	833	203	747	815	843
24"	16	5.6	35	64	22	96	203	790	859	914	203	810	879	925	203	831	899	935	203	848	917	945
30"	21	7.3	43	84	29	125	203	942	1011	1067	203	963	1031	1077	203	983	1052	1087	203	1001	1069	1097
36"	25	8.6	52	98	34	147	203	1095	1163	1219	203	1115	1184	1229	203	1135	1204	1240	203	1153	1222	1250
42"	28	9.7	60	110	39	166	203	1247	1316	1372	203	1267	1336	1382	203	1288	1356	1392	203	1306	1374	1402

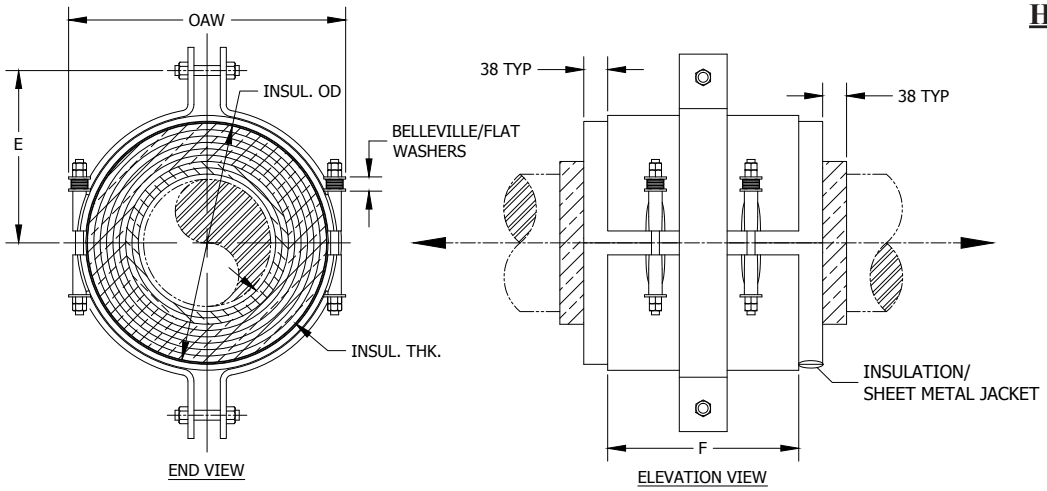
Hanging

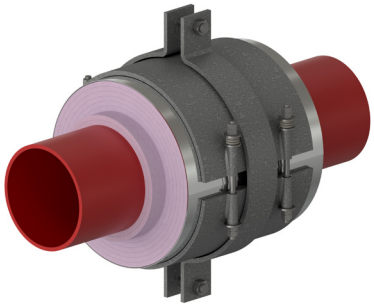
METRIC

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	Support Length (F)	Vertical Load (kN)
HHPW	8	30	229	5.3

Hot **H**anging **P**yro**W**rap





Applications & Features:

- Temperature range from -40 Deg C to 650 Deg C
- Higher temperature applications available
- Design loads based on a insulation safety factor of 5
- A36 steel construction
- See technical specification RHS-850
- Test results available upon request
- Steel finish available in galvanized finish or painted
- Increased loading capability available. Contact Rilco for additional information
- Support constructed in accordance with ASME B31.1, B31.3 and MSS-SP58
- A307 or A193 B7 plated bolts/studs

For special applications or for information on other insulation thicknesses or pipe sizes, please contact us!

Ordering Instructions:

To Order, Please Specify:
- Model Number
- Nominal Pipe Size
- Insulation Thickness
- Support Length (As Shown in Tables or Custom)
- Vertical Load (As Shown in Tables or Custom)

** Information presented on this page subject to change without notice.

Notes:
1) Dimensions in millimeters unless noted
2) For High Loads or Special Dimensions contact us at (713) 466-4777 or sales@rilco.com.

PIPE SIZE	LOW VERT. LOAD (kN)	HIGH VERT. LOAD (kN)	INSULATION THICKNESS															
			10mm				20mm				30mm				40mm			
			INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)
1"	0.4	0.8	56	229	114	61	74	229	191	69	94	229	216	79	114	229	241	89
1-1/2"	0.7	1.7	69	229	127	66	89	229	191	76	109	229	216	86	130	229	241	97
2"	1.1	2.5	81	229	140	74	102	229	191	84	122	229	216	94	142	229	241	104
3"	1.6	4.2	109	229	165	86	130	229	216	97	150	229	229	107	170	229	241	117
4"	2.1	6	135	229	191	99	155	229	267	109	175	229	292	119	196	229	305	130
6"	3.6	9.4	191	229	241	127	208	229	318	137	229	229	343	147	249	229	356	157
8"	5.8	12.8	241	229	292	157	259	229	381	165	279	229	394	175	300	229	419	193
10"	8.9	16.3	295	229	343	191	315	229	432	201	335	229	445	211	353	229	470	218
12"	10.7	19.7	345	305	394	229	366	305	457	239	386	305	483	279	404	305	495	287
14"	11.1	23.1	376	305	445	246	396	305	508	287	417	305	533	297	437	305	546	307
16"	14.7	26.6	427	305	495	302	447	305	572	312	467	305	597	323	488	305	610	333
18"	15.6	30	478	305	546	330	498	305	622	340	518	305	648	351	538	305	660	361
20"	16	33.4	528	305	597	356	549	305	724	366	569	305	749	376	589	305	762	396
24"	20	40.3	630	381	699	427	650	381	876	460	671	381	902	470	691	381	914	480
30"	21.4	50.6	782	381	851	531	803	381	1029	541	823	381	1054	551	843	381	1067	561
36"	28.9	60.9	935	381	1003	615	955	381	1194	625	975	381	1207	635	996	381	1232	645
42"	36.5	71.2	1087	381	1156	714	1107	381	1346	724	1128	381	1359	734	1148	381	1384	744

Hanging

DESIGNATION EXAMPLE

Model No.	Nominal Pipe Size	Insulation Thickness	Support Length (F)	Vertical Load (kN)
HHPW	8	30	229	5.3

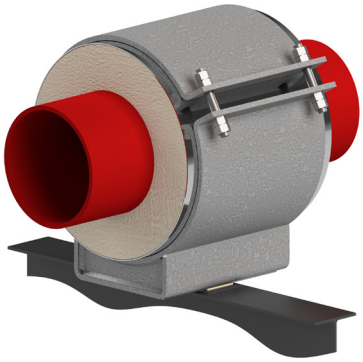
Hot **H**anging **P**yro**W**rap

METRIC

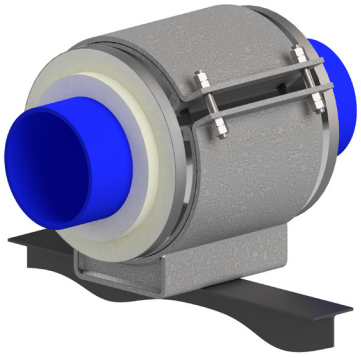
PIPE SIZE	LOW VERT. LOAD (kN)	HIGH VERT. LOAD (kN)	INSULATION THICKNESS															
			50mm				60mm				70mm				80mm			
			INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)
1"	0.4	0.8	135	229	267	99	155	229	318	109	175	229	318	119	196	229	318	130
1-1/2"	0.7	1.7	150	229	267	107	170	229	318	117	191	229	318	127	208	229	318	137
2"	1.1	2.5	163	229	267	114	180	229	318	122	201	229	318	132	221	229	318	142
3"	1.6	4.2	191	229	267	127	211	229	318	137	231	229	318	147	249	229	318	157
4"	2.1	6	216	229	330	140	236	229	356	150	257	229	368	160	274	229	394	170
6"	3.6	9.4	269	229	381	168	290	229	406	178	310	229	419	188	330	229	445	198
8"	5.8	12.8	320	229	432	203	340	229	457	213	361	229	470	224	381	229	495	234
10"	8.9	16.3	373	229	483	229	394	229	508	239	414	229	521	249	434	305	546	267
12"	10.7	19.7	424	305	521	297	445	305	533	307	465	305	559	318	485	305	572	328
14"	11.1	23.1	457	305	572	318	478	305	584	328	498	305	610	338	516	305	622	345
16"	14.7	26.6	508	305	635	343	528	305	648	353	549	305	673	363	566	305	686	371
18"	15.6	30	559	305	686	371	579	305	699	381	599	305	724	391	617	305	737	401
20"	16	33.4	610	305	787	406	630	305	800	417	650	305	826	427	668	305	838	437
24"	20	40.3	711	381	940	490	732	381	953	500	752	381	978	511	770	381	991	518
30"	21.4	50.6	864	381	1092	572	884	381	1105	582	904	381	1130	592	922	381	1143	602
36"	28.9	60.9	1016	381	1245	655	1036	381	1270	665	1057	381	1295	676	1074	381	1308	683
42"	36.5	71.2	1168	381	1397	754	1189	381	1422	765	1209	381	1448	775	1227	381	1461	782

PIPE SIZE	LOW VERT. LOAD (kN)	HIGH VERT. LOAD (kN)	INSULATION THICKNESS															
			90mm				100mm				110mm				120mm			
			INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)	INSUL. OD (mm)	F (mm)	OAW (mm)	E (mm)
1"	0.4	0.8	216	229	318	140	234	229	318	150	254	229	318	160	274	229	343	170
1-1/2"	0.7	1.7	229	229	318	147	249	229	318	157	269	229	330	168	290	229	356	178
2"	1.1	2.5	241	229	318	152	262	229	330	163	282	229	343	173	302	229	368	183
3"	1.6	4.2	269	229	343	168	290	229	368	178	310	229	381	188	330	229	406	198
4"	2.1	6	295	229	406	180	315	229	432	191	335	229	445	201	356	229	470	211
6"	3.6	9.4	351	229	457	208	368	229	483	216	389	229	495	226	409	229	521	236
8"	5.8	12.8	401	229	521	244	419	229	533	251	439	229	559	262	460	229	572	272
10"	8.9	16.3	455	305	572	277	475	305	584	287	495	305	610	297	513	305	622	305
12"	10.7	19.7	505	305	597	338	526	305	622	348	546	305	635	358	564	305	660	368
14"	11.1	23.1	536	305	648	356	556	305	673	366	577	305	686	376	597	305	711	386
16"	14.7	26.6	587	305	711	381	607	305	737	391	627	305	749	401	648	305	775	411
18"	15.6	30	638	305	762	422	658	305	787	432	678	305	800	442	699	305	826	452
20"	16	33.4	688	305	864	447	709	305	889	457	729	305	902	467	749	381	927	478
24"	20	40.3	790	381	1016	528	810	381	1041	538	831	381	1054	549	851	381	1080	559
30"	21.4	50.6	942	381	1168	612	963	381	1194	25	983	381	1207	632	1003	381	1232	643
36"	28.9	60.9	1095	381	1334	716	1115	381	1346	726	1135	381	1372	737	1156	381	1384	747
42"	36.5	71.2	1247	381	1486	792	1267	381	1499	803	1288	381	1524	813	1308	381	1537	823

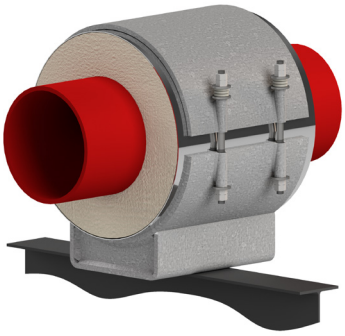
ADDITIONAL SUPPORTS



Calcium Silicate Resting- Bent Ear

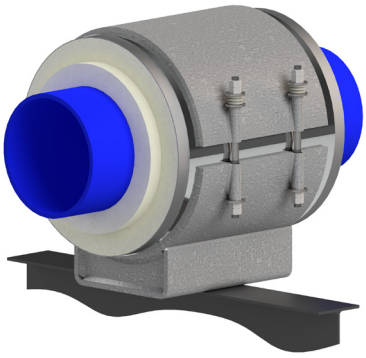


Polyurethane Resting- Bent Ear

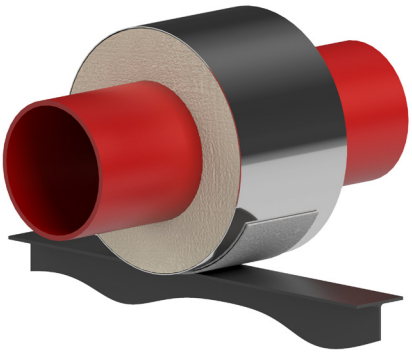


Calcium Silicate Resting- Sleeve

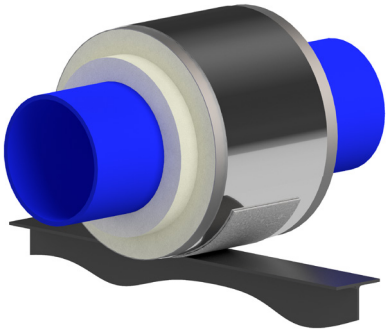
ADDITIONAL SUPPORTS



Polyurethane Resting- Sleeve



Calcium Silicate- Flat



Polyurethane- Flat

RILCO MANUFACTURING CO, INC

HOUSTON, TEXAS

SPECIFICATION No. RHS-850

SPECIFICATION

FOR

FURNISH AND DELIVERING

OF

HIGH TEMPERATURE INSULATED PIPE SUPPORTS

RILCO Spec. RHS-850

High Temperature Insulated Pipe Support Specification

1. Scope

a. This specification covers the requirements for design, fabrication and use of load bearing type high temperature insulated pipe supports. It is applicable to pipes having a surface temperature ranges of -10 °F (-23 °C) to 1200 °F (650 °C).

2. General Requirements

a. Insulated pipe supports shall comply with the latest edition of the following:

i. ANSI/ASME B31.1& B31.3

ii. Manufacturers Standardization Society SP-58, 69 & 89.

b. Consideration shall be given to the following criteria in the selection of insulated supports:

i. Vertical, lateral and axial support design load limits.

ii. Vertical, lateral and axial support design travel limits.

iii. Support temperature design limits both at the pipe and support outside ambient temperature.

iv. Any test or installation loadings or displacements that may exceed normal system operating conditions.

v. Required dimensional clearances needed during installation and system operation should be specified.

vi. Material used in welded pipe attachment should be compatible with the pipe.

vii. Consideration should be given to loadings and displacements resulting from seismic, water hammer and similar conditions.

c. At the request of the owner or his designee, calculations and other related documentation which demonstrate adequacy and compliance of the insulated support with the design requirements, shall be made available for his review.

d. At the request of the owner or his designee, localized stress calculations for lugs or other welded pipe attachment shall be made available for his review.

e. Any special requirements such as material test reports or certified mill test reports shall be specified in advance.

3.Design Criteria

a. The load bearing insulating materials used in the supplied insulated support shall be of the same material that was used to load rate the support.

b. At the request of the owner or his designee, supplier shall make available compressive strength testing results of high density calcium silicate (HDCS) by an independent laboratory in a format provided for in MSS SP-89. Compressive strength values or test data from HDCS manufacturer's published technical data sheets are not acceptable. Testing of material shall take place at minimum temperature of 1200 °F.

c. At the request of the owner or his designee, a description of the basis used to load rate the insulated pipe support shall be provided for evaluation. A minimum safety factor of five at the system design temperature shall be used in determining the insulated pipe support load rating.

d. The testing used to establish load bearing insulation compressive properties shall comply with ASTM C165, Standard Test Method for Measuring Compressive Properties of Thermal Insulation.

e. The load bearing element load capacity shall be demonstrated at the piping system design temperature and load.

f. The insulated pipe support assembly shall exert a minimum clamping force on the pipe to assure that the assembly will move axially with the pipe and not slip relatively to the pipe when subjected to the design conditions.

g. All sliding surfaces shall be designed in such a manner as to limit the coefficient of friction 0.10 for the system design life without requiring lubrication. Any friction reducing material used that requires bonding shall be bonded to the backing structure prior to shipment to the job site.

h. The lower design temperature of the unit both at the pipe surface shall be -10 °F (-23°C). The maximum outside unit design temperature shall be 200 °F (93 °C) and the maximum surface pipe temperature of 1200 °F (650 °C). (For lower and higher temperatures, contact the pipe support supplier)

i. Required properties of the load bearing insulating materials under design conditions.

i. maximum thermal conductivity of 1.2 BTU-in/ft2-hr-°F at mean insulation temperature of 700 °F.

ii. maximum of 1/32" insulation deformation under the pipe is allowed due to permanent consolidation of the load bearing insulation.

iii. maximum of 1/32" additional non-permanent insulation deformation under the pipe beyond that of (b) above is permitted.

4. Fabrication

a. The insulated pipe support shall:

i. have a means of withstanding clamping forces transferred to insulating materials from the steel housing.

ii. The load bearing and non-load bearing insulation shall comply with ASTM C 656 Type I specification requirements and be treated with a silicone water repellent to prevent degradation resulting from moisture during storage.

iii. have the insulation I.D. and O.D. dimensions per ASTM Specification C 585 unless otherwise specified.

b. Designs having sliding surfaces shall incorporate two slide plates at each sliding surface. Each slide plate shall be composed of a 3/32" thick glass filled reinforced teflon bonded to a 10 GA carbon steel backing plate. Where these plates are to be welded, the teflon should be recessed 1/4" from the plate edge.

c. All welding shall comply with the requirements Section IX of the ASME Boiler and Pressure Vessel Code and AWS D1.1.

d. The following items, unless otherwise noted on contract drawings, shall be in accordance with the following:

i. Structural shapes and plate: ASTM A36/A516

ii. Bolts/Studs ASTM A307/A193 Grade B7, A563/A194-2H

5. Shipping and Handling

a. Each insulated support assemblies shall be clearly and permanently marked with the support identification number. The marking shall withstand water and fading when exposed to sun light.

b. The support marking must be place in a location that it is visible prior to as well as after installation.

c. Each container shall have a packing list both inside and attached to the outside of the container.

d. Prior to installation, the supports shall be stored in a dry covered area to avoid exposure to sunlight, rain and moisture.

6. Extent of Work

a. Work Included

i. Furnish the insulated pipe support assembly, encompassing the insulating materials, metal jacket, fabricating steel housing, guide clips, associated hardware including clamps, bolts and nuts, screws, slide element(s) etc. that may be required to make a complete assembly.

b. Work Not Included

i. Receiving, unloading and installing of the insulated pipe support.

7. Quotation

a. Bidder shall provide with the proposal a unit and extended pricing for of each assembly. Bidder shall total all pricing on bid.

8. Information to be Furnished After Award but Prior to Shipping

a. The supplier shall furnish installation instructions necessary for the proper installation of support.

9. Correspondence

a. All correspondence, drawings and other submittals shall bear reference to:

_____

b. Correspondence pertaining to engineering, shipping (weights and dimensions included) and changes to the purchase order or specification not covered by formal Change Order to the Purchase Order shall be sent to:

_____

c. Correspondence pertaining to purchasing shall be sent to:

_____

10. Guarantees

a. The supplier shall guarantee that performance and design of the equipment is in strict accordance with this specification.

11. Delivery

a. Delivery schedule and shipping method provided at time of quote.

RILCO MANUFACTURING CO. INC.

HOUSTON, TX 77041

SPECIFICATION No. RCS-750

SPECIFICATION

FOR

FURNISHING AND DELIVERING

OF

LOW TEMPERATURE INSULATED PIPE SUPPORTS

RILCO Spec. RCS-750

Low Temperature Insulated Pipe Support Specification

1. Scope

a. This specification covers the requirements for design, fabrication and use of load bearing low temperature insulated pipe supports. It is applicable to pipes having a surface temperature range of -475°F (-281 °C) to 275°F (135 °C).

2. General Requirements

a. Insulated pipe supports shall comply with the latest edition of the following:

i. ANSI/ASME B31.l & B31.3

ii. Manufacturers Standardization Society SP-58, 69 & 89.

b. Consideration shall be given to the following criteria in the selection of insulated supports:

i. Vertical, lateral and axial support design load limits.

ii. Vertical, lateral and axial support design travel limits.

iii. Support temperature design limits both at the pipe and support outside ambient temperature.

iv. Any test or installation loadings or displacements that may exceed normal system operating conditions.

v. Required dimensional clearances needed during installation and system operation should be specified.

vi. Material used in welded pipe attachment should be compatible with the pipe.

vii. Consideration should be given to loadings and displacements resulting from seismic, water hammer and similar conditions.

c. At the request of the owner or his designee, calculations and other related documentation which demonstrate adequacy and compliance of the insulated support with the design requirements shall be made available for his review.

d. At the request of the owner or his designee, localized stress calculations for lugs or other welded pipe attachment shall be made available for his review.

e. Any special requirements such as material test reports or certified mill test reports shall be specified in advance.

3. Design Criteria

a. The load bearing insulating materials used in the supplied insulated support shall be of the same material that was used to load rate the support.

b. At the request of the owner or his designee, supplier shall make available compressive strength and thermal conductivity testing results of high-density polyurethane by an independent laboratory in a format provided for in MSS SP-89. Testing of material shall take place at a maximum temperature of -260 °F (-176°).

c. At the request of the owner or his designee, a description of the basis used to load rate the insulated pipe support shall be provided for evaluation. A minimum safety factor of 5 at the system design temperature shall be used in determining the insulate pipe support load rating.

d. The testing used to establish load bearing insulation compressive properties shall comply with ASTM D 1621, Standard Test Method for Compressive Properties of Rigid Cellular Plastics.

e. The testing used to establish thermal conductivity properties of high-density polyurethane shall comply with ASTM C 177-85, Steady State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded Hot Plate Apparatus.

f. The load bearing element load capacity shall be demonstrated at the piping system design temperature and load.

g. The insulated pipe support assembly shall exert a minimum clamping force on the pipe to assure that the assembly will move axially with the pipe and not slip relatively to the pipe when subjected to the design conditions.

h. All sliding surfaces shall be designed in such a manner as to limit the coefficient of friction to 0.10 for the system design life without requiring lubrication. Any friction reducing material used that requires bonding shall be bonded to the backing structure prior to shipment to the job site.

i. High density polyurethane shall have the following maximum thermal conductivities:

i. 6 & 10 lb/cu.ft foam- .16 BTU-in/hr-ft2-°F (0.023 W/meter*K)

ii. 15 lb/cu. ft foam- .20 BTU-in/hr-ft2-°F (0.028 W/meter*K)

iii. 20 lb/cu. ft foam- .25 BTU-in/hr-ft2-°F (0.035 W/meter*K)

j. High density polyurethane shall not contain or use during fabrication environmentally hazardous CFC's.

4. Fabrication

a. High density polyurethane foam shall be monolithic and molded oversized so that all excess material shall be removed by cutting to achieve the final finished dimensions. Molds shall be oversized sufficiently to allow for complete removal of the outer skin on both the inner and outer surfaces.

b. The insulated pipe support shall:

i. have exposed surfaces coated with a mastic to protect the foam from moisture and ultraviolet light degradation. Mastic shall have a minimum perm rating of .02 (ASTM E-96).

ii. have a vapor barrier between the jacket and the insulating material with a maximum perm rating of .02.

iii. have the insulation I.D. and O.D. dimensions per ASTM Specification C 585 unless otherwise specified.

c. Designs having sliding surfaces shall incorporate two slide plates at each sliding surface. Each slide plate shall be composed of a 3/32." thick glass filled reinforced teflon bonded to a 10 GA carbon steel backing plate. Where these plates are to be welded, teflon should be recessed 1/4" from the plate edge.

d. All welding shall comply with requirements Section IX of the ASME Boiler and Pressure Vessel Code and AWS D1.1.

e. The following items, unless otherwise noted on contract drawings, shall be in accordance with the following:

i. Structural shapes and plate: ASTM A36/A516

ii. Bolts/Studs ASTM A307/A193 Grade B7, A563/A194-2H

5. Shipping and Handling

a. Each insulated support assemblies shall be clearly and permanently marked with the support identification number. The marking shall withstand water and fading when exposed to sun light.

b. The support marking must be place in a location that it is visible prior to as well as after installation.

c. Each container shall have a packing list both inside and attached to the outside of the container.

d. Prior to installation, the supports shall be stored in a dry covered area to avoid exposure to sunlight, rain and moisture.

6. Extent of Work

a. Work Included

i. Furnish the insulated pipe support assembly, encompassing the insulating materials, metal jacket, fabricating steel. housing, guide clips, associated hardware including clamps, bolts and nuts, screws, slide element(s) etc. that may be required to make a complete assembly.

b. Work Not Included

i. Receiving, unloading and installing of the insulated pipe support.

7. Quotation

a. Bidder shall provide with the proposal a unit and extended pricing for of each assembly. Bidder shall total all pricing on bid.

8. Information to be Furnished After Award but Prior to Shipping

a. The supplier shall furnish installation instructions necessary for the proper installation of support.

9. Correspondence

a. All correspondence, drawings and other submittals shall bear reference to:

_____

b. Correspondence pertaining to engineering, shipping (weights and dimensions included) and changes to the purchase order or specification not covered by formal Change Order to the Purchase Order shall be sent to:

_____

c. Correspondence pertaining to purchasing shall be sent to:

_____

10. Guarantees

a. The supplier shall guarantee that performance and design of the equipment is in strict accordance with this specification.

11. Delivery

a. Delivery schedule and shipping method provided at time of quote.


RILCO
12700

STANDARD TERMS & CONDITIONS

Terms and Conditions:

1) CONTROLLING PROVISIONS. This document (both pages) entitled "Standard Terms and Conditions" and the attached pricing proposal (which is incorporated herein for all purposes) are collectively referred to herein as the "Proposal." This Proposal, when submitted by the corporation identified as "Seller" on the attached pricing proposal or its authorized representatives (collectively, "Seller") and accepted by the person or entity identified as "Buyer" on the attached pricing proposal or his or its authorized representatives (collectively, "Buyer"), whether such acceptance is oral or in writing, by submission of a purchase order or purchase order number, by acceptance of a product, by commencement of performance hereunder, or by any other means, shall constitute the entire agreement between Buyer and Seller concerning its subject matter, and supersedes all prior agreements and understandings related thereto. Buyer's acceptance of this Proposal is expressly limited to the terms contained herein and no waiver, alteration, modification, amendment, or supplementation of, or conflict with, any provision in this Proposal, whether on Buyer's purchase order, by custom or practice, or otherwise, shall be valid unless such waiver, alteration, modification, amendment, supplementation, or conflict i) is specifically accepted in writing by Seller and signed by an authorized representative of Seller, and ii) specifically states in an obvious and conspicuous manner that it alters, amends, modifies, or supplements (as the case may be) this Proposal. This Proposal shall be governed by the laws of the State of Texas, excluding choice of law rules.

2) DELIVERY. Seller shall make a good faith effort to complete delivery of the products described on the attached pricing proposal, but Seller assumes no responsibility or liability, and will accept no back-charge or reduction in price, for loss or damage due to delay or inability to deliver caused by acts of God, war, labor difficulties, accident, delays of carriers, contractors or suppliers, inability to obtain materials, shortages of fuel and energy, or any other causes of any kind whatsoever beyond the control of Seller. Seller may terminate any agreement for sale of its products and/or services without liability of any nature to Seller by written notice to Buyer, if the delay in delivery or performances resulting from any of the aforesaid causes shall continue for a period of sixty (60) days or more. Under no circumstances shall Seller be liable for any special, consequential, incidental, or punitive damages or for loss, damage, or expense (whether based on negligence or any other form of liability) directly or indirectly arising from any delay or failure to give either notice of delay or notice of termination of an agreement or order. Under no circumstances shall Buyer be entitled to specific performance.

3) WARRANTY. Seller warrants, for one year from the date of shipment of any product manufactured by Seller, that Seller shall replace, correct, or, at its election, refund the net sales price of such manufactured product; provided Seller concludes, after its examination, that such manufactured product contains defects in materials or workmanship, does not conform to the specifications, drawings, or other descriptions supplied by Buyer, and cannot be used for the purpose and in the manner which Seller recommends. EXCEPT AS EXPRESSLY SET FORTH IN THIS PARAGRAPH, ALL PRODUCTS AND/OR SERVICES PROVIDED BY SELLER AND ITS EMPLOYEES AND AGENTS ARE PROVIDED "AS-IS," "WHERE-IS," AND "WITH ALL FAULTS" AND BUYER ACKNOWLEDGES THAT SELLER HAS NOT MADE, DOES NOT MAKE, AND SPECIFICALLY NEGATES, RENOUNCES, AND DISCLAIMS ANY REPRESENTATIONS, WARRANTIES, PROMISES, COVENANTS, AGREEMENTS, AND/OR GUARANTIES OF ANY KIND OR CHARACTER, EXPRESS OR IMPLIED, WITH RESPECT TO (1) THE PRODUCTS SOLD, THEIR MERCHANTABILITY, THEIR PHYSICAL CONDITION, THEIR FITNESS FOR A PARTICULAR PURPOSE, (2) THE MAINTENANCE OR OTHER EXPENSES TO BE INCURRED IN CONNECTION WITH THE PRODUCTS, (3) THE ENGINEERING, DESIGN, OR FABRICATION WORK OR ANY OTHER WORK OR SERVICE (WHETHER GRATUITOUS OR FOR PAYMENT) SUPPLIED BY SELLER AND/OR ITS AGENTS, SUPPLIERS, AND EMPLOYEES, AND (4) THE ACCURACY OR RELIABILITY OF ANY INFORMATION, DESIGNS, OR DOCUMENTS FURNISHED TO PURCHASER. SELLER NEITHER ASSUMES, NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT, ANY OTHER OBLIGATION IN CONNECTION WITH THIS PROPOSAL, INCLUDING, WITHOUT LIMITATION, THE SALE OF ITS PRODUCTS AND/OR RENDERING OF ITS SERVICES. THIS WARRANTY SHALL NOT APPLY TO ANY PRODUCTS OR PARTS OF PRODUCTS WHICH (1) HAVE BEEN REPAIRED OR ALTERED OUTSIDE OF SELLER'S FACTORY, IN ANY MANNER, (2) HAVE BEEN SUBJECTED TO MISUSE, NEGLIGENCE, OR ACCIDENTS, (3) HAVE BEEN USED IN A MANNER CONTRARY TO SELLER'S INSTRUCTIONS, RECOMMENDATIONS, OR SPECIFICATIONS (IF ANY), (4) CONTAIN DESIGN OR MANUFACTURING ERRORS AS A RESULT OF INACCURATE, INCOMPLETE, OR MISLEADING INFORMATION OR SPECIFICATIONS SUPPLIED BY BUYER OR ITS EMPLOYEES OR AGENTS, OR (5) HAVE BEEN PRODUCED OR MANUFACTURED (IN WHOLE OR IN PART) BY PERSONS OTHER THAN SELLER.

4) SELLER'S LIABILITY. SELLER'S LIABILITY FOR BREACH OF THE WARRANTY IN PARAGRAPH 3 SHALL BE EXPRESSLY LIMITED TO AND SHALL NOT EXCEED THE NET SALES PRICE OF THE DEFECTIVE PRODUCT(S), AND NO ADDITIONAL ALLOWANCE SHALL BE MADE FOR THE LABOR OR EXPENSE OF REPAIRING OR REPLACING DEFECTIVE PRODUCTS OR WORKMANSHIP OR DAMAGE RESULTING FROM THE SAME. SELLER SHALL NOT BE LIABLE FOR ANY LOSS, DAMAGE, COST OF REPAIRS, OR INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES, OF ANY KIND, WHETHER BASED UPON WARRANTY (EXCEPT FOR THE LIMITED OBLIGATION SET FORTH IN PARAGRAPH 3), CONTRACT, NEGLIGENCE, OR ANY OTHER TORT OR CAUSE OF ACTION, ARISING IN CONNECTION WITH THIS PROPOSAL AND/OR THE DESIGN, MANUFACTURE, INSTALLATION, SALE, TRANSPORTATION, USE, OR REPAIR OF THE PRODUCTS OR OF THE INFORMATION, DESIGNS, SERVICES, OR OTHER WORK SUPPLIED TO BUYER.

5) INFRINGEMENT. Buyer shall indemnify, defend, and hold Seller harmless against all claims, causes of action, and liability and expense incurred by Seller and its agents and employees, in connection with any alleged infringement of any patent, copyright, trademark, or other intellectual property or proprietary information resulting from or arising in connection with this Proposal, including, without limitation, any claims, causes of action, and liability and expense arising from or occurring in connection with the design, manufacture, sale, installation, use, or repair of Seller's products and/or the use or dissemination of any designs, drawings, plans, specifications, or other documents, information, or services used by Buyer and/or Seller. The provisions of this Paragraph 5 shall survive the termination of this Proposal.

6) INDEMNITY. Except as expressly set forth in Paragraph 3, and to the maximum extent permitted by applicable law, Buyer shall defend, indemnify, and hold harmless Seller and its agents and employees against any loss, damage, claim, suit, liability, judgment, and expense (including, without limitation, attorney's fees) arising out of or in connection with the injury, disease, or death of persons (including, without limitation, Buyer's and Seller's employees and agents) or damage to or loss of any property or the environment or violation of any applicable law of any governmental authority resulting from or in connection with this Proposal and/or the design, manufacture, sale, transportation, installation, use, or repair of the products or of the information, designs, services, or other work supplied to Buyer, whether caused by the concurrent and/or contributory negligence of Buyer, Seller, or any of their agents, employees, or suppliers. The obligations, indemnities, and covenants contained in this Paragraph 6 shall survive the termination of this Proposal.

7) CONFIDENTIAL INFORMATION. Buyer shall hold in confidence and not disclose (without the prior written approval of Seller, except that such prior written consent shall not be necessary under any circumstances in which such disclosure is required by law) or use for its own benefit or otherwise disseminate any confidential information. As used herein, confidential information shall include, without limitation, i) all plans, designs, blueprints, and specifications of Seller and its agents and suppliers, ii) all design, manufacturing, construction, and installation processes and techniques of Seller and its agents and suppliers, and iii) all patents, copyrights, trademarks, intellectual property, and other proprietary information produced, used, or owned by Seller or its agents or suppliers. Buyer shall indemnify and hold Seller and its agents and employees harmless for any failure to conform or breach of any provision in this Paragraph 7. If it is determined by a court of competent jurisdiction that any provision of Paragraphs 3 through 7 hereof is declared invalid, illegal, or unenforceable in any respect, such provision shall automatically be amended to conform to the maximum monetary limits and other legal limits and to the maximum amount of time allowed by applicable law. The obligations, indemnities, and covenants contained in this Paragraph 7 shall survive the termination of this Proposal.

8) INSPECTION AND ACCEPTANCE. Buyer shall have seven (7) days from the date Buyer receives such products to (i) inspect such products and services and (ii) notify Seller, in writing, of any non-conformance or rejection of such products. After such seven (7) day period, Buyer shall be deemed to have accepted the products, unless Buyer has already accepted the products in a manner provided in Section 2.606 of the Texas Business and Commerce Code. After such acceptance, Buyer shall have no right to reject the products for any reason or to revoke acceptance of any non-conforming products, except as specifically provided in Section 2.608 of the Texas Business and Commerce Code; it being agreed by both parties that such seven (7) day period is a reasonable amount of time for such inspection and revocation. Without affecting the preceding limitation, where engineering, design, or fabrication work or other service is supplied by Seller, Buyer's acceptance of Seller's design or delivery of such work or service shall relieve Seller of all further obligations, except for the limited warranty set forth herein. If Buyer rejects any product or service, Seller shall have forty-five (45) days to cure such defect or non-conformance. Buyer shall have no right to (i) order any change or modification to any product or service previously ordered by Buyer or its representatives, or (ii) terminate this Proposal, without Seller's written consent and without prior payment to Seller of all charges, expenses, commissions, and reasonable profits owed to or incurred by Seller.

9) SHIPMENTS. The cost of any special packing or special handling caused by Buyer's requirements or requests shall be added to the amount of the purchase price. If Buyer causes or requests a shipment delay, or if Seller ships or delivers the products erroneously as a result of inaccurate, incomplete, or misleading information supplied by Seller or its agents or employees, storage and all other additional costs shall be borne solely by Buyer. No claim for shortages shall be allowed unless made in accordance with Paragraph 8, and Seller's count shall be accepted as conclusive on all shipments. Claims for products damaged or lost in transit shall be made on the carrier, as Seller's responsibility ceases, and title passes to Buyer, on delivery to the Carrier.

10) DEFAULT. If Buyer breaches any provision hereof, or becomes insolvent, enters bankruptcy, receivership, or other similar proceeding (whether voluntarily or involuntarily), or makes an assignment for the benefit of its creditors, Seller shall have the right, in addition to any other right or remedy it may have hereunder or by law, to (i) defer shipment of any product, or (ii) terminate this Proposal by giving Buyer written notice. If Seller terminates this Proposal as provided herein, (i) Seller shall be released from all further obligations hereunder, and (ii) Buyer shall pay Seller, within thirty (30) days from the date Seller terminates this Proposal, the full value for all products and services previously delivered, for all costs and expenses incurred by Seller in attempting to complete this Proposal, and for all costs and expenses (including attorney's fees and collection costs) incurred by Seller as a result of Buyer's breach.

11) PRICES AND DESIGNS. Prices and designs are subject to change without notice. All prices are F.O.B. Point of Shipment, unless otherwise stated by Seller in writing. All prices apply only to the specific products described on the attached pricing proposal.

12) TAXES. The amount of any sales, excise, or other taxes, if any, applicable to the products and services covered herein shall be added to the purchase price and shall be paid by Buyer unless Buyer provides Seller with an exemption certificate acceptable to Seller.

13) TERMS. Cash, net 30 days unless otherwise specified in writing by Seller. Buyer absolutely and unconditionally guarantees to Seller prompt payment, when due, of all amounts owing Seller. Seller may decline to make deliveries under this proposal and may withdraw any credit or payment terms and demand payment for any amount owed by Buyer to Seller, whenever Seller, for any reason, doubts Buyer's ability to pay and Seller advises Buyer, in writing. In addition to the Remedies contained in Paragraph 10, if Buyer fails to perform any of the terms of this Proposal, Seller shall have the right to defer shipments until such default is cured or lien project.

14) ARBITRATION and Venue. In the event of any dispute between Seller and Buyer in connection with this Proposal, the design, manufacture, sale, transporting, use, installation, or repair of the products provided, or the services provided, such dispute shall be settled by arbitration at the request of either party. To institute such arbitration proceedings, the party desiring to institute the arbitration procedure shall notify the other party and in such notice designate the first arbitrator. If the first arbitrator is acceptable to the other party, the other party shall so notify the first party within ten (10) days and the first arbitrator shall proceed to determine the dispute within twenty (20) days thereafter. If the first arbitrator is not acceptable, then within ten (10) days of notification of the name of the first arbitrator, the second party shall designate in writing a second arbitrator. If a second arbitrator is designated, the two arbitrators shall meet and select a third arbitrator and the three arbitrators shall determine the matter and dispute within twenty (20) days from the date of the designation of the second arbitrator. Failure of the two initial arbitrators to select a third arbitrator within ten (10) days, shall entitle either party to apply to an appropriate court for appointment of the third arbitrator. All arbitrators shall be licensed attorneys with at least five (5) years experience in business and/or commercial transactions.

The decision of the arbitrator or arbitrators shall be binding and conclusive on the parties hereto. The fees and expenses of the arbitrator appointed by each party shall be the responsibility of that party. If only one arbitrator is used, or with respect to the third arbitrator, the fees and expenses of such sole or third arbitrator, as the case may be, shall be borne equally by the parties. Any arbitrator designated to serve pursuant hereto shall not be an affiliate of any of the parties hereto. Any arbitration carried out pursuant to this Proposal shall be conducted in accordance with the Federal Arbitration Act and the applicable rules of the American Arbitration Association. The arbitrator(s) shall allow the production of all documents which form the basis of the dispute, as well as all supporting documentation reasonably necessary to explain the documents in dispute. No hearings or other discovery shall be allowed unless the arbitrator(s), in his or their sole opinion, deems it necessary for the arbitration. All the hearings and proceedings held and all investigations and actions taken by the arbitrator shall take place in the city in which the principal offices of Seller are located (as of the date of this Proposal, the principal offices of Seller are located in Houston, Harris County, Texas). Judgment upon any award rendered by the arbitrator or arbitrators may be entered in any court having jurisdiction thereof. While the fees and expenses of the arbitrators shall be apportioned as set forth above, the losing party will pay the prevailing party's attorneys' fees and other costs.

15) INVALID PROVISIONS. If any provision hereof is held to be illegal, invalid, or unenforceable under present or future laws effective during the term hereof, such provision shall be fully severable; this Proposal shall be construed and enforced as if such illegal, invalid, or unenforceable provision had never comprised a part hereof; and the remaining provisions here shall remain in full force and effect and shall not be affected by the illegal, invalid, or unenforceable provisions or by its severance herefrom.

16) COSTS. Except as specifically provided in Paragraph 14, the prevailing party in any dispute between the parties to this Proposal, arising out of the interpretation, application, or enforcement of any provision of this Proposal, shall be entitled to recover all of its reasonable attorneys' fees and costs, whether suit be filed or not.

17) PAST DUE ACCOUNTS. Buyer agrees to pay Seller the maximum lawful rate allowed by applicable state and federal law on all past due accounts.

18) ASSIGNMENT. This Proposal shall not be assigned by Buyer without the prior written consent of Seller.

19) WAIVER. A waiver by Seller of any provision of this Proposal or of any right or remedy shall not constitute a waiver of any other provision, right, or remedy.

20) SECTION HEADINGS. The section headings in this Proposal are for convenience only and shall have no meaning or effect.

Special Commercial Terms & Conditions:

Escalation-Prices for Raw material are quoted based on market price at time of quote. RILCO reserved the right to adjust final price of products based on changes in cost of raw materials due to mill surcharges at time of material delivery with proper documentation.

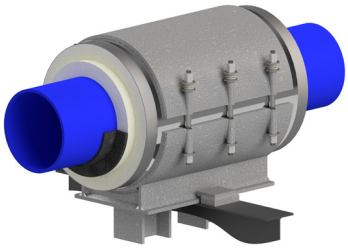
Late Payments-RILCO terms are offered based on timely payment of invoices. RILCO reserves the right to charge a late fee for payments 10 days past terms offered. RILCO reserves the right to hold shipments of goods if an account is past due until account been paid and is current. RILCO reserves the right to discontinue our offered terms if and account is not paid according to offered terms.

Liquidated Damages-RILCO does not accept liquidated damages for later delivery due to engineering changes, engineering review or other items beyond our direct control.

Credit-Credit is offered subject to credit approval.

Delivery-Quoted delivery schedule is based on production workload at time of proposal. RILCO reserves the right to provide a formal production schedule at time of order placement due to material availability and shop work load at time of order placement

We are currently basing our production on controlled order acceptance. This basically means that we are going to review each order on the date it is received for all conditions such as delivery requirements, payment terms, and material availability before we accept an order for manufacturing.



CAPF - 8 x 3 - 6 - 12 - 2400 - 1200 - 1860

PIPE SIZE (in)	INSULATION THICKNESS (in)	BOP (in)	SUPPORT LENGTH (in)	VERTICAL LOAD (lbs)	LATERAL LOAD (lbs)	AXIAL LOAD (lbs)

Insulation Type
• Calcium Silicate (CS)
• Polyurethane Foam (PF)
• FOAMGLAS® (FG)
•Aerogel
· PyroWrap® (PW)
· CryoWrap® (CW)
• Single Layer (SL)
• Double Layer (DL)

Cryo- Cold
Pyro- Hot

Function
• **S**LIDE (S) - For vertically restrained pipe
· i.e. HSCS-3x1.5-4-12-2100
• **S**LIDE (H) - For vertically restrained pipe, high lateral travel
· i.e. HS(H)CS-8x3-6-12-1700
• **G**UIDE (G) - For vertically & laterally restrained pipe
· i.e. HGCS-6x1.5-4-6-1275-450
• **G**UIDE (L) - For vertically and laterally restrained pipe, allows uplift of piping
· i.e. HG(L)CS-1x1.5-4-4-225-80
• **G**UIDE (M) - For vertically and laterally restrained pipe, guided at cradle
· i.e. HG(M)CS-1x1.5-4-6-225-80
• **A**NCHOR (A) - For vertically, laterally, and axially restrained pipe
· i.e. HACS-4x1.5-4-6-840-295-1730
• **H**ANGING (H) - For vertically restrained pipe
· i.e. HHCS-3x1.5-4-6-840-295-1730
• RISER (V) - For vertically restrained pipe
· i.e. HVCS-3x1.5-4-12-2100
• **F**LAT (F) - For vertically restrained pipe
· i.e. HFCS-3x1.5-4-12-2100
• **R**OLLER (R) - For vertically restrained pipe
· i.e. HRCS-3x1.5-4-12-2100
• **C**levis (C) - For vertically restrained pipe
· i.e. HCCS-8x3-6-750
• **I**nsulated **G**uided (IG) - 90 or 180 degree square base
· i.e. IG(90)SL-8x3-6
· i.e. IG(180)DL-8x3-6

Temperature Classification
• HOT (H) - typical range is 0 °F to 1200 °F
• COLD (C) - typical range is -450 °F to 200 °F
• DUAL TEMP (D) - typical range is 450 °F to 1200 °F



PRESIDENT'S LETTER

Here at Rilco Manufacturing we have strived to maintain a focus of customer-service within ourselves and inspire this within our employees. We strive to exceed clients' expectations by providing the most reliable information available, upholding our promise of the highest quality products, and consistently meeting our delivery deadlines. Since Rilco Manufacturing was established in 1972 we have also made it a goal of ours to remain at the forefront of technology within our industry. We invest considerable capital into various research and development experiments each year to ensure our pipe support system designs, materials, and components are tried and true meeting all safety and performance standards.

With quality, safety, reliability, and a high level of customer service always in the minds of our employees we aim to perform at our highest level from even the smallest projects we receive to the largest projects we are awarded.

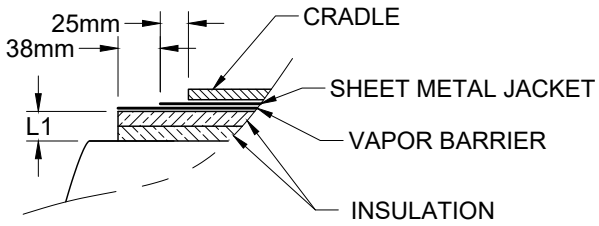
The near future will be an exciting time for Rilco Manufacturing as we evolve and grow into a lean operating company and more than double our current production space. We cater to a diverse range of customers and are capable of customizing our products for almost any project need.

I thank you for your interest in our growing company and I truly look forward to our continued partnership and exploring relationships with new organizations that will potentially be added to our worldwide client base.

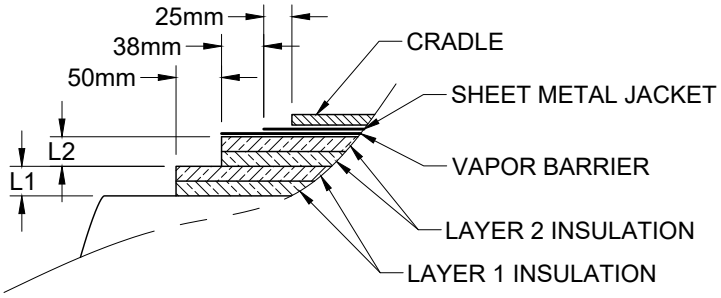
Sincerely,

Kenneth L. Zagorski
President & CEO

CRYOWRAP
LAYERING SCHEDULE

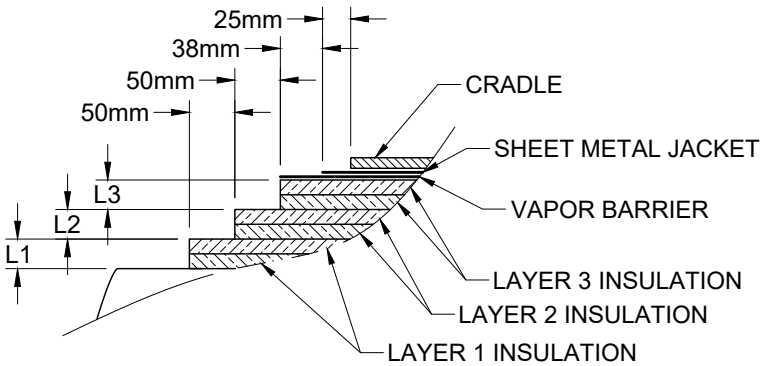


SINGLE LAYER



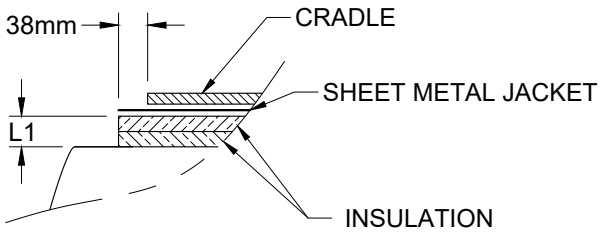
DOUBLE LAYER

Insulation Thickness (mm)	Layer(s)	L1 THK. (Inner Layer) (mm)	L2 THK. (Middle Layer) (mm)	L3 THK. (Outer Layer) (mm)
10	Single	10	-	-
20	Single	20	-	-
30	Double	20	10	-
40	Double	20	20	-
50	Double	30	20	-
60	Double	40	20	-
70	Triple	30	20	20
80	Triple	30	30	20
90	Triple	40	30	20
100	Triple	40	40	20
110	Triple	50	40	20
120	Triple	50	50	20
130	Triple	60	50	20
140	Triple	60	60	20
150	Triple	70	60	20

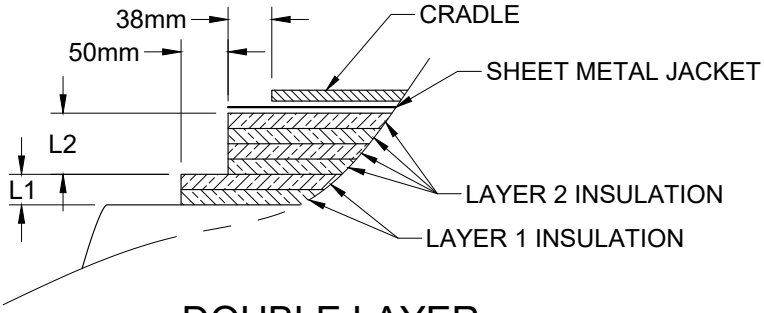


TRIPLE LAYER

PYROWRAP
LAYERING SCHEDULE



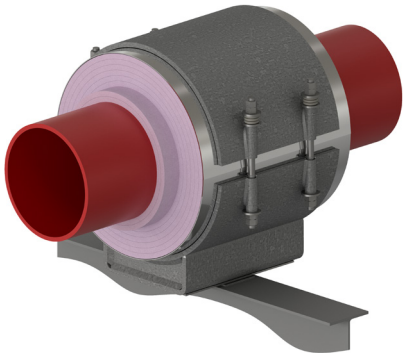
SINGLE LAYER



DOUBLE LAYER

Insulation Thickness (mm)	Layer(s)	L1 THK. (Inner Layer) (mm)	L2 THK. (Outer Layer) (mm)
10	Single	10	-
20	Single	20	-
30	Double	10	20
40	Double	20	20
50	Double	20	30
60	Double	20	40
70	Double	20	50
80	Double	20	60
90	Double	20	70
100	Double	20	80
110	Double	20	90
120	Double	20	100
130	Double	20	110
140	Double	20	120
150	Double	20	130

INTERNATIONAL PATENT NUMBERS

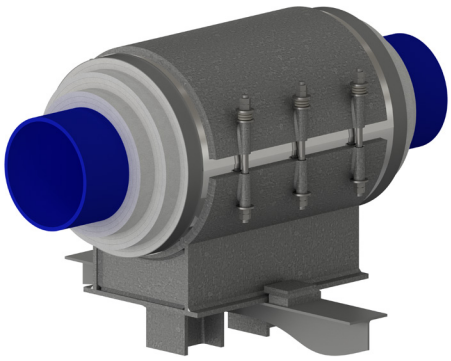


PyroWrap® and CryoWrap® **Resting/Guided** Supports:

- European Countries (EP2734770)-

United Kingdom, Belgium, Germany, France, Italy, Latvia, and the Netherlands

- Australia (AU2012284407)
- Canada (CA2841454)
- Indonesia (IDP00201400156)
- India (IN392400)
- South Korea (KR102184357)
- Mexico (MX375492)
- Thailand (TH83301)
- Vietnam (VN26931)



PyroWrap® and CryoWrap® **Anchor** Supports:

- European Countries (EP2748501B1)-

United Kingdom, France, and Germany

- Australia (AU2012302189)
- Canada (CA2841949)
- Indonesia (IDP00201400725)
- India (IN389829)
- Japan (JP6073891)
- South Korea (KR102016058)
- Mexico (MX349982)
- Thailand (TH85965)
- Vietnam (VN24049)

RILCO

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Toll Free 1-800-787-8024
WWW.RILCO.COM



