

MAY 2023

PRE-INSULATED PIPE SUPPORTS



MADE IN THE USA

**THE COMPLETE LINE OF
PRE-INSULATED PIPE SUPPORTS
AND THERMAL SHIELDS**

PIPE HANGERS AND SUPPORTS • CUSTOM FABRICATION • ENGINEERING



NATIONAL PIPE HANGER CORPORATION

Introduction

National Pipe Hanger Corporation is proud to present our Pre-Insulated Pipe Support Catalog containing a complete and versatile line of pre-insulated pipe supports and thermal shields which have been selected to accommodate pipe support requirements in the commercial and industrial piping fields. This selection results from over three decades of concentrated and direct exposure to the piping industry, from the design engineer's selection to the piping contractor's installation efforts. This is where needs are discovered and where products and services are genuinely tested. In this area our experiences are unequalled.

A constant awareness of our customers' requirements and efforts is the foundation in the development of our manufacturing skills. All National Pipe Hanger Corporation products are carefully manufactured to meet the highest standards in the industry. National Pipe Hanger Corporation is a participating member of the Manufactures Standardization Society (MSS) Committee 403, Pipe Hangers and Supports.

Contact National Pipe Hanger Corporation for special pre-insulated pipe support requirements including: other pipe sizes and types, insulation thickness, insulation materials, slide materials, dimensional requirements, installation methods, finishes, etc. We are equipped to respond quickly to your product and service needs on both standard items and specialized fabrications. Visit our website for additional information on pre-insulated pipe supports such as: submittal sheets, installation instructions, competitor model number cross-references, etc.

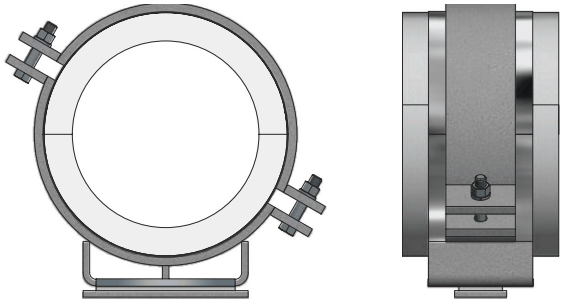
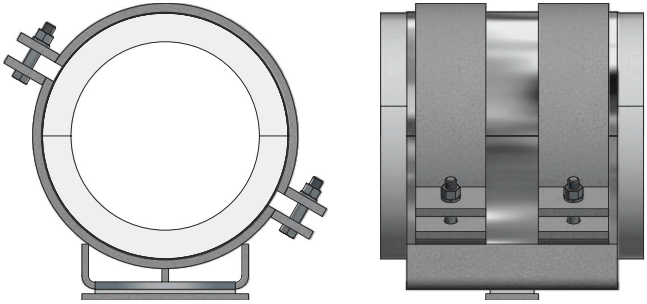
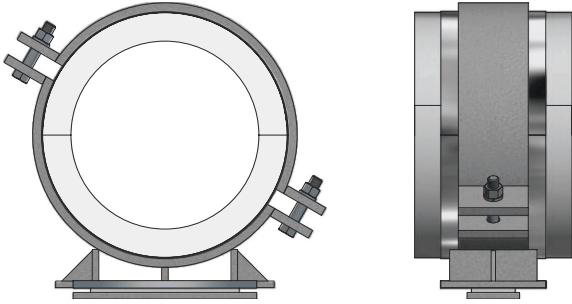
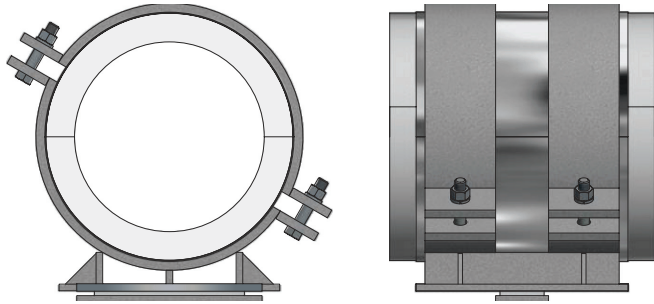
All units used in this catalog are inch-pound-°F unless otherwise noted. Additional information provided in the end of this catalog can aid the user in: estimating pipe support loads, determining pipe support spacing, selecting thermal conductivities at other operating temperatures, selecting the correct size pipe support for thermal shields, and determining the outside diameter of adjoining insulation.

National Pipe Hanger Corporation reserves the right to make specification changes without notice. While every effort has been made to assure the accuracy of information contained in this catalog at the time of publication, National Pipe Hanger Corporation cannot accept responsibility for inaccuracies resulting from undetected errors or omissions.

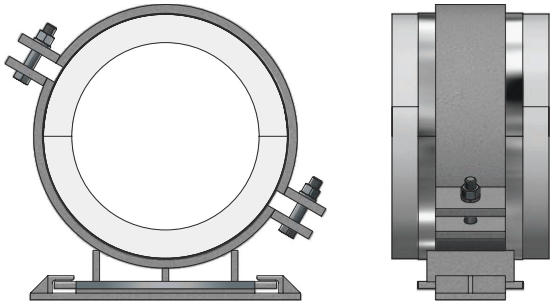
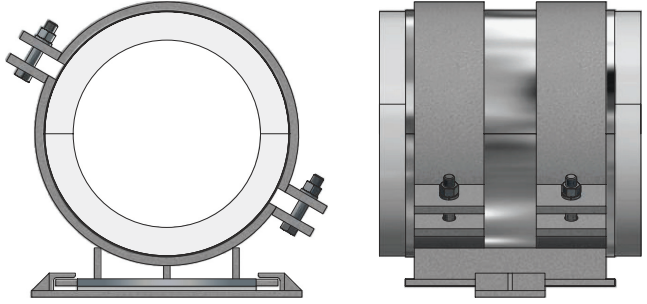
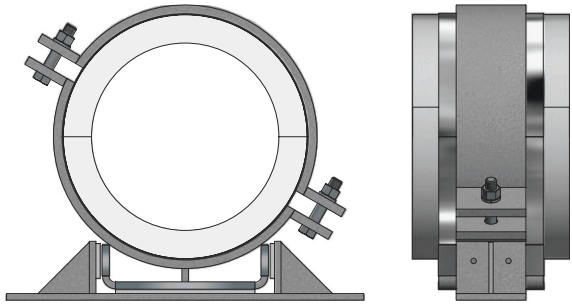
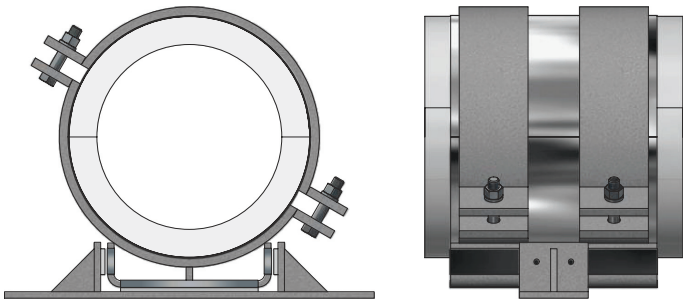
General Selection



PRE-INSULATED PIPE SLIDES

LATERAL TRAVEL = $\pm 1\frac{1}{2}$ "	 NS10 Page 6		 NS20 Page 7	
	 NS50 Page 8		 NS60 Page 9	
LATERAL TRAVEL $\geq \pm 1\frac{1}{2}$ "	AXIAL TRAVEL = $\pm 1\frac{1}{2}$ "		AXIAL TRAVEL = $\pm 4\frac{1}{2}$ "	

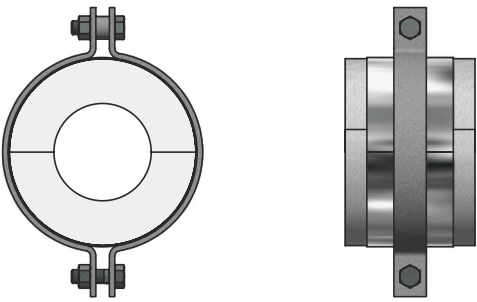
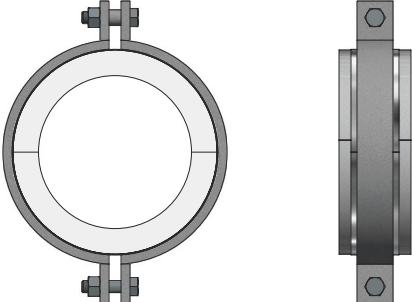
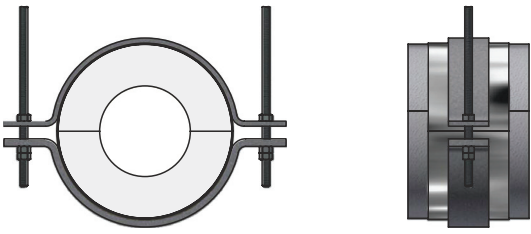
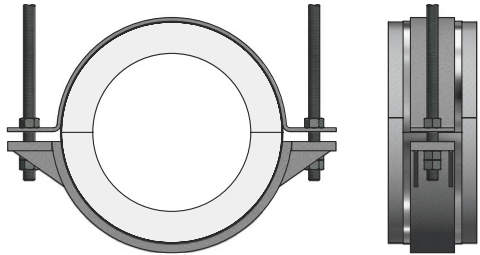
PRE-INSULATED PIPE GUIDES

LATERAL LOAD = LIGHT DUTY	 NG30 Page 10		 NG40 Page 11	
	 NG70 Page 12		 NG80 Page 13	
LATERAL LOAD = HEAVY DUTY	AXIAL TRAVEL = $\pm 1\frac{1}{2}$ "		AXIAL TRAVEL = $\pm 4\frac{1}{2}$ "	

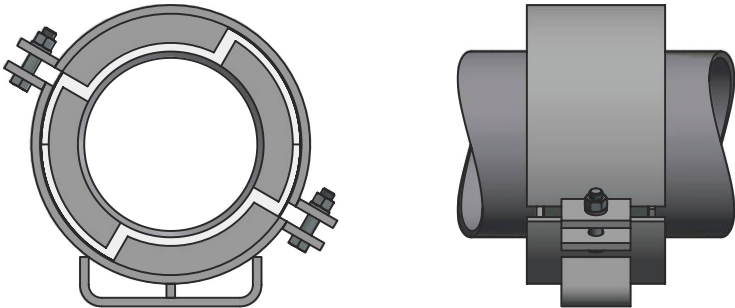
General Selection



PRE-INSULATED PIPE CLAMPS AND HANGERS

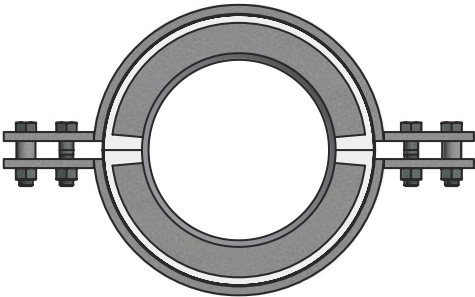
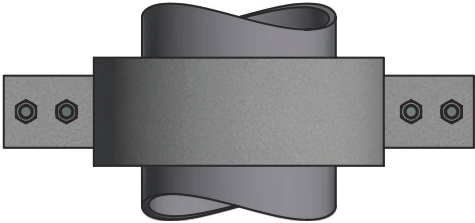
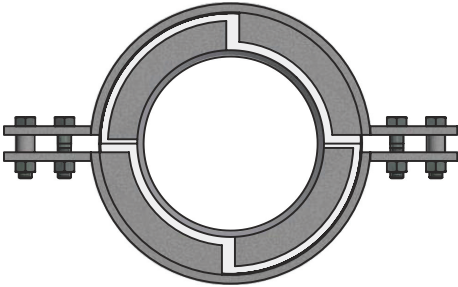
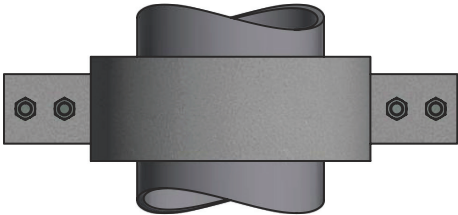
SINGLE ROD	 NC10 Page 20	 NC30 - NC33 Page 16-19
TWO ROD	 NH40 Page 14 VERTICAL LOAD = LIGHT DUTY	 NH60 Page 15 VERTICAL LOAD = HEAVY DUTY

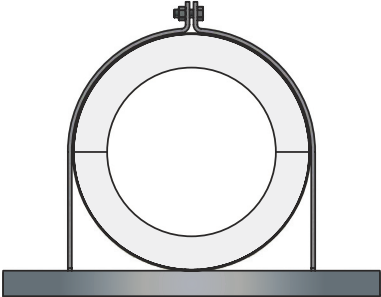
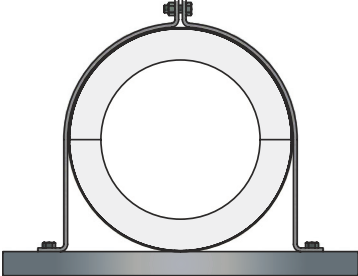
PRE-INSULATED PIPE ANCHOR

 NA40 Page 21 FOR AXIAL AND VERTICAL LOADS

General Selection



PRE-INSULATED PIPE RISER CLAMPS	
  NR10 FOR DOWNWARD RISER LOADS	  NR20 FOR UPWARD & DOWNWARD RISER LOADS
Page 22	Page 23

PRE-INSULATED STRUT CLAMPS	
  NC70 HOLDDOWN STRUT CLAMP	  NC80 GUIDED STRUT CLAMP
Page 24	Page 25

General Selection



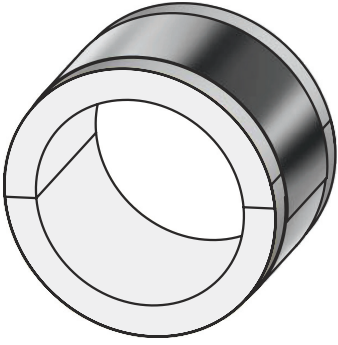
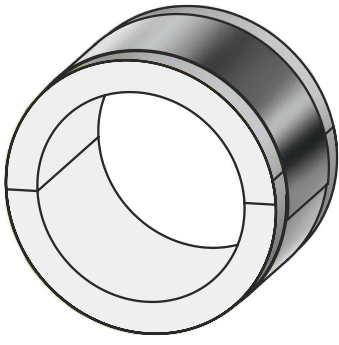
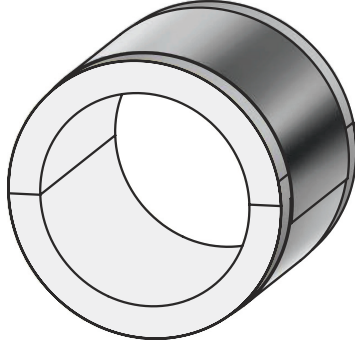
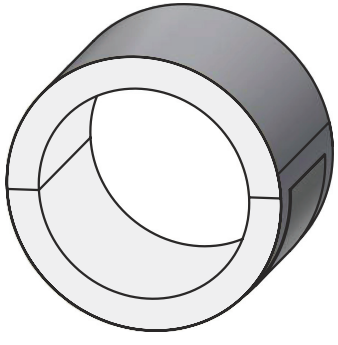
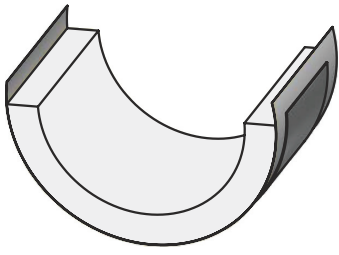
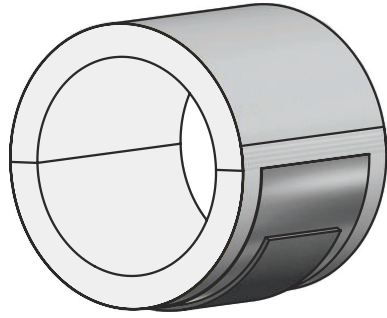
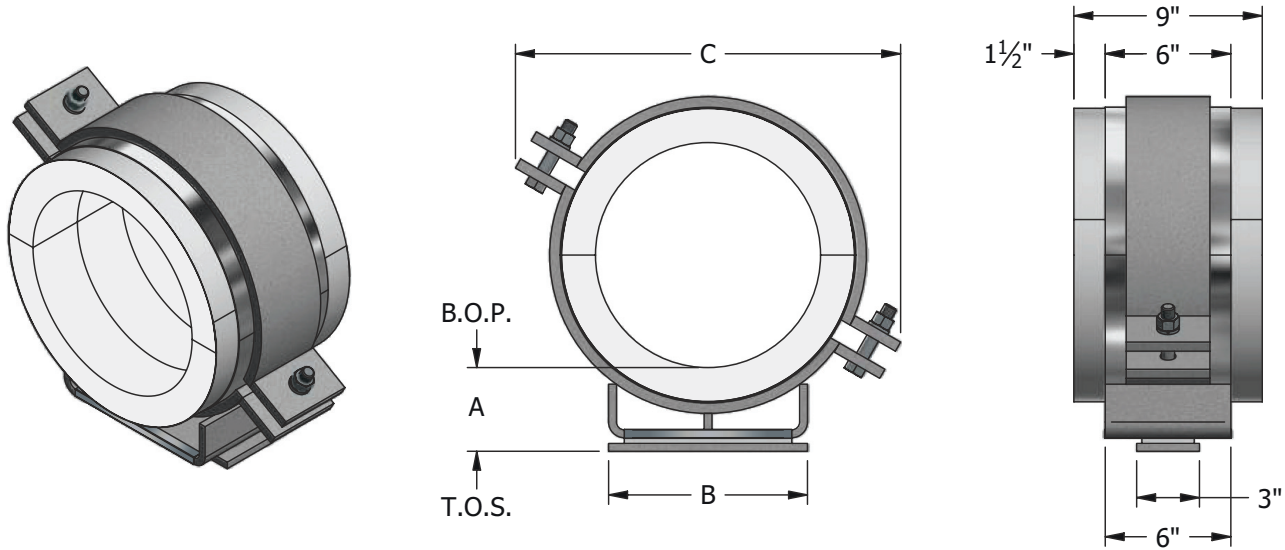
THERMAL SHIELDS		
WITH TOP PROTECTION SHIELD	For Use: In Clevis Hanger On Trapeze  PRO-SHIELD Page 26	For Use: In Clevis Hanger  CHILL-SHIELD Page 29
	For Use: In Clevis Hanger In Two-Bolt Clamp  MAXSPAN Page 30	
WITHOUT TOP PROTECTION SHIELD	For Use: In Clevis Hanger On Trapeze  PRO-SHIELD N.T. Page 27	For Use: In Clevis Hanger On Trapeze  QUIK-SHIELD Page 28
		For Use: On Roller Support On Trapeze  MAXSPAN R.H. Page 31
VERTICAL LOAD = LIGHT DUTY		VERTICAL LOAD = HEAVY DUTY

FIG. NS10

Pre-Insulated Sliding Pipe Support

± 1½" Axial Movement, ± ½" Lateral Movement



Ordering: Fig. NS10 - (Pipe Size) x (Insulation Thickness) - (Insulation Grade)(Finish) e.g. NS10-8x2-5H

PIPE SIZE	VERT. LOAD GRADE 5	VERT. LOAD GRADE 6	INS. THK. = 1"			INS. THK. = 1½"			INS. THK. = 2"			INS. THK. = 2½"			INS. THK. = 3"			INS. THK. = 4"		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
2"	1100	1500	4	2.5	8.81	4	3	9.75	5	4	10.69	5	4.5	11.56	6	5.5	12.44	6	7.5	14.25
2½"	1350	1800	4	2.5	9.25	4	4	10.69	5	4.5	11.56	5	5.5	12.44	6	6.5	13.25	6	8	15.13
3"	1600	2100	4	3	9.75	4	4	10.69	4	4.5	11.56	5	5.5	12.44	6	6.5	13.25	6	8	15.13
4"	2500	3350	4	4	10.69	4	4.5	11.56	4	5.5	12.44	5	6.5	13.25	6	7.5	14.25	6	9	16
5"	3100	4200	4	4.5	12.25	4	5.5	13.06	4	6.5	13.94	5	7.5	14.94	6	8	15.81	6	9.5	17.75
6"	3800	5100	4	5.5	13.06	4	6.5	13.94	4	7.5	14.94	5	8	15.81	6	9	16.69	6	10.5	18.63
8"	5100	6800	4	7.5	14.94	4	8	15.81	4	9	16.69	6	9.5	17.75	6	10.5	18.63	6	12	20.38
10"	6000	8000	4	9	17.31	4	9.5	18.38	4	10.5	19.25	6	11	20.13	6	12	21	6	13	22.75
12"	6600	8800	4	10.5	19.25	4	11	20.13	4	12	21	6	12.5	21.88	6	13	22.75	6	14.5	24.5
14"	7500	10000	4	11	20.13	4	12	21	4	12.5	21.88	6	13	22.75	6	14	23.63	6	15.5	25.31
16"	8700	11600	4	12.5	23.19	4	13	24.06	6	14	24.94	6	14.5	25.81	6	15.5	26.69	8	16.5	28.38
18"	9600	12800	4	14	24.94	4	14.5	25.81	6	15.5	26.69	6	16	27.5	6	16.5	28.38	8	18	30.13
20"	10200	13600	4	15.5	26.69	4	16	27.5	6	16.5	28.38	6	17.5	29.25	6	18	30.13	8	19.5	31.88
24"	10800	14400	4	18	30.13	4	19	31	6	19.5	31.88	6	20.5	32.75	6	21	33.63	8	22.5	35.31
30"	14100	18800	4	22.5	35.81	6	23	36.62	6	24	37.5	6	24.5	38.38	6	25	39.25	8	26.5	41
36"	16500	22000	4	26.5	43.63	6	27.5	44.5	6	28	45.38	6	28.5	46.25	6	29.5	47.13	8	31	48.81
42"	18600	24800	4	31	48.81	6	31.5	49.69	6	32.5	50.56	6	33	51.44	6	33.5	52.31	8	35	54.06

Applications:

- Allows moderate axial travel and small lateral travel while providing vertical support
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: welded to flat steel surface
- Temperature Range: +20°F to +1200°F
- Axial Travel: ± 1½"
- Lateral Travel: ± ½"

Features:

- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield 1½" each side
- Structural insulation for load transfer
- Stainless steel to UHMW polyethylene slide
- Static Coefficient of Friction = 0.15
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
Grade 5 = 0.54 Btu•in/(hr•ft²•°F) @ 200°F
Grade 6 = 0.61 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded

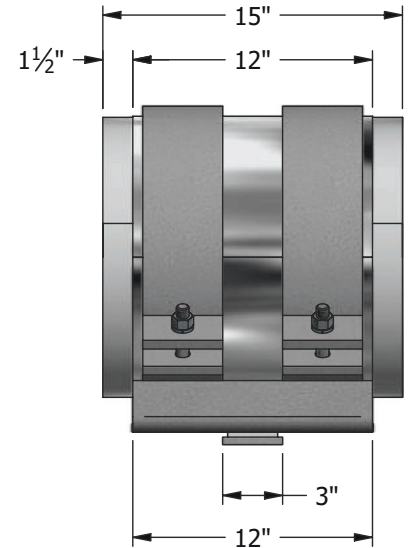
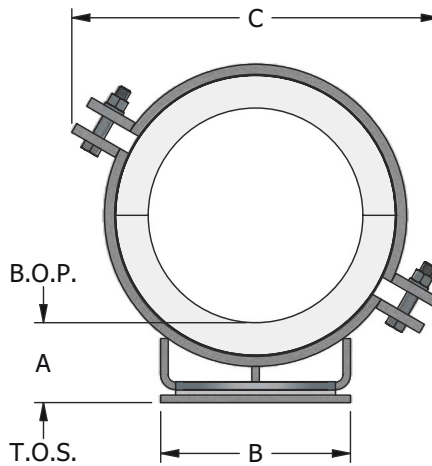
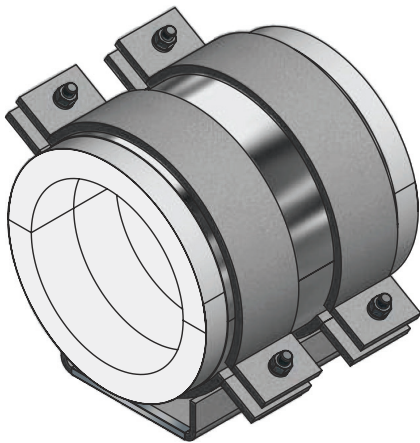
Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-656 Type II
Grade 5: 450 psi, 20 pcf
Grade 6: 900 psi, 28 pcf
other insulation materials, Page 34
- Base/Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Slide: ASTM A-240 Type 304 Stainless Steel on UHMW Polyethylene
- Shield: ASTM A-653 G-90, 18 ga Galv. Steel
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123
(B) Unfinished

FIG. NS20

Pre-Insulated Sliding Pipe Support

$\pm 4\frac{1}{2}"$ Axial Movement, $\pm \frac{1}{2}"$ Lateral Movement



Ordering: Fig. NS20 - (Pipe Size) x (Insulation Thickness) - (Insulation Grade)(Finish) e.g. NS20-8x2-5H

PIPE SIZE	VERT. LOAD GRADE 5	VERT. LOAD GRADE 6	INS. THK. = 1"			INS. THK. = 1½"			INS. THK. = 2"			INS. THK. = 2½"			INS. THK. = 3"			INS. THK. = 4"		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
2"	1100	1500	4	2.5	8.81	4	3	9.75	5	4	10.69	5	4.5	11.56	6	5.5	12.44	6	7.5	14.25
2½"	1350	1800	4	2.5	9.25	4	4	10.69	5	4.5	11.56	5	5.5	12.44	6	6.5	13.25	6	8	15.13
3"	1600	2100	4	3	9.75	4	4	10.69	4	4.5	11.56	5	5.5	12.44	6	6.5	13.25	6	8	15.13
4"	2500	3350	4	4	10.69	4	4.5	11.56	4	5.5	12.44	5	6.5	13.25	6	7.5	14.25	6	9	16
5"	3100	4200	4	4.5	12.25	4	5.5	13.06	4	6.5	13.94	5	7.5	14.94	6	8	15.81	6	9.5	17.75
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10"	6000	8000	4	9	17.31	4	9.5	18.38	4	10.5	19.25	6	11	20.13	6	12	21	6	13	22.75
12"	6600	8800	4	10.5	19.25	4	11	20.13	4	12	21	6	12.5	21.88	6	13	22.75	6	14.5	24.5
14"	7500	10000	4	11	20.13	4	12	21	4	12.5	21.88	6	13	22.75	6	14	23.63	6	15.5	25.31
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18"	9600	12800	4	14	24.94	4	14.5	25.81	6	15.5	26.69	6	16	27.5	6	16.5	28.38	8	18	30.13
20"	10200	13600	4	15.5	26.69	4	16	27.5	6	16.5	28.38	6	17.5	29.25	6	18	30.13	8	19.5	31.88
24"	10800	14400	4	18	30.13	4	19	31	6	19.5	31.88	6	20.5	32.75	6	21	33.63	8	22.5	35.31
30"	14100	18800	4	22.5	35.81	6	23	36.62	6	24	37.5	6	24.5	38.38	6	25	39.25	8	26.5	41
36"	16500	22000	4	26.5	43.63	6	27.5	44.5	6	28	45.38	6	28.5	46.25	6	29.5	47.13	8	31	48.81
42"	18600	24800	4	31	48.81	6	31.5	49.69	6	32.5	50.56	6	33	51.44	6	33.5	52.31	8	35	54.06

Applications:

- Allows large axial travel and small lateral travel while providing vertical support
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: welded to flat steel surface
- Temperature Range: +20°F to +1200°F
- Axial Travel: $\pm 4\frac{1}{2}"$
- Lateral Travel: $\pm \frac{1}{2}"$

Features:

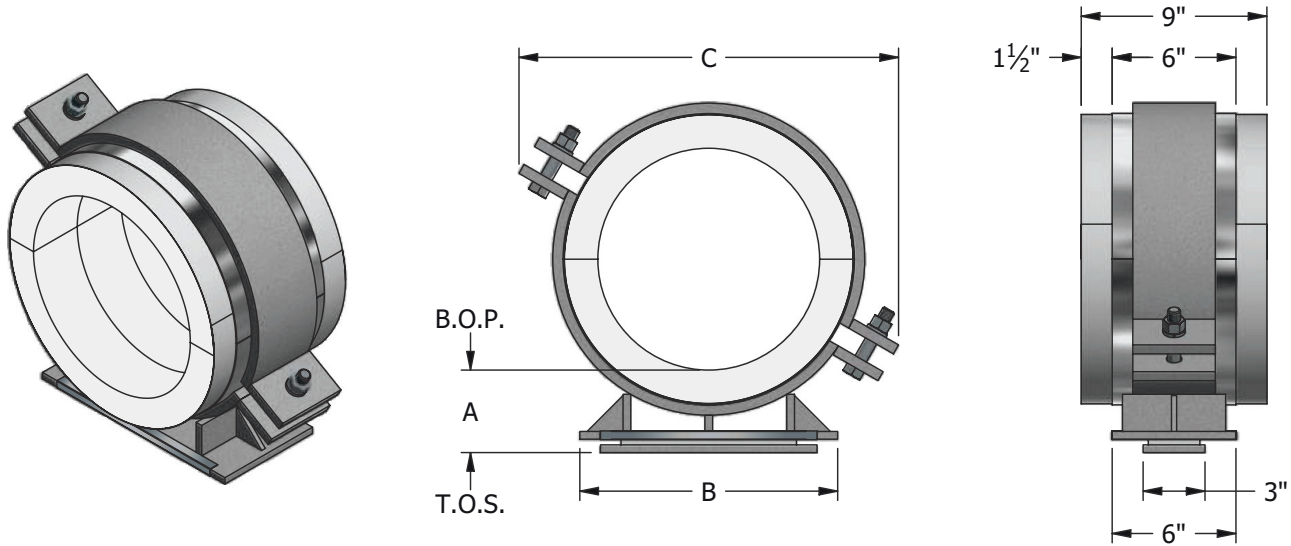
- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield $1\frac{1}{2}"$ each side
- Structural insulation for load transfer
- Stainless steel to UHMW polyethylene slide
- Static Coefficient of Friction = 0.15
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
Grade 5 = 0.54 Btu•in/(hr•ft²•°F) @ 200°F
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- Slide: ASTM A-240 Type 304 Stainless Steel on UHMW Polyethylene
- Shield: ASTM A-653 G-90, 18 ga Galv. Steel
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123
(B) Unfinished

FIG. NS50

Pre-Insulated Sliding Pipe Support $\pm 1\frac{1}{2}$ " Axial Movement, Lateral Movement as Noted



Ordering: Fig. NS50 - (Pipe Size) x (Insulation Thickness) - (Insulation Grade)(Finish) e.g. NS50-8x2-5H

PIPE SIZE	VERT. LOAD GRADE 5	VERT. LOAD GRADE 6	INS. THK. = 1" LAT. MOV'T. $\pm 1\frac{1}{2}$ "			INS. THK. = 1 1/2" LAT. MOV'T. $\pm 1\frac{3}{4}$ "			INS. THK. = 2" LAT. MOV'T. ± 2 "			INS. THK. = 2 1/2" LAT. MOV'T. $\pm 2\frac{1}{4}$ "			INS. THK. = 3" LAT. MOV'T. $\pm 2\frac{1}{2}$ "			INS. THK. = 4" LAT. MOV'T. ± 3 "		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
2"	1100	1500	4	6	8.81	4	6.5	9.75	5	8	10.69	5	9	11.56	6	10.5	12.44	6	13.5	14.25
2 1/2"	1350	1800	4	6	9.25	4	7.5	10.69	5	8.5	11.56	5	10	12.44	6	11.5	13.25	6	14	15.13
3"	1600	2100	4	6	9.75	4	7.5	10.69	4	8.5	11.56	5	10	12.44	6	11.5	13.25	6	14	15.13
4"	2500	3350	4	7	10.69	4	8	11.56	4	9.5	12.44	5	11	13.25	6	12.5	14.25	6	15	16
5"	3100	4200	4	7.5	12.25	4	9	13.06	4	10.5	13.94	5	12	14.94	6	13	15.81	6	15.5	17.75
6"	3800	5100	4	8.5	13.06	4	10	13.94	4	11.5	14.94	5	12.5	15.81	6	14	16.69	6	16.5	18.63
8"	5100	6800	4	10.5	14.94	4	11.5	15.81	4	13	16.69	6	14	17.75	6	15.5	18.63	6	18	20.38
10"	6000	8000	4	12	17.31	4	13	18.38	4	14.5	19.25	6	15.5	20.13	6	17	21	6	19	22.75
12"	6600	8800	4	13.5	19.25	4	14.5	20.13	4	16	21	6	17	21.88	6	18	22.75	6	20.5	24.5
14"	7500	10000	4	14	20.13	4	15.5	21	4	16.5	21.88	6	17.5	22.75	6	19	23.63	6	21.5	25.31
16"	8700	11600	4	15.5	23.19	4	16.5	24.06	6	18	24.94	6	19	25.81	6	20.5	26.69	8	22.5	28.38
18"	9600	12800	4	17	24.94	4	18	25.81	6	19.5	26.69	6	20.5	27.5	6	21.5	28.38	8	24	30.13
20"	10200	13600	4	18.5	26.69	4	19.5	27.5	6	20.5	28.38	6	22	29.25	6	23	30.13	8	25.5	31.88
24"	10800	14400	4	21	30.13	4	22.5	31	6	23.5	31.88	6	25	32.75	6	26	33.63	8	28.5	35.31
30"	14100	18800	4	25.5	35.81	6	26.5	36.63	6	28	37.5	6	29	38.38	6	30	39.25	8	32.5	41
36"	16500	22000	4	29.5	43.63	6	31	44.5	6	32	45.38	6	33	46.25	6	34.5	47.13	8	37	48.81
42"	18600	24800	4	34	48.81	6	35	49.69	6	36.5	50.56	6	37.5	51.44	6	38.5	52.31	8	41	54.06

Applications:

- Allows moderate axial travel and moderate lateral travel while providing vertical support
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: welded to flat steel surface
- Temperature Range: +20°F to +1200°F
- Axial Movement: $\pm 1\frac{1}{2}$ "
- Lateral Movement: Varies

Features:

- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield $1\frac{1}{2}$ " each side
- Structural insulation for load transfer
- Stainless steel to UHMW polyethylene slide
- Static Coefficient of Friction = 0.15
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
Grade 5 = 0.54 Btu•in/(hr•ft²•°F) @ 200°F
Grade 6 = 0.61 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded

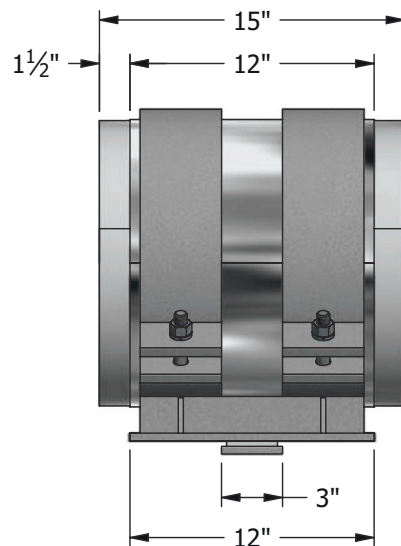
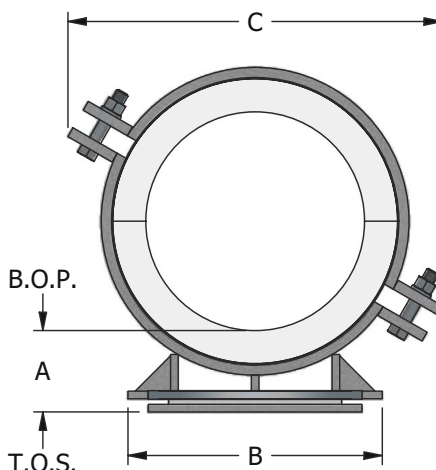
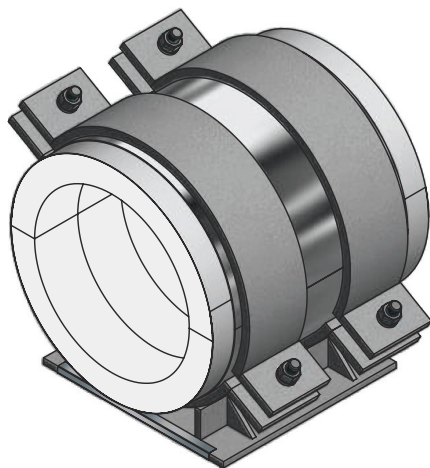
Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-656 Type II
Grade 5: 450 psi, 20 pcf
Grade 6: 900 psi, 28 pcf
other insulation materials, Page 34
- Base/Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Slide: ASTM A-240 Type 304 Stainless Steel on UHMW Polyethylene
- Shield: ASTM A-653 G-90, 18 ga Galv. Steel
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123
(B) Unfinished

FIG. NS60

Pre-Insulated Sliding Pipe Support

± 4 1/2" Axial Movement, Lateral Movement as Noted



Ordering: Fig. NS60 - (Pipe Size) x (Insulation Thickness) - (Insulation Grade)(Finish) e.g. NS60-8x2-5H

PIPE SIZE	VERT. LOAD GRADE 5	VERT. LOAD GRADE 6	INS. THK. = 1" LAT. MOV'T. ± 1 1/2"			INS. THK. = 1 1/2" LAT. MOV'T. ± 1 3/4"			INS. THK. = 2" LAT. MOV'T. ± 2"			INS. THK. = 2 1/2" LAT. MOV'T. ± 2 1/4"			INS. THK. = 3" LAT. MOV'T. ± 2 1/2"			INS. THK. = 4" LAT. MOV'T. ± 3"		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
2"	1100	1500	4	6	8.81	4	6.5	9.75	5	8	10.69	5	9	11.56	6	10.5	12.44	6	13.5	14.25
2 1/2"	1350	1800	4	6	9.25	4	7.5	10.69	5	8.5	11.56	5	10	12.44	6	11.5	13.25	6	14	15.13
3"	1600	2100	4	6	9.75	4	7.5	10.69	4	8.5	11.56	5	10	12.44	6	11.5	13.25	6	14	15.13
4"	2500	3350	4	7	10.69	4	8	11.56	4	9.5	12.44	5	11	13.25	6	12.5	14.25	6	15	16
5"	3100	4200	4	7.5	12.25	4	9	13.06	4	10.5	13.94	5	12	14.94	6	13	15.81	6	15.5	17.75
6"	3800	5100	4	8.5	13.06	4	10	13.94	4	11.5	14.94	5	12.5	15.81	6	14	16.69	6	16.5	18.63
8"	5100	6800	4	10.5	14.94	4	11.5	15.81	4	13	16.69	6	14	17.75	6	15.5	18.63	6	18	20.38
10"	6000	8000	4	12	17.31	4	13	18.38	4	14.5	19.25	6	15.5	20.13	6	17	21	6	19	22.75
12"	6600	8800	4	13.5	19.25	4	14.5	20.13	4	16	21	6	17	21.88	6	18	22.75	6	20.5	24.5
14"	7500	10000	4	14	20.13	4	15.5	21	4	16.5	21.88	6	17.5	22.75	6	19	23.63	6	21.5	25.31
16"	8700	11600	4	15.5	23.19	4	16.5	24.06	6	18	24.94	6	19	25.81	6	20.5	26.69	8	22.5	28.38
18"	9600	12800	4	17	24.94	4	18	25.81	6	19.5	26.69	6	20.5	27.5	6	21.5	28.38	8	24	30.13
20"	10200	13600	4	18.5	26.69	4	19.5	27.5	6	20.5	28.38	6	22	29.25	6	23	30.13	8	25.5	31.88
24"	10800	14400	4	21	30.13	4	22.5	31	6	23.5	31.88	6	25	32.75	6	26	33.63	8	28.5	35.31
30"	14100	18800	4	25.5	35.81	6	26.5	36.63	6	28	37.5	6	29	38.38	6	30	39.25	8	32.5	41
36"	16500	22000	4	29.5	43.63	6	31	44.5	6	32	45.38	6	33	46.25	6	34.5	47.13	8	37	48.81
42"	18600	24800	4	34	48.81	6	35	49.69	6	36.5	50.56	6	37.5	51.44	6	38.5	52.31	8	41	54.06

Applications:

- Allows large axial travel and moderate lateral travel while providing vertical support
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: welded to flat steel surface
- Temperature Range: +20°F to +1200°F
- Axial Movement: ± 4 1/2"
- Lateral Movement: Varies

Features:

- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield 1 1/2" each side
- Structural insulation for load transfer
- Stainless steel to UHMW polyethylene slide
- Static Coefficient of Friction = 0.15
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
Grade 5 = 0.54 Btu•in/(hr•ft²•°F) @ 200°F
Grade 6 = 0.61 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded

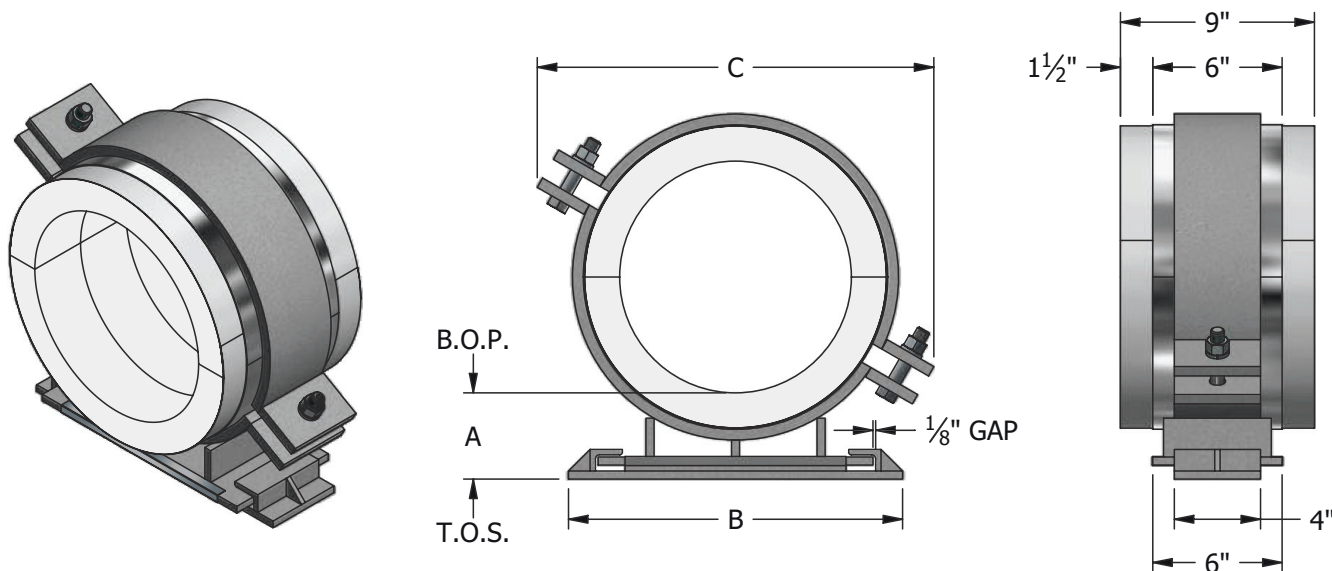
Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-656 Type II
Grade 5: 450 psi, 20 pcf
Grade 6: 900 psi, 28 pcf
other insulation materials, Page 34
- Base/Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Slide: ASTM A-240 Type 304 Stainless Steel on UHMW Polyethylene
- Shield: ASTM A-653 G-90, 18 ga Galv. Steel
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123
(B) Unfinished

FIG. NG30

Pre-Insulated Guided Pipe Support

± 1½" Axial Movement, Laterally Guided - Light Duty



Ordering: Fig. NG30 - (Pipe Size) x (Insulation Thickness) - (Insulation Grade)(Finish) e.g. NG30-8x2-5H

PIPE SIZE	VERT. LOAD GRADE 5	VERT. LOAD GRADE 6	INS. THK. = 1"			INS. THK. = 1½"			INS. THK. = 2"			INS. THK. = 2½"			INS. THK. = 3"			INS. THK. = 4"		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
2"	1100	1500	4	7	8.81	4	7.5	9.75	5	8.5	10.69	5	9	11.56	6	10	12.44	6	12	14.25
2½"	1350	1800	4	7	9.25	4	8.5	10.69	5	9	11.56	5	10	12.44	6	11	13.25	6	12.5	15.13
3"	1600	2100	4	7.5	9.75	4	8.5	10.69	4	9	11.56	5	10	12.44	6	11	13.25	6	12.5	15.13
4"	2500	3350	4	8.5	10.69	4	9	11.56	4	10	12.44	5	11	13.25	6	12	14.25	6	13.5	16
5"	3100	4200	4	10	12.25	4	11	13.06	4	12	13.94	5	13	14.94	6	13.5	15.81	6	15	17.75
6"	3800	5100	4	11	13.06	4	12	13.94	4	13	14.94	5	13.5	15.81	6	14.5	16.69	6	16	18.63
8"	5100	6800	4	13.5	14.94	4	14	15.81	4	15	16.69	6	15.5	17.75	6	16.5	18.63	6	18	20.38
10"	6000	8000	4	15	17.31	4	15.5	18.38	4	16.5	19.25	6	17	20.13	6	18	21	6	19	22.75
12"	6600	8800	4	17	19.25	4	17.5	20.13	4	18.5	21	6	19	21.88	6	19.5	22.75	6	21	24.5
14"	7500	10000	4	17.5	20.13	4	18.5	21	4	19	21.88	6	19.5	22.75	6	20.5	23.63	6	22	25.31
16"	8700	11600	4	20.5	23.19	4	21	24.06	6	22	24.94	6	22.5	25.81	6	23.5	26.69	8	24.5	28.38
18"	9600	12800	4	22	24.94	4	22.5	25.81	6	23.5	26.69	6	24	27.5	6	24.5	28.38	8	26	30.13
20"	10200	13600	4	23.5	26.69	4	24	27.5	6	24.5	28.38	6	25.5	29.25	6	26	30.13	8	27.5	31.88
24"	10800	14400	4	26	30.13	4	27	31	6	27.5	31.88	6	28.5	32.75	6	29	33.63	8	30.5	35.31
30"	14100	18800	4	32.5	35.81	6	33	36.63	6	34	37.5	6	34.5	38.38	6	35	39.25	8	36.5	41
36"	16500	22000	4	36.5	43.63	6	37.5	44.5	6	38	45.38	6	38.5	46.25	6	39.5	47.13	8	41	48.81
42"	18600	24800	4	41	48.81	6	41.5	49.69	6	42.5	50.56	6	43	51.44	6	43.5	52.31	8	45	54.06

Applications:

- Allows guided moderate axial travel while providing light duty lateral support for buckling and movement control and vertical support
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: welded to flat steel surface
- Temperature Range: +20°F to +1200°F
- Axial Travel: ± 1½"
- Lateral Guide Gap: ± 1/8"

Features:

- Allowable Lateral Load = 20% of Vertical Load
- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield 1½" each side
- Structural insulation for load transfer
- Stainless steel to UHMW polyethylene slide
- Static Coefficient of Friction = 0.15
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
Grade 5 = 0.54 Btu•in/(hr•ft²•°F) @ 200°F
Grade 6 = 0.61 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded

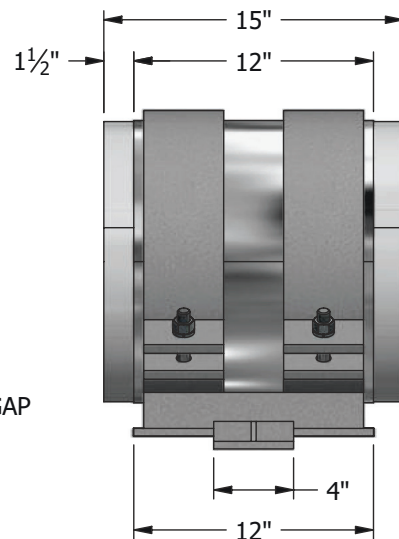
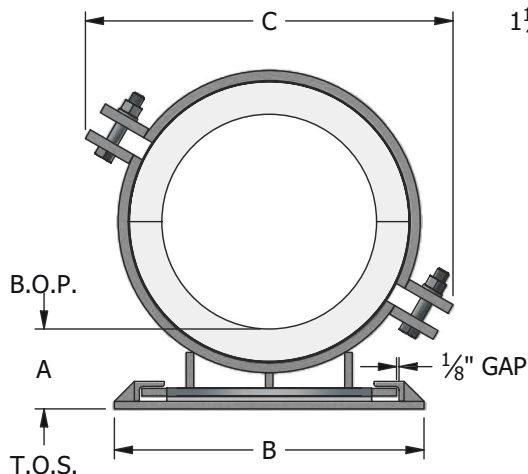
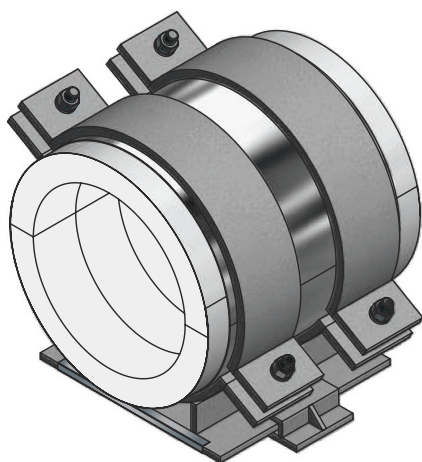
Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-656 Type II
Grade 5: 450 psi, 20 pcf
Grade 6: 900 psi, 28 pcf
other insulation materials, Page 34
- Base/Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Slide: ASTM A-240 Type 304 Stainless Steel on UHMW Polyethylene
- Shield: ASTM A-653 G-90, 18 ga Galv. Steel
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123
(B) Unfinished

FIG. NG40

Pre-Insulated Guided Pipe Support

± 4 1/2" Axial Movement, Laterally Guided - Light Duty



Ordering: Fig. NG40 - (Pipe Size) x (Insulation Thickness) - (Insulation Grade)(Finish) e.g. NG40-8x2-5H

PIPE SIZE	VERT. LOAD GRADE 5	VERT. LOAD GRADE 6	INS. THK. = 1"			INS. THK. = 1 1/2"			INS. THK. = 2"			INS. THK. = 2 1/2"			INS. THK. = 3"			INS. THK. = 4"		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
2"	1100	1500	4	7	8.81	4	7.5	9.75	5	8.5	10.69	5	9	11.56	6	10	12.44	6	12	14.25
2 1/2"	1350	1800	4	7	9.25	4	8.5	10.69	5	9	11.56	5	10	12.44	6	11	13.25	6	12.5	15.13
3"	1600	2100	4	7.5	9.75	4	8.5	10.69	4	9	11.56	5	10	12.44	6	11	13.25	6	12.5	15.13
4"	2500	3350	4	8.5	10.69	4	9	11.56	4	10	12.44	5	11	13.25	6	12	14.25	6	13.5	16
5"	3100	4200	4	10	12.25	4	11	13.06	4	12	13.94	5	13	14.94	6	13.5	15.81	6	15	17.75
6"	3800	5100	4	11	13.06	4	12	13.94	4	13	14.94	5	13.5	15.81	6	14.5	16.69	6	16	18.63
8"	5100	6800	4	13.5	14.94	4	14	15.81	4	15	16.69	6	15.5	17.75	6	16.5	18.63	6	18	20.38
10"	6000	8000	4	15	17.31	4	15.5	18.38	4	16.5	19.25	6	17	20.13	6	18	21	6	19	22.75
12"	6600	8800	4	17	19.25	4	17.5	20.13	4	18.5	21	6	19	21.88	6	19.5	22.75	6	21	24.5
14"	7500	10000	4	17.5	20.13	4	18.5	21	4	19	21.88	6	19.5	22.75	6	20.5	23.63	6	22	25.31
16"	8700	11600	4	20.5	23.19	4	21	24.06	6	22	24.94	6	22.5	25.81	6	23.5	26.69	8	24.5	28.38
18"	9600	12800	4	22	24.94	4	22.5	25.81	6	23.5	26.69	6	24	27.5	6	24.5	28.38	8	26	30.13
20"	10200	13600	4	23.5	26.69	4	24	27.5	6	24.5	28.38	6	25.5	29.25	6	26	30.13	8	27.5	31.88
24"	10800	14400	4	26	30.13	4	27	31	6	27.5	31.88	6	28.5	32.75	6	29	33.63	8	30.5	35.31
30"	14100	18800	4	32.5	35.81	6	33	36.63	6	34	37.5	6	34.5	38.38	6	35	39.25	8	36.5	41
36"	16500	22000	4	36.5	43.63	6	37.5	44.5	6	38	45.38	6	38.5	46.25	6	39.5	47.13	8	41	48.81
42"	18600	24800	4	41	48.81	6	41.5	49.69	6	42.5	50.56	6	43	51.44	6	43.5	52.31	8	45	54.06

Applications:

- Allows guided large axial travel while providing light duty lateral support for buckling and movement control and vertical support
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: welded to flat steel surface
- Temperature Range: +20°F to +1200°F
- Axial Travel: ± 4 1/2"
- Lateral Guide Gap: ± 1/8"

Features:

- Allowable Lateral Load = 20% of Vertical Load
- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield 1 1/2" each side
- Structural insulation for load transfer
- Stainless steel to UHMW polyethylene slide
- Static Coefficient of Friction = 0.15
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
Grade 5 = 0.54 Btu•in/(hr•ft²•°F) @ 200°F
Grade 6 = 0.61 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded

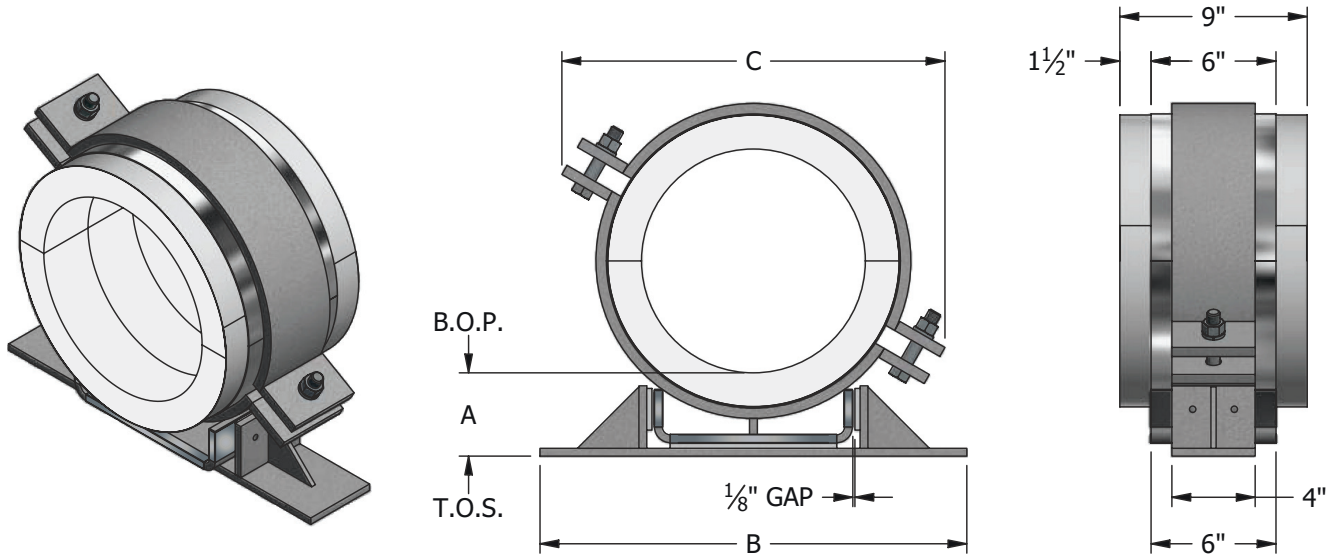
Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-656 Type II
Grade 5: 450 psi, 20 pcf
Grade 6: 900 psi, 28 pcf
other insulation materials, Page 34
- Base/Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Slide: ASTM A-240 Type 304 Stainless Steel on UHMW Polyethylene
- Shield: ASTM A-653 G-90, 18 ga Galv. Steel
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123
(B) Unfinished

FIG. NG70

Pre-Insulated Guided Pipe Support

± 1½" Axial Movement, Laterally Guided - Heavy Duty



Ordering: Fig. NG70 - (Pipe Size) x (Insulation Thickness) - (Insulation Grade)(Finish) e.g. NG70-8x2-5H

PIPE SIZE	VERT. LOAD GRADE 5	VERT. LOAD GRADE 6	INS. THK. = 1"			INS. THK. = 1½"			INS. THK. = 2"			INS. THK. = 2½"			INS. THK. = 3"			INS. THK. = 4"		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
2"	1010	1340	4	8.88	8.81	4	8.44	9.75	5	10.75	10.69	5	10.38	11.56	6	12.81	12.44	6	13.63	14.25
2½"	1230	1640	4	8.81	9.25	4	8.38	10.69	5	10.88	11.56	5	11.31	12.44	6	13.75	13.25	6	13.75	15.13
3"	1430	1900	4	9.56	9.75	4	9.88	10.69	4	9.5	11.56	5	11.94	12.44	6	14.38	13.25	6	14.38	15.13
4"	2250	3000	4	10.88	10.69	4	10.5	11.56	4	10.94	12.44	5	13.38	13.25	6	15.75	14.25	6	15.88	16
5"	2820	3760	4	11.25	12.25	4	11.69	13.06	4	12.13	13.94	5	14.5	14.94	6	16.13	15.81	6	15.94	17.75
6"	3420	4560	4	12.75	13.06	4	13.19	13.94	4	13.56	14.94	5	15.19	15.81	6	17.69	16.69	6	17.5	18.63
8"	4500	6000	4	15.56	14.94	4	15.19	15.81	4	15.69	16.69	6	19	17.75	6	19.5	18.63	6	19.63	20.38
10"	5400	7200	4	17.31	17.31	4	16.63	18.38	4	17.13	19.25	6	20.75	20.13	6	21.25	21	6	20.5	22.75
12"	5850	7800	4	19.13	19.25	4	18.75	20.13	4	19.25	21	6	22.88	21.88	6	22.5	22.75	6	22.63	24.5
14"	6750	9000	4	20	20.13	4	20.5	21	4	20.13	21.88	6	23.75	22.75	6	24.25	23.63	6	24.38	25.31
16"	7800	10400	4	21.88	23.19	4	21.5	24.06	6	26	24.94	6	25.63	25.81	6	26.13	26.69	8	29.38	28.38
18"	8550	11400	4	24	24.94	4	23.63	25.81	6	28.13	26.69	6	27.75	27.5	6	27.38	28.38	8	31.5	30.13
20"	9150	12200	4	26.13	26.69	4	25.75	27.5	6	29.38	28.38	6	29.88	29.25	6	29.5	30.13	8	33.63	31.88
24"	9600	12800	4	29.5	30.13	4	30	31	6	33.63	31.88	6	34.19	32.75	6	33.75	33.63	8	37.94	35.31
30"	12600	16800	4	35.63	35.81	6	39.25	36.63	6	39.81	37.5	6	39.38	38.38	6	39	39.25	8	43.19	41
36"	14700	19600	4	40.56	43.63	6	45.06	44.5	6	44.69	45.38	6	44.31	46.25	6	44.88	47.13	8	49	48.81
42"	16650	22200	4	47	48.81	6	50.63	49.69	6	51.13	50.56	6	50.75	51.44	6	50.38	52.31	8	54.5	54.06

Applications:

- Allows guided moderate axial travel while providing heavy duty lateral support and vertical support
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: welded to flat steel surface
- Temperature Range: +20°F to +1200°F
- Axial Travel: ± 1½"
- Lateral Guide Gap: ± ⅛"

Features:

- Allowable Lateral Load = 50% of Vertical Load
- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield 1½" each side
- Structural insulation for load transfer
- Stainless steel to UHMW polyethylene slide
- Static Coefficient of Friction = 0.15
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
Grade 5 = 0.54 Btu•in/(hr•ft²•°F) @ 200°F
Grade 6 = 0.61 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded

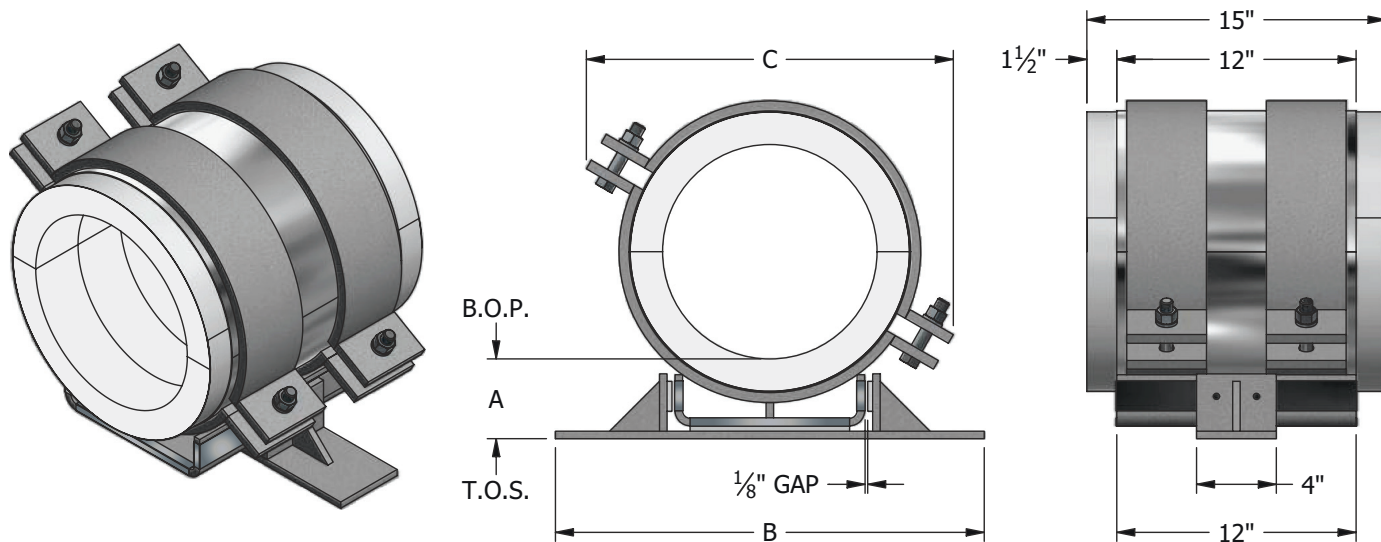
Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-656 Type II
Grade 5: 450 psi, 20 pcf
Grade 6: 900 psi, 28 pcf
other insulation materials, Page 34
- Base/Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Slide: ASTM A-240 Type 304 Stainless Steel on UHMW Polyethylene
- Shield: ASTM A-653 G-90, 18 ga Galv. Steel
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123 (B) Unfinished

FIG. NG80

Pre-Insulated Guided Pipe Support

± 4 1/2" Axial Movement, Laterally Guided - Heavy Duty



Ordering: Fig. NG80 - (Pipe Size) x (Insulation Thickness) - (Insulation Grade)(Finish) e.g. NG80-8x2-5H

PIPE SIZE	VERT. LOAD GRADE 5	VERT. LOAD GRADE 6	INS. THK. = 1"			INS. THK. = 1 1/2"			INS. THK. = 2"			INS. THK. = 2 1/2"			INS. THK. = 3"			INS. THK. = 4"		
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
2"	1010	1340	4	8.88	8.81	4	8.44	9.75	5	10.75	10.69	5	10.38	11.56	6	12.81	12.44	6	13.63	14.25
2 1/2"	1230	1640	4	8.81	9.25	4	8.38	10.69	5	10.88	11.56	5	11.31	12.44	6	13.75	13.25	6	13.75	15.13
3"	1430	1900	4	9.56	9.75	4	9.88	10.69	4	9.5	11.56	5	11.94	12.44	6	14.38	13.25	6	14.38	15.13
4"	2250	3000	4	10.88	10.69	4	10.5	11.56	4	10.94	12.44	5	13.38	13.25	6	15.75	14.25	6	15.88	16
5"	2820	3760	4	11.25	12.25	4	11.69	13.06	4	12.13	13.94	5	14.5	14.94	6	16.13	15.81	6	15.94	17.75
6"	3420	4560	4	12.75	13.06	4	13.19	13.94	4	13.56	14.94	5	15.19	15.81	6	17.69	16.69	6	17.5	18.63
8"	4500	6000	4	15.56	14.94	4	15.19	15.81	4	15.69	16.69	6	19	17.75	6	19.5	18.63	6	19.63	20.38
10"	5400	7200	4	17.31	17.31	4	16.63	18.38	4	17.13	19.25	6	20.75	20.13	6	21.25	21	6	20.5	22.75
12"	5850	7800	4	19.13	19.25	4	18.75	20.13	4	19.25	21	6	22.88	21.88	6	22.5	22.75	6	22.63	24.5
14"	6750	9000	4	20	20.13	4	20.5	21	4	20.13	21.88	6	23.75	22.75	6	24.25	23.63	6	24.38	25.31
16"	7800	10400	4	21.88	23.19	4	21.5	24.06	6	26	24.94	6	25.63	25.81	6	26.13	26.69	8	29.38	28.38
18"	8550	11400	4	24	24.94	4	23.63	25.81	6	28.13	26.69	6	27.75	27.5	6	27.38	28.38	8	31.5	30.13
20"	9150	12200	4	26.13	26.69	4	25.75	27.5	6	29.38	28.38	6	29.88	29.25	6	29.5	30.13	8	33.63	31.88
24"	9600	12800	4	29.5	30.13	4	30	31	6	33.63	31.88	6	34.19	32.75	6	33.75	33.63	8	37.94	35.31
30"	12600	16800	4	35.63	35.81	6	39.25	36.63	6	39.81	37.5	6	39.38	38.38	6	39	39.25	8	43.19	41
36"	14700	19600	4	40.56	43.63	6	45.06	44.5	6	44.69	45.38	6	44.31	46.25	6	44.88	47.13	8	49	48.81
42"	16650	22200	4	47	48.81	6	50.63	49.69	6	51.13	50.56	6	50.75	51.44	6	50.38	52.31	8	54.5	54.06

Applications:

- Allows guided large axial travel while providing heavy duty lateral support and vertical support
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: welded to flat steel surface
- Temperature Range: +20°F to +1200°F
- Axial Travel: ± 4 1/2"
- Lateral Guide Gap: ± 1/8"

Features:

- Allowable Lateral Load = 50% of Vertical Load
- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield 1 1/2" each side
- Structural insulation for load transfer
- Stainless steel to UHMW polyethylene slide
- Static Coefficient of Friction = 0.15
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
Grade 5 = 0.54 Btu•in/(hr•ft²•°F) @ 200°F
Grade 6 = 0.61 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded

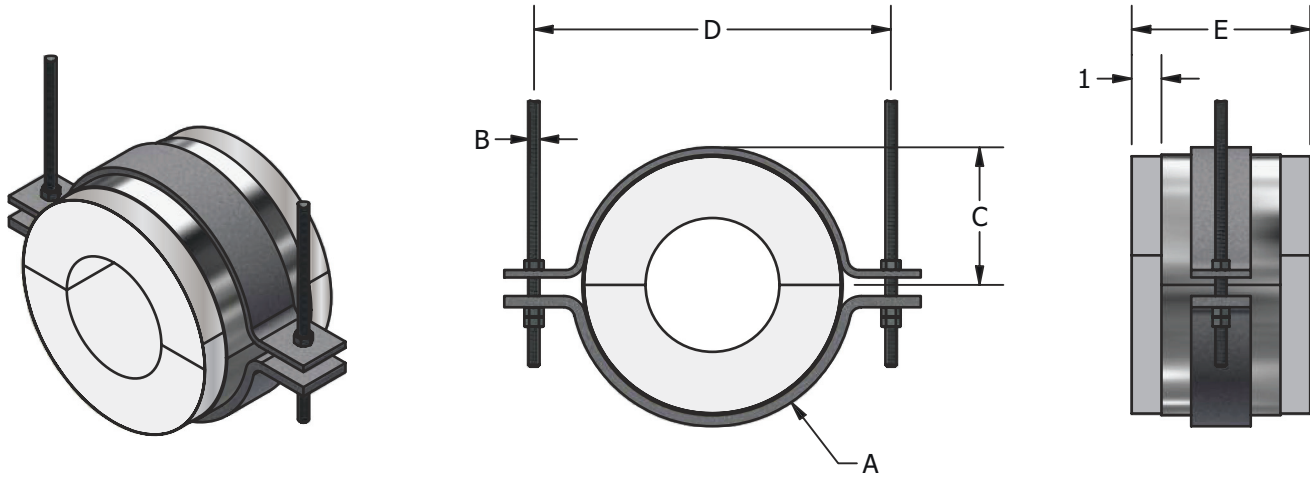
Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-656 Type II
Grade 5: 450 psi, 20 pcf
Grade 6: 900 psi, 28 pcf
other insulation materials, Page 34
- Base/Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Slide: ASTM A-240 Type 304 Stainless Steel on UHMW Polyethylene
- Shield: ASTM A-653 G-90, 18 ga Galv. Steel
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123
(B) Unfinished

FIG. NH40

Pre-Insulated Two-Rod Pipe Hanger

Hung from Two Rods



Ordering: Fig. NH40 - (Pipe Size) x (Insulation Thickness)-(Finish) e.g. NH40-3x1-H

PIPE SIZE	VERT. LOAD	A	B	INS. THK. = 1"			INS. THK. = 1½"			INS. THK. = 2"			INS. THK. = 2½"			INS. THK. = 3"			INS. THK. = 4"		
				C	D	E	C	D	E	C	D	E	C	D	E	C	D	E	C	D	E
2"	230	¾ x 2	0.375	2.56	8	6	3.13	9	6	3.63	10	6	4.13	11	6	4.63	12	6	5.69	14	6
2½"	280	¾ x 2	0.375	2.88	9	6	3.63	10	6	4.13	11	6	4.63	12	6	5.13	13	6	6.19	15	6
3"	330	¾ x 2	0.375	3.13	9	6	3.63	10	6	4.13	11	6	4.63	12	6	5.13	13	6	6.19	15	6
4"	380	¾ x 2	0.375	3.63	10	6	4.13	11	6	4.63	12	6	5.13	13	6	5.69	14	6	6.69	16	6

Applications:

- Provides light duty vertical support in low overhead clearance pipe runs
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: hung from two threaded rods
- Temperature Range: +20°F to +1200°F

Features:

- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield 1" each side
- Structural insulation for load transfer
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
0.39 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded
- See National Pipe Hanger Corporation's Pipe Hangers and Supports Catalog for hardware and upper attachments.

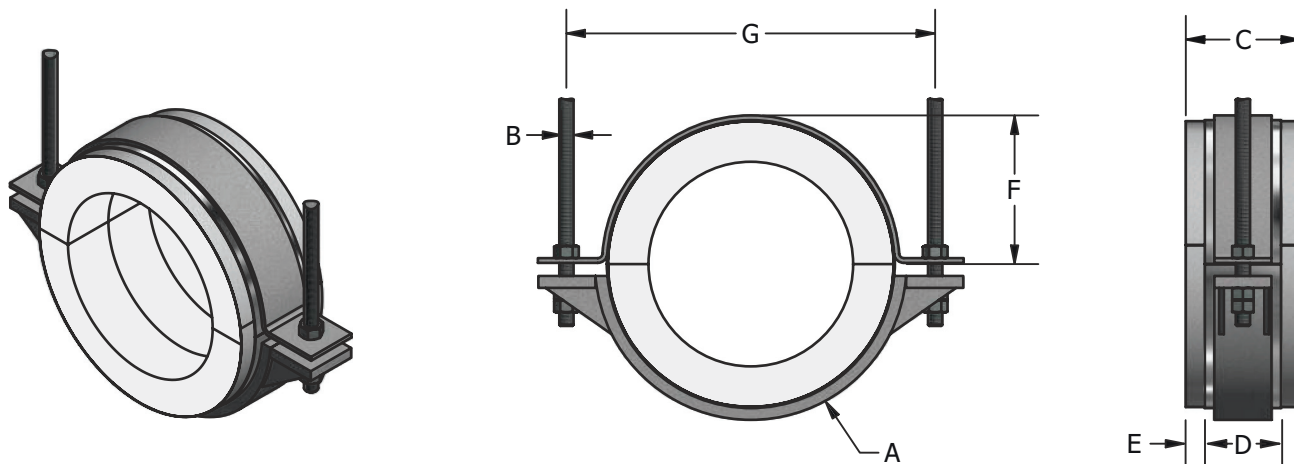
Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-533 Type I
Pro-Shield: 100 psi, 14 pcf
other insulation materials, Page 34
- Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Shield: ASTM A-653 G-90 Galv. Steel
(see Pro-Shield for gauge)
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123
(B) Unfinished

FIG. NH60

Pre-Insulated Two-Rod Pipe Hanger

Hung from Two Rods



Ordering: Fig. NH60 - (Pipe Size) x (Insulation Thickness)-(Finish) e.g. NH60-3x1-H

PIPE SIZE	VERT. LOAD	A	B	C	D	E	INS. THK. = 1"		INS. THK. = 1½"		INS. THK. = 2"		INS. THK. = 2½"		INS. THK. = 3"		INS. THK. = 4"	
							F	G	F	G	F	G	F	G	F	G	F	G
5"	1200	½ x 4	0.5	9	6	1½	4.13	11	4.63	12	5.13	13	5.69	14	6.19	15	7.31	18
6"	1600	½ x 4	0.5	9	6	1½	4.63	12	5.13	13	5.69	14	6.19	15	6.69	16	7.81	19
8"	2600	½ x 4	0.63	9	6	1½	5.69	15	6.19	16	6.69	17	7.31	18	7.81	19	8.81	21
10"	4000	¾ x 4	0.75	9	6	1½	6.88	17	7.5	18	8	19	8.5	20	9	21	10	23
12"	4800	¾ x 4	0.75	9	6	1½	8	20	8.5	21	9	22	9.5	23	10	24	11	26
14"	5000	¾ x 4	0.75	9	6	1½	8.5	21	9	22	9.5	23	10	24	10.5	25	11.5	27
16"	6600	1 x 5	1.25	9	6	1½	9.63	25	10.13	26	10.63	27	11.13	28	11.63	29	12.63	31
18"	7000	1 x 5	1.25	9	6	1½	10.63	27	11.13	28	11.63	29	12.13	30	12.63	31	13.63	33
20"	8200	1 x 6	1.25	9	7	1	11.63	29	12.13	30	12.63	31	13.13	32	13.63	33	14.63	35
24"	11400	1 x 8	1.5	12	9	1½	13.63	33	14.13	34	14.63	35	15.13	36	15.63	37	16.63	39
30"	11400	1 x 8	1.5	12	9	1½	16.63	39	17.13	40	17.63	41	18.13	42	18.63	43	19.63	45

Applications:

- Provides heavy duty vertical support in low overhead clearance pipe runs
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: hung from two threaded rods
- Temperature Range: +20°F to +1200°F

Features:

- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield 1"-1½" each side
- Structural insulation for load transfer
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
0.54 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded
- See National Pipe Hanger Corporation's Pipe Hangers and Supports Catalog for hardware and upper attachments.

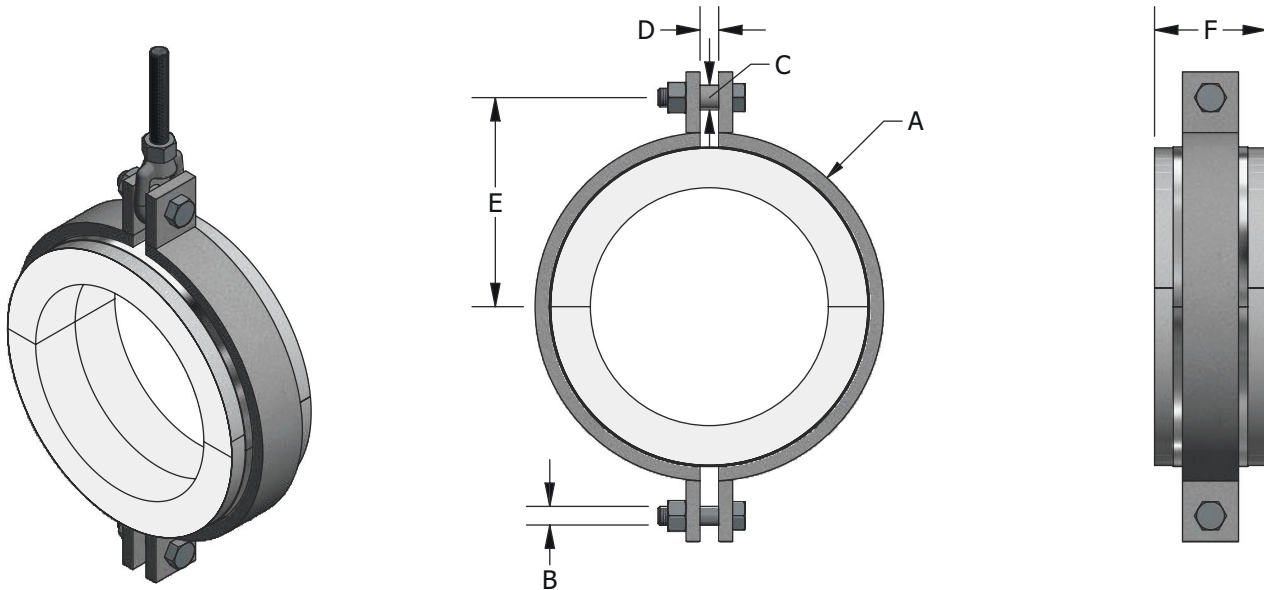
Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-656 Type II Grade 5: 450 psi, 20 pcf other insulation materials, Page 34
- Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Shield: ASTM A-653 G-90, 18 ga Galv. Steel
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123 (B) Unfinished

FIG. NC30

Pre-Insulated Two-Bolt Pipe Clamp

Hung from Single Rod



Ordering: Fig. NC30 - (Pipe Size) x (Insulation Thickness)-(Finish) e.g. NC30-3x1-H

PIPE SIZE	VERT. LOAD	A	B	C	D	INS. THK. = 1"		INS. THK. = 1½"		INS. THK. = 2"		INS. THK. = 2½"		INS. THK. = 3"		INS. THK. = 4"	
						E	F	E	F	E	F	E	F	E	F	E	F
2"	320	¾ x 2	0.375	0.675	0.75	3.31	6	3.88	6	4.38	6	4.88	6	5.38	6	6.44	6
2½"	540	¾ x 2	0.375	0.675	0.75	3.69	6	4.38	6	5	6	5.5	6	6	6	7.06	6
3"	540	¾ x 2	0.375	0.675	0.75	4	6	4.5	6	5	6	5.5	6	6	6	7.06	6
4"	770	¾ x 3	0.5	0.84	0.75	4.63	6	5.13	6	5.63	6	6.19	6	6.69	6	7.69	6
5"	1130	¾ x 3	0.5	0.84	0.75	5.38	6	5.88	6	6.38	6	6.94	6	7.44	6	8.56	6
6"	1430	¾ x 3	0.625	1.05	0.75	6	6	6.56	6	7.06	6	7.56	6	8.06	6	9.18	6
8"	1810	¾ x 3	0.625	1.05	0.75	7.31	6	7.81	6	8.31	6	8.88	6	9.44	6	10.44	6
10"	2310	½ x 3	0.75	1.05	0.75	8.44	6	9	6	9.56	6	10.06	6	10.56	6	11.56	6
12"	2710	¾ x 3	0.75	1.05	0.75	9.69	6	10.19	6	10.69	6	11.19	6	11.69	6	12.69	6
14"	2710	¾ x 3	0.75	1.05	0.75	10.19	6	10.69	6	11.19	6	11.69	6	12.18	6	13.19	6
16"	3040	¾ x 3	0.875	1.315	1	11.31	6	11.81	6	12.31	6	12.81	6	13.31	6	14.31	6
18"	3750	¾ x 3	0.875	1.315	1	12.56	6	13.06	6	13.56	6	14.06	6	14.56	6	15.56	6
20"	3860	¾ x 3	1	1.315	1	13.69	6	14.19	6	14.69	6	15.19	6	15.69	6	16.69	6
24"	4940	1 x 3	1	1.315	1	16.19	6	16.69	6	17.19	6	17.69	6	18.19	6	19.18	6
30"	5300	1 x 3	1.25	1.66	1.25	19.44	6	19.94	6	20.44	6	20.94	6	21.44	6	22.44	6
36"	7860	1 x 6	1.25	1.66	1.25	22.44	9	22.94	9	23.44	9	23.94	9	24.44	9	25.44	9
42"	7970	1 x 6	1.25	1.66	1.25	25.44	9	25.94	9	26.44	9	26.94	9	27.44	9	28.44	9

Applications:

- Provides moderate duty vertical support and horizontal movement from rod swing
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: hung from single threaded rod
- Temperature Range: +20°F to +1200°F

Features:

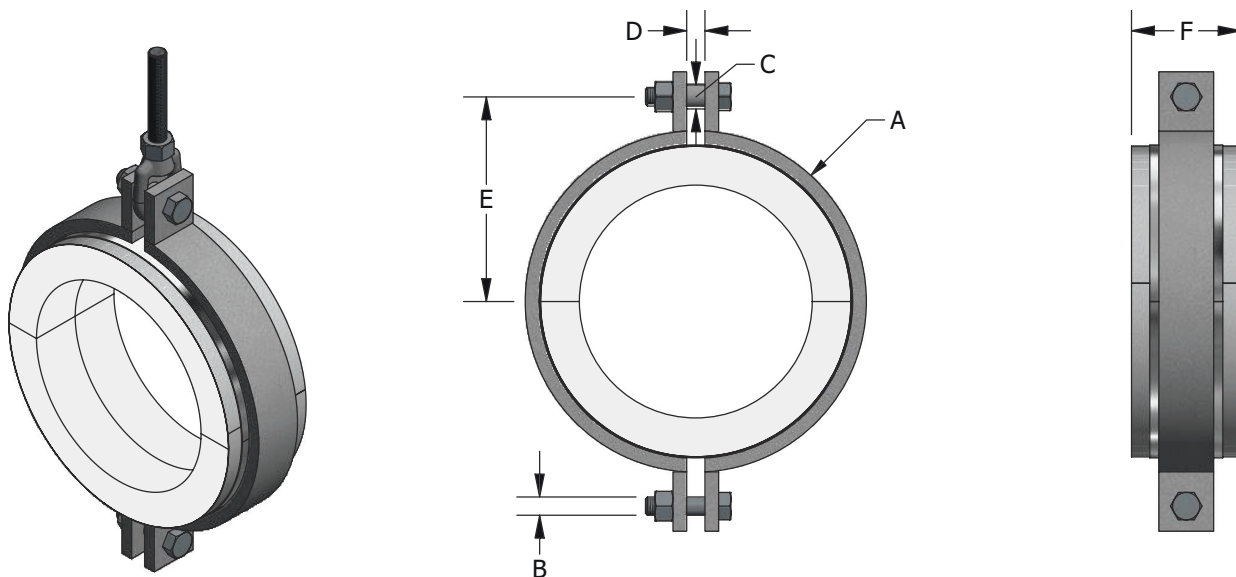
- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield 1"-1½" each side
- Structural insulation for load transfer
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
0.54 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded
- See National Pipe Hanger Corporation's Pipe Hangers and Supports Catalog for hardware and upper attachments.

Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-656 Type II Grade 5: 450 psi, 20 pcf other insulation materials, Page 34
- Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Shield: ASTM A-653 G-90, 18 ga Galv. Steel
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123 (B) Unfinished

FIG. NC31

Pre-Insulated Two-Bolt Pipe Clamp Hung from Single Rod



Ordering: Fig. NC31 - (Pipe Size) x (Insulation Thickness)-(Finish) e.g. NC31-3x1-H

PIPE SIZE	VERT. LOAD	A	B	C	D	INS. THK. = 1"		INS. THK. = 1½"		INS. THK. = 2"		INS. THK. = 2½"		INS. THK. = 3"		INS. THK. = 4"	
						E	F	E	F	E	F	E	F	E	F	E	F
2"	610	¼ x 3	0.375	0.675	0.75	3.44	6	4	6	4.5	6	5	6	5.5	6	6.56	6
2½"	810	¼ x 3	0.5	0.84	0.75	3.81	6	4.5	6	5.13	6	5.63	6	6.13	6	7.19	6
3"	1130	⅜ x 3	0.5	0.84	0.75	4.38	6	4.88	6	5.38	6	5.88	6	6.38	6	7.44	6
4"	1720	⅜ x 3	0.625	1.05	0.75	5	6	5.5	6	6	6	6.56	6	7.06	6	8.06	6
5"	2340	½ x 3	0.75	1.05	0.75	5.88	6	6.38	6	6.88	6	7.44	6	7.94	6	9.06	6
6"	2710	½ x 3	0.75	1.05	0.75	6.38	6	6.94	6	7.44	6	7.94	6	8.44	6	9.56	6
8"	3610	⅝ x 3	0.875	1.315	1	7.69	6	8.19	6	8.69	6	9.25	6	9.81	6	10.81	6
10"	3630	⅝ x 3	0.875	1.315	1	8.69	6	9.25	6	9.81	6	10.31	6	10.81	6	11.81	6
12"	4660	¾ x 3	1	1.315	1	10.19	6	10.69	6	11.19	6	11.69	6	12.19	6	13.19	6
14"	4660	¾ x 3	1	1.315	1	10.69	6	11.19	6	11.69	6	12.19	6	12.69	6	13.69	6
16"	6820	¾ x 5	1.25	1.66	1.25	11.94	9	12.44	9	12.94	9	13.44	9	13.94	9	14.94	9
18"	6820	¾ x 5	1.25	1.66	1.25	12.94	9	13.44	9	13.94	9	14.44	9	14.94	9	15.94	9
20"	7970	1 x 6	1.25	1.66	1.25	14.44	9	14.94	9	15.44	9	15.94	9	16.44	9	17.44	9
24"	10290	1 x 6	1.5	1.9	1.25	16.69	9	17.19	9	17.69	9	18.19	9	18.69	9	19.69	9
30"	10600	1 x 6	1.5	1.9	1.25	19.69	9	20.19	9	20.69	9	21.19	9	21.69	9	22.69	9
36"	13020	1¼ x 6	2	2.375	1.75	23.69	9	24.19	9	24.69	9	25.19	9	25.69	9	26.69	9
42"	13020	1¼ x 6	2	2.375	1.75	26.69	9	27.19	9	27.69	9	28.19	9	28.69	9	29.69	9

Applications:

- Provides moderate duty vertical support and horizontal movement from rod swing
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: hung from single threaded rod
- Temperature Range: +20°F to +1200°F

Features:

- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield 1"-1½" each side
- Structural insulation for load transfer
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
0.54 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded
- See National Pipe Hanger Corporation's Pipe Hangers and Supports Catalog for hardware and upper attachments.

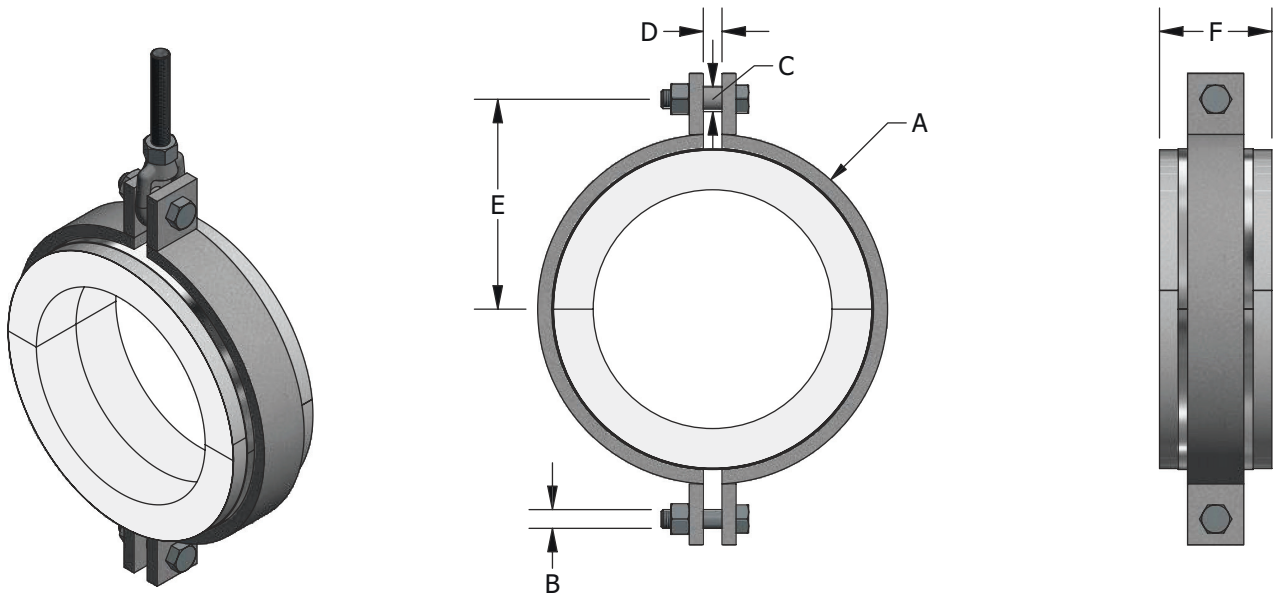
Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-656 Type II Grade 5: 450 psi, 20 pcf other insulation materials, Page 34
- Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Shield: ASTM A-653 G-90, 18 ga Galv. Steel
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123 (B) Unfinished

FIG. NC32

Pre-Insulated Two-Bolt Pipe Clamp

Hung from Single Rod



Ordering: Fig. NC32 - (Pipe Size) x (Insulation Thickness)-(Finish) e.g. NC32-3x1-H

PIPE SIZE	VERT. LOAD	A	B	C	D	INS. THK. = 1"		INS. THK. = 1½"		INS. THK. = 2"		INS. THK. = 2½"		INS. THK. = 3"		INS. THK. = 4"	
						E	F	E	F	E	F	E	F	E	F	E	F
2"	1220	¼ x 5	0.625	1.05	0.75	3.69	9	4.25	9	4.75	9	5.25	9	5.75	9	6.81	9
2½"	1220	¼ x 5	0.625	1.05	0.75	3.94	9	4.63	9	5.25	9	5.75	9	6.25	9	7.31	9
3"	1810	⅜ x 5	0.625	1.05	0.75	4.5	9	5	9	5.5	9	6	9	6.5	9	7.56	9
4"	2590	⅜ x 5	0.75	1.05	0.75	5.13	9	5.63	9	6.13	9	6.69	9	7.19	9	8.19	9
5"	2710	½ x 5	0.75	1.05	0.75	5.88	9	6.38	9	6.88	9	7.44	9	7.94	9	9.06	9
6"	3750	½ x 5	0.875	1.315	1	6.5	9	7.06	9	7.56	9	8.06	9	8.56	9	9.69	9
8"	4220	½ x 5	1	1.315	1	7.81	9	8.31	9	8.81	9	9.38	9	9.94	9	10.94	9
10"	6050	⅝ x 5	1.25	1.66	1.25	9.06	9	9.63	9	10.19	9	10.69	9	11.19	9	12.19	9
12"	7770	¾ x 5	1.25	1.66	1.25	10.44	9	10.94	9	11.44	9	11.94	9	12.44	9	13.44	9
14"	7770	¾ x 5	1.25	1.66	1.25	10.94	9	11.44	9	11.94	9	12.44	9	12.94	9	13.94	9
16"	7970	1 x 5	1.25	1.66	1.25	12.44	9	12.94	9	13.44	9	13.94	9	14.44	9	15.44	9
18"	11270	1 x 5	1.5	1.9	1.25	13.69	9	14.19	9	14.69	9	15.19	9	15.69	9	16.69	9
20"	11470	1 x 6	1.5	1.9	1.25	14.69	9	15.19	9	15.69	9	16.19	9	16.69	9	17.69	9
24"	12220	1 x 6	2	2.375	1.75	17.06	9	17.56	9	18.06	9	18.56	9	19.06	9	20.06	9
30"	16480	1½ x 6	2	2.375	1.75	20.69	9	21.19	9	21.69	9	22.19	9	22.69	9	23.69	9
36"	17370	1½ x 8	2	2.375	1.75	23.69	12	24.19	12	24.69	12	25.19	12	25.69	12	26.69	12
42"	17370	1½ x 8	2	2.375	1.75	26.69	12	27.19	12	27.69	12	28.19	12	28.69	12	29.69	12

Applications:

- Provides heavy duty vertical support and horizontal movement from rod swing
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: hung from single threaded rod
- Temperature Range: +20°F to +1200°F

Features:

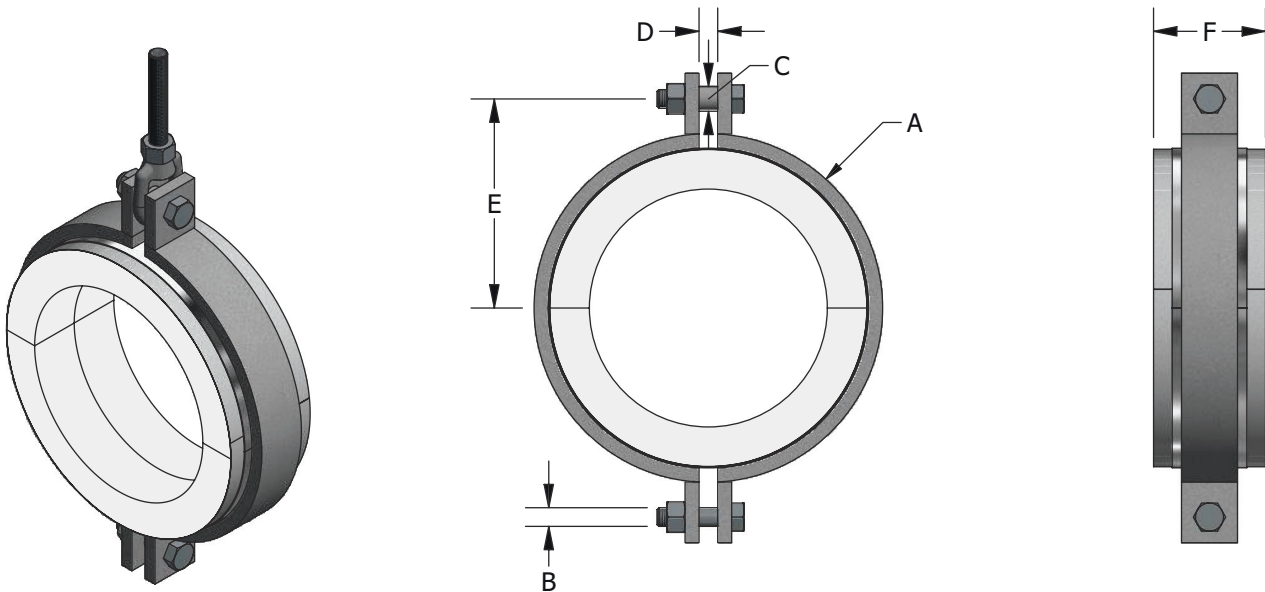
- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield 1"-1½" each side
- Structural insulation for load transfer
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
0.54 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded
- See National Pipe Hanger Corporation's Pipe Hangers and Supports Catalog for hardware and upper attachments.

Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-656 Type II Grade 5: 450 psi, 20 pcf other insulation materials, Page 34
- Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Shield: ASTM A-653 G-90, 18 ga Galv. Steel
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123 (B) Unfinished

FIG. NC33

Pre-Insulated Two-Bolt Pipe Clamp Hung from Single Rod



Ordering: Fig. NC33 - (Pipe Size) x (Insulation Thickness)-(Finish) e.g. NC33-3x1-H

PIPE SIZE	VERT. LOAD	A	B	C	D	INS. THK. = 1"		INS. THK. = 1½"		INS. THK. = 2"		INS. THK. = 2½"		INS. THK. = 3"		INS. THK. = 4"	
						E	F	E	F	E	F	E	F	E	F	E	F
2"	1720	¼ x 6	0.625	1.05	0.75	3.69	9	4.25	9	4.75	9	5.25	9	5.75	9	6.81	9
2½"	1810	¾ x 6	0.625	1.05	0.75	4.19	9	4.88	9	5.5	9	6	9	6.5	9	7.56	9
3"	2710	¾ x 6	0.75	1.05	0.75	4.56	9	5.13	9	5.63	9	6.13	9	6.63	9	7.69	9
4"	3450	¾ x 6	0.875	1.315	1	5.25	9	5.75	9	6.25	9	6.81	9	7.31	9	8.31	9
5"	3750	½ x 6	0.875	1.315	1	6	9	6.50	9	7	9	7.56	9	8.06	9	9.19	9
6"	4940	½ x 6	1	1.315	1	6.75	9	7.31	9	7.81	9	8.31	9	8.81	9	9.94	9
8"	7220	¾ x 6	1.25	1.66	1.25	8.06	9	8.56	9	9.06	9	9.63	9	10.19	9	11.19	9
10"	7250	¾ x 6	1.25	1.66	1.25	9.06	9	9.63	9	10.19	9	10.69	9	11.19	9	12.19	9
12"	9320	¾ x 6	1.5	1.9	1.25	10.69	9	11.19	9	11.69	9	12.19	9	12.69	9	13.69	9
14"	9320	¾ x 6	1.5	1.9	1.25	11.19	9	11.69	9	12.19	9	12.69	9	13.19	9	14.19	9
16"	11470	1 x 6	1.5	1.9	1.25	12.69	9	13.19	9	13.69	9	14.19	9	14.69	9	15.69	9
18"	14450	1 x 6	2	2.375	1.75	14.06	9	14.56	9	15.06	9	15.56	9	16.06	9	17.06	9
20"	16580	1½ x 6	2	2.375	1.75	15.69	9	16.19	9	16.69	9	17.19	9	17.69	9	18.69	9
24"	19010	1½ x 6	2	2.375	1.75	17.69	9	18.19	9	18.69	9	19.19	9	19.69	9	20.69	9
30"	20610	1½ x 8	2	2.375	1.75	20.69	12	21.19	12	21.69	12	22.19	12	22.69	12	23.69	12
36"	24910	1½ x 8	2.5	3.5	1.75	24.44	12	24.94	12	25.44	12	25.94	12	26.44	12	27.44	12
42"	24910	1½ x 8	2.5	3.5	1.75	27.44	12	27.94	12	28.44	12	28.94	12	29.44	12	30.44	12

Applications:

- Provides heavy duty vertical support and horizontal movement from rod swing
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: hung from single threaded rod
- Temperature Range: +20°F to +1200°F

Features:

- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield 1"-1½" each side
- Structural insulation for load transfer
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
0.61 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded
- See National Pipe Hanger Corporation's Pipe Hangers and Supports Catalog for hardware and upper attachments.

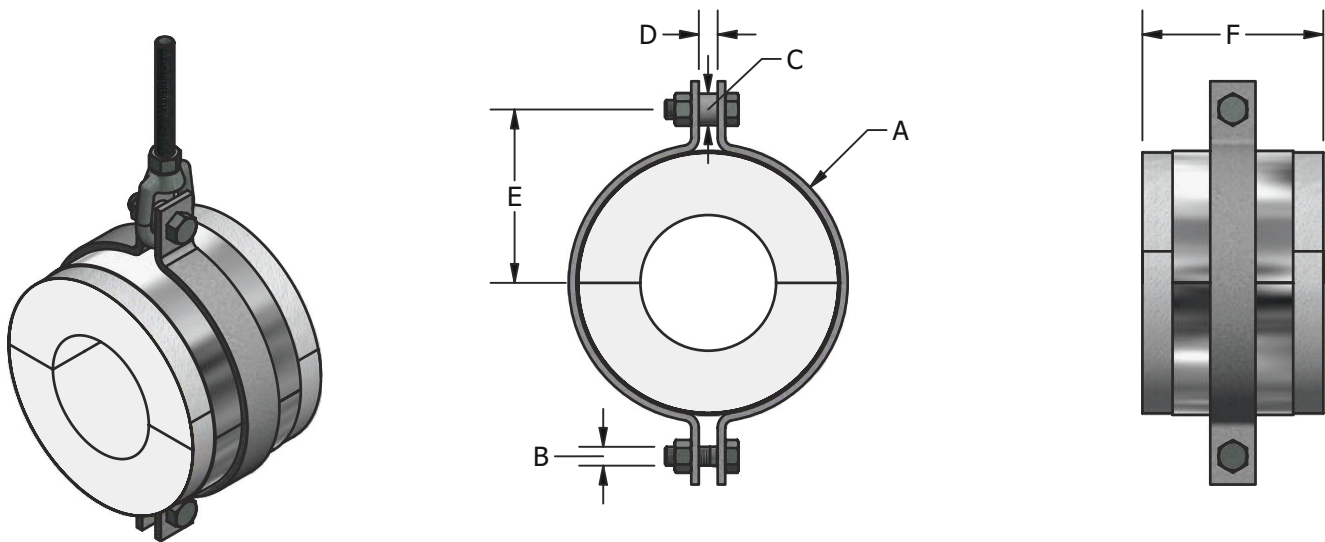
Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-656 Type II Grade 6: 900 psi, 28 pcf other insulation materials, Page 34
- Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Shield: ASTM A-653 G-90, 18 ga Galv. Steel
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123 (B) Unfinished

FIG. NC10

Pre-Insulated Two-Bolt Pipe Clamp

Hung from Single Rod



Ordering: Fig. NC10 - (Pipe Size) x (Insulation Thickness)-(Finish) e.g. NC10-3x1-H

PIPE SIZE	VERT. LOAD	A	B	C	D	INS. THK. = 1"		INS. THK. = 1½"		INS. THK. = 2"		INS. THK. = 2½"		INS. THK. = 3"		INS. THK. = 4"	
						E	F	E	F	E	F	E	F	E	F	E	F
2"	230	¼ x 1½	0.5	0.84	0.63	3.56	6	4.13	6	4.63	6	5.13	6	5.63	6	6.69	6
2½"	280	¼ x 1½	0.5	0.84	0.63	3.81	6	4.5	6	5.13	6	5.63	6	6.13	6	7.19	6
3"	330	¼ x 1½	0.63	1.05	0.63	4.25	6	4.75	6	5.25	6	5.75	6	6.25	6	7.31	6
4"	380	¼ x 1½	0.63	1.05	0.63	4.75	6	5.25	6	5.75	6	6.31	6	6.81	6	7.81	6

Applications:

- Provides light duty vertical support and horizontal movement from rod swing
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: hung from single threaded rod
- Temperature Range: +20°F to +1200°F

Features:

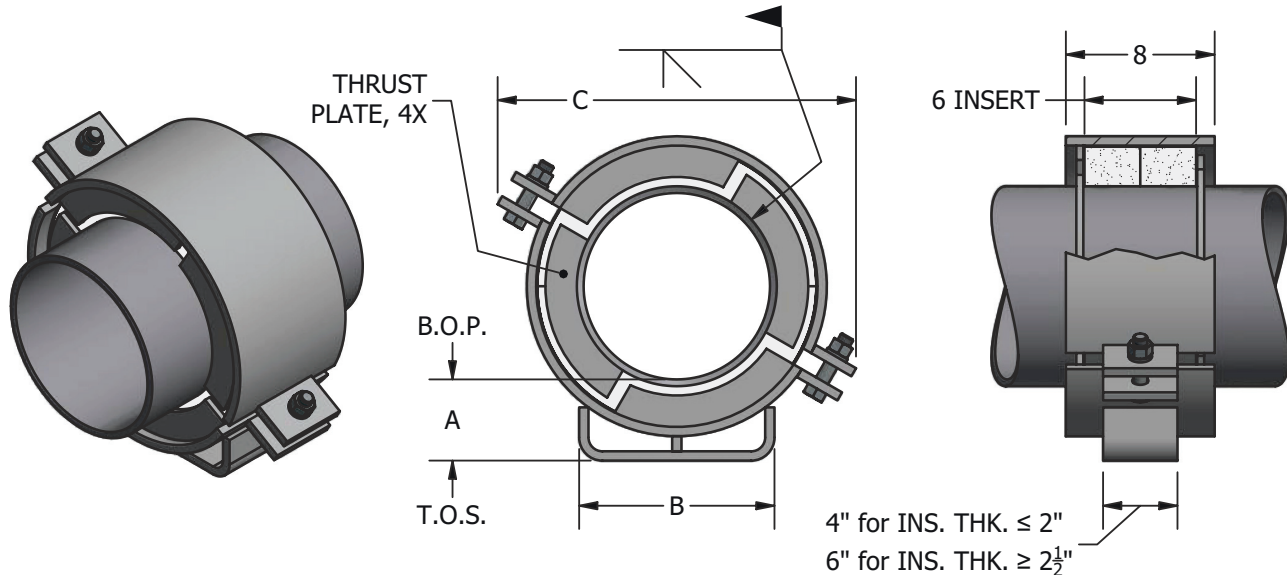
- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield 1" each side
- Structural insulation for load transfer
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
0.39 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded
- See National Pipe Hanger Corporation's Pipe Hangers and Supports Catalog for hardware and upper attachments.

Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-533 Type I
Pro-Shield: 100 psi, 14 pcf
other insulation materials, Page 34
- Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Shield: ASTM A-653 G-90 Galv. Steel
(see Pro-Shield for gauge)
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123
(B) Unfinished

FIG. NA40

Pre-Insulated Pipe Anchor For Axial & Vertical Loads



Ordering: Fig. NA40 - (Pipe Size) x (Insulation Thickness)-(Finish) e.g. NA40-3x1-H

PIPE SIZE	VERT. LOAD	INS. THK. = 1"				INS. THK. = 1½"				INS. THK. = 2"				INS. THK. = 2½"				INS. THK. = 3"				INS. THK. = 4"			
		AXIAL	A	B	C	AXIAL	A	B	C	AXIAL	A	B	C	AXIAL	A	B	C	AXIAL	A	B	C	AXIAL	A	B	C
2"	1640	730	4	2.5	9.3	1160	4	3	10.6	1620	5	4	12	2460	5	4.5	14.2	2460	6	5.5	15.1	2460	6	7.5	16.9
2½"	1980	890	4	2.5	9.7	1410	4	4	11.6	1960	5	4.5	12.9	2980	5	5.5	15.1	2980	6	6.5	15.9	2980	6	8	17.8
3"	2420	1400	4	3	10.2	2400	4	4	11.6	3450	4	4.5	12.9	3620	5	5.5	15.1	3620	6	6.5	15.9	3620	6	8	17.8
4"	3110	1730	4	4	11.1	2900	4	4.5	12.4	4100	4	5.5	13.8	4660	5	6.5	15.9	4660	6	7.5	16.9	4660	6	9	18.6
5"	3840	2060	4	4.5	11.9	3400	4	5.5	13.3	4750	4	6.5	14.6	5760	5	7.5	16.9	5760	6	8	17.8	5760	6	9.5	19.7
6"	4570	2400	4	5.5	12.8	3900	4	6.5	14.1	5400	4	7.5	15.6	6860	5	8	17.8	6860	6	9	18.6	6860	6	10.5	20.6
8"	5950	3020	4	7.5	14.7	4850	4	8	16	6675	4	9	17.3	8930	6	9.5	19.7	8930	6	10.5	20.6	8930	6	12	22.3
10"	7420	3700	4	9	16.4	5850	4	9.5	18.4	8000	4	10.5	19.3	11130	6	11	21.4	11130	6	12	22.3	11130	6	13	24.1
12"	8800	4320	4	10.5	18.4	6800	4	11	20.1	9300	4	12	21	13200	6	12.5	23.6	13200	6	13	24.5	13200	6	14.5	26.3
14"	10000	4700	4	11	19.3	7350	4	12	21	10000	4	12.5	23.2	15000	6	13	24.5	15000	6	14	25.4	15000	6	15.5	27.1
16"	11600	5340	4	12.5	20.9	8320	4	13	22.8	11300	6	14	24.9	17400	6	14.5	26.3	17400	6	15.5	27.1	17400	8	16.5	28.9
18"	12800	5970	4	14	22.7	9240	4	14.5	24.5	12500	6	15.5	26.7	19200	6	16	28	19200	6	16.5	28.9	19200	8	18	30.6
20"	13600	6600	4	15.5	24.4	10200	4	16	26.2	13800	6	16.5	28.4	20400	6	17.5	29.7	20400	6	18	30.6	20400	8	19.5	32.3
24"	14400	7850	4	18	27.9	12000	4	19	29.7	16300	6	19.5	31.9	21600	6	20.5	33.2	21600	6	21	34.1	21600	8	22.5	35.8
30"	18800	9740	4	22.5	34	14900	6	23	36.2	20100	6	24	37.5	28200	6	24.5	41.1	28200	6	25	41.9	28200	8	26.5	43.6
36"	22000	11600	4	26.5	39.2	17750	6	27.5	41.4	23900	6	28	42.8	33000	6	28.5	46.3	33000	6	29.5	47.1	33000	8	31	48.8
42"	24800	13500	4	31	44.4	20500	6	31.5	46.6	23900	6	32.5	47.9	37200	6	33	51.4	37200	6	33.5	52.3	37200	8	35	54.1

Applications:

- Provides vertical support and resistance to axial forces
- Designed for use on:
 - Chilled Water
 - Hot Water
 - Steam
 Straight runs with expansion joints producing axial thrust forces
- Installation: welded to flat steel surface
- Temperature Range: +20°F to +1200°F
- Axial Load ratings do not include local stress evaluation at thrust plate/pipeline wall interface. Contact factory for assistance.

Features:

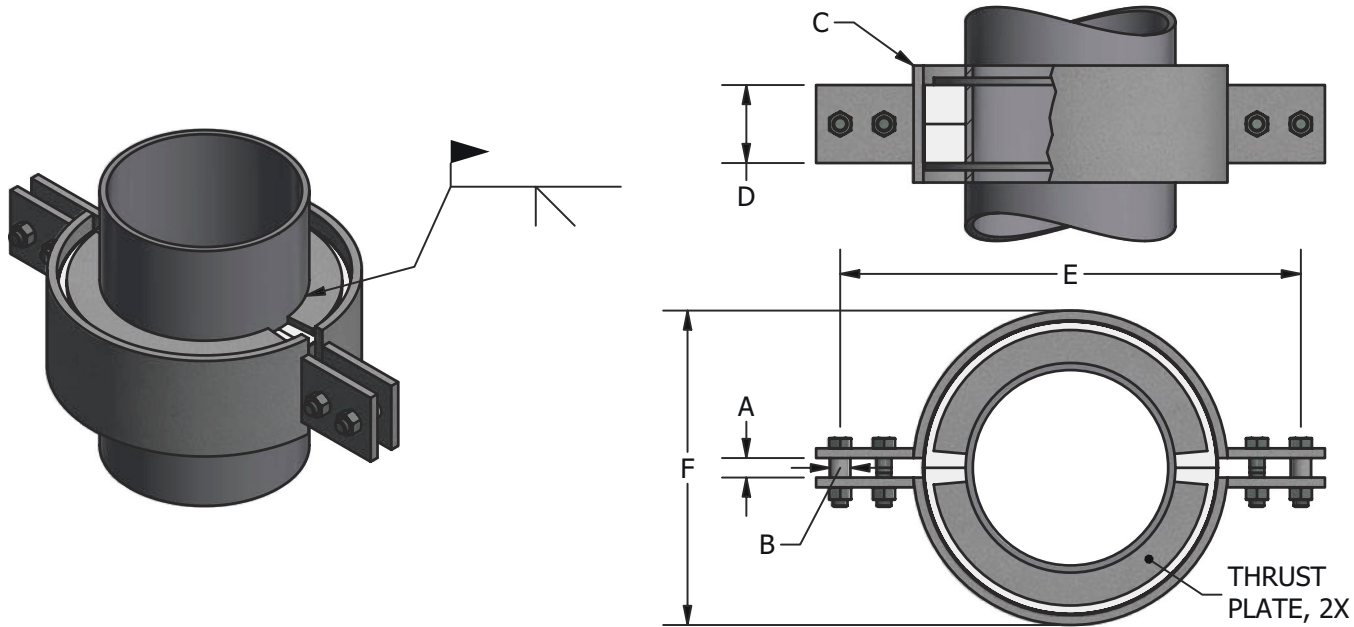
- Structural insulation for load transfer
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
 - 0.61 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded
- B.O.P. to T.O.S. matched to NS and NG models
- Four thrust plates shipped loose for field welding

Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-656 Type II Grade 6: 900 psi, 28 pcft other insulation materials, Page 34
- Base/Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Shield: ASTM A-653 G-90, 18 ga Galv. Steel
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123 (B) Unfinished

FIG. NR10

Pre-Insulated Pipe Riser Clamp For Downward Riser Loads



Ordering: Fig. NR10 - (Pipe Size) x (Insulation Thickness)-(Finish) e.g. NR10-3x1-H

PIPE SIZE	VERT. LOAD	A	B	C	D	INS. THK. = 1"		INS. THK. = 1½"		INS. THK. = 2"		INS. THK. = 2½"		INS. THK. = 3"		INS. THK. = 4"	
						E	F	E	F	E	F	E	F	E	F	E	F
2"	750	0.63	1.05	½ x 4	2	12.38	5.63	13.5	6.69	14.5	7.75	15.5	8.75	16.5	9.75	18.63	11.88
2½"	900	0.63	1.05	½ x 4	2	12.88	6.13	14.25	7.75	15.5	8.75	16.5	9.75	17.5	10.75	19.63	12.88
3"	1200	0.63	1.05	½ x 4	2	13.5	6.69	14.5	7.75	15.5	8.75	16.5	9.75	17.5	10.75	19.63	12.88
4"	1800	0.63	1.05	½ x 4	2	14.5	7.75	15.5	8.75	16.5	9.75	17.63	10.75	18.63	11.88	20.63	13.88
5"	2400	0.63	1.05	½ x 4	2	15.5	8.75	16.5	9.75	17.5	10.75	18.63	11.88	19.63	12.88	21.88	15.13
6"	3000	0.88	1.05	½ x 6	4	16.5	9.75	17.63	10.75	18.63	11.88	19.63	12.88	20.63	13.88	22.88	16.13
8"	3900	0.88	1.05	½ x 6	4	18.63	11.88	19.63	12.88	20.63	13.88	21.75	15.13	22.88	16.13	24.88	18.13
10"	4800	0.88	1.05	½ x 6	4	21.38	13.88	22.5	15.13	23.63	16.13	24.63	17.13	25.63	18.13	27.63	20.13
12"	6800	1.13	1.315	½ x 8	6	23.88	16.13	24.88	17.13	25.88	18.13	26.88	19.13	27.88	20.13	29.88	22.13
14"	8000	1.13	1.315	½ x 8	6	24.88	17.13	25.88	18.13	26.88	19.13	27.88	20.13	28.88	21.13	30.88	23.13
16"	9200	1.13	1.315	⅝ x 8	6	27.38	19.38	28.38	20.38	29.38	21.38	30.38	22.38	31.38	23.38	33.38	25.38
18"	10000	1.13	1.315	⅝ x 8	6	29.38	21.38	30.38	22.38	31.38	23.38	32.38	24.38	33.38	25.38	35.38	27.38
20"	10800	1.13	1.315	⅝ x 8	6	31.38	23.38	32.38	24.38	33.38	25.38	34.38	26.38	35.38	27.38	37.38	29.38
24"	11200	1.13	1.66	⅝ x 8	6	36.38	27.38	37.38	28.38	38.38	29.38	39.38	30.38	40.38	31.38	42.38	33.38

Applications:

- Provides vertical support to downward riser loads
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: hung from two threaded rods or rest on a flat surface
- Temperature Range: +20°F to +1200°F
- Vertical Load ratings do not include local stress evaluation at thrust plate/pipe wall interface. Contact factory for assistance.

Features:

- Provides continuous, zero permeability vapor barrier
- Structural insulation for load transfer
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
0.61 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded
- Two thrust plates shipped loose for field welding
- Outside hanger bolt is offset to accommodate weldless eye nut on sizes 6" and above.
- See National Pipe Hanger Corporation's Pipe Hangers and Supports Catalog for hardware and upper attachments.

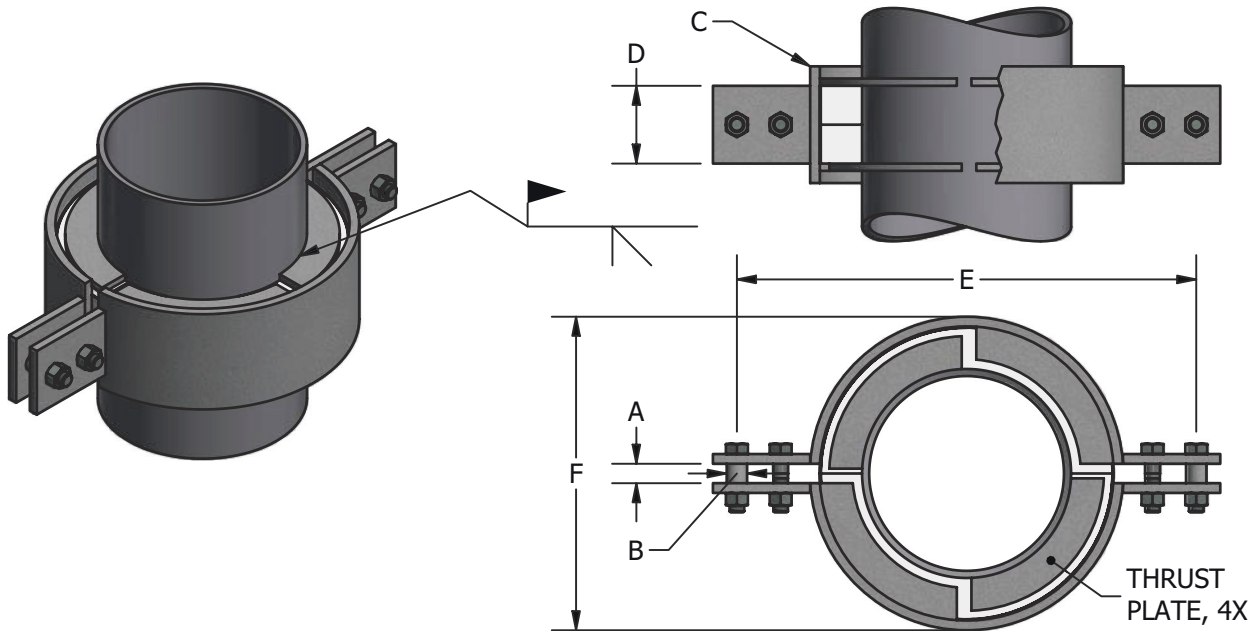
Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-656 Type II Grade 6: 900 psi, 28 pcf other insulation materials, Page 34
- Base/Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Shield: ASTM A-653 G-90, 18 ga Galv. Steel
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123 (B) Unfinished

FIG. NR20

Pre-Insulated Pipe Riser Clamp

For Upward and Downward Riser Loads



Ordering: Fig. NR20 - (Pipe Size) x (Insulation Thickness)-(Finish) e.g. NR20-3x1-H

PIPE SIZE	VERT. LOAD	A	B	C	D	INS. THK. = 1"		INS. THK. = 1 1/2"		INS. THK. = 2"		INS. THK. = 2 1/2"		INS. THK. = 3"		INS. THK. = 4"	
						E	F	E	F	E	F	E	F	E	F	E	F
2"	750	0.63	1.05	1/2 x 4	2	12.38	5.63	13.5	6.69	14.5	7.75	15.5	8.75	16.5	9.75	18.63	11.88
2 1/2"	900	0.63	1.05	1/2 x 4	2	12.88	6.13	14.25	7.75	15.5	8.75	16.5	9.75	17.5	10.75	19.63	12.88
3"	1200	0.63	1.05	1/2 x 4	2	13.5	6.69	14.5	7.75	15.5	8.75	16.5	9.75	17.5	10.75	19.63	12.88
4"	1800	0.63	1.05	1/2 x 4	2	14.5	7.75	15.5	8.75	16.5	9.75	17.63	10.75	18.63	11.88	20.63	13.88
5"	2400	0.63	1.05	1/2 x 4	2	15.5	8.75	16.5	9.75	17.5	10.75	18.63	11.88	19.63	12.88	21.88	15.13
6"	3000	0.88	1.05	1/2 x 6	4	16.5	9.75	17.63	10.75	18.63	11.88	19.63	12.88	20.63	13.88	22.88	16.13
8"	3900	0.88	1.05	1/2 x 6	4	18.63	11.88	19.63	12.88	20.63	13.88	21.75	15.13	22.88	16.13	24.88	18.13
10"	4800	1.13	1.05	1/2 x 6	4	21.38	13.88	22.5	15.13	23.63	16.13	24.63	17.13	25.63	18.13	27.63	20.13
12"	6800	1.13	1.315	1/2 x 8	6	23.88	16.13	24.88	17.13	25.88	18.13	26.88	19.13	27.88	20.13	29.88	22.13
14"	8000	1.13	1.315	1/2 x 8	6	24.88	17.13	25.88	18.13	26.88	19.13	27.88	20.13	28.88	21.13	30.88	23.13
16"	9200	1.13	1.315	5/8 x 8	6	27.38	19.38	28.38	20.38	29.38	21.38	30.38	22.38	31.38	23.38	33.38	25.38
18"	10000	1.13	1.315	5/8 x 8	6	29.38	21.38	30.38	22.38	31.38	23.38	32.38	24.38	33.38	25.38	35.38	27.38
20"	10800	1.13	1.315	5/8 x 8	6	31.38	23.38	32.38	24.38	33.38	25.38	34.38	26.38	35.38	27.38	37.38	29.38
24"	11200	1.13	1.66	5/8 x 8	6	36.38	27.38	37.38	28.38	38.38	29.38	39.38	30.38	40.38	31.38	42.38	33.38

Applications:

- Provides vertical support to upward and downward riser loads
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: welded to a flat surface or rigidly braced
- Temperature Range: +20°F to +1200°F
- Vertical Load ratings do not include local stress evaluation at thrust plate/pipeline wall interface. Contact factory for assistance.

Features:

- Provides continuous, zero permeability vapor barrier
- Structural insulation for load transfer
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
0.61 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded
- Four thrust plates shipped loose for field welding
- Outside hanger bolt is offset to accommodate weldless eye nut on sizes 6" and above.
- See National Pipe Hanger Corporation's Pipe Hangers and Supports Catalog for hardware and upper attachments.

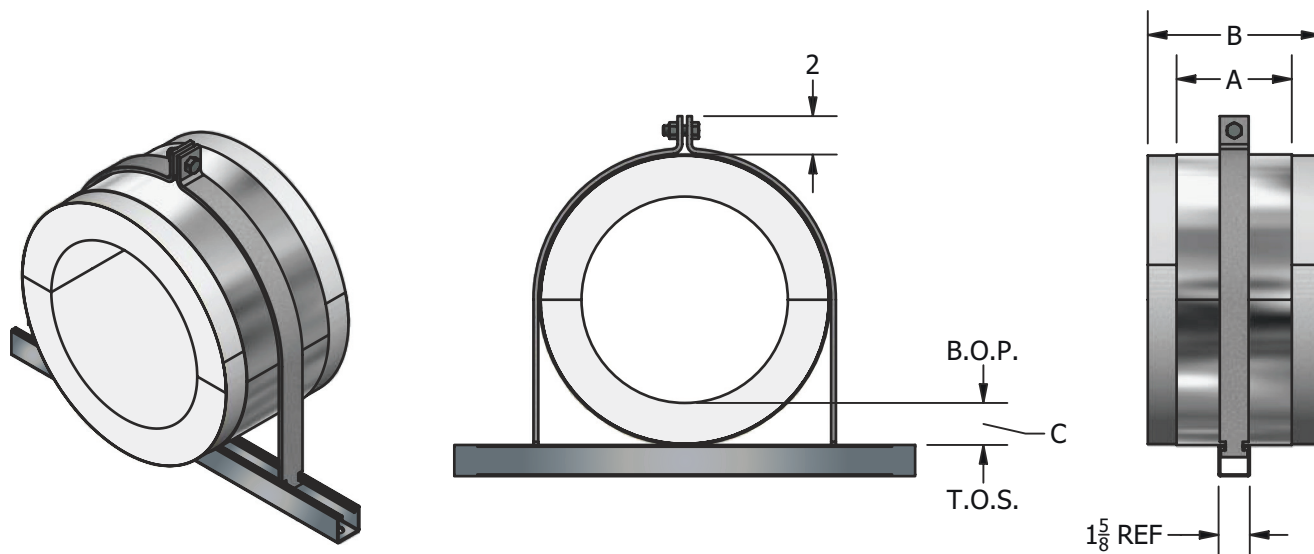
Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-656 Type II Grade 6: 900 psi, 28 pcf other insulation materials, Page 34
- Base/Clamp: ASTM A-36 Carbon Steel
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Shield: ASTM A-653 G-90, 18 ga Galv. Steel
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123 (B) Unfinished

FIG. NC70

Pre-Insulated Holddown Strut Clamp

For Use on Strut



Ordering: Fig. NC70 - (Pipe Size) x (Insulation Thickness)-(Finish) e.g. NC70-3x1-H

PIPE SIZE	VERTICAL LOAD	LATERAL LOAD	INS. THK. = 1"		INS. THK. = 1½"		INS. THK. = 2"		INS. THK. = 2½"		INS. THK. = 3"		INS. THK. = 4"	
			A / B	C	A / B	C	A / B	C	A / B	C	A / B	C	A / B	C
2"	130	50	4 / 6	1.125	4 / 6	1.6875	4 / 6	2.1875	4 / 6	2.6875	4 / 6	3.1875	4 / 6	4.25
2½"	150	50	4 / 6	1.125	4 / 6	1.9375	4 / 6	2.4375	4 / 6	2.9375	4 / 6	3.4375	4 / 6	4.5
3"	170	50	4 / 6	1.125	4 / 6	1.625	4 / 6	2.125	4 / 6	2.625	4 / 6	3.125	4 / 6	4.1875
4"	170	50	4 / 6	1.125	4 / 6	1.625	4 / 6	2.125	4 / 6	2.625	4 / 6	3.1875	4 / 6	4.1875
5"	260	50	4 / 6	1.125	4 / 6	1.625	4 / 6	2.125	4 / 6	2.6875	4 / 6	3.1875	4 / 6	4.3125
6"	330	50	6 / 9	1.0625	6 / 9	1.5625	6 / 9	2.125	6 / 9	2.625	6 / 9	3.125	6 / 9	4.25
8"	510	50	6 / 9	1.125	6 / 9	1.625	6 / 9	2.125	6 / 9	2.75	6 / 9	3.25	6 / 9	4.25
10"	830	50	6 / 9	1.0625	6 / 9	1.6875	6 / 9	2.1875	6 / 9	2.6875	6 / 9	3.1875	6 / 9	4.1875
12"	1200	50	6 / 9	1.1875	6 / 9	1.6875	6 / 9	2.1875	6 / 9	2.6875	6 / 9	3.1875	6 / 9	4.1875

Applications:

- Provides light duty vertical support and lateral support
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: clamped to 1½" wide strut
- Temperature Range: +20°F to +1200°F

Features:

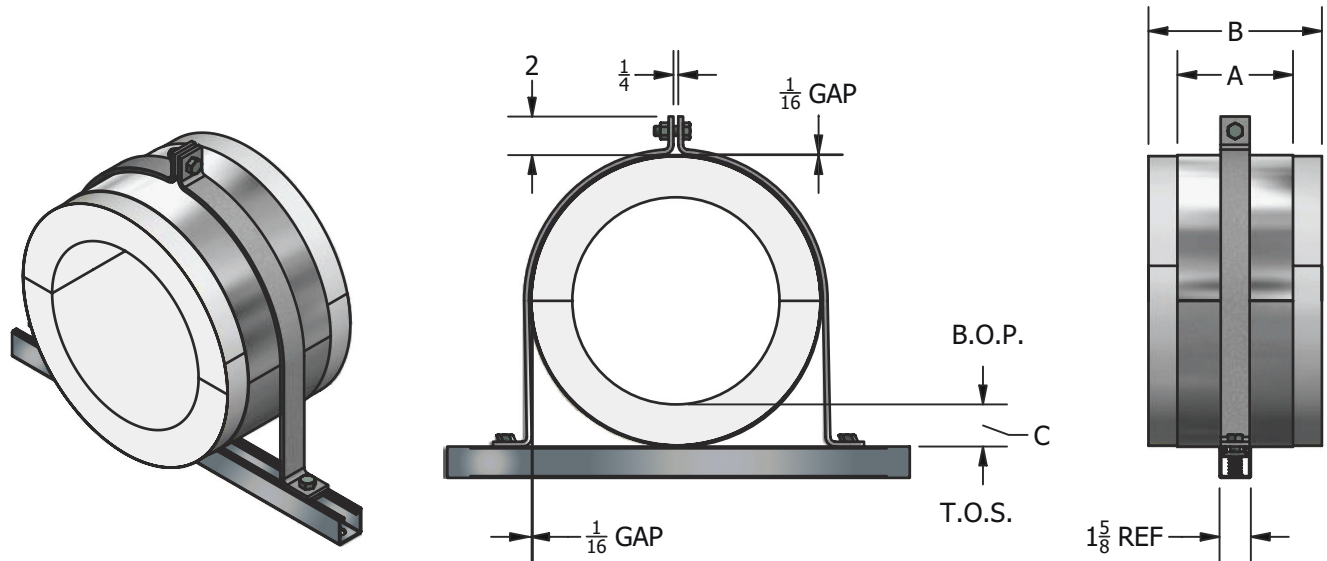
- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield 1"-1½" each side
- Structural insulation for load transfer
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
0.39 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded

Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-533 Type I Pro-Shield: 100 psi, 14 pcf standard with 450 psi, 20 pcf insert for 12" pipe other insulation materials, Page 34
- Clamp: ASTM A-36 Carbon Steel, ¼" x 1½"
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Shield: ASTM A-653 G-90 Galv. Steel (see Pro-Shield for Gauge)
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123 (B) Unfinished

FIG. NC80**Pre-Insulated Guided Strut Clamp**

For Use on Strut, Laterally Guided



Ordering: Fig. NC80 - (Pipe Size) x (Insulation Thickness)-(Finish) e.g. NC80-3x1-H

PIPE SIZE	VERTICAL LOAD	LATERAL LOAD	INS. THK. = 1"		INS. THK. = 1 1/2"		INS. THK. = 2"		INS. THK. = 2 1/2"		INS. THK. = 3"		INS. THK. = 4"	
			A / B	C	A / B	C	A / B	C	A / B	C	A / B	C	A / B	C
2"	130	230	4 / 6	1.125	4 / 6	1.6875	4 / 6	2.1875	4 / 6	2.6875	4 / 6	3.1875	4 / 6	4.25
2 1/2"	150	275	4 / 6	1.125	4 / 6	1.9375	4 / 6	2.4375	4 / 6	2.9375	4 / 6	3.4375	4 / 6	4.5
3"	170	325	4 / 6	1.125	4 / 6	1.625	4 / 6	2.125	4 / 6	2.625	4 / 6	3.125	4 / 6	4.1875
4"	170	380	4 / 6	1.125	4 / 6	1.625	4 / 6	2.125	4 / 6	2.625	4 / 6	3.1875	4 / 6	4.1875
5"	260	400	4 / 6	1.125	4 / 6	1.625	4 / 6	2.125	4 / 6	2.6875	4 / 6	3.1875	4 / 6	4.3125
6"	330	400	6 / 9	1.0625	6 / 9	1.5625	6 / 9	2.125	6 / 9	2.625	6 / 9	3.125	6 / 9	4.25
8"	510	400	6 / 9	1.125	6 / 9	1.625	6 / 9	2.125	6 / 9	2.75	6 / 9	3.25	6 / 9	4.25
10"	830	400	6 / 9	1.0625	6 / 9	1.6875	6 / 9	2.1875	6 / 9	2.6875	6 / 9	3.1875	6 / 9	4.1875
12"	1200	400	6 / 9	1.1875	6 / 9	1.6875	6 / 9	2.1875	6 / 9	2.6875	6 / 9	3.1875	6 / 9	4.1875

Applications:

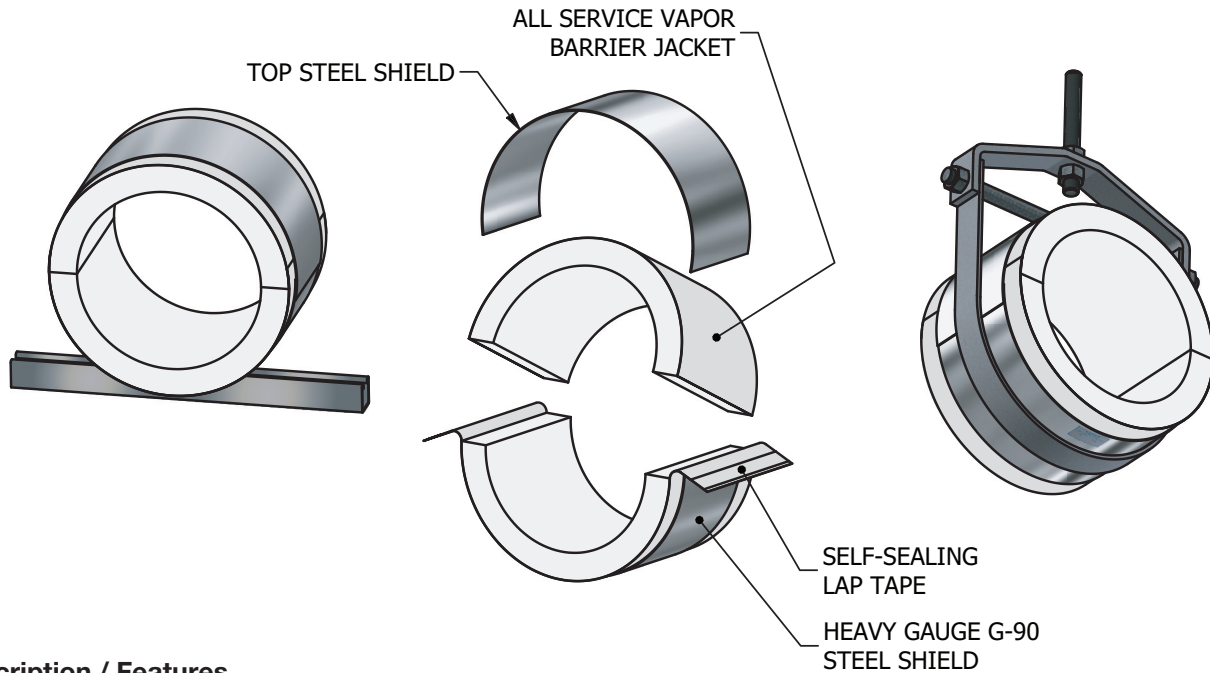
- Provides light duty vertical support and lateral support for buckling and movement control
- Designed for use on:
Chilled Water Hot Water Steam
- Installation: clamped to 1 5/8" wide strut
- Temperature Range: +20°F to +1200°F
- Lateral Travel: $\pm 1/16$ "
- Vertical Travel: $\pm 1/16$ " up

Features:

- Eliminates welding to pipe
- Provides continuous, zero permeability vapor barrier
- Insulation extends beyond shield 1"-1 1/2" each side
- Structural insulation for load transfer
- ASTM E-84 Flame Spread/Smoke Developed: 10/20
- Thermal Conductivity
0.39 Btu•in/(hr•ft²•°F) @ 200°F
- Insulation chemically bonded

Material Data:

- Insulation: Calcium Silicate meeting ASTM C-585 and C-533 Type I
Pro-Shield: 100 psi, 14 pcf standard with 450 psi, 20 pcf insert for 12" pipe
other insulation materials, Page 34
- Clamp: ASTM A-36 Carbon Steel, 1/4" x 1 1/2"
- Fasteners: ASTM A-307 Electro-Galv. Plated
- Shield: ASTM A-653 G-90 Galv. Steel
(see Pro-Shield for Gauge)
- Vapor Barrier: ASTM E-96 All Service Jacket
- Finishes: (H) Hot-Dip Galv. per ASTM A-123
(B) Unfinished

**Pro-Shield****Description / Features**

Pro-Shields are 360° thermal hanger shields designed to meet the broadest range of pipe support applications. They provide a continuous section of insulation and vapor barrier through a wide variety of pipe hangers for piping systems operating between +20°F and +1200°F. The insulation and zero permeability vapor barrier extend beyond the galvanized steel shield for a neat, vapor-tight joint with the adjoining insulation. Pro-Shields are suitable for use in any type of clamp as well as in band-type hangers and on flat surfaces. Pro-Shields meet the MSS standard for Type 40 shields per MSS SP-58.

Applications

- For use on clamping support systems, trapeze, stands, clevis or other band-type hangers.
- Pipe sizes 16" and larger in clevis or two bolt hangers only.
- Chilled to steam piping and dual temperature lines.
- Hanger spans per MSS SP-58 Table A3.
- Available for pipe 1/2" through 24", insulation thickness 1/2" through 4".

Materials / Construction

- 100 psi compressive strength calcium silicate meeting ASTM C-533 Type I, C-585, C-795, E-84 Flame Spread/Smoke Developed: 0/0, Thermal Conductivity = 0.39 Btu•in/(hr•ft²•°F) @ 200°F.
- 450 psi compressive strength calcium silicate meeting ASTM C-656, Type II, Grade 5.
- Adhesive complying with NFPA 90-A, ASTM E-84 Flame Spread/Smoke Developed: 5/0.
- G-90 Galvanized steel shield, small check per ASTM A-653 (replaces A-527).
- Zero permeability vapor barrier of all service jacket meeting ASTM D-774, D-828 and E-84 Flame Spread/Smoke Developed: 10/20.
- All units and components are asbestos free and 100% made and assembled in the U.S.A.

DIMENSIONS

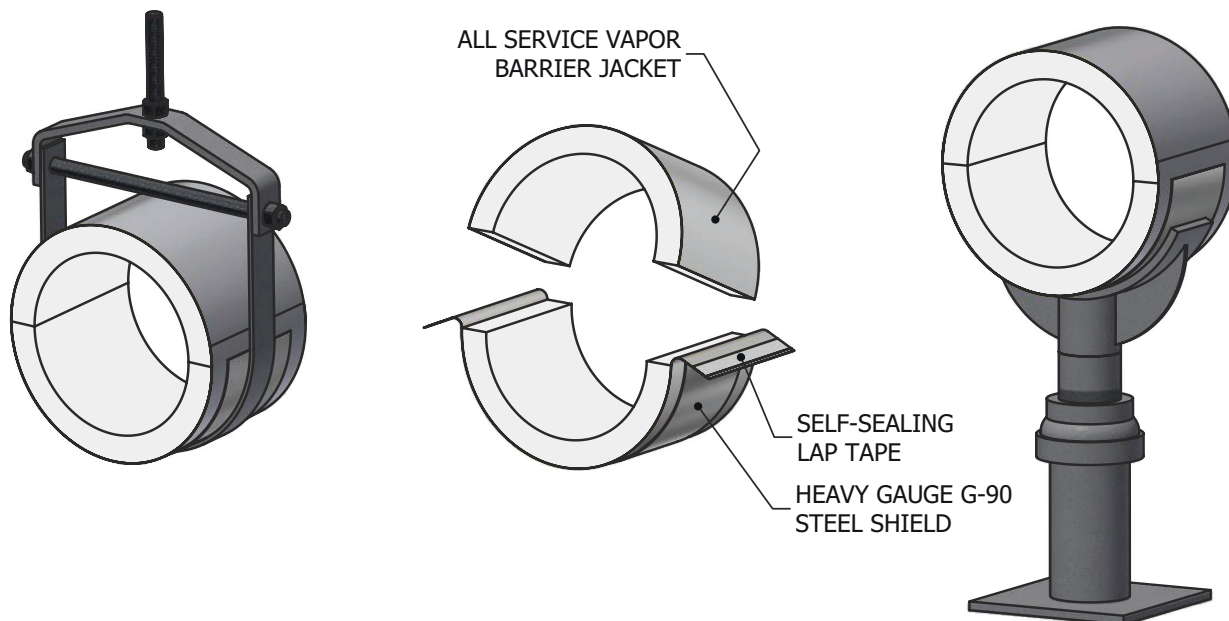
PIPE SIZE	1/2" TO 5"	6" TO 8"	10" TO 12"	14" TO 18"	20" TO 24"
INSULATION LENGTH - in.	6	9	9	12	9
SHIELD LENGTH - in.	4	6	6	10	6
SHIELD GAUGE	22	18	18	12	18
COMPRESSIVE STRENGTH - psi	100	100	100 / 450	100 / 450	450

ALLOWABLE LOADS / RECOMMENDED SPANS

PIPE SIZE	1/2"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
CLEVIS	80 lbf 7 ft.	130 lbf 7 ft.	185 lbf 9 ft.	230 lbf 10 ft.	275 lbf 10 ft.	340 lbf 10 ft.	380 lbf 10 ft.	605 lbf 10 ft.	800 lbf 10 ft.	1160 lbf 10 ft.	1400 lbf 10 ft.	1800 lbf 10 ft.	2600 lbf 10 ft.	3300 lbf 10 ft.	8000 lbf 10 ft.	9500 lbf 10 ft.
TRAPEZE	40 lbf 7 ft.	60 lbf 7 ft.	85 lbf 9 ft.	130 lbf 10 ft.	145 lbf 10 ft.	160 lbf 10 ft.	170 lbf 10 ft.	330 lbf 10 ft.	510 lbf 10 ft.	830 lbf 10 ft.	1175 lbf 10 ft.	1250 lbf 10 ft.	See MaxSpan R.H.	See MaxSpan R.H.	See MaxSpan R.H.	See MaxSpan R.H.



Pro-Shield N.T.



Description / Features

Pro-Shield N.T. units provide a continuous section of insulation and vapor barrier through a wide variety of pipe hangers for piping systems operating between +20°F and +1200°F. The Pro-Shield N.T. is designed for use in band-type hangers and on flat surfaces. The insulation and zero permeability vapor barrier extend beyond the galvanized steel shield for a neat, vapor-tight joint with the adjoining insulation. Pro-Shield N.T. meets the MSS standard for Type 40 shields per MSS SP-58.

Applications

- For use on trapeze, stands, clevis or other band-type hangers.
- Pipe sizes 16" and larger in clevis hangers only.
- Chilled to steam piping and dual temperature lines.
- Hanger spans per MSS SP-58 Table A3.
- Available for pipe 1/2" through 24", insulation thickness 1/2" through 4".

Materials / Construction

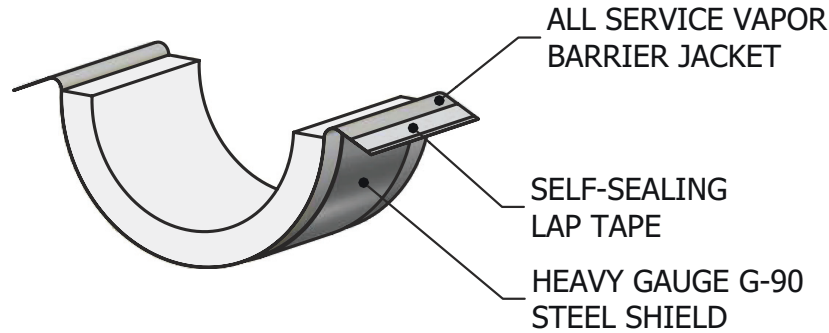
- 100 psi compressive strength calcium silicate meeting ASTM C-533 Type I, C-585, C-795, E-84 Flame Spread/Smoke Developed: 0/00, Thermal Conductivity = 0.39 Btu•in/(hr•ft²•°F) @ 200°F.
- 450 psi compressive strength calcium silicate meeting ASTM C-656, Type II, Grade 5.
- Adhesive complying with NFPA 90-A, ASTM E-84 Flame Spread/Smoke Developed: 5/0.
- G-90 Galvanized steel shield, small check per ASTM A-653 (replaces A-527).
- Zero permeability vapor barrier of all service jacket meeting ASTM D-774, D-828 and E-84 Flame Spread/Smoke Developed: 10/20.
- All units and components are asbestos free and 100% made and assembled in the U.S.A.

DIMENSIONS

PIPE SIZE	1/2" TO 5"	6" TO 8"	10" TO 12"	14" TO 18"	20" TO 24"
INSULATION LENGTH - in.	6	9	9	12	9
SHIELD LENGTH - in.	4	6	6	10	6
SHIELD GAUGE	22	18	18	12	18
COMPRESSIVE STRENGTH - psi	100	100	100 / 450	100 / 450	450

ALLOWABLE LOADS / RECOMMENDED SPANS

PIPE SIZE	1/2"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
CLEVIS	80 lbf 7 ft.	130 lbf 7 ft.	185 lbf 9 ft.	230 lbf 10 ft.	275 lbf 10 ft.	340 lbf 10 ft.	380 lbf 10 ft.	605 lbf 10 ft.	800 lbf 10 ft.	1160 lbf 10 ft.	1400 lbf 10 ft.	1800 lbf 10 ft.	2600 lbf 10 ft.	3300 lbf 10 ft.	8000 lbf 10 ft.	9500 lbf 10 ft.
TRAPEZE	40 lbf 7 ft.	60 lbf 7 ft.	85 lbf 9 ft.	130 lbf 10 ft.	145 lbf 10 ft.	160 lbf 10 ft.	170 lbf 10 ft.	330 lbf 10 ft.	510 lbf 10 ft.	830 lbf 10 ft.	1175 lbf 10 ft.	1250 lbf 10 ft.	See MaxSpan R.H.	See MaxSpan R.H.	See MaxSpan R.H.	See MaxSpan R.H.

**Quik-Shield****Description / Features**

Quik-Shields are economically priced 180° thermal hanger shields providing a continuous section of insulation and zero permeability vapor barrier through a variety of pipe hangers. The vapor barrier jacket extends beyond the galvanized steel shield and beyond the insulation insert for a neat, vapor-tight fit with both the adjoining and the field-applied top insulation.

Applications

- For use on trapeze, stands, clevis or other band-type hangers.
- Pipe sizes 16" and larger in clevis hangers only.
- Chilled to steam piping and dual temperature lines.
- Available for pipe 1/2" through 24", insulation thickness 1/2" through 4".

Materials / Construction

- 100 psi compressive strength calcium silicate meeting ASTM C-533 Type I, C-585, C-795, E-84 Flame Spread/Smoke Developed: 0/0, Thermal Conductivity = 0.39 Btu•in/(hr•ft²•°F) @ 200°F.
- 450 psi compressive strength calcium silicate meeting ASTM C-656, Type II, Grade 5
- Adhesive complying with NFPA 90-A, ASTM E-84 Flame Spread/Smoke Developed: 5/0.
- G-90 Galvanized steel shield, small check per ASTM A-653 (replaces A-527).
- Zero permeability vapor barrier of all service jacket meeting ASTM D-774, D-828 and E-84 Flame Spread/Smoke Developed: 10/20.
- All units and components are asbestos free and 100% made and assembled in the U.S.A.

DIMENSIONS

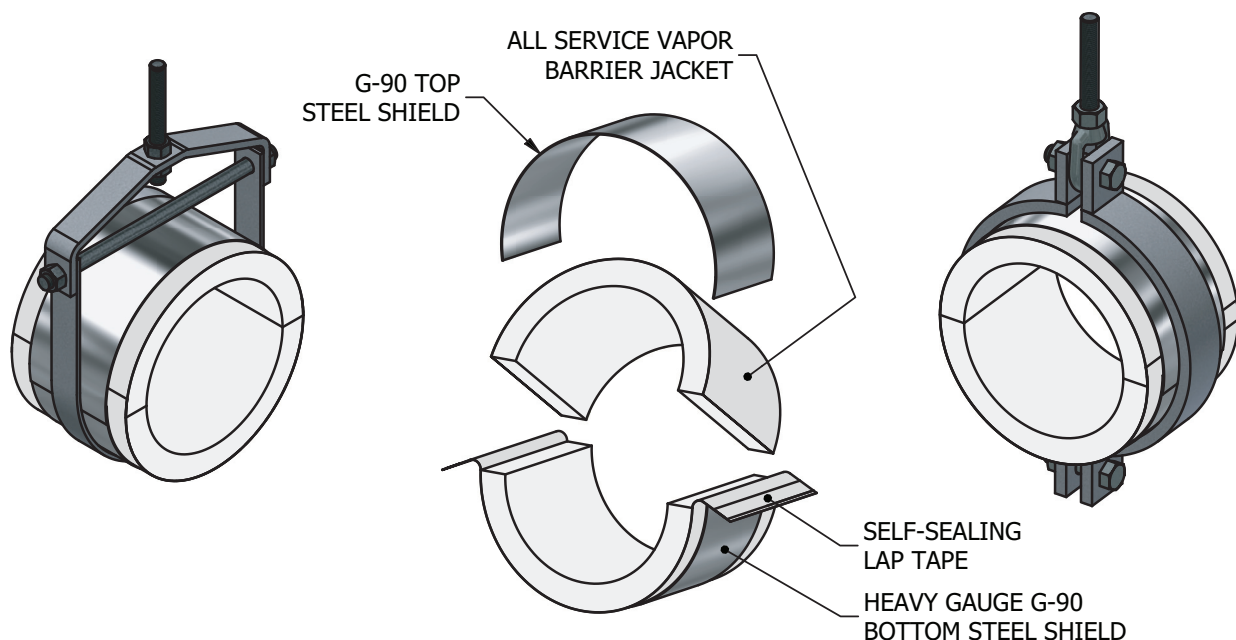
PIPE SIZE	1/2" TO 5"	6" TO 8"	10" TO 12"	14" TO 24"
INSULATION LENGTH - in.	6	9	9	12
SHIELD LENGTH - in.	4	6	6	10
SHIELD GAUGE	22	18	18	12
COMPRESSIVE STRENGTH - psi	100	100	100 / 450	100 / 450

ALLOWABLE LOADS / RECOMMENDED SPANS

PIPE SIZE	1/2"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
CLEVIS	80 lbf 7 ft.	130 lbf 7 ft.	185 lbf 9 ft.	230 lbf 10 ft.	275 lbf 10 ft.	340 lbf 10 ft.	380 lbf 10 ft.	605 lbf 10 ft.	800 lbf 10 ft.	1160 lbf 10 ft.	1400 lbf 10 ft.	1800 lbf 10 ft.	2600 lbf 10 ft.	3300 lbf 10 ft.	8000 lbf 10 ft.	9500 lbf 10 ft.
TRAPEZE	40 lbf 7 ft.	60 lbf 7 ft.	85 lbf 9 ft.	130 lbf 10 ft.	145 lbf 10 ft.	160 lbf 10 ft.	170 lbf 10 ft.	330 lbf 10 ft.	510 lbf 10 ft.	830 lbf 10 ft.	1175 lbf 10 ft.	1250 lbf 10 ft.	See MaxSpan R.H.	See MaxSpan R.H.	See MaxSpan R.H.	See MaxSpan R.H.



Chill-Shield



Description / Features

Chill-Shields are 360° thermal hanger shields designed to meet a broad range of pipe support applications on low temperature lines. They provide a continuous section of insulation and zero permeability vapor barrier, and are designed for piping systems operating between -250°F and +225°F. The insulation and vapor barrier extend beyond the galvanized steel shield for a neat, vapor-tight joint with the adjoining insulation. Chill-Shields are suitable for use in any type of clamp as well as in band-type hangers. High compressive strength polyisocyanurate inserts and heavy gauge steel shields ensure proper pipe support. These cost effective designs meet the requirements of either pipe or tube systems.

Applications

- For use on clamping support systems, stands, clevis or other band-type hangers.
- Chilled piping to domestic hot water.
- Hanger spans per MSS SP-58 Table A3 (not suitable for extended hanger spans).
- Available for pipe and tube ½" through 8", insulation thickness ½" through 4".

Materials / Construction

- Polyisocyanurate meeting ASTM C-591 with compressive strength determined in accordance with ASTM D-1621
- 24 psi compressive strength, 2 pcf density, Grade 2, Type IV
- 45 psi compressive strength, 3 pcf density, Grade 2, Type III
- 80 psi compressive strength, 4 pcf density, Grade 2, Type V
- ASTM E-84 Flame Spread/Smoke Developed: 25/450, Thermal Conductivity = 0.19 to 0.20 Btu•in/(hr•ft²•°F) @ 75°F.
- 360° Non-reactive zero permeability vapor barrier jacket meeting ASTM D-774, D-828 and E-84 Flame Spread/Smoke Developed: 10/20.
- Adhesive complying with NFPA 90-A and ASTM E-84 Flame Spread/Smoke Developed: 5/0.
- G-90 Galvanized steel shield, small check per ASTM A-653 (replaces A-527).
- All units and components are asbestos free and 100% made and assembled in the U.S.A.

DIMENSIONS

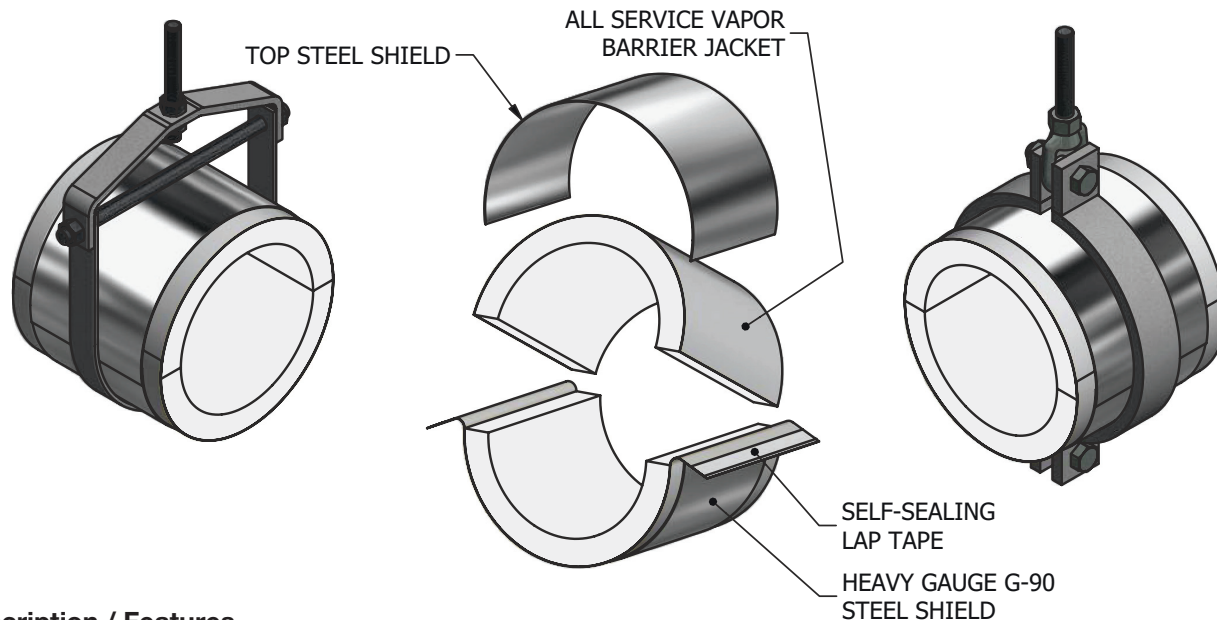
PIPE SIZE	½" TO 2"	2½" TO 5"	6" TO 8"
INSULATION LENGTH - in.	6	6	9
SHIELD LENGTH - in.	4	4	6
SHIELD GAUGE	22	22	18
COMPRESSIVE STRENGTH - psi	24	45	80

ALLOWABLE LOADS / RECOMMENDED SPANS

PIPE SIZE	½"	1"	1½"	2"	3"	4"	6"	8"
CLEVIS	20 lbf 7 ft.	35 lbf 7 ft.	50 lbf 9 ft.	60 lbf 10 ft.	140 lbf 10 ft.	180 lbf 10 ft.	550 lbf 10 ft.	720 lbf 10 ft.



Maxspan



Description / Features

Maxspan thermal hanger shield is specifically designed to provide a superior safety margin when supporting pipe with hanger spans up to the maximum allowed in Table 4 of MSS SP-58 in clevis or clamp hangers. These 360° thermal hanger shields provide a continuous section of insulation and zero permeability vapor barrier through the hanger and can be used on piping systems operating between +20°F and +1200°F. The insulation and vapor barrier extend beyond the galvanized steel shield for a neat, vapor-tight joint with the adjoining insulation. The Maxspan meets or exceeds the MSS standard for Type 40 shields per MSS SP 58.

Applications

- For use on clamping support systems, stands, clevis or other band-type hangers.
- Chilled to steam piping and dual temperature lines.
- Hanger spans per MSS SP-58 Table 4.
- Available for pipe 1/2" through 24", insulation thickness 1/2" through 4".

Materials / Construction

- 100 psi compressive strength calcium silicate meeting ASTM C-533 Type I, C-585, C-795, E-84 Flame Spread/Smoke Developed: 0/0, Thermal Conductivity = 0.39 Btu•in/(hr•ft²•°F) @ 200°F.
- 450 psi compressive strength calcium silicate meeting ASTM C-656, Type II, Grade 5.
- 900 psi compressive strength calcium silicate meeting ASTM C-656, Type II, Grade 6.
- Adhesive complying to NFPA 90-A and ASTM E-84 Flame Spread/Smoke Developed: 5/0.
- G-90 Galvanized steel shield, small check per ASTM A-653 (replaces A-527).
- Zero permeability vapor barrier of all service jacket meeting ASTM D-774, D-828 and E-84, Flame Spread/Smoke Developed: 10/20.
- All units and components are asbestos free and 100% made and assembled in the U.S.A.

DIMENSIONS

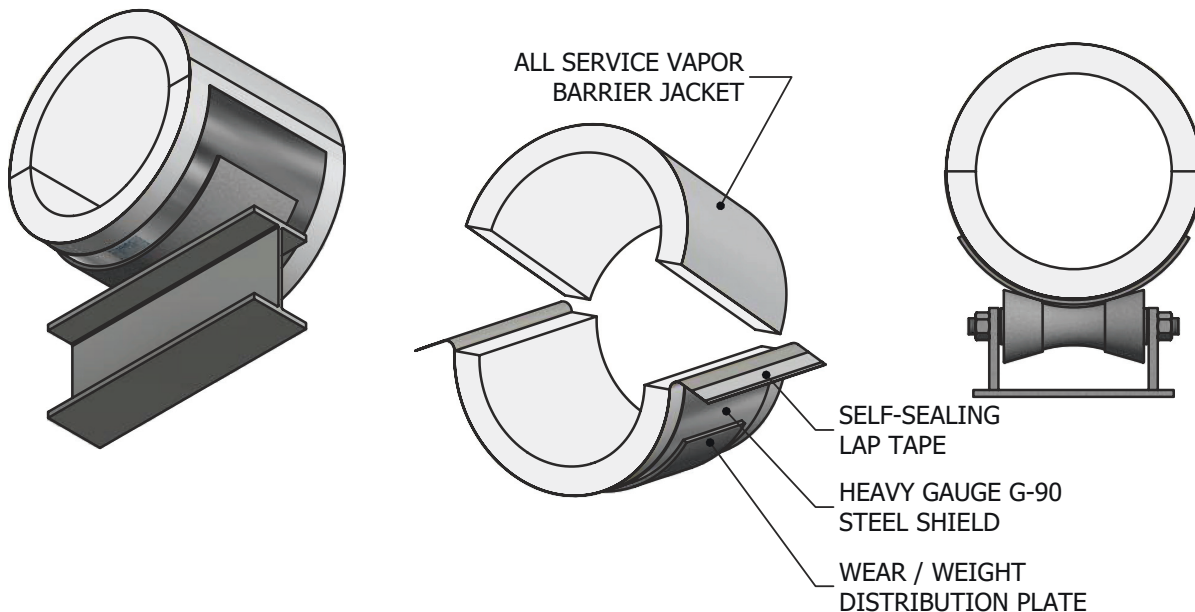
PIPE SIZE	1/2" TO 2"	2 1/2" TO 3"	4" TO 8"	10" TO 18"	20" TO 24"
INSULATION LENGTH - in.	6	9	9	9	9
SHIELD LENGTH - in.	4	6	6	6	6
SHIELD GAUGE	22	18	14	14	14
COMPRESSIVE STRENGTH, PSI	100	100	100	100/450	900

ALLOWABLE LOADS / RECOMMENDED SPANS

PIPE SIZE	1/2"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
CLEVIS	80 lbf 7 ft.	130 lbf 7 ft.	185 lbf 9 ft.	275 lbf 10 ft.	325 lbf 11 ft.	375 lbf 12 ft.	405 lbf 14 ft.	1015 lbf 17 ft.	1555 lbf 19 ft.	2450 lbf 22 ft.	3480 lbf 23 ft.	4770 lbf 25 ft.	8050 lbf 27 ft.	9025 lbf 28 ft.	9550 lbf 30 ft.	15500 lbf 32 ft.
TWO BOLT CLAMP	40 lbf 7 ft.	60 lbf 7 ft.	85 lbf 9 ft.	300 lbf 10 ft.	350 lbf 11 ft.	375 lbf 12 ft.	405 lbf 14 ft.	1070 lbf 17 ft.	1625 lbf 19 ft.	2575 lbf 22 ft.	3550 lbf 23 ft.	4820 lbf 25 ft.	8250 lbf 27 ft.	9505 lbf 28 ft.	10550 lbf 30 ft.	17350 lbf 32 ft.



Maxspan R.H.



Description / Features

The Maxspan R.H. thermal hanger shield is specifically designed to provide a superior safety margin for pipe mounted on pipe rollers, flat surfaces or with supports where point loading may be a concern. These rugged units allow hanger spans up to the maximum allowed in Table 4 of MSS SP-58. They are appropriate for either hot or cold piping systems. The insulation and zero permeability vapor barrier extend beyond the galvanized steel shield for a neat, vapor-tight joint with the adjoining insulation. Units for pipe 4" and larger include a wear/weight distribution plate of carbon steel. The Maxspan R.H. meets or exceeds the MSS standard for Type 40 shields per MSS SP 58.

Applications

- For use on all roller hanger systems, stands and trapeze.
- Chilled to steam piping and dual temperature lines.
- Hanger spans per MSS SP-58 Table 4.
- Available for pipes 1/2" through 24", insulation thickness 1/2" through 4".

Materials / Construction

- 100 psi compressive strength calcium silicate meeting ASTM C-533 Type I, C-585, C-795, E-84 Flame Spread/Smoke Developed: 0/0, Thermal Conductivity = 0.39 Btu•in/(hr•ft²•°F) @ 200°F.
- 450 psi compressive strength calcium silicate meeting ASTM C-656, Type II, Grade 5.
- 900 psi compressive strength calcium silicate meeting ASTM C-656, Type II, Grade 6.
- Adhesive complying with NFPA 90-A and ASTM E-84, Flame Spread/Smoke Developed: 5/0, Thermal Conductivity = 0.39 Btu•in/(hr•ft²•°F) @ 200°F.
- G-90 Galvanized steel shield, small check per ASTM A-653 (replaces A-527).
- Wear/weight distribution plate - carbon steel meeting ASTM A-36.
- Zero permeability vapor barrier of all service jacket meeting ASTM D-774, D-828 and E-84, Flame Spread/Smoke Developed: 10/20.
- All units and components are asbestos free and 100% made and assembled in the U.S.A.

DIMENSIONS

PIPE SIZE	1/2" TO 1 1/2"	2" TO 3"	4" TO 8"	10" TO 12"	14" TO 24"
INSULATION LENGTH - in.	9	9	9	12	12
SHIELD LENGTH - in.	6	6	6	8	10
SHIELD GAUGE	18	16	18	18	18
COMPRESSIVE STRENGTH, PSI	100	100	100	100/450/900	100/450/900
PLATE THK. x LENGTH - in. x in.	N/A	N/A	1/8 x 6	1/4 x 8	1/4 x 10

ALLOWABLE LOADS / RECOMMENDED SPANS

PIPE SIZE	1/2"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
ROLLER	80 lbf 7 ft.	130 lbf 7 ft.	185 lbf 9 ft.	275 lbf 10 ft.	325 lbf 11 ft.	375 lbf 12 ft.	405 lbf 14 ft.	1015 lbf 17 ft.	1555 lbf 19 ft.	2450 lbf 22 ft.	3480 lbf 23 ft.	4770 lbf 25 ft.	8050 lbf 27 ft.	9025 lbf 28 ft.	9550 lbf 30 ft.	15500 lbf 32 ft.
TRAPEZE	40 lbf 7 ft.	60 lbf 7 ft.	85 lbf 9 ft.	300 lbf 10 ft.	350 lbf 11 ft.	375 lbf 12 ft.	405 lbf 14 ft.	1070 lbf 17 ft.	1625 lbf 19 ft.	2575 lbf 22 ft.	3550 lbf 23 ft.	4820 lbf 25 ft.	8250 lbf 27 ft.	9505 lbf 28 ft.	10550 lbf 30 ft.	17350 lbf 32 ft.

Pipe Chart

½" PIPE SIZE - 0.840" O.D.				
SCHEDULE NO.	40	80	160	
WALL DESIGNATION	STD.	XS		XXS
THICKNESS - in.	0.109	0.147	0.188	0.294
PIPE - lbf./ft.	0.851	1.088	1.309	1.714
WATER - lbf./ft.	0.132	0.101	0.068	0.022

1" PIPE SIZE - 1.315" O.D.			
40	80	160	
STD.	XS		XXS
0.133	0.179	0.250	0.358
1.68	2.17	2.84	3.66
0.37	0.31	0.23	0.12

1½" PIPE SIZE - 1.900" O.D.				
SCHEDULE NO.	40	80	160	
WALL DESIGNATION	STD.	XS		XXS
THICKNESS - in.	0.145	0.200	0.281	0.400
PIPE - lbf./ft.	2.72	3.63	4.86	6.41
WATER - lbf./ft.	0.88	0.77	0.61	0.41

2" PIPE SIZE - 2.375" O.D.			
40	80	160	
STD.	XS		XXS
0.154	0.218	0.343	0.436
3.65	5.02	7.44	9.03
1.46	1.28	0.97	0.77

2½" PIPE SIZE - 2.875" O.D.				
SCHEDULE NO.	40	80	160	
WALL DESIGNATION	STD.	XS		XXS
THICKNESS - in.	0.203	0.276	0.375	0.552
PIPE - lbf./ft.	5.79	7.66	10.01	13.70
WATER - lbf./ft.	2.08	1.84	1.54	1.07

3" PIPE SIZE - 3.5" O.D.			
40	80	160	
STD.	XS		XXS
0.216	0.300	0.438	0.600
7.58	10.25	14.32	18.58
3.20	2.86	2.35	1.80

4" PIPE SIZE - 4.5" O.D.				
SCHEDULE NO.	40	80	160	
WALL DESIGNATION	STD.	XS		XXS
THICKNESS - in.	0.237	0.337	0.531	0.674
PIPE - lbf./ft.	10.79	14.98	22.51	27.54
WATER - lbf./ft.	5.51	4.98	4.02	3.38

5" PIPE SIZE - 5.5625" O.D.			
40	80	160	
STD.	XS		XXS
0.258	0.375	0.625	0.750
14.62	20.78	32.96	38.55
8.66	7.89	6.33	5.62

6" PIPE SIZE - 6.625" O.D.				
SCHEDULE NO.	40	80	160	
WALL DESIGNATION	STD.	XS		XXS
THICKNESS - in.	0.280	0.432	0.718	0.864
PIPE - lbf./ft.	18.97	28.57	45.3	53.2
WATER - lbf./ft.	12.51	11.29	9.2	8.2

8" PIPE SIZE - 8.625" O.D.				
20	40	80		160
	STD.	XS	XXS	
0.250	0.322	0.500	0.875	0.906
22.36	28.55	43.4	72.4	74.7
22.48	21.69	19.8	16.1	15.8

10" PIPE SIZE - 10.75" O.D.					
SCHEDULE NO.	20	40	60	80	160
WALL DESIGNATION		STD.	XS		
THICKNESS - in.	0.250	0.365	0.500	0.593	1.125
PIPE - lbf./ft.	28.04	40.5	54.7	64.3	115.7
WATER - lbf./ft.	35.77	34.1	32.3	31.1	24.6

12" PIPE SIZE - 12.75" O.D.					
20		40		80	160
	STD.		XS		
0.250	0.375	0.406	0.500	0.687	1.312
33.38	49.6	53.5	65.4	88.5	160.3
51.10	49.0	48.5	47.0	44.0	34.9

14" PIPE SIZE - 14" O.D.						
SCHEDULE NO.	10	30	40		80	160
WALL DESIGNATION		STD.		XS		
THICKNESS - in.	0.250	0.375	0.438	0.500	0.750	1.406
PIPE - lbf./ft.	36.71	54.6	63.4	72.1	106.1	189.1
WATER - lbf./ft.	62.06	59.7	58.7	57.5	53.2	42.6

16" PIPE SIZE - 16" O.D.				
10	30	40	80	160
	STD.	XS		
0.250	0.375	0.500	0.843	1.593
42.1	62.6	82.8	136.5	245.1
81.8	79.1	76.5	69.7	55.9

Pipe Chart

18" PIPE SIZE - 18" O.D.						
SCHEDULE NO.	10			40	80	160
WALL DESIGNATION		STD.	XS			
THICKNESS - in.	0.250	0.375	0.500	0.562	0.937	1.781
PIPE - lbf./ft.	47.4	70.6	93.5	104.8	170.8	308.5
WATER - lbf./ft.	104.3	101.2	98.4	97.0	88.5	71.0

20" PIPE SIZE - 20" O.D.					
10	20	30	40	80	160
	STD.	XS			
0.250	0.375	0.500	0.593	1.031	1.968
52.7	78.6	104.1	122.9	208.9	379.0
129.5	126.0	122.8	120.4	109.4	87.9

24" PIPE SIZE - 24" O.D.						
SCHEDULE NO.	10	20		40	80	160
WALL DESIGNATION		STD.	XS			
THICKNESS - in.	0.250	0.375	0.500	0.687	1.218	2.343
PIPE - lbf./ft.	63.4	94.6	125.5	171.2	296.4	541.9
WATER - lbf./ft.	188.0	183.8	180.1	174.3	158.3	127.0

30" PIPE SIZE - 30" O.D.		
10		20
	STD.	XS
0.312	0.375	0.500
98.9	118.7	157.6
293.5	291.0	286.0

36" PIPE SIZE - 36" O.D.				
SCHEDULE NO.	10		20	40
WALL DESIGNATION		STD.	XS	
THICKNESS - in.	0.312	0.375	0.500	0.750
PIPE - lbf./ft.	119.1	142.7	189.6	282.4
WATER - lbf./ft.	425.9	422.6	416.6	405.1

42" PIPE SIZE - 42" O.D.	
	20
STD.	XS
0.375	0.500
166.7	221.6
578.7	571.7

Maximum Horizontal Pipe Hanger and Support Spacing

NOMINAL PIPE SIZE		1/2"	1"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"
WATER SERVICE	SPACING - ft.	7	7	9	10	11	12	14	16	17	19	22	23	25	27	28	30	32	33	35	38
	WEIGHT - lbf.	6	14	32	51	86	129	228	372	535	954	1641	2267	2857	3925	4810	6138	8908	13520	19785	28325
VAPOR SERVICE	SPACING - ft.	8	9	12	13	14	15	17	19	21	24	26	30	32	35	37	39	42	44	46	50
	WEIGHT - lbf.	6	15	32	47	81	113	183	277	398	685	1053	1488	1747	2191	2612	3065	3973	5222	6564	8335

Maximum horizontal pipe hanger and support spacing in accordance with MSS SP-58.

Pipe weights at maximum spacing based on water filled standard weight pipe.

Pipe support spacing may be limited by hanger or support maximum recommended load.

Sheet Metal Thickness

SHEET GAUGE - ga.	26	24	22	20	18	16	14	12	11	10
THICKNESS - in.	0.0217	0.0276	0.0336	0.0396	0.0516	0.0635	0.0785	0.1084	0.1233	0.1382

Sheet metal thickness based on galvanized steel.

Insulation Material Mechanical Properties

MATERIAL	ASTM STANDARD	DENSITY lb/ft ³	COMPRESSIVE STRENGTH, psi	FLAME SPREAD / SMOKE DEVELOPED	TEMPERATURE RANGE, °F	THERMAL CONDUCTIVITY, Btu•in/(hr•ft ² •°F)				
						75°F	200°F	400°F	600°F	800°F
Calcium Silicate	C-533 TYPE I	14	100	0 / 0	+20 to + 1200		0.41	0.49	0.60	
Calcium Silicate	C-656 TYPE II GRADE 5	20	450	0 / 0	+20 to + 1200		0.54	0.61	0.67	0.73
Calcium Silicate	C-656 TYPE II GRADE 6	28	900	0 / 0	+20 to + 1200		0.61	0.66	0.73	0.80
Polyisocyanurate	C-591 TYPE IV GRADE 2	2	24	≤ 25 / ≤ 450	-297 to + 300	0.19				
Polyisocyanurate	C-591 TYPE V GRADE 2	4	80	≤ 25 / ≤ 450	-297 to + 300	0.19				
Polyisocyanurate	C-591 TYPE VI GRADE 2	6	130	≤ 25 / ≤ 450	-297 to + 300	0.20				
Polyurethane		10	375	> 25 / > 450	-300 to + 300	0.21				
Polyurethane		20	1000	> 25 / > 450	-300 to + 300	0.41				

Insulation Outside Diameter

NOMINAL PIPE SIZE	NOMINAL INSULATION THICKNESS					
	INS. THK. = 1"	INS. THK. = 1½"	INS. THK. = 2"	INS. THK. = 2½"	INS. THK. = 3"	INS. THK. = 4"
½"	2.88	4	5	6.62	7.62	9.62
1"	3.5	4.5	5.56	6.62	7.62	9.62
1½"	4	5	6.62	7.62	8.62	10.75
2"	4.5	5.5625	6.625	7.625	8.625	10.75
2½"	5	6.625	7.625	8.625	9.625	11.75
3"	5.5625	6.625	7.625	8.625	9.625	11.75
4"	6.625	7.625	8.625	9.625	10.75	12.75
5"	7.625	8.625	9.625	10.75	11.75	14
6"	8.625	9.625	10.75	11.75	12.75	15
8"	10.75	11.75	12.75	14	15	17
10"	12.75	14	15	16	17	19
12"	15	16	17	18	19	21
14"	16	17	18	19	20	22
16"	18	19	20	21	22	24
18"	20	21	22	23	24	26
20"	22	23	24	25	26	28
24"	26	27	28	29	30	32
30"	32	33	34	35	36	38
36"	38	39	40	41	42	44
42"	44	45	46	47	48	50

Insulation outside diameter in accordance with ASTM C-585. Insulation outside diameter does not include shield and jacket.

Insulation Weight Factors

NOMINAL PIPE SIZE	NOMINAL INSULATION THICKNESS					
	INS. THK. = 1"	INS. THK. = 1½"	INS. THK. = 2"	INS. THK. = 2½"	INS. THK. = 3"	INS. THK. = 4"
2"	0.080	0.14	0.21	0.29	0.37	0.60
2½"	0.091	0.19	0.27	0.36	0.46	0.71
3"	0.10	0.17	0.25	0.34	0.44	0.69
4"	0.13	0.21	0.30	0.39	0.52	0.78
5"	0.15	0.24	0.34	0.46	0.58	0.90
6"	0.17	0.27	0.39	0.51	0.65	0.99
8"	0.22	0.35	0.48	0.66	0.82	1.17
10"	0.26	0.44	0.60	0.77	0.95	1.34
12"	0.34	0.51	0.69	0.88	1.08	1.52
14"	0.33	0.51	0.70	0.90	1.11	1.57
16"	0.37	0.57	0.79	1.01	1.24	1.75
18"	0.41	0.64	0.87	1.12	1.37	1.92
20"	0.46	0.70	0.96	1.23	1.51	2.09
24"	0.55	0.83	1.13	1.45	1.77	2.44
30"	0.68	1.03	1.40	1.77	2.16	2.97
36"	0.81	1.23	1.66	2.10	2.55	3.49
42"	0.94	1.42	1.92	2.43	2.95	4.01

To find the weight of any insulation of any density, multiply the appropriate factor by the density in lbf/ft³ (pcf).

Bottom-of-Pipe (B.O.P.) to Top-of-Steel (T.O.S.)

NOMINAL PIPE SIZE	NOMINAL INSULATION THICKNESS					
	INS. THK. = 1"	INS. THK. = 1½"	INS. THK. = 2"	INS. THK. = 2½"	INS. THK. = 3"	INS. THK. = 4"
2"	4	4	5	5	6	6
2½"	4	4	5	5	6	6
3"	4	4	4	5	6	6
4"	4	4	4	5	6	6
5"	4	4	4	5	6	6
6"	4	4	4	5	6	6
8"	4	4	4	6	6	6
10"	4	4	4	6	6	6
12"	4	4	4	6	6	6
14"	4	4	4	6	6	6
16"	4	4	6	6	6	8
18"	4	4	6	6	6	8
20"	4	4	6	6	6	8
24"	4	4	6	6	6	8
30"	4	6	6	6	6	8
36"	4	6	6	6	6	8
42"	4	6	6	6	6	8

For models NS10, NS20, NS50, NS60, NG30, NG40, NG70, NG80 and NA40.

Terms of Sale

AGREEMENTS: All agreements are subject to strikes, accidents or other causes beyond our control. Prices and terms are not subject to verbal changes or other agreements unless approved in writing by the seller.

TAXES: The buyer is liable for any federal or state taxes imposed on the seller unless the buyer provides the seller with a tax exemption certificate acceptable to the taxing authority.

WARRANTY: We guarantee for one year from date of shipment our manufactured products to the extent that we will replace those having manufacturing defects when used for the purpose which we recommended. If goods are defective, the amount of damage is the price of the defective goods only and no allowance will be made for labor or expense of repairing defective goods or damage resulting from the same. We warrant the products we sell of other manufacturers to the extent of the warranties of their respective maker.

RETURNS: Permission to return standard stocked merchandise must be obtained in writing. Credit may be issued subject to the following:

1. Return freight charges must be prepaid.
2. All material must be in **first-class condition and in box quantities** upon arrival at our plant; if not, repackaging and reconditioning costs will be deducted from the credit.
3. **If** material is in approved condition, credit will be allowed on the basis of the price charged less a minimum restocking charge of 30% and less any out-bound freight allowed or paid by us.
4. Special, non-stocked and custom-made merchandise is **NOT RETURNABLE**.
5. Materials are **NOT RETURNABLE** after 30 days beyond date of invoice.

CLAIMS: No claims for shortages allowed unless made in writing within ten (10) days of receipt of goods. All material sent out will be carefully counted and packed. Claims for goods damaged or lost in transit should be made to the carrier as our responsibility ceases on delivery to the carrier.

TERMS AND DESIGN: National Pipe Hanger Corporation reserves the right to make specification changes without notice. While every effort has been made to assure the accuracy of information contained in this catalog at the time of publication, we cannot accept responsibility for inaccuracies resulting from undetected errors or omissions.

WARNING: National Pipe Hanger's products are designed and manufactured in accordance with industry codes and standards and are intended for service and installation as illustrated or described herein. National shall not be responsible for any losses or damages sustained by the buyer or any other person as a result of misapplication. Products used for unintended purposes could fail, resulting in property loss, injury or death.

National Pipe Hanger Corporation's Terms of Sale supersede Buyer's supplemental or conflicting terms and conditions to which notice of objection is hereby given.



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