

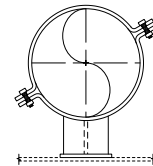
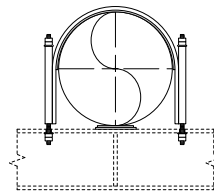
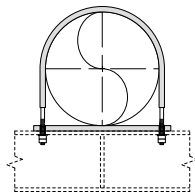
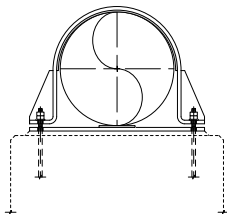
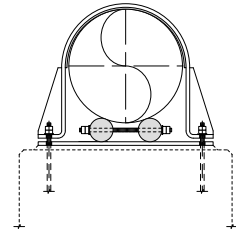
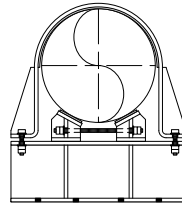
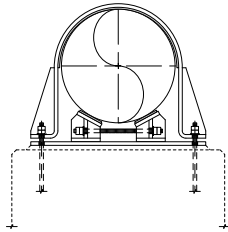
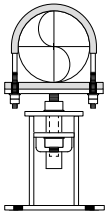
HOUSTON PIPE SUPPORTS

DOCUMENT TITLE:

2021 PRODUCT CATALOG

DOCUMENT NO:

HPS-CAT-0121



0	12/01/2020	INITIAL RELEASE
REV	DATE	DESCRIPTION

CONTACT INFORMATION

Email: sales@houstonpipesupports.com
Phone: 346-302-9689
Website: www.houstonpipesupports.com

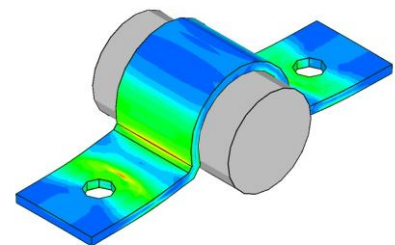
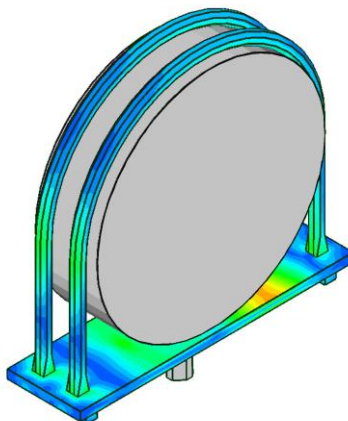
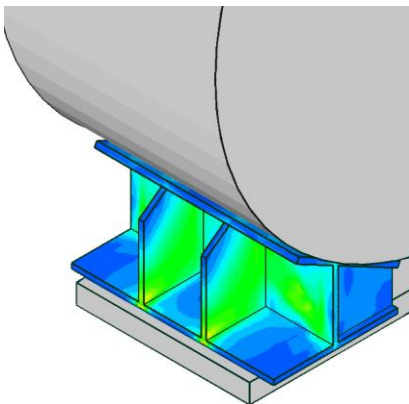
Mailing Address: *Houston Pipe Supports LLC
333 N Sam Houston Pwky E, Suite 400
Houston, TX 77060*

LOAD AND TEMPERATURE LIMITS

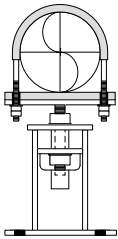
Standard load limits, temperature limits, and recommended torque values are available in the reference document "*HPS Technical Bulletin #0220 - Pipe Support Product Engineering Data*". Application-specific load and temperature limit evaluations for both standard and custom products are available upon request.

COATINGS AND LININGS

All carbon steel and bolting surfaces are supplied hot dipped galvanized. Standard lining materials are either FRP (isophthalic-polyester or vinyl-ester) or 100% virgin PTFE for select configurations. U-bolts are coated with a polyolefin shrink wrap. Half-round rod material is white thermoplastic. Alternate coatings, linings, or materials are available upon request.

SAMPLE PICTURES AND FEA ANALYSIS RENDERINGS

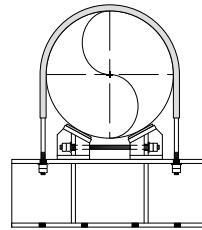
INDEX OF FIGURES



SERIES 1000

- Adjustable Base Pedestals
Heavy Duty (HD) or Std. Duty (SD)
- Cradle, Flat, Valve, or Flange Head

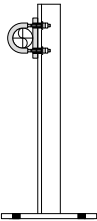
[PAGE 4](#)



SERIES 2200

- Adjustable Shim Blocks
- Hold Down or Guide U-Bolts
- Beam

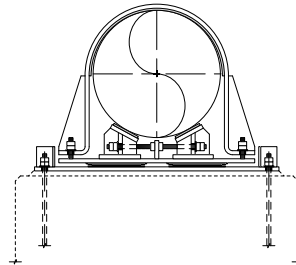
[PAGE 28](#)



SERIES 1500

- Angle Base
- Hold Down U-Bolt
- Half-Round Rod or FRP Pad

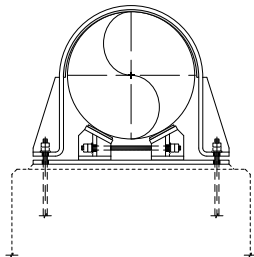
[PAGE 14](#)



SERIES 2300

- Adjustable Shim Blocks
- Hold Down or Guide Clamp
- Sliding Baseplate Assembly
- Type 1 or Type 2 Configuration

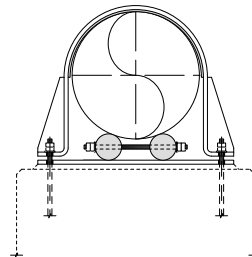
[PAGE 32](#)



SERIES 2000

- Adjustable Shim Blocks
- Hold Down or Guide Clamp
- Baseplate

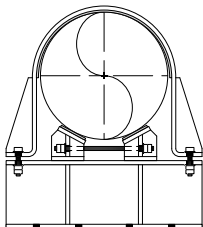
[PAGE 20](#)



SERIES 2500

- Adjustable Plastic Shim Blocks
- Hold Down or Guide Clamp
- Baseplate

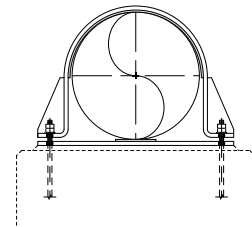
[PAGE 36](#)



SERIES 2100

- Adjustable Shim Blocks
- Hold Down or Guide Clamp
- Beam

[PAGE 24](#)

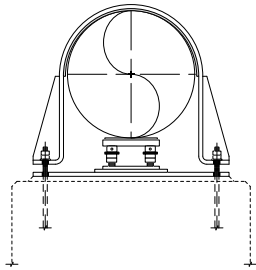


SERIES 3000

- Hold Down or Guide Clamp
- Baseplate w/ FRP Pad

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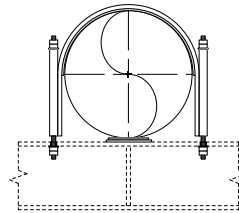
INDEX OF FIGURES (CONTINUED)



SERIES 3500

- Adjustable Spacer
- Hold Down Clamp
- Baseplate

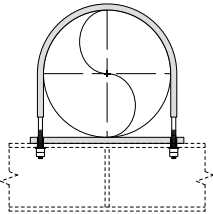
[PAGE 52](#)



SERIES 5000

- Extended Bolt Hold Down Clamp
- Teflon Pad w/ Backing Plate

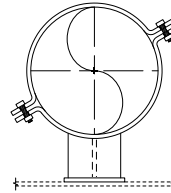
[PAGE 69](#)



SERIES 4000

- Hold Down or Guide U-Bolts
- Half Round Rods

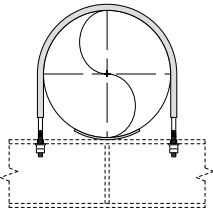
[PAGE 55](#)



SERIES 6000

- Bolted Pipe Shoe

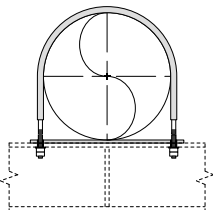
[PAGE 70](#)



SERIES 4100

- Hold Down or Guide U-Bolts
- FRP Saddle on Pipe

[PAGE 60](#)

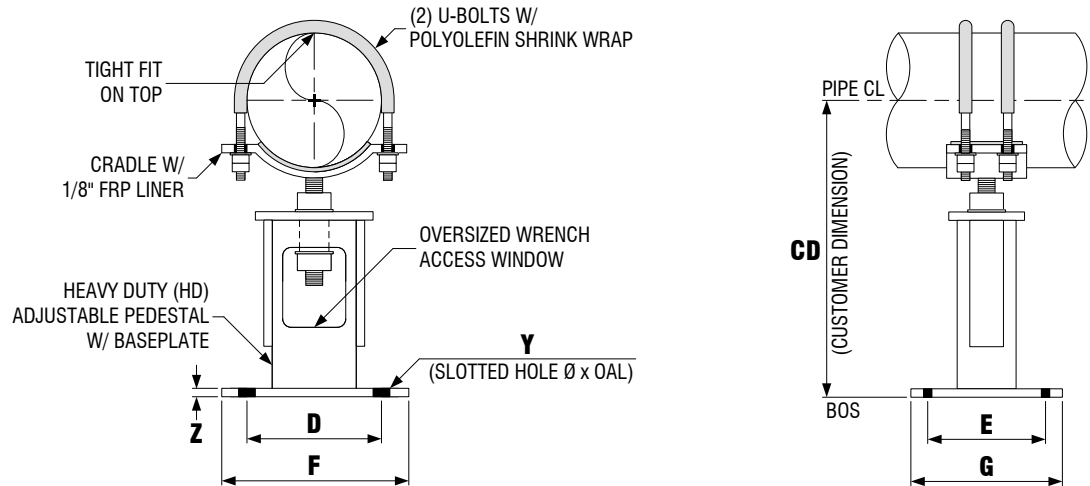


SERIES 4200

- Hold Down or Guide U-Bolts
- FRP Pads

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FIGURE 1001 HD ADJUSTABLE PEDESTAL,
CRADLE, U-BOLTS



NPS	D	E	F	G	Y	Z
2"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	3/4"
3"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	3/4"
4"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	3/4"
6"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	7/8"
8"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	7/8"
10"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	7/8"
12"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
14"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
16"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
18"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
20"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	1"
24"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	1"
30"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	1"
36"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	1"

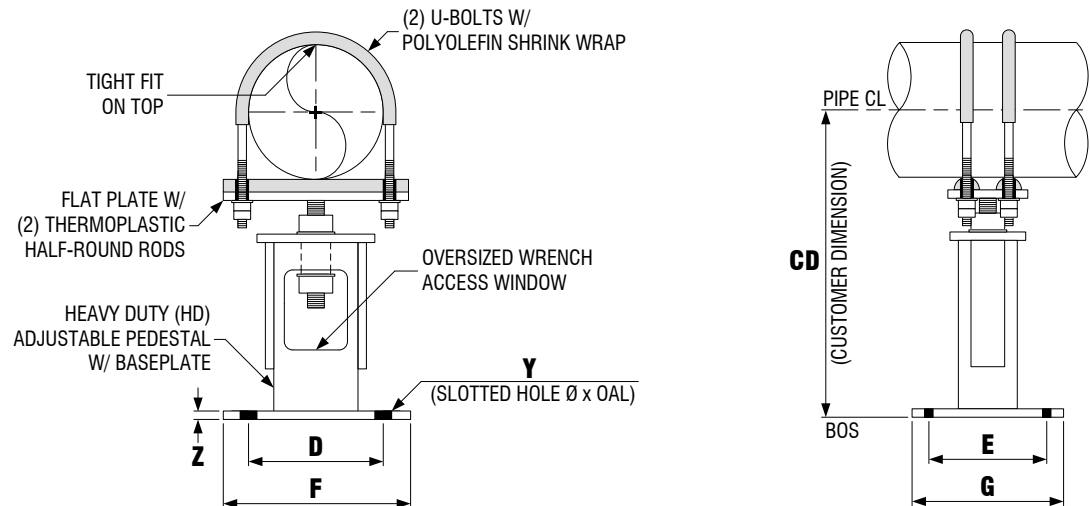
HOW TO ORDER

FIGURE # PIPE NPS CUST. DIM. OPTIONS
HPS-1001 - - -

OPTION CODES

NH - BASEPLATE W/O HOLES
 NP - PEDESTAL W/O BASEPLATE
 CE - EXTRA COMPACT HEIGHT
 GF - HH NUT GREASE FITTINGS

FIGURE 1002 HD ADJUSTABLE PEDESTAL,
HALF-ROUND RODS, U-BOLTS



NPS	D	E	F	G	Y	Z
2"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	3/4"
3"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	3/4"
4"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	3/4"
6"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	7/8"
8"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	7/8"
10"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	7/8"
12"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
14"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
16"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
18"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
20"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	1"
24"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	1"
30"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	1"
36"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	1"

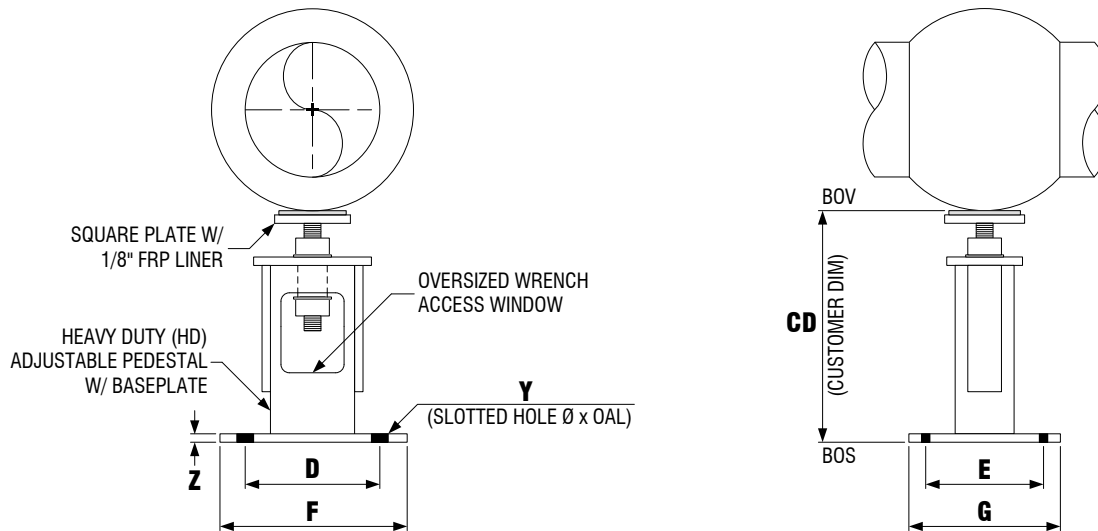
HOW TO ORDER

FIGURE # PIPE NPS CUST. DIM. OPTIONS
HPS-1002 - - -

OPTION CODES

NH - BASEPLATE W/O HOLES
 NP - PEDESTAL W/O BASEPLATE
 CE - EXTRA COMPACT HEIGHT
 GF - HH NUT GREASE FITTINGS

FIGURE 1003 HD ADJUSTABLE PEDESTAL,
VALVE SUPPORT PLATE



NPS	D	E	F	G	Y	Z
2"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	3/4"
3"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	3/4"
4"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	3/4"
6"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	7/8"
8"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	7/8"
10"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	7/8"
12"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
14"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
16"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
18"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
20"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	1"
24"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	1"
30"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	1"
36"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	1"

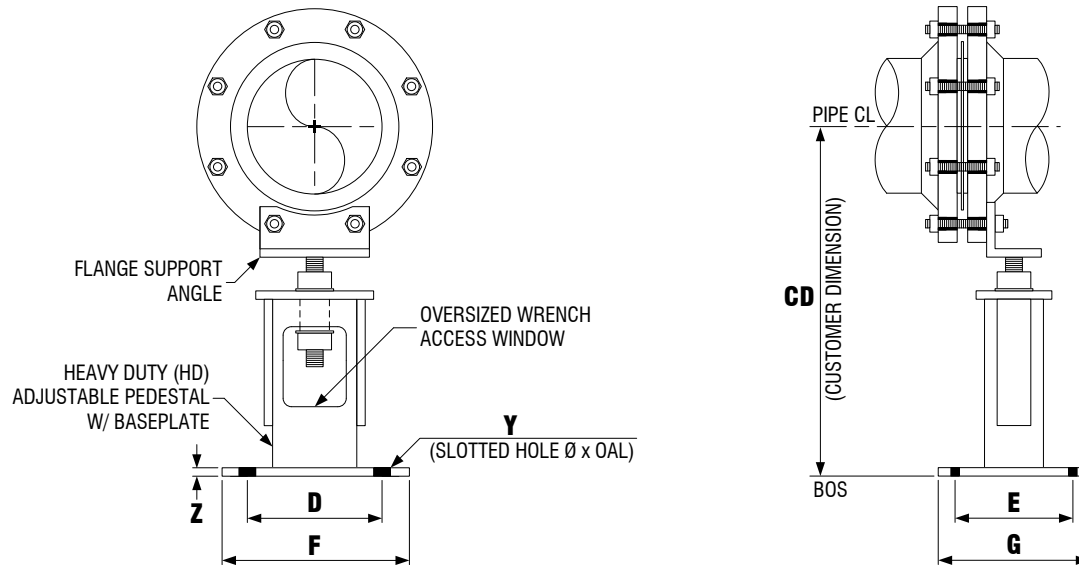
HOW TO ORDER

FIGURE # PIPE NPS CUST. DIM. OPTIONS
HPS-1003 - - -

OPTION CODES

NH - BASEPLATE W/O HOLES
 NP - PEDESTAL W/O BASEPLATE
 CE - EXTRA COMPACT HEIGHT
 GF - HH NUT GREASE FITTINGS

FIGURE 1004 HD ADJUSTABLE PEDESTAL,
FLANGE SUPPORT ANGLE



NPS	D	E	F	G	Y	Z
2"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	3/4"
3"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	3/4"
4"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	3/4"
6"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	7/8"
8"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	7/8"
10"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	7/8"
12"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
14"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
16"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
18"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
20"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	1"
24"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	1"
30"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	1"
36"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	1"

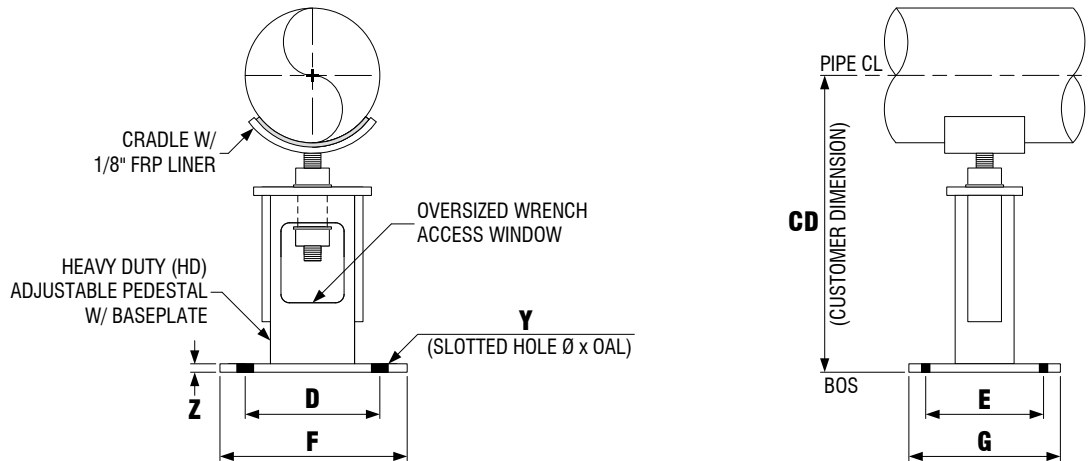
HOW TO ORDER

FIGURE # PIPE NPS CUST. DIM. FLG. CLASS OPTIONS
HPS-1004 - - - -

OPTION CODES

NH - BASEPLATE W/O HOLES
NP - PEDESTAL W/O BASEPLATE
CE - EXTRA COMPACT HEIGHT
GF - HH NUT GREASE FITTINGS

FIGURE 1005 HD ADJUSTABLE PEDESTAL,
CRADLE



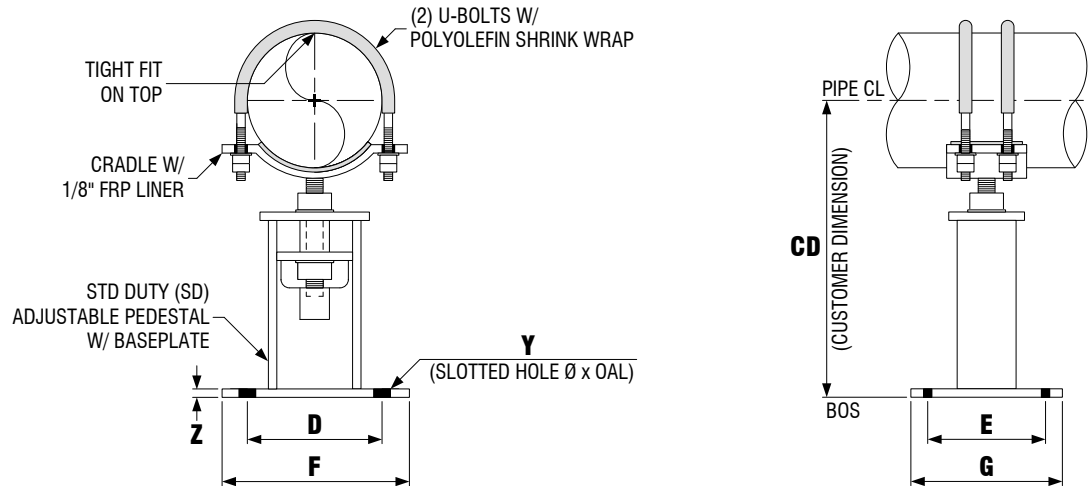
NPS	D	E	F	G	Y	Z
2"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	3/4"
3"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	3/4"
4"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	3/4"
6"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	7/8"
8"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	7/8"
10"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	7/8"
12"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
14"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
16"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
18"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	7/8"
20"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	1"
24"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	1"
30"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	1"
36"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	1"

HOW TO ORDER

FIGURE #	PIPE NPS	CUST. DIM.	OPTIONS
HPS-1005	-	-	-

OPTION CODES

NH - BASEPLATE W/O HOLES
NP - PEDESTAL W/O BASEPLATE
CE - EXTRA COMPACT HEIGHT
GF - HH NUT GREASE FITTINGS

FIGURE 1021 SD ADJUSTABLE PEDESTAL,
CRADLE, U-BOLTS

NPS	D	E	F	G	Y	Z
2"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	1/2"
3"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	1/2"
4"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	1/2"
6"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	1/2"
8"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	1/2"
10"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	1/2"
12"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
14"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
16"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
18"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
20"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	5/8"
24"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	5/8"
30"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	3/4"
36"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	3/4"

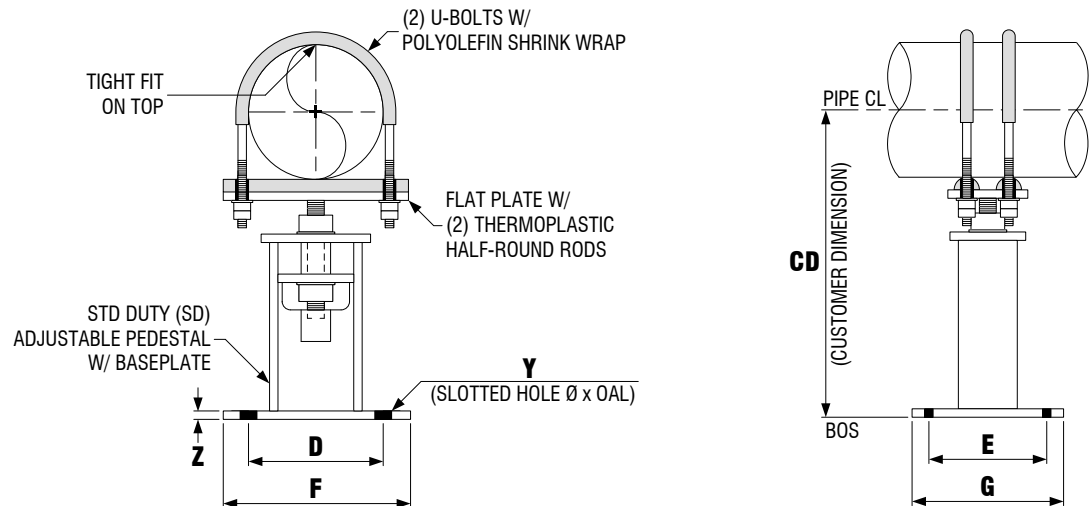
HOW TO ORDER

FIGURE # PIPE NPS CUST. DIM. OPTIONS
HPS-1021 - - -

OPTION CODES

NH - BASEPLATE W/O HOLES
NP - PEDESTAL W/O BASEPLATE
CE - EXTRA COMPACT HEIGHT
GF - HH NUT GREASE FITTINGS

FIGURE 1022 SD ADJUSTABLE PEDESTAL,
HALF-ROUND RODS, U-BOLTS



NPS	D	E	F	G	Y	Z
2"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	1/2"
3"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	1/2"
4"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	1/2"
6"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	1/2"
8"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	1/2"
10"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	1/2"
12"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
14"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
16"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
18"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
20"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	5/8"
24"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	5/8"
30"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	3/4"
36"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	3/4"

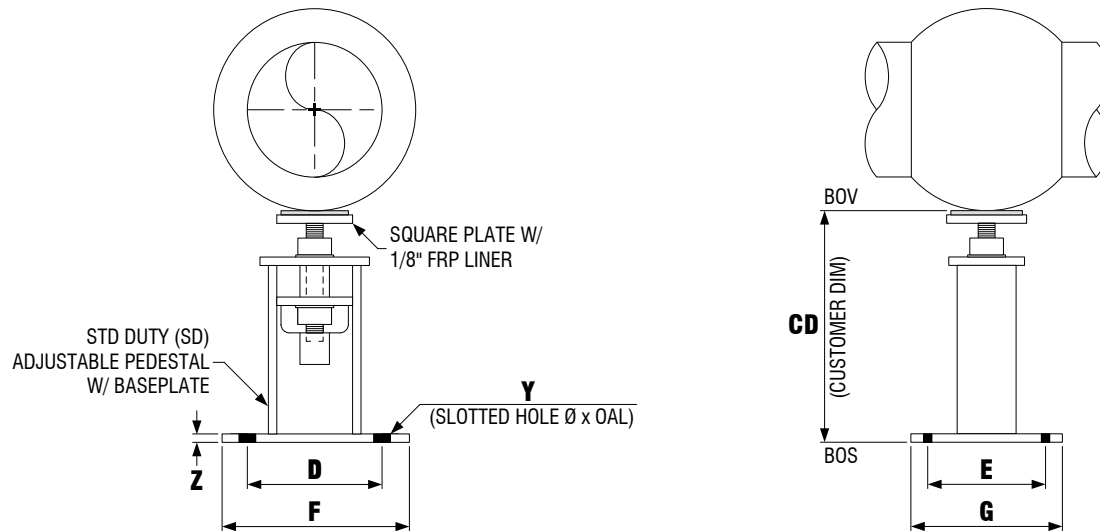
HOW TO ORDER

FIGURE # PIPE NPS CUST. DIM. OPTIONS
HPS-1022 - - -

OPTION CODES

NH - BASEPLATE W/O HOLES
NP - PEDESTAL W/O BASEPLATE
CE - EXTRA COMPACT HEIGHT
GF - HH NUT GREASE FITTINGS

FIGURE 1023 SD ADJUSTABLE PEDESTAL,
VALVE SUPPORT PLATE



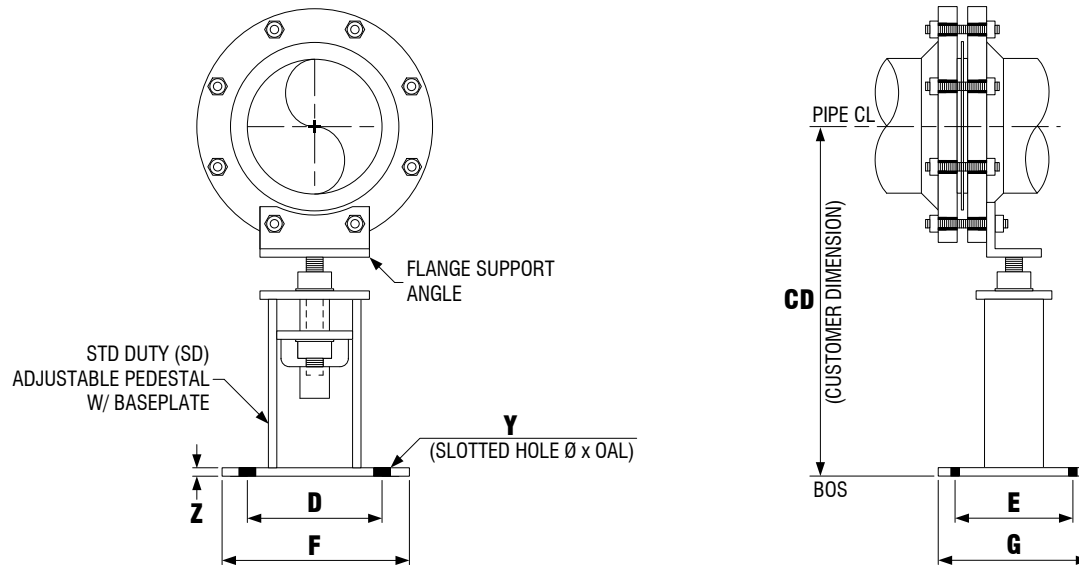
NPS	D	E	F	G	Y	Z
2"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	1/2"
3"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	1/2"
4"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	1/2"
6"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	1/2"
8"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	1/2"
10"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	1/2"
12"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
14"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
16"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
18"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
20"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	5/8"
24"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	5/8"
30"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	3/4"
36"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	3/4"

HOW TO ORDER

FIGURE # PIPE NPS CUST. DIM. OPTIONS
HPS-1023 - - -

OPTION CODES

NH - BASEPLATE W/O HOLES
NP - PEDESTAL W/O BASEPLATE
CE - EXTRA COMPACT HEIGHT
GF - HH NUT GREASE FITTINGS

FIGURE 1024 SD ADJUSTABLE PEDESTAL,
FLANGE SUPPORT ANGLE

NPS	D	E	F	G	Y	Z
2"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	1/2"
3"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	1/2"
4"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	1/2"
6"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	1/2"
8"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	1/2"
10"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	1/2"
12"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
14"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
16"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
18"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
20"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	5/8"
24"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	5/8"
30"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	3/4"
36"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	3/4"

HOW TO ORDER

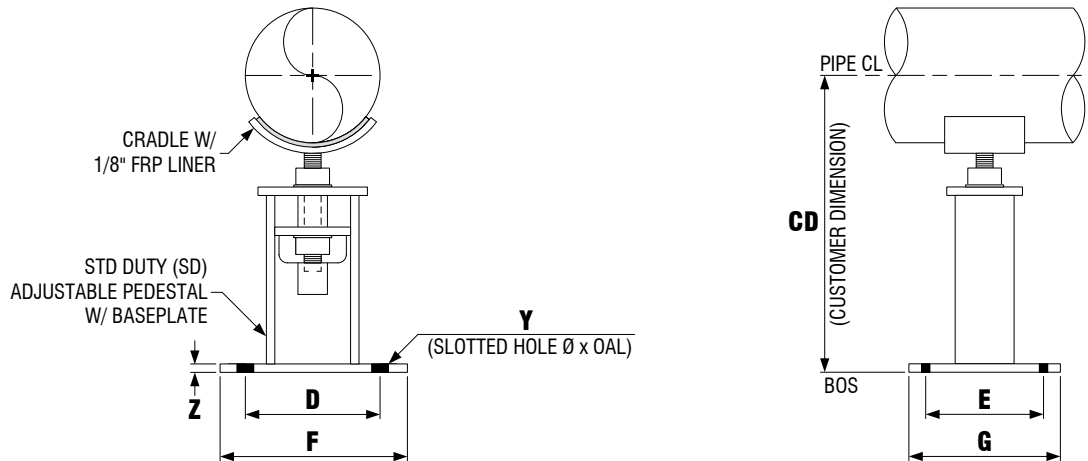
FIGURE # PIPE NPS CUST. DIM. FLG. CLASS OPTIONS

HPS-1024 - - - -

OPTION CODES

NH - BASEPLATE W/O HOLES
 NP - PEDESTAL W/O BASEPLATE
 CE - EXTRA COMPACT HEIGHT
 GF - HH NUT GREASE FITTINGS

FIGURE 1025 SD ADJUSTABLE PEDESTAL,
CRADLE



NPS	D	E	F	G	Y	Z
2"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	1/2"
3"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	1/2"
4"	5"	3 1/2"	8"	6"	5/8" x 1 1/2"	1/2"
6"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	1/2"
8"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	1/2"
10"	7"	5 1/2"	10"	8"	5/8" x 1 1/2"	1/2"
12"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
14"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
16"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
18"	9"	7 1/2"	1'-0"	10"	3/4" x 1 1/2"	5/8"
20"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	5/8"
24"	9"	7 1/2"	1'-0"	10"	7/8" x 1 1/2"	5/8"
30"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	3/4"
36"	11"	9 1/2"	1'-2"	1'-0"	7/8" x 1 1/2"	3/4"

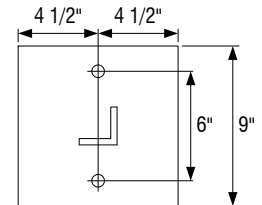
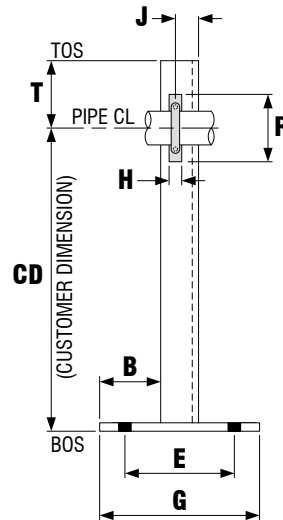
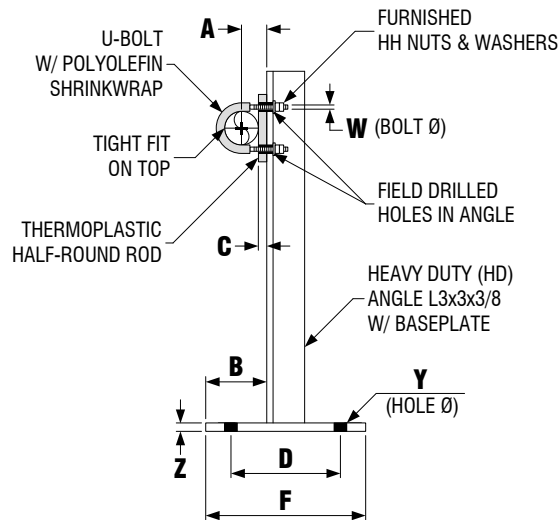
HOW TO ORDER

FIGURE # PIPE NPS CUST. DIM. OPTIONS
HPS-1025 - - -

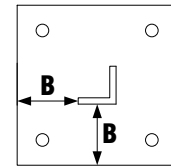
OPTION CODES

NH - BASEPLATE W/O HOLES
NP - PEDESTAL W/O BASEPLATE
CE - EXTRA COMPACT HEIGHT
GF - HH NUT GREASE FITTINGS

FIGURE 1501 HD ANGLE BASE,
HALF-ROUND ROD, U-BOLT



ALT BP OPTION



STANDARD BP

NPS	A	B	C	D	E	F	G	H	J	R	T	W	Y	Z
1/2"	3/4"	3"	5/16"	6"	6"	9"	9"	3/4"	1 3/4"	2 1/2"	4"	1/4"	3/4"	1/2"
3/4"	13/16"	3"	5/16"	6"	6"	9"	9"	3/4"	1 3/4"	3"	4"	1/4"	3/4"	1/2"
1"	1"	3"	5/16"	6"	6"	9"	9"	3/4"	1 3/4"	3"	4"	1/4"	3/4"	1/2"
1 1/2"	1 3/8"	3"	7/16"	6"	6"	9"	9"	1"	1 3/4"	4"	5"	3/8"	3/4"	1/2"
2"	1 5/8"	3"	7/16"	6"	6"	9"	9"	1"	1 3/4"	4 1/2"	5"	3/8"	3/4"	1/2"

HOW TO ORDER

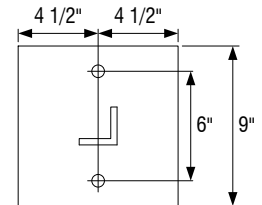
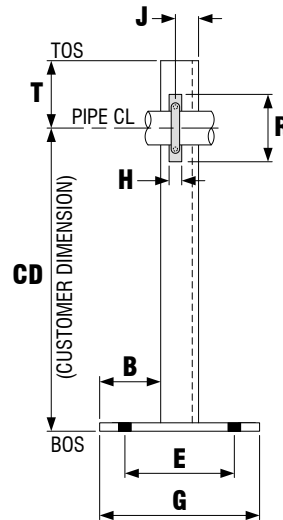
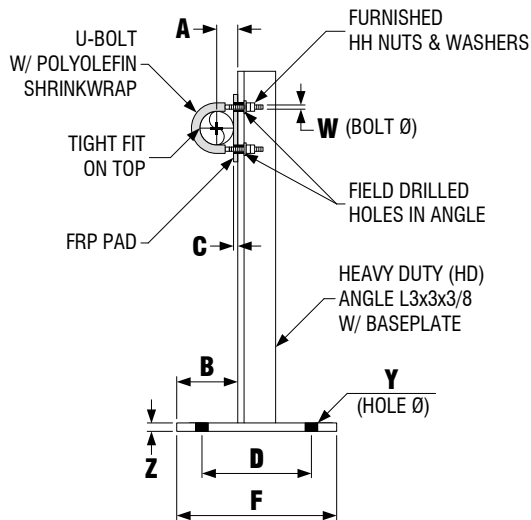
FIGURE #	PIPE NPS	CUST. DIM.	OPTIONS
HPS-1501	-	-	-

OPTION CODES

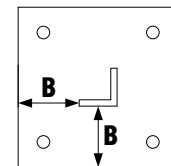
AL - ALTERNATE BASEPLATE

FIGURE 1502

**HD ANGLE BASE,
FRP PAD, U-BOLT**



ALT BP OPTION



STANDARD BP

NPS	A	B	C	D	E	F	G	H	J	R	T	W	Y	Z
1/2"	9/16"	3"	1/8"	6"	6"	9"	9"	1"	1 3/4"	2 3/4"	4"	1/4"	3/4"	1/2"
3/4"	5/8"	3"	1/8"	6"	6"	9"	9"	1"	1 3/4"	2 3/4"	4"	1/4"	3/4"	1/2"
1"	13/16"	3"	1/8"	6"	6"	9"	9"	1"	1 3/4"	2 3/4"	4"	1/4"	3/4"	1/2"
1 1/2"	1 1/16"	3"	1/8"	6"	6"	9"	9"	1 1/4"	1 3/4"	4 1/4"	5"	3/8"	3/4"	1/2"
2"	1 5/16"	3"	1/8"	6"	6"	9"	9"	1 1/4"	1 3/4"	4 1/4"	5"	3/8"	3/4"	1/2"

HOW TO ORDER

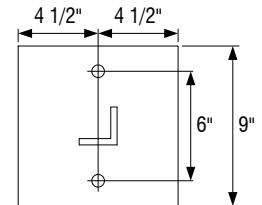
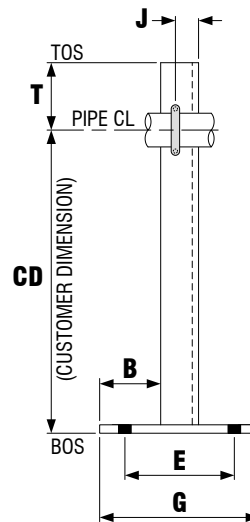
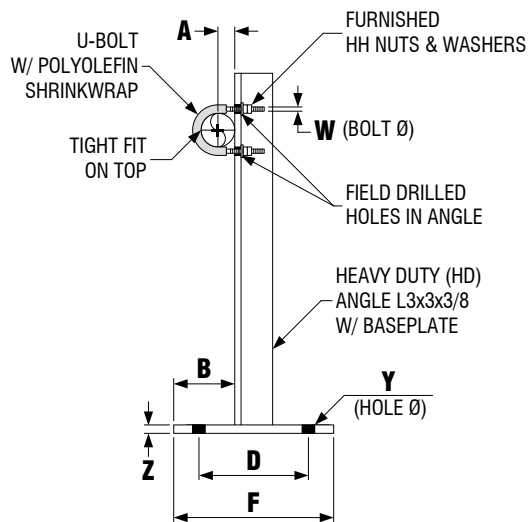
FIGURE # PIPE NPS CUST. DIM. OPTIONS

HPS-1502 - - -

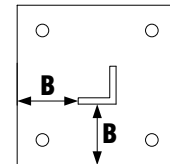
OPTION CODES

AL - ALTERNATE BASEPLATE

FIGURE 1503 HD ANGLE BASE, U-BOLT



ALT BP OPTION



STANDARD BP

NPS	A	B	D	E	F	G	J	T	W	Y	Z
1/2"	7/16"	3"	6"	6"	9"	9"	1 3/4"	4"	1/4"	3/4"	1/2"
3/4"	1/2"	3"	6"	6"	9"	9"	1 3/4"	4"	1/4"	3/4"	1/2"
1"	11/16"	3"	6"	6"	9"	9"	1 3/4"	4"	1/4"	3/4"	1/2"
1 1/2"	15/16"	3"	6"	6"	9"	9"	1 3/4"	5"	3/8"	3/4"	1/2"
2"	1 3/16"	3"	6"	6"	9"	9"	1 3/4"	5"	3/8"	3/4"	1/2"

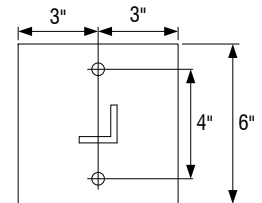
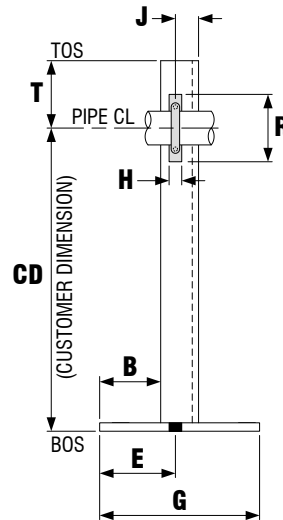
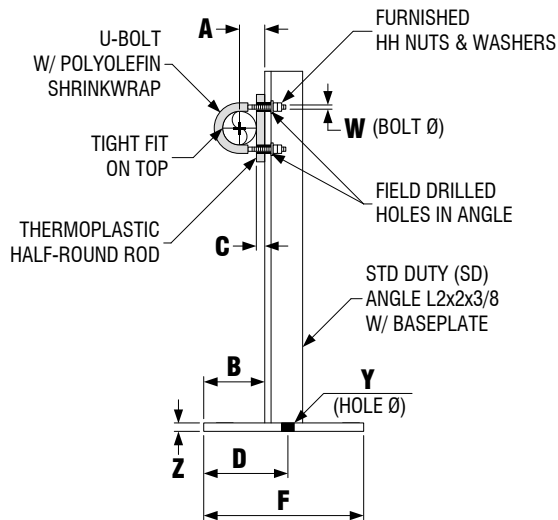
HOW TO ORDER

FIGURE #	PIPE NPS	CUST. DIM.	OPTIONS
HPS-1503	-	-	-

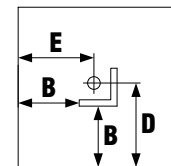
OPTION CODES

AL - ALTERNATE BASEPLATE

FIGURE 1521 SD ANGLE BASE,
HALF-ROUND ROD, U-BOLT



ALT BP OPTION



STANDARD BP

NPS	A	B	C	D	E	F	G	H	J	R	T	W	Y	Z
1/2"	3/4"	2"	5/16"	3 1/4"	2 3/4"	6"	6"	3/4"	1 1/8"	2 1/2"	4"	1/4"	3/4"	3/8"
3/4"	13/16"	2"	5/16"	3 1/4"	2 3/4"	6"	6"	3/4"	1 1/8"	3"	4"	1/4"	3/4"	3/8"
1"	1"	2"	5/16"	3 1/4"	2 3/4"	6"	6"	3/4"	1 1/8"	3"	4"	1/4"	3/4"	3/8"
1 1/2"	1 3/8"	2"	7/16"	3 1/4"	2 3/4"	6"	6"	1"	1 1/8"	4"	5"	3/8"	3/4"	3/8"
2"	1 5/8"	2"	7/16"	3 1/4"	2 3/4"	6"	6"	1"	1 1/8"	4 1/2"	5"	3/8"	3/4"	3/8"

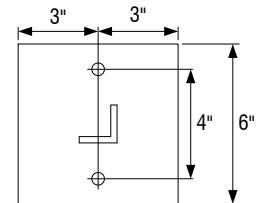
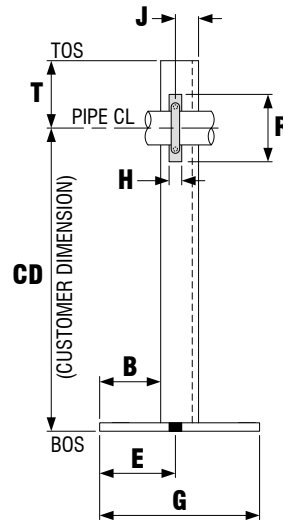
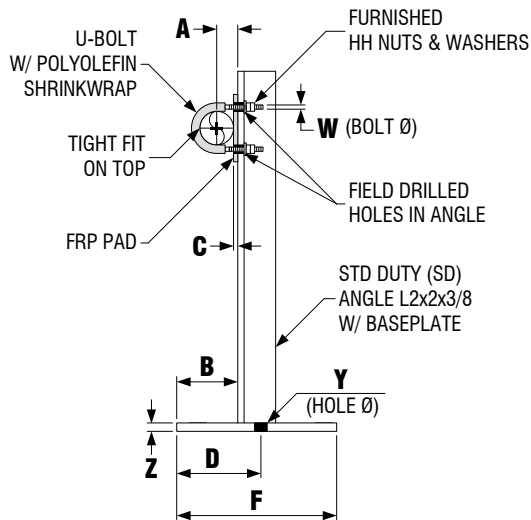
HOW TO ORDER

FIGURE #	PIPE NPS	CUST. DIM.	OPTIONS
HPS-1521	-	-	-

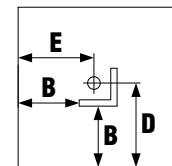
OPTION CODES

AL - ALTERNATE BASEPLATE

FIGURE 1522

SD ANGLE BASE,
FRP PAD, U-BOLT


ALT BP OPTION



STANDARD BP

NPS	A	B	C	D	E	F	G	H	J	R	T	W	Y	Z
1/2"	9/16"	2"	1/8"	3 1/4"	2 3/4"	6"	6"	1"	1 1/8"	2 3/4"	4"	1/4"	3/4"	3/8"
3/4"	5/8"	2"	1/8"	3 1/4"	2 3/4"	6"	6"	1"	1 1/8"	2 3/4"	4"	1/4"	3/4"	3/8"
1"	13/16"	2"	1/8"	3 1/4"	2 3/4"	6"	6"	1"	1 1/8"	2 3/4"	4"	1/4"	3/4"	3/8"
1 1/2"	1 1/16"	2"	1/8"	3 1/4"	2 3/4"	6"	6"	1 1/4"	1 1/8"	4 1/4"	5"	3/8"	3/4"	3/8"
2"	1 5/16"	2"	1/8"	3 1/4"	2 3/4"	6"	6"	1 1/4"	1 1/8"	4 1/4"	5"	3/8"	3/4"	3/8"

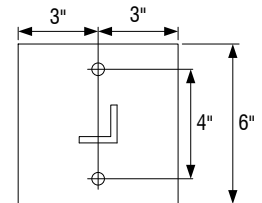
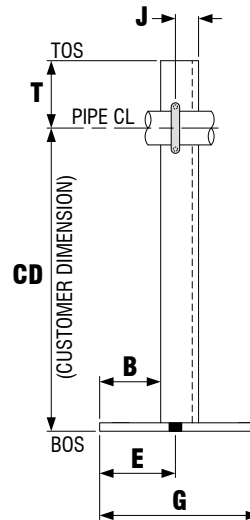
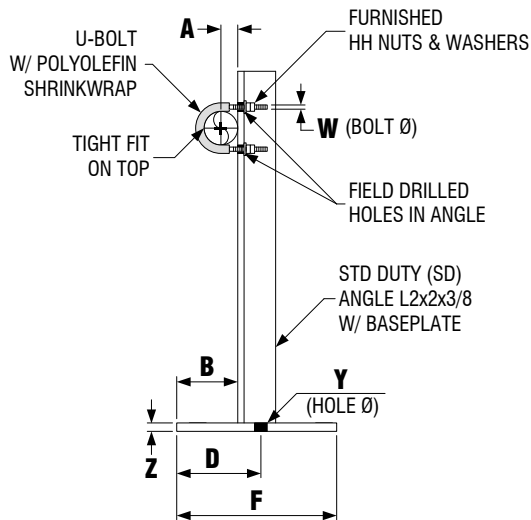
HOW TO ORDER

FIGURE #	PIPE NPS	CUST. DIM.	OPTIONS
HPS-1522	-	-	-

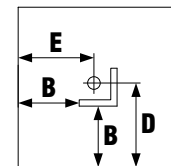
OPTION CODES

AL - ALTERNATE BASEPLATE

FIGURE 1523 SD ANGLE BASE, U-BOLT



ALT BP OPTION



STANDARD BP

NPS	A	B	D	E	F	G	J	T	W	Y	Z
1/2"	7/16"	2"	3 1/4"	2 3/4"	6"	6"	1 1/8"	4"	1/4"	3/4"	3/8"
3/4"	1/2"	2"	3 1/4"	2 3/4"	6"	6"	1 1/8"	4"	1/4"	3/4"	3/8"
1"	11/16"	2"	3 1/4"	2 3/4"	6"	6"	1 1/8"	4"	1/4"	3/4"	3/8"
1 1/2"	15/16"	2"	3 1/4"	2 3/4"	6"	6"	1 1/8"	5"	3/8"	3/4"	3/8"
2"	1 3/16"	2"	3 1/4"	2 3/4"	6"	6"	1 1/8"	5"	3/8"	3/4"	3/8"

HOW TO ORDER

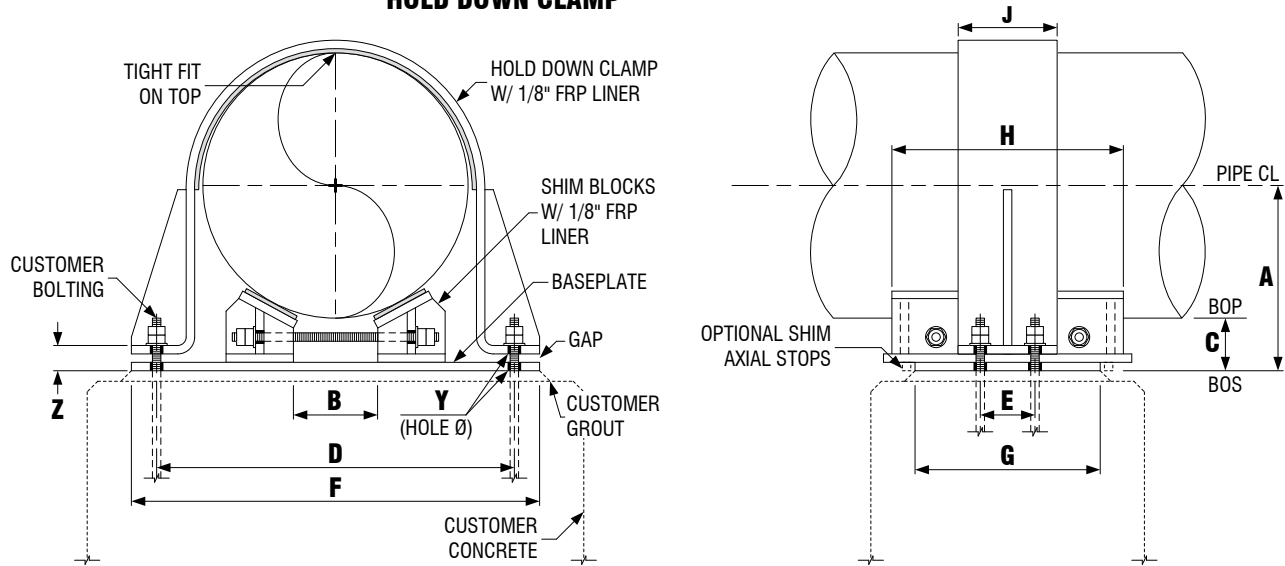
FIGURE # PIPE NPS CUST. DIM. OPTIONS

HPS-1523 - - -

OPTION CODES

AL - ALTERNATE BASEPLATE

**FIGURE 2001 SHIM BLOCKS, BASEPLATE,
HOLD DOWN CLAMP**



NPS	A	B	C	D	E	F	G	H	J	Y	Z
2"	4 11/16"	1/8"	3 1/2"	8 5/8"	3 1/2"	11 5/8"	10"	10"	6"	7/8"	1 1/8"
3"	5 3/8"	1/4"	3 5/8"	10"	3 1/2"	1'-1"	10"	10"	6"	7/8"	1 1/8"
4"	5 13/16"	3/4"	3 9/16"	10"	3 1/2"	1'-1"	10"	10"	6"	7/8"	1 1/8"
6"	7 5/8"	13/16"	4 5/16"	1'-0"	3 1/2"	1'-3"	10"	1'-1"	6"	7/8"	1 1/4"
8"	8 1/2"	1 13/16"	4 3/16"	1'-2"	3 1/2"	1'-5"	10"	1'-1"	6"	1 1/8"	1 3/8"
10"	9 1/2"	2 11/16"	4 1/8"	1'-4"	3 1/2"	1'-7"	10"	1'-1"	6"	1 1/4"	1 3/8"
12"	10 9/16"	2 7/8"	4 3/16"	1'-6"	3 1/2"	1'-10"	10"	1'-1"	6"	1 1/4"	1 3/8"
14"	11 3/16"	3 1/4"	4 3/16"	1'-10"	3 1/2"	2'-2"	10"	1'-1"	6"	1 1/4"	1 3/8"
16"	1'-0"	4 7/16"	4"	2'-0"	3 1/2"	2'-4"	10"	1'-1"	8"	1 1/4"	1 3/8"
18"	1'-0 7/8"	5 3/8"	3 7/8"	2'-2"	3 1/2"	2'-6"	10"	1'-1"	8"	1 1/4"	1 3/8"
20"	1'-2 15/16"	3 9/16"	4 15/16"	2'-4"	4"	2'-8"	1'-2"	1'-5"	8"	1 1/4"	1 1/2"
24"	1'-4 9/16"	5 7/8"	4 9/16"	2'-8"	4"	3'-0"	1'-2"	1'-5"	8"	1 1/4"	1 1/2"
30"	1'-8 7/16"	5 7/16"	5 7/16"	3'-2"	7"	3'-7"	1'-4"	1'-7"	11"	1 1/2"	1 1/2"
36"	1'-11 3/16"	8 5/16"	5 3/16"	3'-8"	7"	4'-1"	1'-4"	1'-7"	11"	1 1/2"	1 5/8"
42"	2'-3"	9 5/8"	6"	4'-2"	7"	4'-8"	1'-6"	1'-9"	1'-0"	1 3/4"	1 3/4"
48"	2'-5 5/8"	1'-0 1/2"	5 5/8"	4'-8"	7"	5'-2"	1'-6"	1'-9"	1'-0"	1 3/4"	1 3/4"
54"	2'-8 1/4"	1'-3 1/2"	5 1/4"	5'-4"	NOTE 1	6'-0"	1'-6"	1'-9"	1'-4"	1 3/4"	1 3/4"

HOW TO ORDER

FIGURE #	PIPE NPS	OPTIONS
HPS-2001		

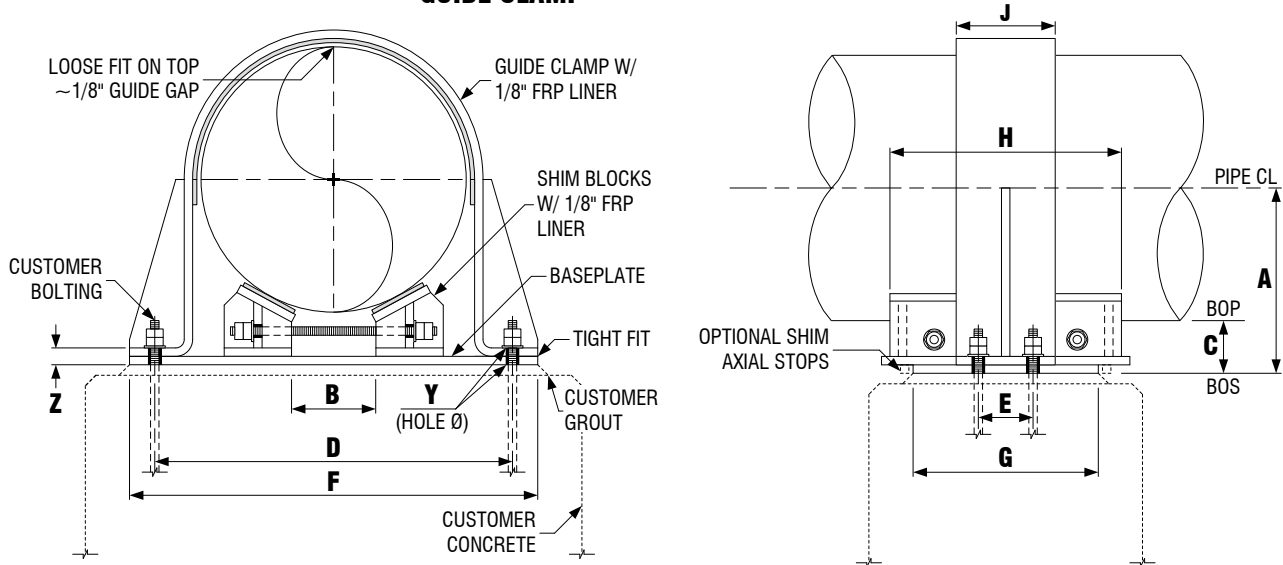
OPTION CODES

AX - SHIM AXIAL STOPS

NOTES

1. (3) AB HOLES W/ 5" C-C's

**FIGURE 2002 SHIM BLOCKS, BASEPLATE
GUIDE CLAMP**



NPS	A	B	C	D	E	F	G	H	J	Y	Z
2"	4 11/16"	1/8"	3 1/2"	8 5/8"	3 1/2"	11 5/8"	10"	10"	6"	7/8"	5/8"
3"	5 3/8"	1/4"	3 5/8"	10"	3 1/2"	1'-1"	10"	10"	6"	7/8"	5/8"
4"	5 13/16"	3/4"	3 9/16"	10"	3 1/2"	1'-1"	10"	10"	6"	7/8"	5/8"
6"	7 5/8"	13/16"	4 5/16"	1'-0"	3 1/2"	1'-3"	10"	1'-1"	6"	7/8"	3/4"
8"	8 1/2"	1 13/16"	4 3/16"	1'-2"	3 1/2"	1'-5"	10"	1'-1"	6"	1 1/8"	7/8"
10"	9 1/2"	2 11/16"	4 1/8"	1'-4"	3 1/2"	1'-7"	10"	1'-1"	6"	1 1/4"	7/8"
12"	10 9/16"	2 7/8"	4 3/16"	1'-6"	3 1/2"	1'-10"	10"	1'-1"	6"	1 1/4"	7/8"
14"	11 3/16"	3 1/4"	4 3/16"	1'-10"	3 1/2"	2'-2"	10"	1'-1"	6"	1 1/4"	7/8"
16"	1'-0"	4 7/16"	4"	2'-0"	3 1/2"	2'-4"	10"	1'-1"	8"	1 1/4"	7/8"
18"	1'-0 7/8"	5 3/8"	3 7/8"	2'-2"	3 1/2"	2'-6"	10"	1'-1"	8"	1 1/4"	7/8"
20"	1'-2 15/16"	3 9/16"	4 15/16"	2'-4"	4"	2'-8"	1'-2"	1'-5"	8"	1 1/4"	1"
24"	1'-4 9/16"	5 7/8"	4 9/16"	2'-8"	4"	3'-0"	1'-2"	1'-5"	8"	1 1/4"	1"
30"	1'-8 7/16"	5 7/16"	5 7/16"	3'-2"	7"	3'-7"	1'-4"	1'-7"	11"	1 1/2"	1"
36"	1'-11 3/16"	8 5/16"	5 3/16"	3'-8"	7"	4'-1"	1'-4"	1'-7"	11"	1 1/2"	1 1/8"
42"	2'-3"	9 5/8"	6"	4'-2"	7"	4'-8"	1'-6"	1'-9"	1'-0"	1 3/4"	1 1/4"
48"	2'-5 5/8"	1'-0 1/2"	5 5/8"	4'-8"	7"	5'-2"	1'-6"	1'-9"	1'-0"	1 3/4"	1 1/4"
54"	2'-8 1/4"	1'-3 1/2"	5 1/4"	5'-4"	NOTE 1	6'-0"	1'-6"	1'-9"	1'-4"	1 3/4"	1 1/4"

HOW TO ORDER

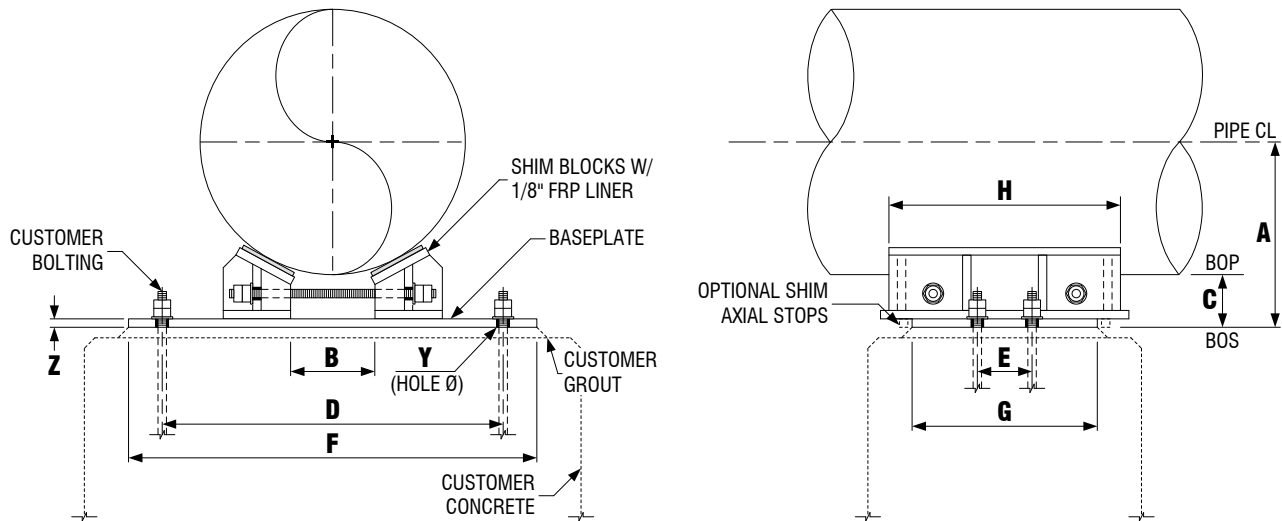
FIGURE #	PIPE NPS	OPTIONS
HPS-2002		

OPTION CODES

AX - SHIM AXIAL STOPS
GE - 1/2" GUIDE GAP

NOTES

1. (3) AB HOLES W/ 5" C-C's

FIGURE 2003 SHIM BLOCKS, BASEPLATE


NPS	A	B	C	D	E	F	G	H	Y	Z
2"	4 11/16"	1/8"	3 1/2"	8 5/8"	3 1/2"	11 5/8"	10"	10"	7/8"	3/8"
3"	5 3/8"	1/4"	3 5/8"	10"	3 1/2"	1'-1"	10"	10"	7/8"	3/8"
4"	5 13/16"	3/4"	3 9/16"	10"	3 1/2"	1'-1"	10"	10"	7/8"	3/8"
6"	7 5/8"	13/16"	4 5/16"	1'-0"	3 1/2"	1'-3"	10"	1'-1"	7/8"	3/8"
8"	8 1/2"	1 13/16"	4 3/16"	1'-2"	3 1/2"	1'-5"	10"	1'-1"	1 1/8"	3/8"
10"	9 1/2"	2 11/16"	4 1/8"	1'-4"	3 1/2"	1'-7"	10"	1'-1"	1 1/4"	3/8"
12"	10 9/16"	2 7/8"	4 3/16"	1'-6"	3 1/2"	1'-10"	10"	1'-1"	1 1/4"	3/8"
14"	11 3/16"	3 1/4"	4 3/16"	1'-10"	3 1/2"	2'-2"	10"	1'-1"	1 1/4"	3/8"
16"	1'-0"	4 7/16"	4"	2'-0"	3 1/2"	2'-4"	10"	1'-1"	1 1/4"	3/8"
18"	1'-0 7/8"	5 3/8"	3 7/8"	2'-2"	3 1/2"	2'-6"	10"	1'-1"	1 1/4"	3/8"
20"	1'-2 15/16"	3 9/16"	4 15/16"	2'-4"	4"	2'-8"	1'-2"	1'-5"	1 1/4"	3/8"
24"	1'-4 9/16"	5 7/8"	4 9/16"	2'-8"	4"	3'-0"	1'-2"	1'-5"	1 1/4"	3/8"
30"	1'-8 7/16"	5 7/16"	5 7/16"	3'-2"	7"	3'-7"	1'-4"	1'-7"	1 1/2"	3/8"
36"	1'-11 3/16"	8 5/16"	5 3/16"	3'-8"	7"	4'-1"	1'-4"	1'-7"	1 1/2"	1/2"
42"	2'-3"	9 5/8"	6"	4'-2"	7"	4'-8"	1'-6"	1'-9"	1 3/4"	1/2"
48"	2'-5 5/8"	1'-0 1/2"	5 5/8"	4'-8"	7"	5'-2"	1'-6"	1'-9"	1 3/4"	1/2"
54"	2'-8 1/4"	1'-3 1/2"	5 1/4"	5'-4"	NOTE 1	6'-0"	1'-6"	1'-9"	1 3/4"	1/2"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-2003

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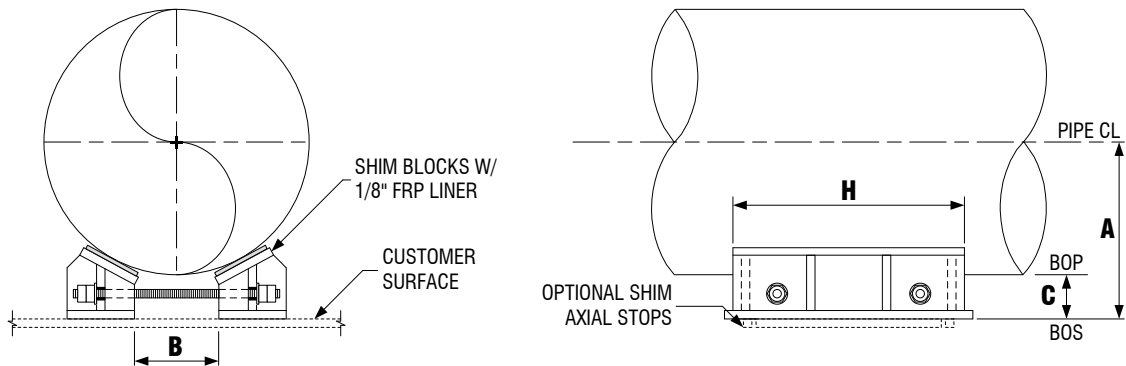
-

OPTION CODES

AX - SHIM AXIAL STOPS

NOTES

1. (3) AB HOLES W/ 5" C-C's

FIGURE 2004 **SHIM BLOCKS**


NPS	A	B	C	H
2"	4 5/16"	1/8"	3 1/8"	10"
3"	5"	1/4"	3 1/4"	10"
4"	5 7/16"	3/4"	3 3/16"	10"
6"	7 1/4"	13/16"	3 15/16"	1'-1"
8"	8 1/8"	1 13/16"	3 13/16"	1'-1"
10"	9 1/8"	2 11/16"	3 3/4"	1'-1"
12"	10 3/16"	2 7/8"	3 13/16"	1'-1"
14"	10 13/16"	3 1/4"	3 13/16"	1'-1"
16"	11 5/8"	4 7/16"	3 5/8"	1'-1"
18"	1'-0 1/2"	5 3/8"	3 1/2"	1'-1"
20"	1'-2 9/16"	3 9/16"	4 9/16"	1'-5"
24"	1'-4 3/16"	5 7/8"	4 3/16"	1'-5"
30"	1'-8 1/16"	5 7/16"	5 1/16"	1'-7"
36"	1'-10 11/16"	8 5/16"	4 11/16"	1'-7"
42"	2'-2 1/2"	9 5/8"	5 1/2"	1'-9"
48"	2'-5 1/8"	1'-0 1/2"	5 1/8"	1'-9"
54"	2'-7 3/4"	1'-3 1/2"	4 3/4"	1'-9"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

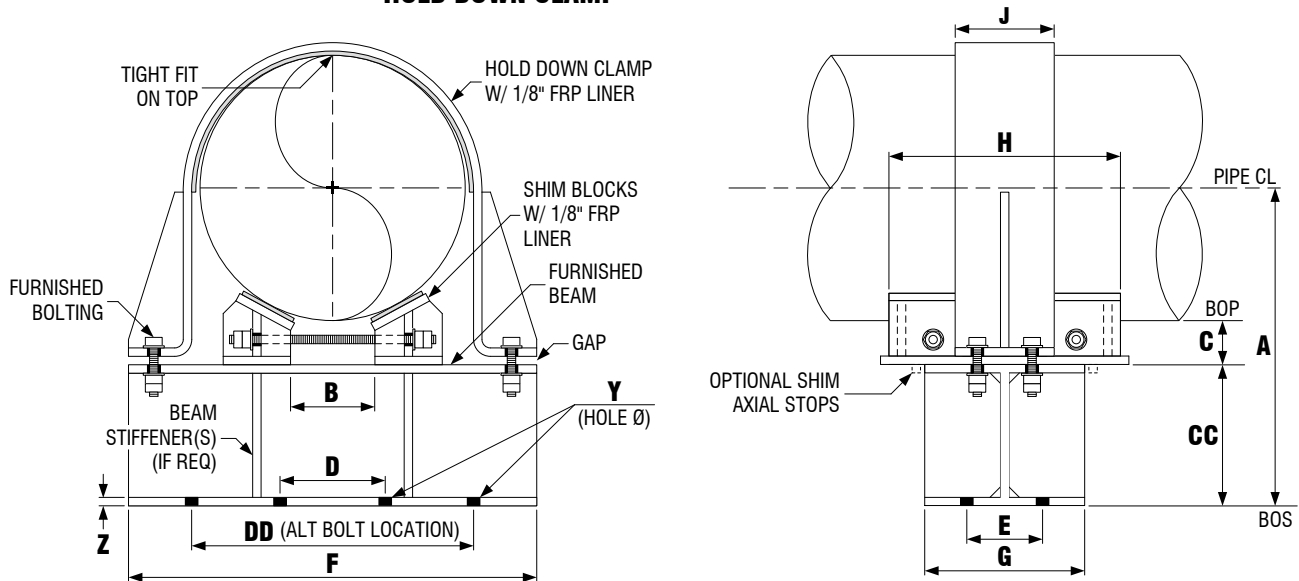
HPS-2004

OPTION CODES

AX - SHIM AXIAL STOPS

FIGURE 2101

**SHIM BLOCKS, BEAM,
HOLD DOWN CLAMP**



NPS	A	B	C	CC	D	DD	E	F	G	H	J	Y	Z
2"	1'-0 5/16"	1/8"	3 1/8"	8"	4"	10"	5 1/2"	1'-1"	8"	10"	6"	3/4"	7/16"
3"	1'-1"	1/4"	3 1/4"	8"	4"	10"	5 1/2"	1'-1"	8"	10"	6"	3/4"	7/16"
4"	1'-1 7/16"	3/4"	3 3/16"	8"	4"	10"	5 1/2"	1'-1"	8"	10"	6"	3/4"	7/16"
6"	1'-3 1/4"	13/16"	3 15/16"	8"	4"	10"	5 1/2"	1'-3"	8"	1'-1"	6"	3/4"	7/16"
8"	1'-4 1/8"	1 13/16"	3 13/16"	8"	4"	1'-0"	5 1/2"	1'-5"	8"	1'-1"	6"	1"	7/16"
10"	1'-5 1/8"	2 11/16"	3 3/4"	8"	4"	1'-0"	5 1/2"	1'-7"	8"	1'-1"	6"	1 1/8"	7/16"
12"	1'-6 3/16"	2 7/8"	3 13/16"	8"	4"	1'-0"	5 1/2"	1'-10"	8"	1'-1"	6"	1 1/8"	7/16"
14"	1'-10 15/16"	3 1/4"	3 13/16"	1'-0 1/8"	4"	1'-0"	5 1/2"	2'-2"	1'-0"	1'-1"	6"	1 1/8"	5/8"
16"	1'-11 3/4"	4 7/16"	3 5/8"	1'-0 1/8"	7"	1'-6"	5 1/2"	2'-4"	1'-0"	1'-1"	8"	1 1/8"	5/8"
18"	2'-0 5/8"	5 3/8"	3 1/2"	1'-0 1/8"	7"	1'-6"	5 1/2"	2'-6"	1'-0"	1'-1"	8"	1 1/8"	5/8"
20"	2'-2 11/16"	3 9/16"	4 9/16"	1'-0 1/8"	7"	1'-6"	5 1/2"	2'-8"	1'-0"	1'-5"	8"	1 1/8"	5/8"
24"	2'-4 5/16"	5 7/8"	4 3/16"	1'-0 1/8"	8"	2'-0"	5 1/2"	3'-0"	1'-0"	1'-5"	8"	1 1/8"	5/8"
30"	2'-8 3/16"	5 7/16"	5 1/16"	1'-0 1/8"	8"	2'-0"	5 1/2"	3'-7"	1'-0"	1'-7"	11"	1 1/4"	5/8"
36"	2'-10 13/16"	8 5/16"	4 11/16"	1'-0 1/8"	8"	2'-0"	5 1/2"	4'-1"	1'-0"	1'-7"	11"	1 1/4"	5/8"
42"	3'-2 5/8"	9 5/8"	5 1/2"	1'-0 1/8"	8"	2'-0"	5 1/2"	4'-8"	1'-0"	1'-9"	1'-0"	1 1/2"	5/8"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

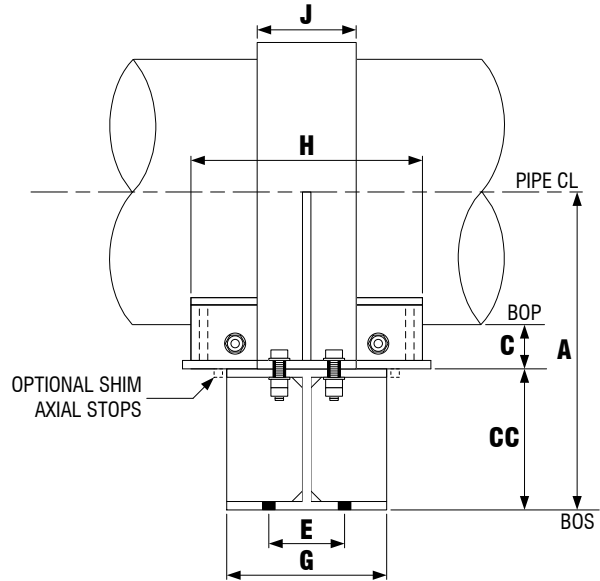
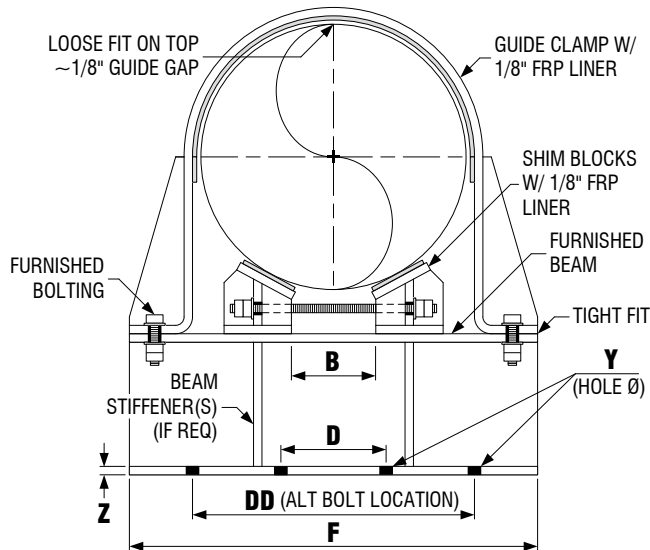
HPS-2101 - -

OPTION CODES

AX - SHIM AXIAL STOPS

FIGURE 2102

**SHIM BLOCKS, BEAM,
GUIDE CLAMP**



NPS	A	B	C	CC	D	DD	E	F	G	H	J	Y	Z
2"	1'-0 5/16"	1/8"	3 1/8"	8"	4"	10"	5 1/2"	1'-1"	8"	10"	6"	3/4"	7/16"
3"	1'-1"	1/4"	3 1/4"	8"	4"	10"	5 1/2"	1'-1"	8"	10"	6"	3/4"	7/16"
4"	1'-1 7/16"	3/4"	3 3/16"	8"	4"	10"	5 1/2"	1'-1"	8"	10"	6"	3/4"	7/16"
6"	1'-3 1/4"	13/16"	3 15/16"	8"	4"	10"	5 1/2"	1'-3"	8"	1'-1"	6"	3/4"	7/16"
8"	1'-4 1/8"	1 13/16"	3 13/16"	8"	4"	1'-0"	5 1/2"	1'-5"	8"	1'-1"	6"	1"	7/16"
10"	1'-5 1/8"	2 11/16"	3 3/4"	8"	4"	1'-0"	5 1/2"	1'-7"	8"	1'-1"	6"	1 1/8"	7/16"
12"	1'-6 3/16"	2 7/8"	3 13/16"	8"	4"	1'-0"	5 1/2"	1'-10"	8"	1'-1"	6"	1 1/8"	7/16"
14"	1'-10 15/16"	3 1/4"	3 13/16"	1'-0 1/8"	4"	1'-0"	5 1/2"	2'-2"	1'-0"	1'-1"	6"	1 1/8"	5/8"
16"	1'-11 3/4"	4 7/16"	3 5/8"	1'-0 1/8"	7"	1'-6"	5 1/2"	2'-4"	1'-0"	1'-1"	8"	1 1/8"	5/8"
18"	2'-0 5/8"	5 3/8"	3 1/2"	1'-0 1/8"	7"	1'-6"	5 1/2"	2'-6"	1'-0"	1'-1"	8"	1 1/8"	5/8"
20"	2'-2 11/16"	3 9/16"	4 9/16"	1'-0 1/8"	7"	1'-6"	5 1/2"	2'-8"	1'-0"	1'-5"	8"	1 1/8"	5/8"
24"	2'-4 5/16"	5 7/8"	4 3/16"	1'-0 1/8"	8"	2'-0"	5 1/2"	3'-0"	1'-0"	1'-5"	8"	1 1/8"	5/8"
30"	2'-8 3/16"	5 7/16"	5 1/16"	1'-0 1/8"	8"	2'-0"	5 1/2"	3'-7"	1'-0"	1'-7"	11"	1 1/4"	5/8"
36"	2'-10 13/16"	8 5/16"	4 11/16"	1'-0 1/8"	8"	2'-0"	5 1/2"	4'-1"	1'-0"	1'-7"	11"	1 1/4"	5/8"
42"	3'-2 5/8"	9 5/8"	5 1/2"	1'-0 1/8"	8"	2'-0"	5 1/2"	4'-8"	1'-0"	1'-9"	1'-0"	1 1/2"	5/8"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

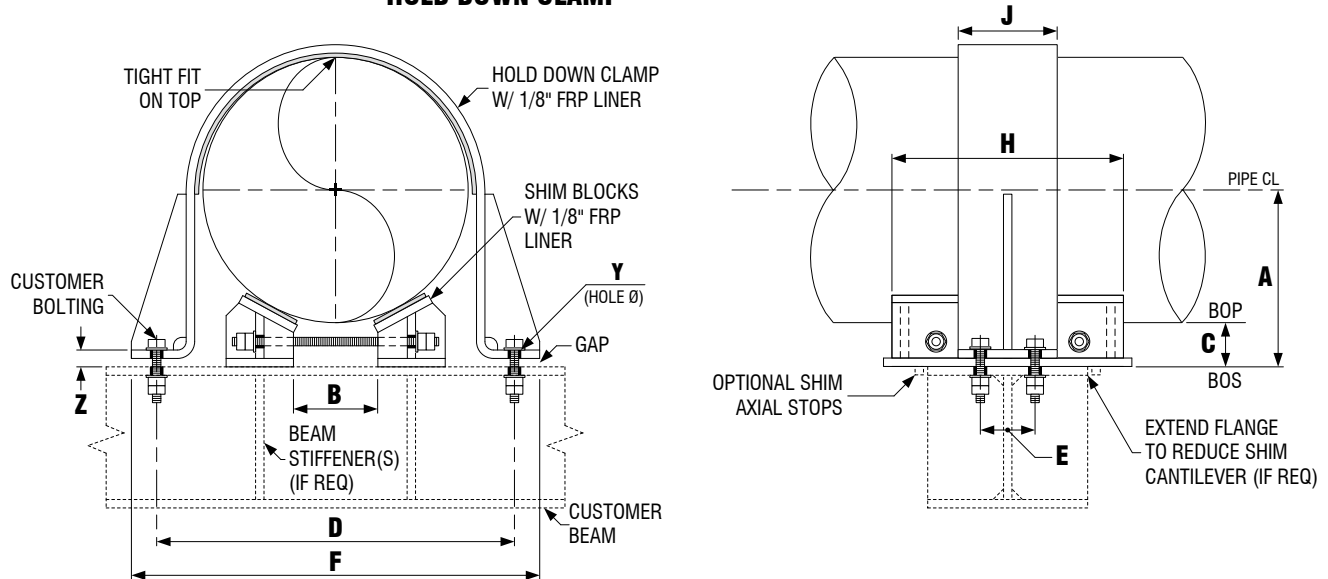
HPS-2102 - -

OPTION CODES

AX - SHIM AXIAL STOPS

GE - 1/2" GUIDE GAP

FIGURE 2103

SHIM BLOCKS,
HOLD DOWN CLAMP


NPS	A	B	C	D	E	F	H	J	Y	Z
2"	4 5/16"	1/8"	3 1/8"	8 5/8"	3 1/2"	11 5/8"	10"	6"	7/8"	3/4"
3"	5"	1/4"	3 1/4"	10"	3 1/2"	1'-1"	10"	6"	7/8"	3/4"
4"	5 7/16"	3/4"	3 3/16"	10"	3 1/2"	1'-1"	10"	6"	7/8"	3/4"
6"	7 1/4"	13/16"	3 15/16"	1'-0"	3 1/2"	1'-3"	1'-1"	6"	7/8"	7/8"
8"	8 1/8"	1 13/16"	3 13/16"	1'-2"	3 1/2"	1'-5"	1'-1"	6"	1 1/8"	1"
10"	9 1/8"	2 11/16"	3 3/4"	1'-4"	3 1/2"	1'-7"	1'-1"	6"	1 1/4"	1"
12"	10 3/16"	2 7/8"	3 13/16"	1'-6"	3 1/2"	1'-10"	1'-1"	6"	1 1/4"	1"
14"	10 13/16"	3 1/4"	3 13/16"	1'-10"	3 1/2"	2'-2"	1'-1"	6"	1 1/4"	1"
16"	11 5/8"	4 7/16"	3 5/8"	2'-0"	3 1/2"	2'-4"	1'-1"	8"	1 1/4"	1"
18"	1'-0 1/2"	5 3/8"	3 1/2"	2'-2"	3 1/2"	2'-6"	1'-1"	8"	1 1/4"	1"
20"	1'-2 9/16"	3 9/16"	4 9/16"	2'-4"	4"	2'-8"	1'-5"	8"	1 1/4"	1 1/8"
24"	1'-4 3/16"	5 7/8"	4 3/16"	2'-8"	4"	3'-0"	1'-5"	8"	1 1/4"	1 1/8"
30"	1'-8 1/16"	5 7/16"	5 1/16"	3'-2"	7"	3'-7"	1'-7"	11"	1 1/2"	1 1/8"
36"	1'-10 11/16"	8 5/16"	4 11/16"	3'-8"	7"	4'-1"	1'-7"	11"	1 1/2"	1 1/8"
42"	2'-2 1/2"	9 5/8"	5 1/2"	4'-2"	7"	4'-8"	1'-9"	1'-0"	1 3/4"	1 1/4"
48"	2'-5 1/8"	1'-0 1/2"	5 1/8"	4'-8"	7"	5'-2"	1'-9"	1'-0"	1 3/4"	1 1/4"
54"	2'-7 3/4"	1'-3 1/2"	4 3/4"	5'-4"	7"	6'-0"	1'-9"	1'-4"	1 3/4"	1 1/4"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-2103

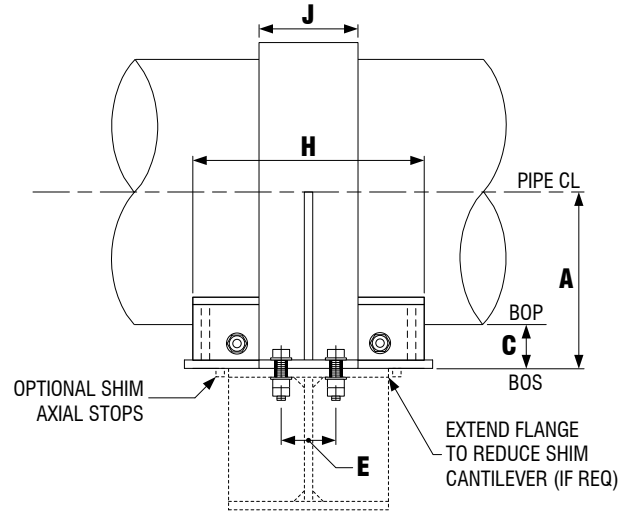
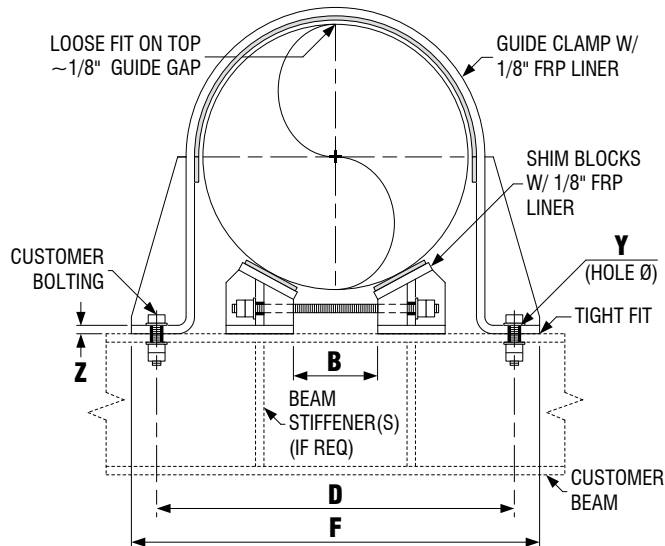
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OPTION CODES

AX - SHIM AXIAL STOPS

FIGURE 2104

SHIM BLOCKS,
GUIDE CLAMP


NPS	A	B	C	D	E	F	H	J	Y	Z
2"	4 5/16"	1/8"	3 1/8"	8 5/8"	3 1/2"	11 5/8"	10"	6"	7/8"	1/4"
3"	5"	1/4"	3 1/4"	10"	3 1/2"	1'-1"	10"	6"	7/8"	1/4"
4"	5 7/16"	3/4"	3 3/16"	10"	3 1/2"	1'-1"	10"	6"	7/8"	1/4"
6"	7 1/4"	13/16"	3 15/16"	1'-0"	3 1/2"	1'-3"	1'-1"	6"	7/8"	3/8"
8"	8 1/8"	1 13/16"	3 13/16"	1'-2"	3 1/2"	1'-5"	1'-1"	6"	1 1/8"	1/2"
10"	9 1/8"	2 11/16"	3 3/4"	1'-4"	3 1/2"	1'-7"	1'-1"	6"	1 1/4"	1/2"
12"	10 3/16"	2 7/8"	3 13/16"	1'-6"	3 1/2"	1'-10"	1'-1"	6"	1 1/4"	1/2"
14"	10 13/16"	3 1/4"	3 13/16"	1'-10"	3 1/2"	2'-2"	1'-1"	6"	1 1/4"	1/2"
16"	11 5/8"	4 7/16"	3 5/8"	2'-0"	3 1/2"	2'-4"	1'-1"	8"	1 1/4"	1/2"
18"	1'-0 1/2"	5 3/8"	3 1/2"	2'-2"	3 1/2"	2'-6"	1'-1"	8"	1 1/4"	1/2"
20"	1'-2 9/16"	3 9/16"	4 9/16"	2'-4"	4"	2'-8"	1'-5"	8"	1 1/4"	5/8"
24"	1'-4 3/16"	5 7/8"	4 3/16"	2'-8"	4"	3'-0"	1'-5"	8"	1 1/4"	5/8"
30"	1'-8 1/16"	5 7/16"	5 1/16"	3'-2"	7"	3'-7"	1'-7"	11"	1 1/2"	5/8"
36"	1'-10 11/16"	8 5/16"	4 11/16"	3'-8"	7"	4'-1"	1'-7"	11"	1 1/2"	5/8"
42"	2'-2 1/2"	9 5/8"	5 1/2"	4'-2"	7"	4'-8"	1'-9"	1'-0"	1 3/4"	3/4"
48"	2'-5 1/8"	1'-0 1/2"	5 1/8"	4'-8"	7"	5'-2"	1'-9"	1'-0"	1 3/4"	3/4"
54"	2'-7 3/4"	1'-3 1/2"	4 3/4"	5'-4"	7"	6'-0"	1'-9"	1'-4"	1 3/4"	3/4"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-2104

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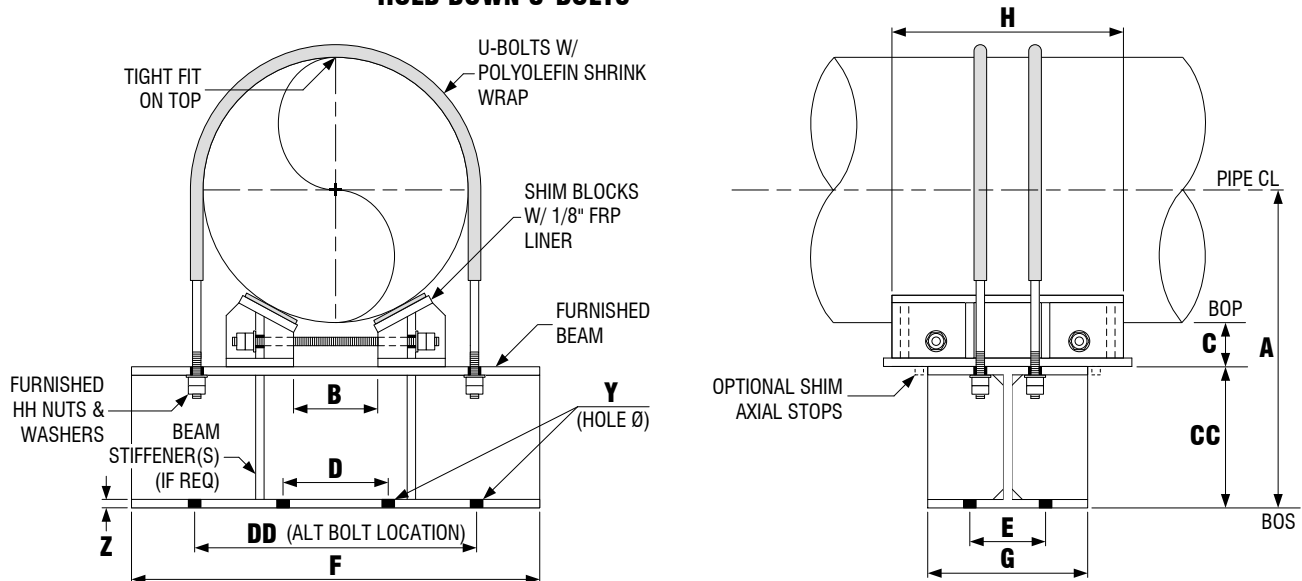
OPTION CODES

AX - SHIM AXIAL STOPS

GE - 1/2" GUIDE GAP

FIGURE 2201

**SHIM BLOCKS, BEAM,
HOLD DOWN U-BOLTS**



NPS	A	B	C	CC	D	DD	E	F	G	H	Y	Z
2"	1'-0 5/16"	1/8"	3 1/8"	8"	4"	10"	5 1/2"	1'-1"	8"	10"	3/4"	7/16"
3"	1'-1"	1/4"	3 1/4"	8"	4"	10"	5 1/2"	1'-1"	8"	10"	3/4"	7/16"
4"	1'-1 7/16"	3/4"	3 3/16"	8"	4"	10"	5 1/2"	1'-1"	8"	10"	3/4"	7/16"
6"	1'-3 1/4"	13/16"	3 15/16"	8"	4"	10"	5 1/2"	1'-3"	8"	1'-1"	3/4"	7/16"
8"	1'-4 1/8"	1 13/16"	3 13/16"	8"	4"	1'-0"	5 1/2"	1'-5"	8"	1'-1"	1"	7/16"
10"	1'-5 1/8"	2 11/16"	3 3/4"	8"	4"	1'-0"	5 1/2"	1'-7"	8"	1'-1"	1 1/8"	7/16"
12"	1'-6 3/16"	2 7/8"	3 13/16"	8"	4"	1'-0"	5 1/2"	1'-10"	8"	1'-1"	1 1/8"	7/16"
14"	1'-10 15/16"	3 1/4"	3 13/16"	1'-0 1/8"	4"	1'-0"	5 1/2"	2'-2"	1'-0"	1'-1"	1 1/8"	5/8"
16"	1'-11 3/4"	4 7/16"	3 5/8"	1'-0 1/8"	7"	1'-6"	5 1/2"	2'-4"	1'-0"	1'-1"	1 1/8"	5/8"
18"	2'-0 5/8"	5 3/8"	3 1/2"	1'-0 1/8"	7"	1'-6"	5 1/2"	2'-6"	1'-0"	1'-1"	1 1/8"	5/8"
20"	2'-2 11/16"	3 9/16"	4 9/16"	1'-0 1/8"	7"	1'-6"	5 1/2"	2'-8"	1'-0"	1'-5"	1 1/8"	5/8"
24"	2'-4 5/16"	5 7/8"	4 3/16"	1'-0 1/8"	8"	2'-0"	5 1/2"	3'-0"	1'-0"	1'-5"	1 1/8"	5/8"
30"	2'-8 3/16"	5 7/16"	5 1/16"	1'-0 1/8"	8"	2'-0"	5 1/2"	3'-7"	1'-0"	1'-7"	1 1/4"	5/8"
36"	2'-10 13/16"	8 5/16"	4 11/16"	1'-0 1/8"	8"	2'-0"	5 1/2"	4'-1"	1'-0"	1'-7"	1 1/4"	5/8"
42"	3'-2 5/8"	9 5/8"	5 1/2"	1'-0 1/8"	8"	2'-0"	5 1/2"	4'-8"	1'-0"	1'-9"	1 1/2"	5/8"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

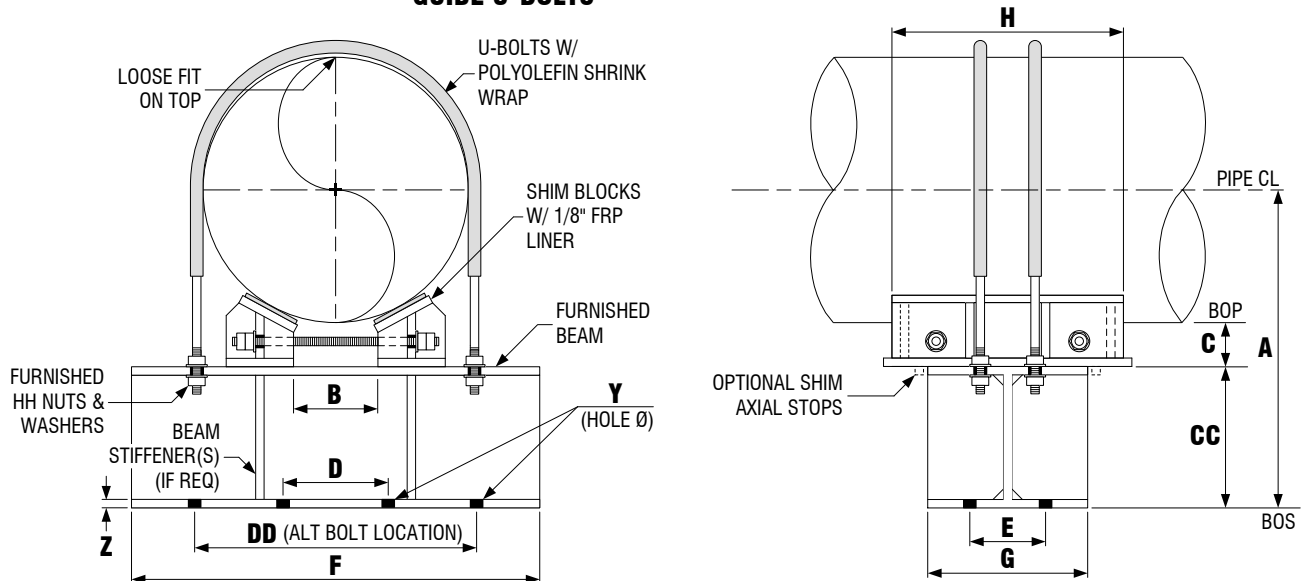
HPS-2201 - -

OPTION CODES

AX - SHIM AXIAL STOPS

FIGURE 2202

**SHIM BLOCKS, BEAM,
GUIDE U-BOLTS**



NPS	A	B	C	CC	D	DD	E	F	G	H	Y	Z
2"	1'-0 5/16"	1/8"	3 1/8"	8"	4"	10"	5 1/2"	1'-1"	8"	10"	3/4"	7/16"
3"	1'-1"	1/4"	3 1/4"	8"	4"	10"	5 1/2"	1'-1"	8"	10"	3/4"	7/16"
4"	1'-1 7/16"	3/4"	3 3/16"	8"	4"	10"	5 1/2"	1'-1"	8"	10"	3/4"	7/16"
6"	1'-3 1/4"	13/16"	3 15/16"	8"	4"	10"	5 1/2"	1'-3"	8"	1'-1"	3/4"	7/16"
8"	1'-4 1/8"	1 13/16"	3 13/16"	8"	4"	1'-0"	5 1/2"	1'-5"	8"	1'-1"	1"	7/16"
10"	1'-5 1/8"	2 11/16"	3 3/4"	8"	4"	1'-0"	5 1/2"	1'-7"	8"	1'-1"	1 1/8"	7/16"
12"	1'-6 3/16"	2 7/8"	3 13/16"	8"	4"	1'-0"	5 1/2"	1'-10"	8"	1'-1"	1 1/8"	7/16"
14"	1'-10 15/16"	3 1/4"	3 13/16"	1'-0 1/8"	4"	1'-0"	5 1/2"	2'-2"	1'-0"	1'-1"	1 1/8"	5/8"
16"	1'-11 3/4"	4 7/16"	3 5/8"	1'-0 1/8"	7"	1'-6"	5 1/2"	2'-4"	1'-0"	1'-1"	1 1/8"	5/8"
18"	2'-0 5/8"	5 3/8"	3 1/2"	1'-0 1/8"	7"	1'-6"	5 1/2"	2'-6"	1'-0"	1'-1"	1 1/8"	5/8"
20"	2'-2 11/16"	3 9/16"	4 9/16"	1'-0 1/8"	7"	1'-6"	5 1/2"	2'-8"	1'-0"	1'-5"	1 1/8"	5/8"
24"	2'-4 5/16"	5 7/8"	4 3/16"	1'-0 1/8"	8"	2'-0"	5 1/2"	3'-0"	1'-0"	1'-5"	1 1/8"	5/8"
30"	2'-8 3/16"	5 7/16"	5 1/16"	1'-0 1/8"	8"	2'-0"	5 1/2"	3'-7"	1'-0"	1'-7"	1 1/4"	5/8"
36"	2'-10 13/16"	8 5/16"	4 11/16"	1'-0 1/8"	8"	2'-0"	5 1/2"	4'-1"	1'-0"	1'-7"	1 1/4"	5/8"
42"	3'-2 5/8"	9 5/8"	5 1/2"	1'-0 1/8"	8"	2'-0"	5 1/2"	4'-8"	1'-0"	1'-9"	1 1/2"	5/8"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

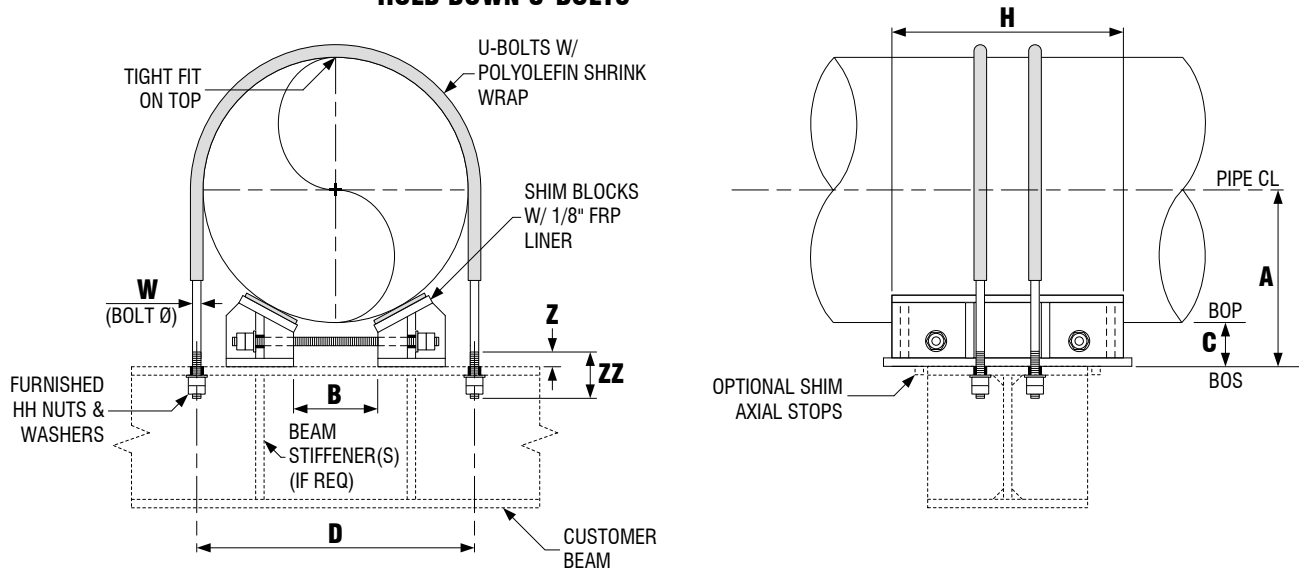
HPS-2202 - -

OPTION CODES

AX - SHIM AXIAL STOPS

FIGURE 2203

**SHIM BLOCKS,
HOLD DOWN U-BOLTS**



NPS	A	B	C	D	H	W	Z	ZZ
2"	4 5/16"	1/8"	3 1/8"	2 13/16"	10"	3/8"	1 1/4"	3 7/8"
3"	5"	1/4"	3 1/4"	4 1/16"	10"	1/2"	1 1/2"	4 1/2"
4"	5 7/16"	3/4"	3 3/16"	5 1/16"	10"	1/2"	1 1/2"	4 1/2"
6"	7 1/4"	13/16"	3 15/16"	7 3/8"	1'-1"	5/8"	1 5/8"	4 7/8"
8"	8 1/8"	1 13/16"	3 13/16"	9 3/8"	1'-1"	5/8"	1 5/8"	4 7/8"
10"	9 1/8"	2 11/16"	3 3/4"	11 5/8"	1'-1"	3/4"	1 7/8"	5 1/2"
12"	10 3/16"	2 7/8"	3 13/16"	1'-1 3/4"	1'-1"	7/8"	2 1/8"	6 1/8"
14"	10 13/16"	3 1/4"	3 13/16"	1'-3"	1'-1"	7/8"	2 1/8"	6 1/8"
16"	11 5/8"	4 7/16"	3 5/8"	1'-5"	1'-1"	7/8"	2 1/8"	6 1/8"
18"	1'-0 1/2"	5 3/8"	3 1/2"	1'-7 1/8"	1'-1"	1"	2 1/4"	6 1/2"
20"	1'-2 9/16"	3 9/16"	4 9/16"	1'-9 1/8"	1'-5"	1"	2 1/4"	6 1/2"
24"	1'-4 3/16"	5 7/8"	4 3/16"	2'-1 1/8"	1'-5"	1"	2 1/4"	6 1/2"
30"	1'-8 1/16"	5 7/16"	5 1/16"	2'-7 1/8"	1'-7"	1"	2 1/4"	6 1/2"
36"	1'-10 11/16"	8 5/16"	4 11/16"	3'-1 1/8"	1'-7"	1"	2 1/4"	6 1/2"
42"	2'-2 1/2"	9 5/8"	5 1/2"	3'-7 1/8"	1'-9"	1"	2 1/4"	6 1/2"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

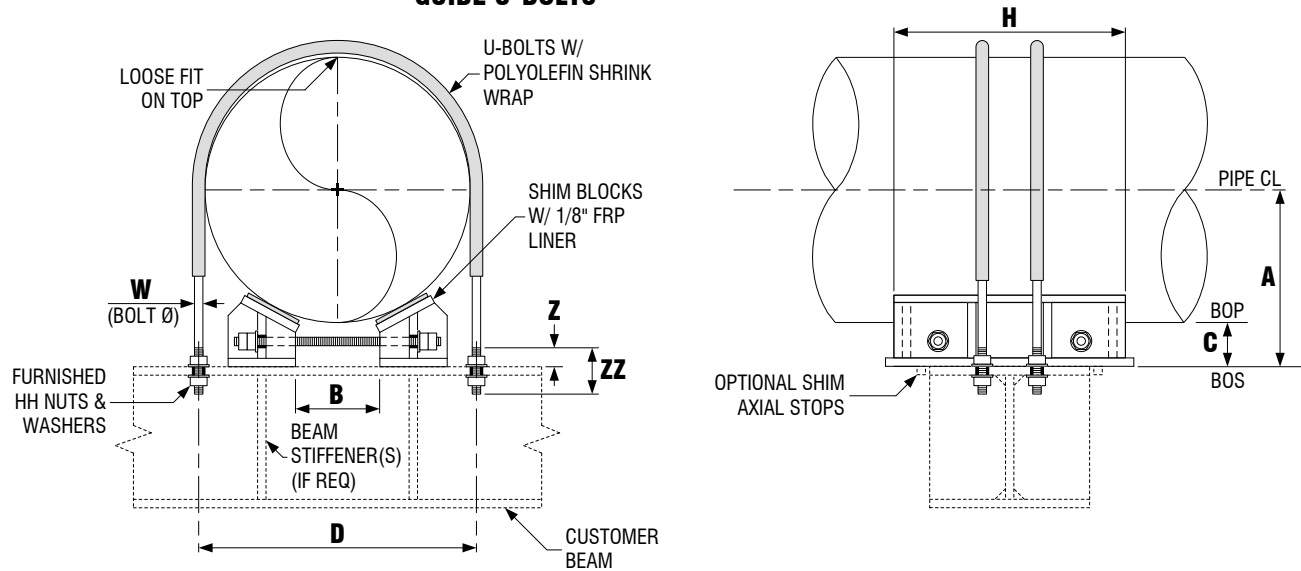
HPS-2203 - -

OPTION CODES

AX - SHIM AXIAL STOPS

FIGURE 2204

**SHIM BLOCKS,
GUIDE U-BOLTS**



NPS	A	B	C	D	H	W	Z	ZZ
10"	9 1/8"	2 11/16"	3 3/4"	11 5/8"	1'-1"	3/4"	2 1/8"	5 1/2"
12"	10 3/16"	2 7/8"	3 13/16"	1'-1 3/4"	1'-1"	7/8"	2 3/8"	6 1/8"
14"	10 13/16"	3 1/4"	3 13/16"	1'-3"	1'-1"	7/8"	2 3/8"	6 1/8"
16"	11 5/8"	4 7/16"	3 5/8"	1'-5"	1'-1"	7/8"	2 3/8"	6 1/8"
18"	1'-0 1/2"	5 3/8"	3 1/2"	1'-7 1/8"	1'-1"	1"	2 1/2"	6 1/2"
20"	1'-2 9/16"	3 9/16"	4 9/16"	1'-9 1/8"	1'-5"	1"	2 1/2"	6 1/2"
24"	1'-4 3/16"	5 7/8"	4 3/16"	2'-1 1/8"	1'-5"	1"	2 1/2"	6 1/2"
30"	1'-8 1/16"	5 7/16"	5 1/16"	2'-7 1/8"	1'-7"	1"	2 1/2"	6 1/2"
36"	1'-10 11/16"	8 5/16"	4 11/16"	3'-1 1/8"	1'-7"	1"	2 1/2"	6 1/2"
42"	2'-2 1/2"	9 5/8"	5 1/2"	3'-7 1/8"	1'-9"	1"	2 1/4"	6 1/2"

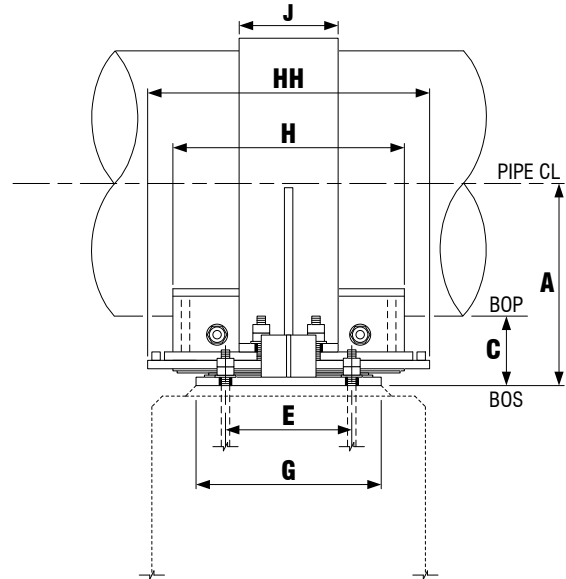
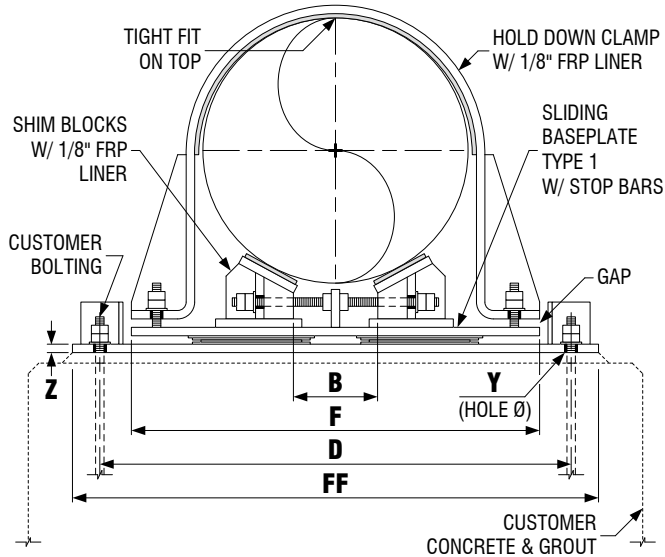
HOW TO ORDER

FIGURE # PIPE NPS OPTIONS
HPS-2204 - -

OPTION CODES

AX - SHIM AXIAL STOPS

FIGURE 2301 SHIM BLOCKS
SLIDING BASEPLATE TYPE 1,
HOLD DOWN CLAMP



NPS	A	B	C	D	E	F	FF	G	H	HH	J	Y	Z
12"	11 11/16"	2 7/8"	5 5/16"	2'-4"	9 1/2"	1'-10"	2'-8 1/2"	1'-2"	1'-1"	1'-3 1/4"	6"	1 1/4"	1/2"
14"	1'-0 5/16"	3 1/4"	5 5/16"	2'-8"	9 1/2"	2'-2"	3'-0 1/2"	1'-2"	1'-1"	1'-3 1/4"	6"	1 1/4"	1/2"
16"	1'-1 1/8"	4 7/16"	5 1/8"	2'-10"	9 1/2"	2'-4"	3'-2 1/2"	1'-2"	1'-1"	1'-3 1/4"	8"	1 1/4"	1/2"
18"	1'-2"	5 3/8"	5"	3'-0"	9 1/2"	2'-6"	3'-4 1/2"	1'-2"	1'-1"	1'-3 1/4"	8"	1 1/4"	1/2"
20"	1'-4 1/16"	3 9/16"	6 1/16"	3'-2"	9 1/2"	2'-8"	3'-6 1/2"	1'-2"	1'-5"	1'-7 1/4"	8"	1 1/4"	1/2"
24"	1'-5 11/16"	5 7/8"	5 11/16"	3'-6"	9 1/2"	3'-0"	3'-10 1/2"	1'-2"	1'-5"	1'-7 1/4"	8"	1 1/4"	1/2"
30"	1'-9 9/16"	5 7/16"	6 9/16"	4'-1"	1'-3 1/2"	3'-7"	4'-5 1/2"	1'-8"	1'-7"	1'-9 1/4"	11"	1 1/2"	1/2"
36"	2'-0 3/16"	8 5/16"	6 3/16"	4'-7"	1'-3 1/2"	4'-1"	4'-11 1/2"	1'-8"	1'-7"	1'-9 1/4"	11"	1 1/2"	1/2"
42"	2'-4"	9 5/8"	7"	5'-2"	1'-6 1/2"	4'-8"	5'-6 1/2"	1'-11"	1'-9"	1'-11 1/4"	1'-0"	1 3/4"	1/2"

HOW TO ORDER

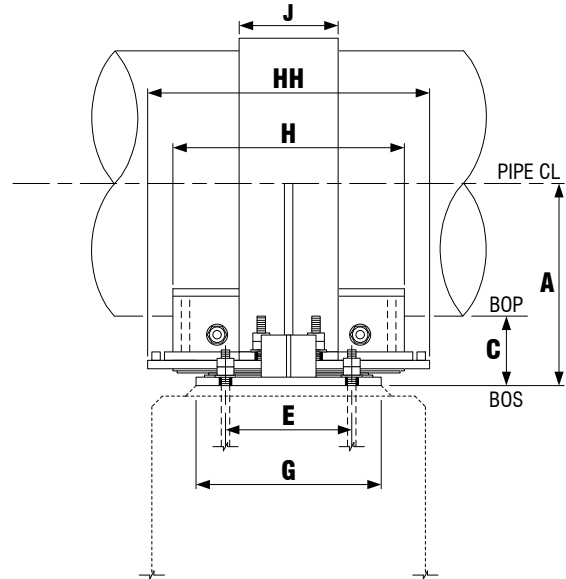
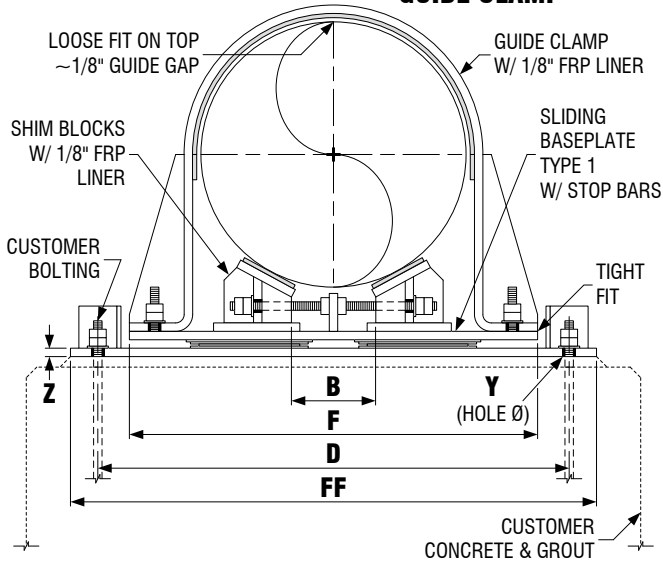
FIGURE # PIPE NPS OPTIONS

HPS-2301

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FIGURE 2302 SHIM BLOCKS
SLIDING BASEPLATE TYPE 1,
GUIDE CLAMP



NPS	A	B	C	D	E	F	FF	G	H	HH	J	Y	Z
12"	11 11/16"	2 7/8"	5 5/16"	2'-4"	9 1/2"	1'-10"	2'-8 1/2"	1'-2"	1'-1"	1'-3 1/4"	6"	1 1/4"	1/2"
14"	1'-0 5/16"	3 1/4"	5 5/16"	2'-8"	9 1/2"	2'-2"	3'-0 1/2"	1'-2"	1'-1"	1'-3 1/4"	6"	1 1/4"	1/2"
16"	1'-1 1/8"	4 7/16"	5 1/8"	2'-10"	9 1/2"	2'-4"	3'-2 1/2"	1'-2"	1'-1"	1'-3 1/4"	8"	1 1/4"	1/2"
18"	1'-2"	5 3/8"	5"	3'-0"	9 1/2"	2'-6"	3'-4 1/2"	1'-2"	1'-1"	1'-3 1/4"	8"	1 1/4"	1/2"
20"	1'-4 1/16"	3 9/16"	6 1/16"	3'-2"	9 1/2"	2'-8"	3'-6 1/2"	1'-2"	1'-5"	1'-7 1/4"	8"	1 1/4"	1/2"
24"	1'-5 11/16"	5 7/8"	5 11/16"	3'-6"	9 1/2"	3'-0"	3'-10 1/2"	1'-2"	1'-5"	1'-7 1/4"	8"	1 1/4"	1/2"
30"	1'-9 9/16"	5 7/16"	6 9/16"	4'-1"	1'-3 1/2"	3'-7"	4'-5 1/2"	1'-8"	1'-7"	1'-9 1/4"	11"	1 1/2"	1/2"
36"	2'-0 3/16"	8 5/16"	6 3/16"	4'-7"	1'-3 1/2"	4'-1"	4'-11 1/2"	1'-8"	1'-7"	1'-9 1/4"	11"	1 1/2"	1/2"
42"	2'-4"	9 5/8"	7"	5'-2"	1'-6 1/2"	4'-8"	5'-6 1/2"	1'-11"	1'-9"	1'-11 1/4"	1'-0"	1 3/4"	1/2"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-2302

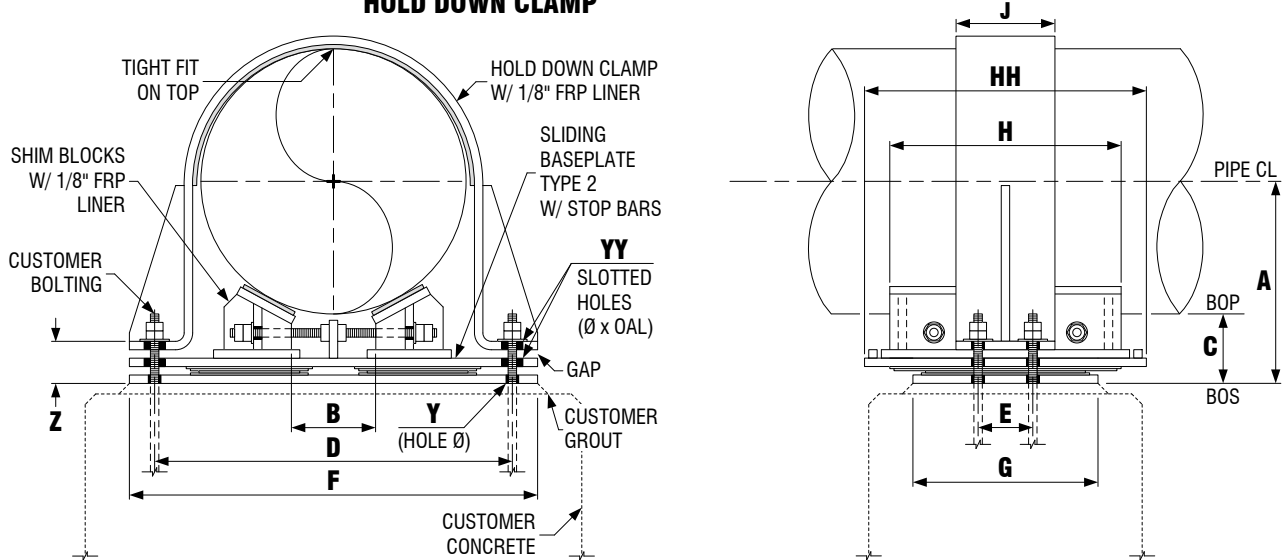
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OPTION CODES

GE - 1/2" GUIDE GAP

**FIGURE 2303 SHIM BLOCKS
SLIDING BASEPLATE TYPE 2,
HOLD DOWN CLAMP**



NPS	A	B	C	D	E	F	G	H	HH	J	Y	YY	Z
12"	11 11/16"	2 7/8"	5 5/16"	1'-6"	3 1/2"	1'-10"	1'-2"	1'-1"	1'-3 1/4"	6"	1 1/4"	1 1/4" x 2 1/4"	2 1/2"
14"	1'-0 5/16"	3 1/4"	5 5/16"	1'-10"	3 1/2"	2'-2"	1'-2"	1'-1"	1'-3 1/4"	6"	1 1/4"	1 1/4" x 2 1/4"	2 1/2"
16"	1'-1 1/8"	4 7/16"	5 1/8"	2'-0"	3 1/2"	2'-4"	1'-2"	1'-1"	1'-3 1/4"	8"	1 1/4"	1 1/4" x 2 1/4"	2 1/2"
18"	1'-2"	5 3/8"	5"	2'-2"	3 1/2"	2'-6"	1'-2"	1'-1"	1'-3 1/4"	8"	1 1/4"	1 1/4" x 2 1/4"	2 1/2"
20"	1'-4 1/16"	3 9/16"	6 1/16"	2'-4"	4"	2'-8"	1'-2"	1'-5"	1'-7 1/4"	8"	1 1/4"	1 1/4" x 2 1/4"	2 5/8"
24"	1'-5 11/16"	5 7/8"	5 11/16"	2'-8"	4"	3'-0"	1'-2"	1'-5"	1'-7 1/4"	8"	1 1/4"	1 1/4" x 2 1/4"	2 5/8"
30"	1'-9 9/16"	5 7/16"	6 9/16"	3'-2"	7"	3'-7"	1'-8"	1'-7"	1'-9 1/4"	11"	1 1/2"	1 1/2" x 2 1/2"	2 5/8"
36"	2'-0 3/16"	8 5/16"	6 3/16"	3'-8"	7"	4'-1"	1'-8"	1'-7"	1'-9 1/4"	11"	1 1/2"	1 1/2" x 2 1/2"	2 5/8"
42"	2'-4"	9 5/8"	7"	4'-2"	7"	4'-8"	1'-11"	1'-9"	1'-11 1/4"	1'-0"	1 3/4"	1 3/4" x 3"	2 3/4"

HOW TO ORDER

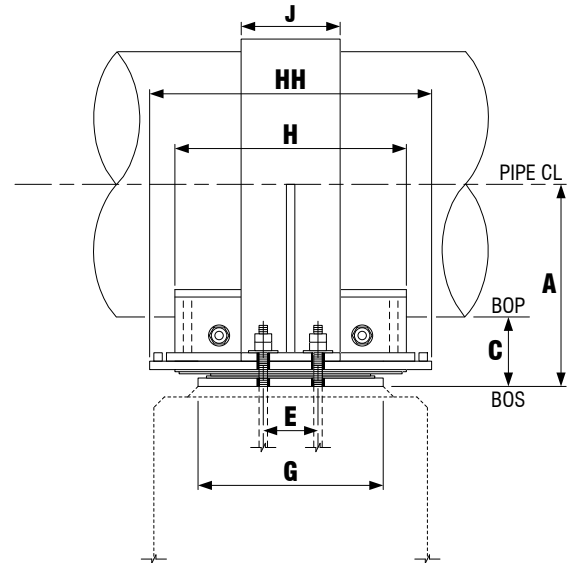
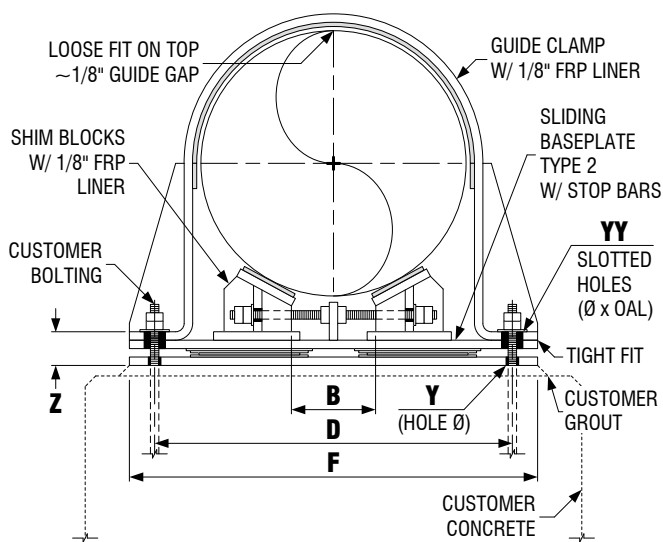
FIGURE # PIPE NPS OPTIONS

HPS-2303

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FIGURE 2304 SHIM BLOCKS
SLIDING BASEPLATE TYPE 2,
GUIDE CLAMP



NPS	A	B	C	D	E	F	G	H	HH	J	Y	YY	Z
12"	11 11/16"	2 7/8"	5 5/16"	1'-6"	3 1/2"	1'-10"	1'-2"	1'-1"	1'-3 1/4"	6"	1 1/4"	1 1/4" x 2 1/4"	2"
14"	1'-0 5/16"	3 1/4"	5 5/16"	1'-10"	3 1/2"	2'-2"	1'-2"	1'-1"	1'-3 1/4"	6"	1 1/4"	1 1/4" x 2 1/4"	2"
16"	1'-1 1/8"	4 7/16"	5 1/8"	2'-0"	3 1/2"	2'-4"	1'-2"	1'-1"	1'-3 1/4"	8"	1 1/4"	1 1/4" x 2 1/4"	2"
18"	1'-2"	5 3/8"	5"	2'-2"	3 1/2"	2'-6"	1'-2"	1'-1"	1'-3 1/4"	8"	1 1/4"	1 1/4" x 2 1/4"	2"
20"	1'-4 1/16"	3 9/16"	6 1/16"	2'-4"	4"	2'-8"	1'-2"	1'-5"	1'-7 1/4"	8"	1 1/4"	1 1/4" x 2 1/4"	2 1/8"
24"	1'-5 11/16"	5 7/8"	5 11/16"	2'-8"	4"	3'-0"	1'-2"	1'-5"	1'-7 1/4"	8"	1 1/4"	1 1/4" x 2 1/4"	2 1/8"
30"	1'-9 9/16"	5 7/16"	6 9/16"	3'-2"	7"	3'-7"	1'-8"	1'-7"	1'-9 1/4"	11"	1 1/2"	1 1/2" x 2 1/2"	2 1/8"
36"	2'-0 3/16"	8 5/16"	6 3/16"	3'-8"	7"	4'-1"	1'-8"	1'-7"	1'-9 1/4"	11"	1 1/2"	1 1/2" x 2 1/2"	2 1/8"
42"	2'-4"	9 5/8"	7"	4'-2"	7"	4'-8"	1'-11"	1'-9"	1'-11 1/4"	1'-0"	1 3/4"	1 3/4" x 3"	2 1/4"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-2304

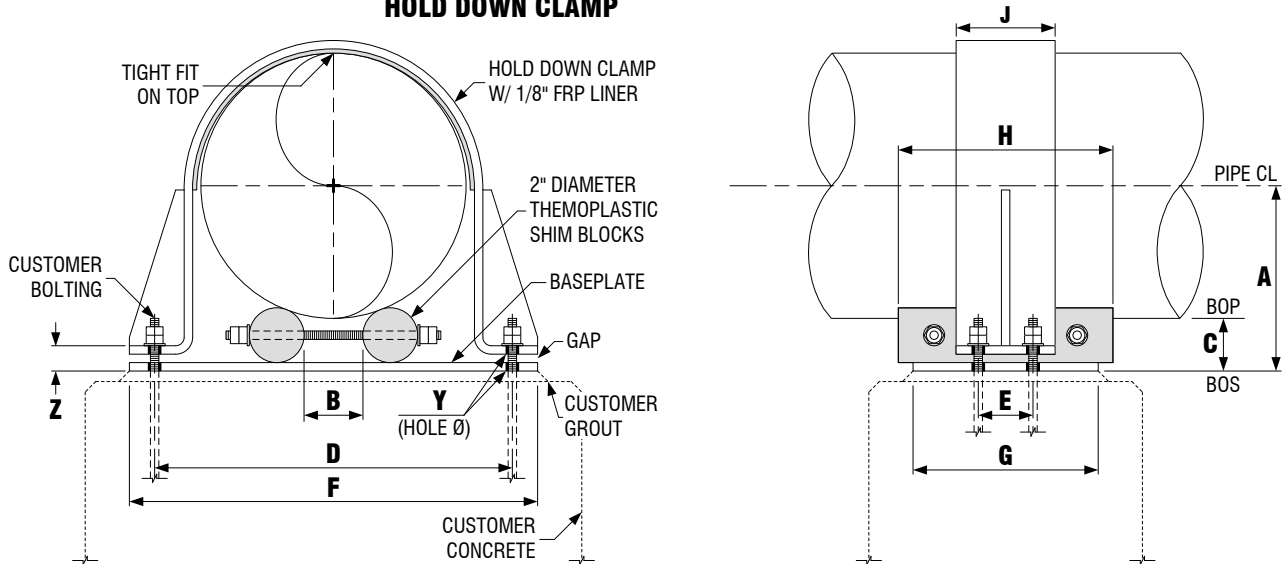
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OPTION CODES

GE - 1/2" GUIDE GAP

FIGURE 2501 **2" PLASTIC SHIM BLOCKS,
BASEPLATE,
HOLD DOWN CLAMP**



NPS	A	B	C	D	E	F	G	H	J	Y	Z
4"	4 3/8"	1/2"	2 1/8"	10"	3 1/2"	1'-1"	10"	1'-0"	6"	7/8"	1 1/8"
6"	5 7/16"	15/16"	2 1/8"	1'-0"	3 1/2"	1'-3"	10"	1'-0"	6"	7/8"	1 1/4"
8"	6 7/16"	1 3/16"	2 1/8"	1'-2"	3 1/2"	1'-5"	10"	1'-0"	6"	1 1/8"	1 3/8"
10"	7 5/8"	7/16"	2 1/4"	1'-4"	3 1/2"	1'-7"	10"	1'-0"	6"	1 1/4"	1 3/8"
12"	8 5/8"	11/16"	2 1/4"	1'-6"	3 1/2"	1'-10"	10"	1'-0"	6"	1 1/4"	1 3/8"
14"	9 1/4"	3/4"	2 1/4"	1'-10"	3 1/2"	2'-2"	10"	1'-0"	6"	1 1/4"	1 3/8"

HOW TO ORDER

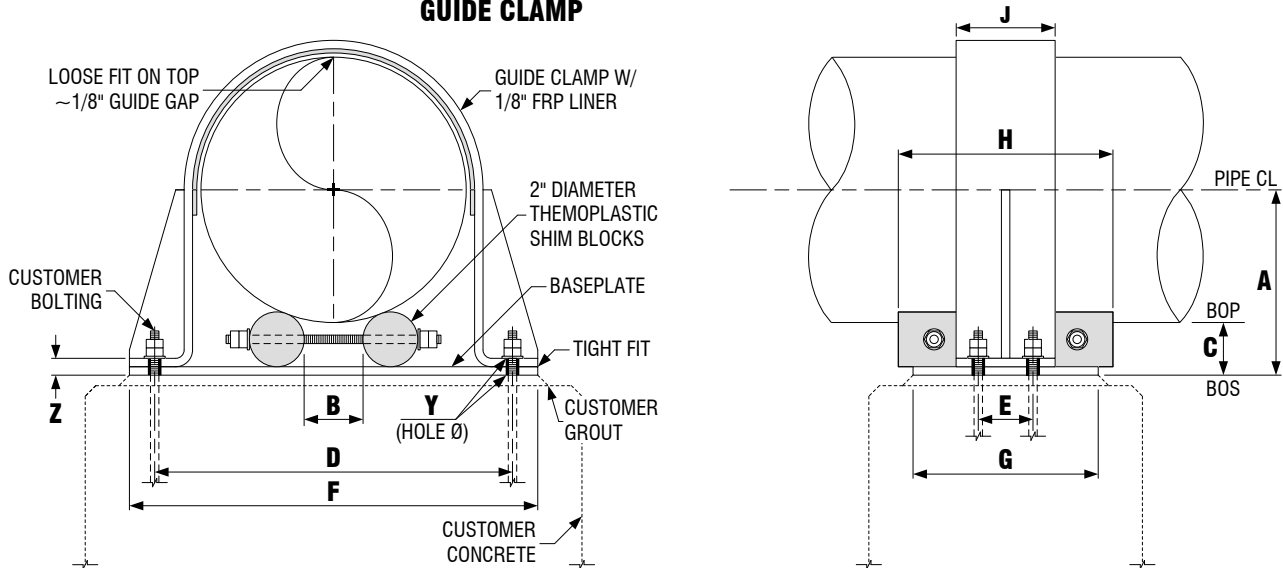
FIGURE # PIPE NPS OPTIONS

HPS-2501

-

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FIGURE 2502 **2" PLASTIC SHIM BLOCKS,
BASEPLATE,
GUIDE CLAMP**



NPS	A	B	C	D	E	F	G	H	J	Y	Z
4"	4 3/8"	1/2"	2 1/8"	10"	3 1/2"	1'-1"	10"	1'-0"	6"	7/8"	5/8"
6"	5 7/16"	15/16"	2 1/8"	1'-0"	3 1/2"	1'-3"	10"	1'-0"	6"	7/8"	3/4"
8"	6 7/16"	1 3/16"	2 1/8"	1'-2"	3 1/2"	1'-5"	10"	1'-0"	6"	1 1/8"	7/8"
10"	7 5/8"	7/16"	2 1/4"	1'-4"	3 1/2"	1'-7"	10"	1'-0"	6"	1 1/4"	7/8"
12"	8 5/8"	11/16"	2 1/4"	1'-6"	3 1/2"	1'-10"	10"	1'-0"	6"	1 1/4"	7/8"
14"	9 1/4"	3/4"	2 1/4"	1'-10"	3 1/2"	2'-2"	10"	1'-0"	6"	1 1/4"	7/8"

HOW TO ORDER

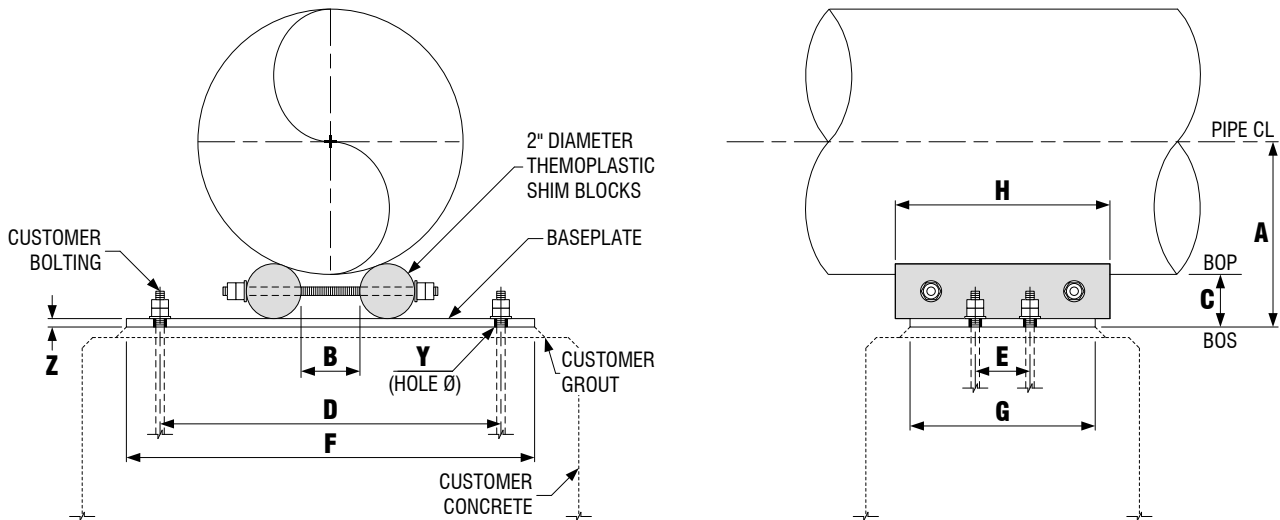
FIGURE # PIPE NPS OPTIONS

HPS-2502 - -

OPTION CODES

GE - 1/2" GUIDE GAP

FIGURE 2503 2" PLASTIC SHIM BLOCKS,
BASEPLATE

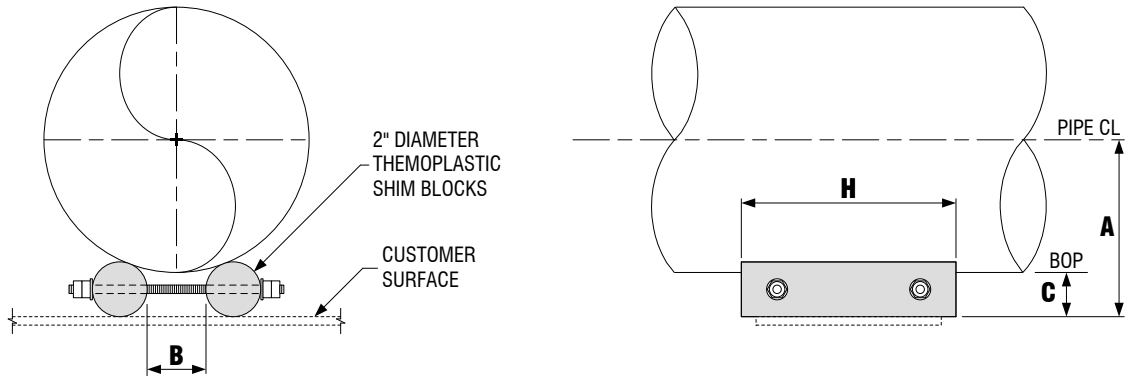


NPS	A	B	C	D	E	F	G	H	Y	Z
2"	3 5/16"	0"	2 1/8"	8 5/8"	3 1/2"	11 5/8"	10"	1'-0"	7/8"	3/8"
3"	3 15/16"	1/8"	2 3/16"	10"	3 1/2"	1'-1"	10"	1'-0"	7/8"	3/8"
4"	4 3/8"	1/2"	2 1/8"	10"	3 1/2"	1'-1"	10"	1'-0"	7/8"	3/8"
6"	5 7/16"	15/16"	2 1/8"	1'-0"	3 1/2"	1'-3"	10"	1'-0"	7/8"	3/8"
8"	6 7/16"	1 3/16"	2 1/8"	1'-2"	3 1/2"	1'-5"	10"	1'-0"	1 1/8"	3/8"
10"	7 5/8"	7/16"	2 1/4"	1'-4"	3 1/2"	1'-7"	10"	1'-0"	1 1/4"	3/8"
12"	8 5/8"	11/16"	2 1/4"	1'-6"	3 1/2"	1'-10"	10"	1'-0"	1 1/4"	3/8"
14"	9 1/4"	3/4"	2 1/4"	1'-10"	3 1/2"	2'-2"	10"	1'-0"	1 1/4"	3/8"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-2503 - -

FIGURE 2504 2" PLASTIC SHIM BLOCKS

NPS	A	B	C	H
2"	2 15/16"	0"	1 3/4"	1'-0"
3"	3 9/16"	1/8"	1 13/16"	1'-0"
4"	4"	1/2"	1 3/4"	1'-0"
6"	5 1/16"	15/16"	1 3/4"	1'-0"
8"	6 1/16"	1 3/16"	1 3/4"	1'-0"
10"	7 1/4"	7/16"	1 7/8"	1'-0"
12"	8 1/4"	11/16"	1 7/8"	1'-0"
14"	8 7/8"	3/4"	1 7/8"	1'-0"

HOW TO ORDER

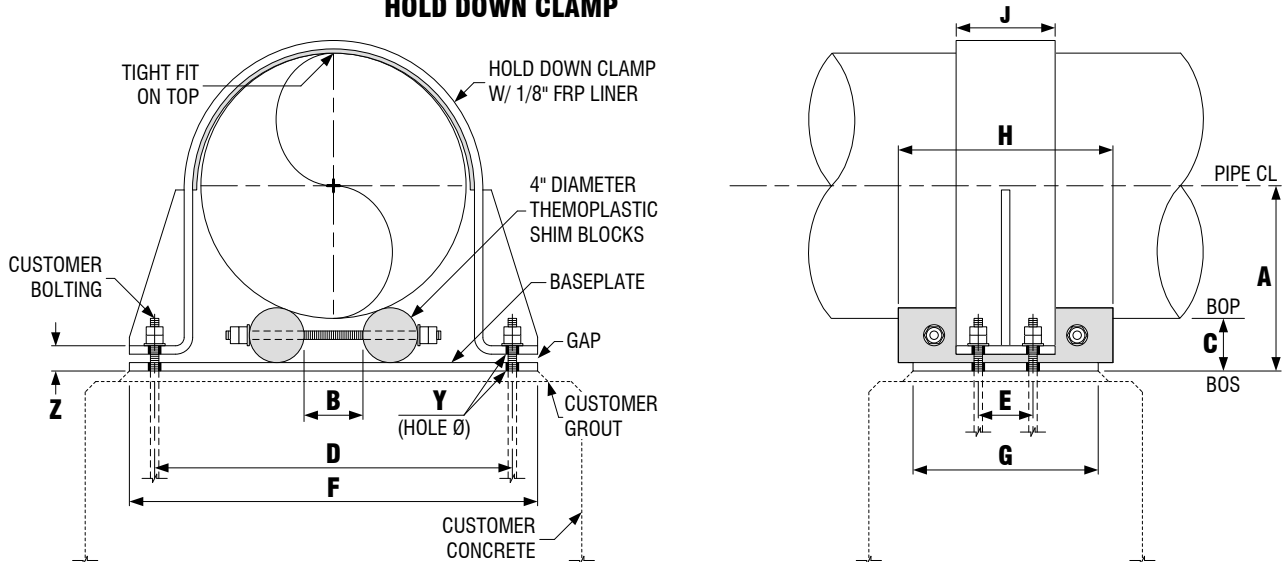
FIGURE # PIPE NPS OPTIONS

HPS-2504

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FIGURE 2521 4" PLASTIC SHIM BLOCKS,
BASEPLATE,
HOLD DOWN CLAMP



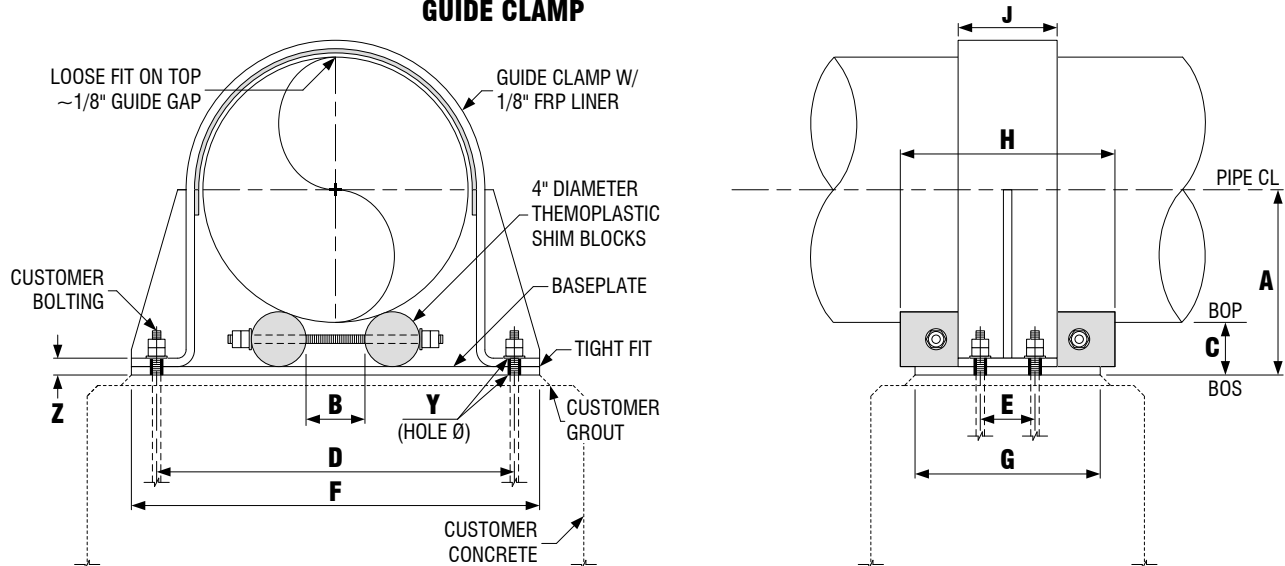
NPS	A	B	C	D	E	F	G	H	J	Y	Z
10"	9 3/16"	1 5/8"	3 13/16"	1'-4"	3 1/2"	1'-7"	10"	1'-0"	6"	1 1/4"	1 3/8"
12"	10 1/8"	2 7/16"	3 3/4"	1'-6"	3 1/2"	1'-10"	10"	1'-0"	6"	1 1/4"	1 3/8"
14"	10 11/16"	2 7/8"	3 11/16"	1'-10"	3 1/2"	2'-2"	10"	1'-0"	6"	1 1/4"	1 3/8"
16"	11 5/8"	3 5/8"	3 5/8"	2'-0"	3 1/2"	2'-4"	10"	1'-1"	8"	1 1/4"	1 3/8"
18"	1'-0 9/16"	4 7/16"	3 9/16"	2'-2"	3 1/2"	2'-6"	10"	1'-1"	8"	1 1/4"	1 3/8"
20"	1'-1 7/16"	5 3/16"	3 7/16"	2'-4"	4"	2'-8"	1'-2"	1'-3"	8"	1 1/4"	1 1/2"
24"	1'-3 5/16"	6 11/16"	3 5/16"	2'-8"	4"	3'-0"	1'-2"	1'-3"	8"	1 1/4"	1 1/2"
30"	1'-6 3/8"	7 5/8"	3 3/8"	3'-2"	7"	3'-7"	1'-4"	1'-6"	11"	1 1/2"	1 1/2"
36"	1'-9 9/16"	8"	3 9/16"	3'-8"	7"	4'-1"	1'-4"	1'-6"	11"	1 1/2"	1 5/8"
42"	2'-0 11/16"	7 15/16"	3 11/16"	4'-2"	7"	4'-8"	1'-6"	1'-9"	1'-0"	1 3/4"	1 3/4"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-2521 - -

FIGURE 2522 4" PLASTIC SHIM BLOCKS,
BASEPLATE,
GUIDE CLAMP



NPS	A	B	C	D	E	F	G	H	J	Y	Z
10"	9 3/16"	1 5/8"	3 13/16"	1'-4"	3 1/2"	1'-7"	10"	1'-0"	6"	1 1/4"	7/8"
12"	10 1/8"	2 7/16"	3 3/4"	1'-6"	3 1/2"	1'-10"	10"	1'-0"	6"	1 1/4"	7/8"
14"	10 11/16"	2 7/8"	3 11/16"	1'-10"	3 1/2"	2'-2"	10"	1'-0"	6"	1 1/4"	7/8"
16"	11 5/8"	3 5/8"	3 5/8"	2'-0"	3 1/2"	2'-4"	10"	1'-1"	8"	1 1/4"	7/8"
18"	1'-0 9/16"	4 7/16"	3 9/16"	2'-2"	3 1/2"	2'-6"	10"	1'-1"	8"	1 1/4"	7/8"
20"	1'-1 7/16"	5 3/16"	3 7/16"	2'-4"	4"	2'-8"	1'-2"	1'-3"	8"	1 1/4"	1"
24"	1'-3 5/16"	6 11/16"	3 5/16"	2'-8"	4"	3'-0"	1'-2"	1'-3"	8"	1 1/4"	1"
30"	1'-6 3/8"	7 5/8"	3 3/8"	3'-2"	7"	3'-7"	1'-4"	1'-6"	11"	1 1/2"	1"
36"	1'-9 9/16"	8"	3 9/16"	3'-8"	7"	4'-1"	1'-4"	1'-6"	11"	1 1/2"	1 1/8"
42"	2'-0 11/16"	7 15/16"	3 11/16"	4'-2"	7"	4'-8"	1'-6"	1'-9"	1'-0"	1 3/4"	1 1/4"

HOW TO ORDER

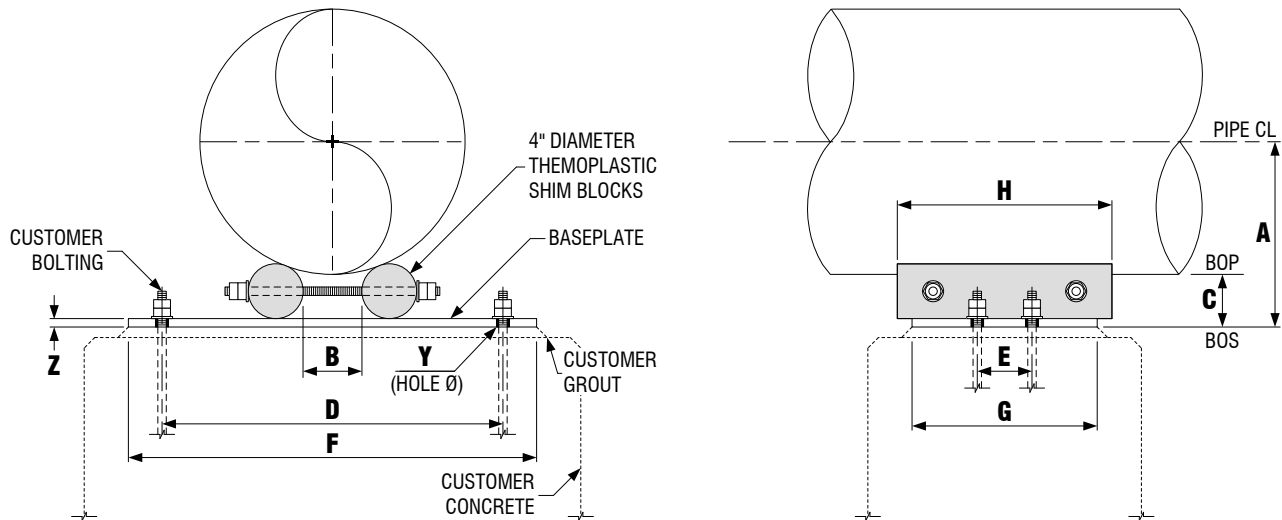
FIGURE # PIPE NPS OPTIONS

HPS-2522 - -

OPTION CODES

GE - 1/2" GUIDE GAP

FIGURE 2523 4" PLASTIC SHIM BLOCKS,
BASEPLATE

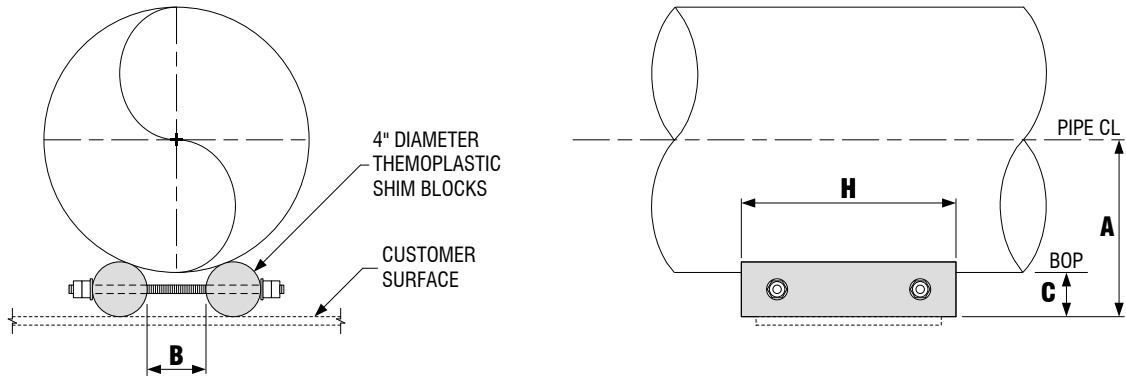


NPS	A	B	C	D	E	F	G	H	Z
10"	9 3/16"	1 5/8"	3 13/16"	1'-4"	3 1/2"	1'-7"	10"	1'-0"	3/8"
12"	10 1/8"	2 7/16"	3 3/4"	1'-6"	3 1/2"	1'-10"	10"	1'-0"	3/8"
14"	10 11/16"	2 7/8"	3 11/16"	1'-10"	3 1/2"	2'-2"	10"	1'-0"	3/8"
16"	11 5/8"	3 5/8"	3 5/8"	2'-0"	3 1/2"	2'-4"	10"	1'-1"	3/8"
18"	1'-0 9/16"	4 7/16"	3 9/16"	2'-2"	3 1/2"	2'-6"	10"	1'-1"	3/8"
20"	1'-1 7/16"	5 3/16"	3 7/16"	2'-4"	4"	2'-8"	1'-2"	1'-3"	3/8"
24"	1'-3 5/16"	6 11/16"	3 5/16"	2'-8"	4"	3'-0"	1'-2"	1'-3"	3/8"
30"	1'-6 3/8"	7 5/8"	3 3/8"	3'-2"	7"	3'-7"	1'-4"	1'-6"	3/8"
36"	1'-9 9/16"	8"	3 9/16"	3'-8"	7"	4'-1"	1'-4"	1'-6"	1/2"
42"	2'-0 11/16"	7 15/16"	3 11/16"	4'-2"	7"	4'-8"	1'-6"	1'-9"	1/2"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS
HPS-2523 - -

FIGURE 2524 4" PLASTIC SHIM BLOCKS

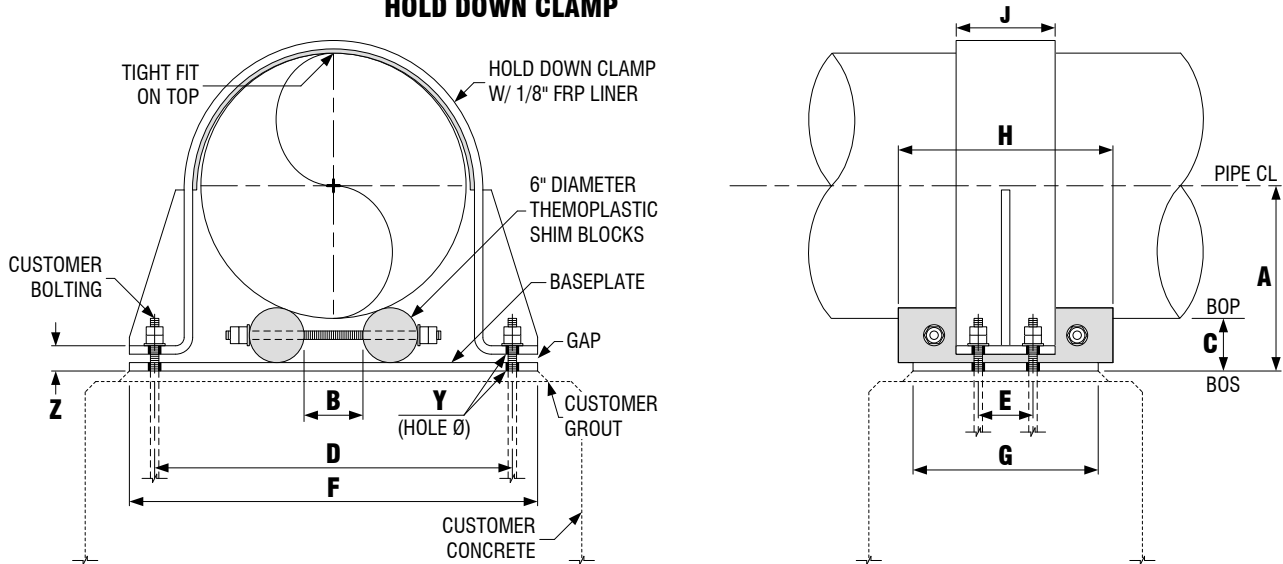


NPS	A	B	C	H
10"	8 13/16"	1 5/8"	3 7/16"	1'-0"
12"	9 3/4"	2 7/16"	3 3/8"	1'-0"
14"	10 5/16"	2 7/8"	3 5/16"	1'-0"
16"	11 1/4"	3 5/8"	3 1/4"	1'-1"
18"	1-0 3/16"	4 7/16"	3 3/16"	1'-1"
20"	1-1 1/16"	5 3/16"	3 1/16"	1'-3"
24"	1-2 15/16"	6 11/16"	2 15/16"	1'-3"
30"	1-6"	7 5/8"	3"	1'-6"
36"	1-9 1/16"	8"	3 1/16"	1'-6"
42"	2-0 3/16"	7 15/16"	3 3/16"	1'-9"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS
HPS-2524 - -

FIGURE 2541 **6" PLASTIC SHIM BLOCKS,
BASEPLATE,
HOLD DOWN CLAMP**



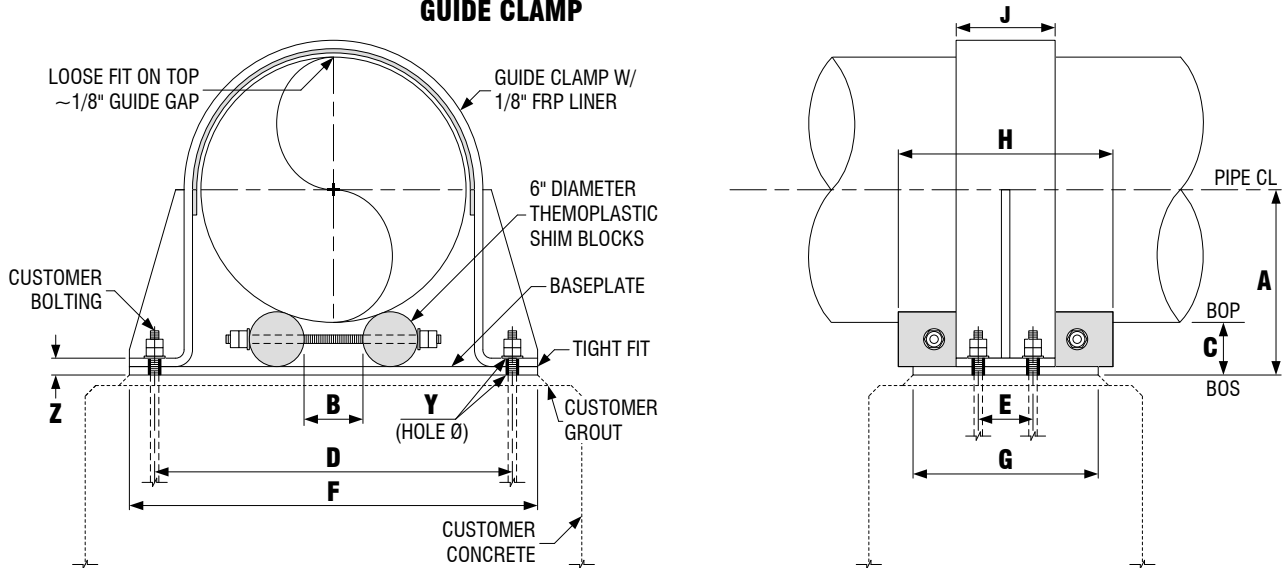
NPS	A	B	C	D	E	F	G	H	J	Y	Z
18"	1'-2 7/16"	3 3/16"	5 7/16"	2'-2"	3 1/2"	2'-6"	10"	1'-1"	8"	1 1/4"	1 3/8"
20"	1'-3 3/8"	3 15/16"	5 3/8"	2'-4"	4"	2'-8"	1'-2"	1'-3"	8"	1 1/4"	1 1/2"
24"	1'-5 1/4"	5 1/2"	5 1/4"	2'-8"	4"	3'-0"	1'-2"	1'-3"	8"	1 1/4"	1 1/2"
30"	1'-8"	7 3/4"	5"	3'-2"	7"	3'-7"	1'-4"	1'-6"	11"	1 1/2"	1 1/2"
36"	1'-10 7/8"	10 1/16"	4 7/8"	3'-8"	7"	4'-1"	1'-4"	1'-6"	11"	1 1/2"	1 5/8"
42"	2'-1 11/16"	1'-0 3/8"	4 11/16"	4'-2"	7"	4'-8"	1'-6"	1'-9"	1'-0"	1 3/4"	1 3/4"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-2541 - -

FIGURE 2542 **6" PLASTIC SHIM BLOCKS,
BASEPLATE,
GUIDE CLAMP**



NPS	A	B	C	D	E	F	G	H	J	Y	Z
18"	1'-2 7/16"	3 3/16"	5 7/16"	2'-2"	3 1/2"	2'-6"	10"	1'-1"	8"	1 1/4"	7/8"
20"	1'-3 3/8"	3 15/16"	5 3/8"	2'-4"	4"	2'-8"	1'-2"	1'-3"	8"	1 1/4"	1"
24"	1'-5 1/4"	5 1/2"	5 1/4"	2'-8"	4"	3'-0"	1'-2"	1'-3"	8"	1 1/4"	1"
30"	1'-8"	7 3/4"	5"	3'-2"	7"	3'-7"	1'-4"	1'-6"	11"	1 1/2"	1"
36"	1'-10 7/8"	10 1/16"	4 7/8"	3'-8"	7"	4'-1"	1'-4"	1'-6"	11"	1 1/2"	1 1/8"
42"	2'-1 11/16"	1'-0 3/8"	4 11/16"	4'-2"	7"	4'-8"	1'-6"	1'-9"	1'-0"	1 3/4"	1 1/4"

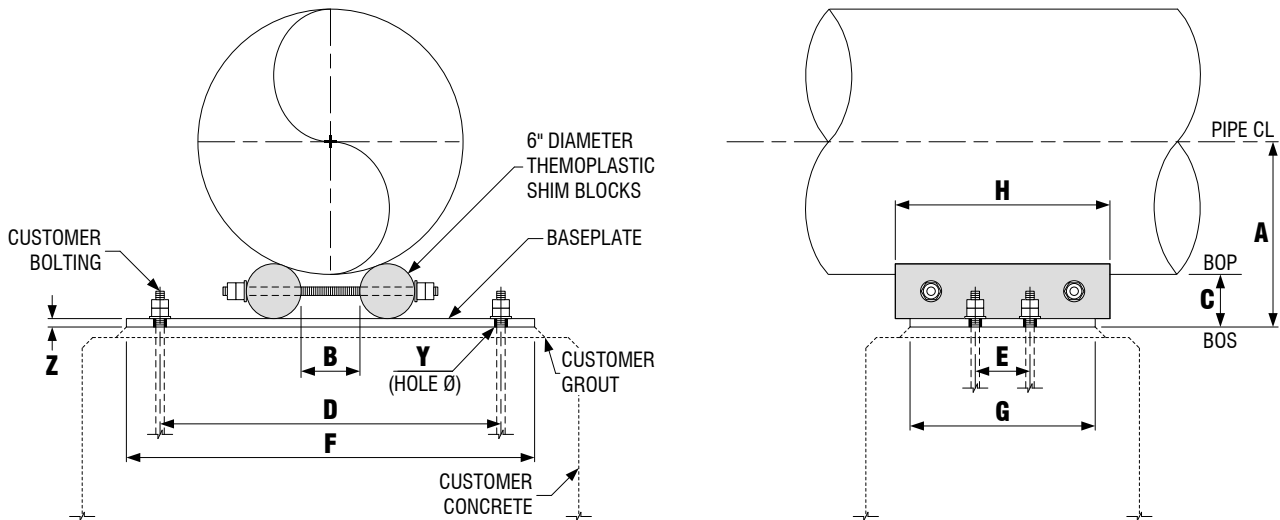
HOW TO ORDER

FIGURE # PIPE NPS OPTIONS
HPS-2542 - -

OPTION CODES

GE - 1/2" GUIDE GAP

FIGURE 2543 6" PLASTIC SHIM BLOCKS,
BASEPLATE

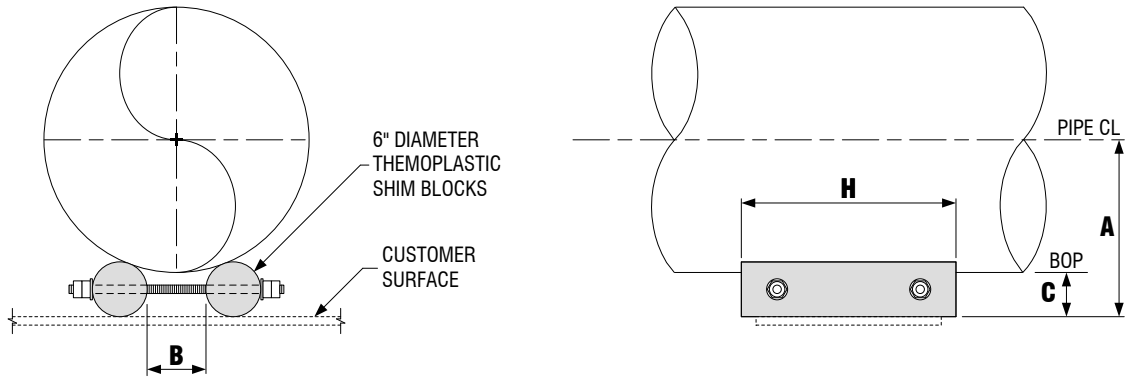


NPS	A	B	C	D	E	F	G	H	Y	Z
18"	1'-2 7/16"	3 3/16"	5 7/16"	2'-2"	3 1/2"	2'-6"	10"	1'-1"	1 1/4"	3/8"
20"	1'-3 3/8"	3 15/16"	5 3/8"	2'-4"	4"	2'-8"	1'-2"	1'-3"	1 1/4"	3/8"
24"	1'-5 1/4"	5 1/2"	5 1/4"	2'-8"	4"	3'-0"	1'-2"	1'-3"	1 1/4"	3/8"
30"	1'-8"	7 3/4"	5"	3'-2"	7"	3'-7"	1'-4"	1'-6"	1 1/2"	3/8"
36"	1'-10 7/8"	10 1/16"	4 7/8"	3'-8"	7"	4'-1"	1'-4"	1'-6"	1 1/2"	1/2"
42"	2'-1 11/16"	1'-0 3/8"	4 11/16"	4'-2"	7"	4'-8"	1'-6"	1'-9"	1 3/4"	1/2"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-2543 - -

FIGURE 2544 6" PLASTIC SHIM BLOCKS

NPS	A	B	C	H
18"	1'-2 1/16"	3 3/16"	5 1/16"	1'-1"
20"	1'-3"	3 15/16"	5"	1'-3"
24"	1'-4 7/8"	5 1/2"	4 7/8"	1'-3"
30"	1'-7 5/8"	7 3/4"	4 5/8"	1'-6"
36"	1'-10 3/8"	10 1/16"	4 3/8"	1'-6"
42"	2'-1 3/16"	1'-0 3/8"	4 3/16"	1'-9"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

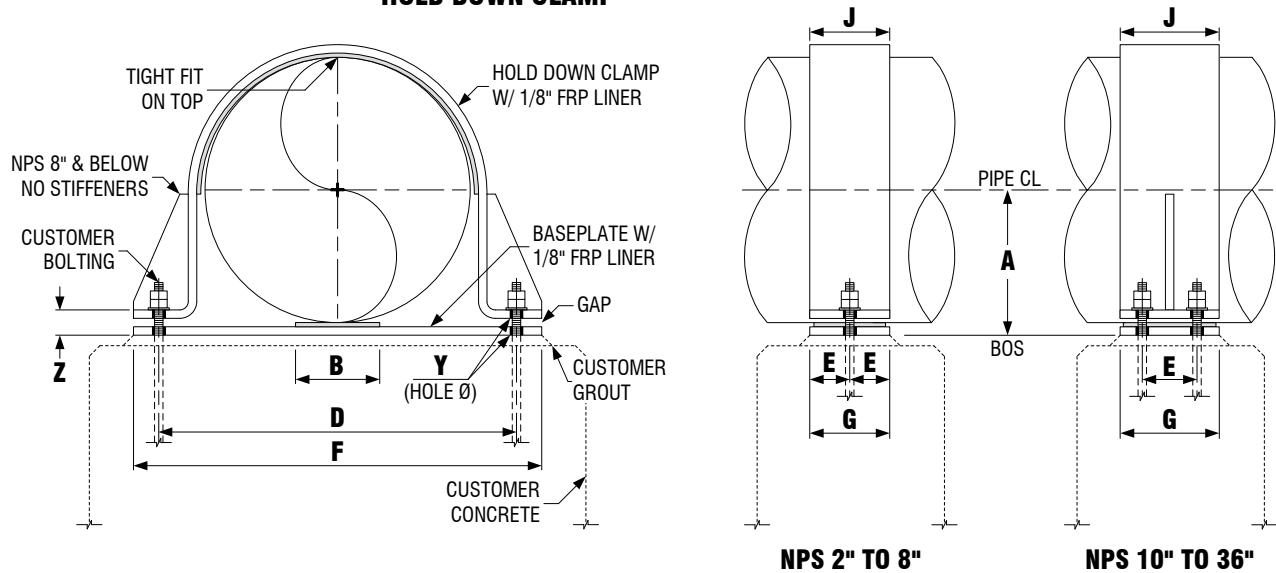
HPS-2544

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FIGURE 3001

**BASEPLATE,
HOLD DOWN CLAMP**



NPS	A	B	D	E	F	G	J	Y	Z
2"	1 9/16"	2"	7"	1 1/2"	10"	3"	3"	7/8"	1"
3"	2 1/8"	3"	7 1/4"	3"	10 1/4"	6"	6"	7/8"	1"
4"	2 5/8"	4"	8"	3"	11"	6"	6"	7/8"	1"
6"	3 11/16"	4"	10"	3"	1'-1"	6"	6"	7/8"	1 1/8"
8"	4 11/16"	5"	1'-0"	3"	1'-3"	6"	6"	7/8"	1 1/8"
10"	5 7/8"	6"	1'-6 1/4"	6"	1'-9 1/4"	9"	9"	1 1/8"	1 3/8"
12"	6 7/8"	6"	1'-6 1/4"	6"	1'-9 1/4"	9"	9"	1 1/8"	1 3/8"
14"	7 1/2"	6"	1'-7 1/4"	6"	1'-11 1/4"	10"	10"	1 1/8"	1 3/8"
16"	8 1/2"	6"	1'-9"	6"	2'-1"	10"	10"	1 1/8"	1 3/8"
18"	9 1/2"	8"	2'-2"	7"	2'-7 1/4"	1'-0"	1'-0"	1 1/8"	1 3/8"
20"	10 1/2"	8"	2'-4"	7"	2'-9 1/4"	1'-0"	1'-0"	1 1/8"	1 3/8"
24"	1'-0 1/2"	8"	2'-8"	7"	3'-1 1/4"	1'-0"	1'-0"	1 1/8"	1 3/8"
30"	1'-3 1/2"	10"	3'-1"	7"	3'-7 1/4"	1'-0"	1'-0"	1 1/8"	1 1/2"
36"	1'-6 1/2"	12"	3'-8"	7"	4'-1"	1'-0"	1'-0"	1 1/8"	1 1/2"

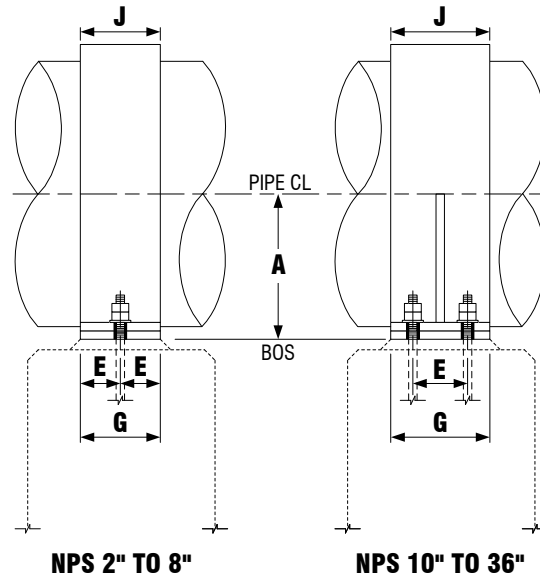
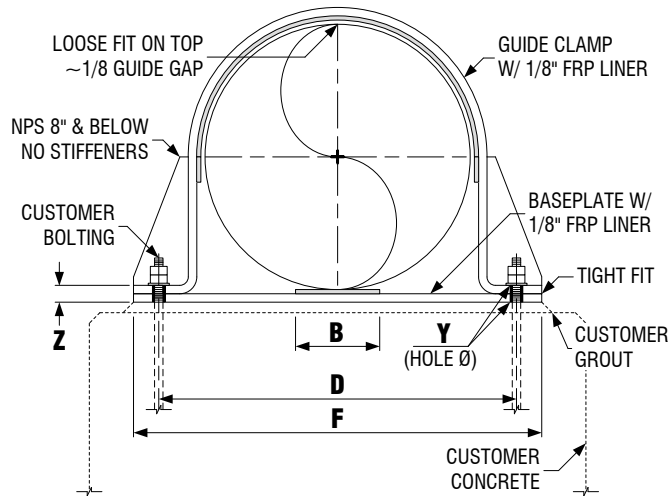
HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-3001 - -

FIGURE 3002

**BASEPLATE,
GUIDE CLAMP**



NPS	A	B	D	E	F	G	J	Y	Z
2"	1 9/16"	2"	7"	1 1/2"	10"	3"	3"	7/8"	1/2"
3"	2 1/8"	3"	7 1/4"	3"	10 1/4"	6"	6"	7/8"	1/2"
4"	2 5/8"	4"	8"	3"	11"	6"	6"	7/8"	1/2"
6"	3 11/16"	4"	10"	3"	1'-1"	6"	6"	7/8"	5/8"
8"	4 11/16"	5"	1'-0"	3"	1'-3"	6"	6"	7/8"	5/8"
10"	5 7/8"	6"	1'-6 1/4"	6"	1'-9 1/4"	9"	9"	1 1/8"	7/8"
12"	6 7/8"	6"	1'-6 1/4"	6"	1'-9 1/4"	9"	9"	1 1/8"	7/8"
14"	7 1/2"	6"	1'-7 1/4"	6"	1'-11 1/4"	10"	10"	1 1/8"	7/8"
16"	8 1/2"	6"	1'-9"	6"	2'-1"	10"	10"	1 1/8"	7/8"
18"	9 1/2"	8"	2'-2"	7"	2'-7 1/4"	1'-0"	1'-0"	1 1/8"	7/8"
20"	10 1/2"	8"	2'-4"	7"	2'-9 1/4"	1'-0"	1'-0"	1 1/8"	7/8"
24"	1'-0 1/2"	8"	2'-8"	7"	3'-1 1/4"	1'-0"	1'-0"	1 1/8"	7/8"
30"	1'-3 1/2"	10"	3'-1"	7"	3'-7 1/4"	1'-0"	1'-0"	1 1/8"	1"
36"	1'-6 1/2"	12"	3'-8"	7"	4'-1"	1'-0"	1'-0"	1 1/8"	1"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

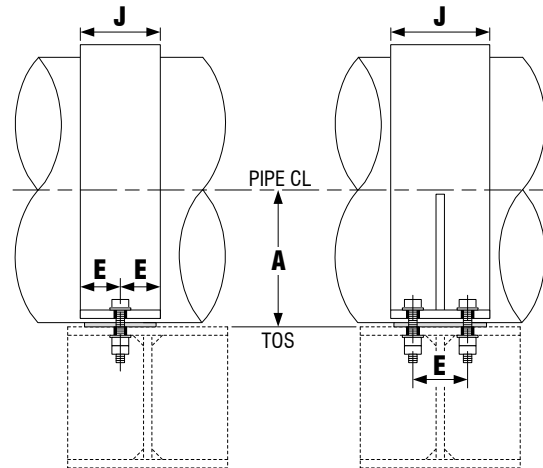
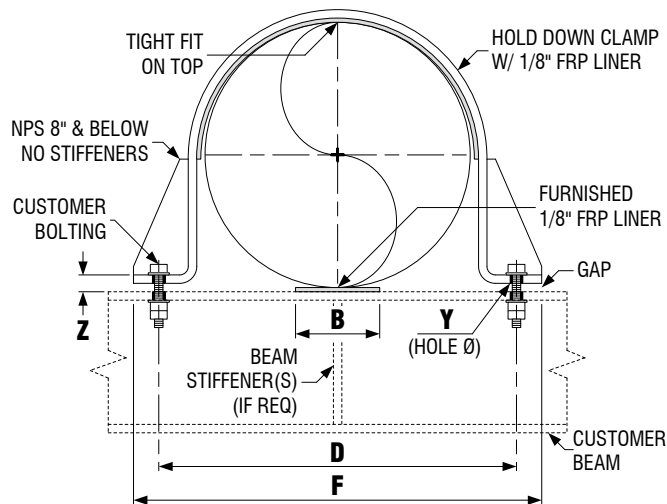
HPS-3002 - -

OPTION CODES

GE - 1/2" GUIDE GAP

FIGURE 3003

**FRP LINER,
HOLD DOWN CLAMP**



NPS 2" TO 8"

NPS 10" TO 36"

NPS	A	B	D	E	F	J	Y	Z
2"	1 9/16"	2"	7"	1 1/2"	10"	3"	7/8"	3/4"
3"	2 1/8"	3"	7 1/4"	3"	10 1/4"	6"	7/8"	3/4"
4"	2 5/8"	4"	8"	3"	11"	6"	7/8"	3/4"
6"	3 11/16"	4"	10"	3"	1'-1"	6"	7/8"	7/8"
8"	4 11/16"	5"	1'-0"	3"	1'-3"	6"	7/8"	7/8"
10"	5 7/8"	6"	1'-6 1/4"	6"	1'-9 1/4"	9"	1 1/8"	1"
12"	6 7/8"	6"	1'-6 1/4"	6"	1'-9 1/4"	9"	1 1/8"	1"
14"	7 1/2"	6"	1'-7 1/4"	6"	1'-11 1/4"	10"	1 1/8"	1"
16"	8 1/2"	6"	1'-9"	6"	2'-1"	10"	1 1/8"	1"
18"	9 1/2"	8"	2'-2"	7"	2'-7 1/4"	1'-0"	1 1/8"	1"
20"	10 1/2"	8"	2'-4"	7"	2'-9 1/4"	1'-0"	1 1/8"	1"
24"	1'-0 1/2"	8"	2'-8"	7"	3'-1 1/4"	1'-0"	1 1/8"	1"
30"	1'-3 1/2"	10"	3'-1"	7"	3'-7 1/4"	1'-0"	1 1/8"	1 1/8"
36"	1'-6 1/2"	12"	3'-8"	7"	4'-1"	1'-0"	1 1/8"	1 1/8"

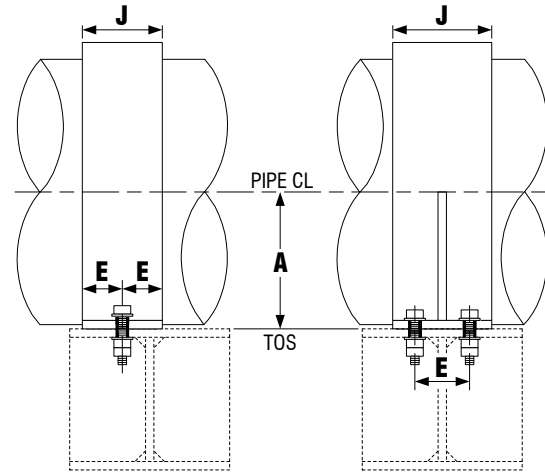
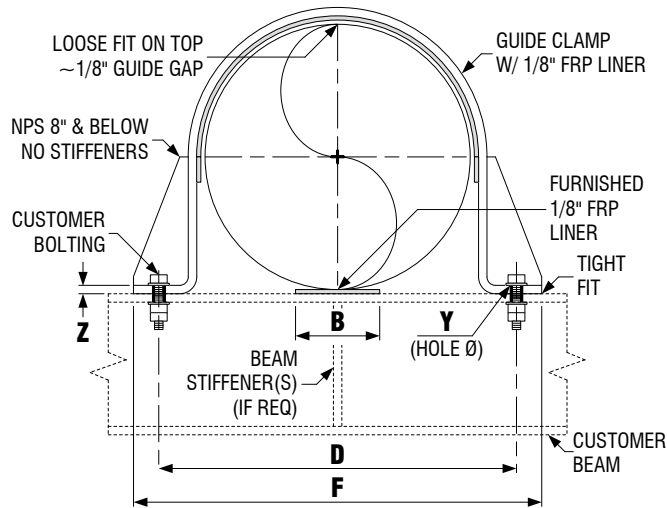
HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-3003 - -

FIGURE 3004

**FRP LINER,
GUIDE CLAMP**



NPS 2" TO 8"

NPS 10" TO 36"

NPS	A	B	D	E	F	J	Y	Z
2"	1 9/16"	2"	7"	1 1/2"	10"	3"	7/8"	1/4"
3"	2 1/8"	3"	7 1/4"	3"	10 1/4"	6"	7/8"	1/4"
4"	2 5/8"	4"	8"	3"	11"	6"	7/8"	1/4"
6"	3 11/16"	4"	10"	3"	1'-1"	6"	7/8"	3/8"
8"	4 11/16"	5"	1'-0"	3"	1'-3"	6"	7/8"	3/8"
10"	5 7/8"	6"	1'-6 1/4"	6"	1'-9 1/4"	9"	1 1/8"	1/2"
12"	6 7/8"	6"	1'-6 1/4"	6"	1'-9 1/4"	9"	1 1/8"	1/2"
14"	7 1/2"	6"	1'-7 1/4"	6"	1'-11 1/4"	10"	1 1/8"	1/2"
16"	8 1/2"	6"	1'-9"	6"	2'-1"	10"	1 1/8"	1/2"
18"	9 1/2"	8"	2'-2"	7"	2'-7 1/4"	1'-0"	1 1/8"	1/2"
20"	10 1/2"	8"	2'-4"	7"	2'-9 1/4"	1'-0"	1 1/8"	1/2"
24"	1'-0 1/2"	8"	2'-8"	7"	3'-1 1/4"	1'-0"	1 1/8"	1/2"
30"	1'-3 1/2"	10"	3'-1"	7"	3'-7 1/4"	1'-0"	1 1/8"	5/8"
36"	1'-6 1/2"	12"	3'-8"	7"	4'-1"	1'-0"	1 1/8"	5/8"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

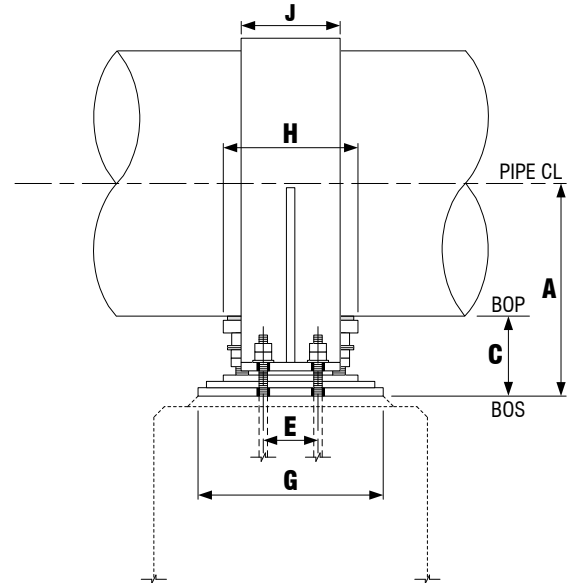
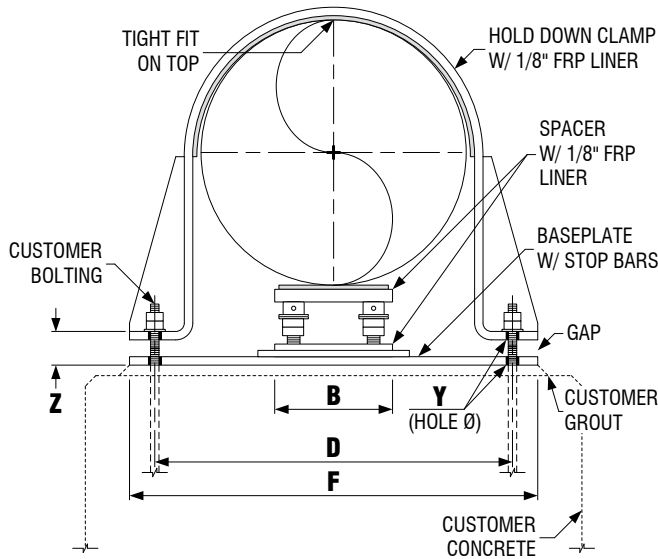
HPS-3004 - -

OPTION CODES

GE - 1/2" GUIDE GAP

FIGURE 3501

**SPACER, BASEPLATE,
HOLD DOWN CLAMP**



NPS	A-MAX	A-TYP	A-MIN	B	C-MAX	C-TYP	C-MIN	D	E	F	G	H	J	Y	Z-MAX
6"	10 11/16"	10 1/16"	9 7/16"	6"	7 3/8"	6 3/4"	6 1/8"	1'-0"	3 1/2"	1'-3"	10"	6"	6"	7/8"	2 1/2"
8"	11 11/16"	11 1/16"	10 7/16"	6"	7 3/8"	6 3/4"	6 1/8"	1'-2"	3 1/2"	1'-5"	10"	6"	6"	1 1/8"	2 5/8"
10"	1'-0 3/4"	1'-0 1/8"	11 1/2"	6"	7 3/8"	6 3/4"	6 1/8"	1'-4"	3 1/2"	1'-7"	10"	6"	6"	1 1/4"	2 5/8"
12"	1'-1 3/4"	1'-1 1/8"	1'-0 1/2"	8"	7 3/8"	6 3/4"	6 1/8"	1'-6"	3 1/2"	1'-10"	10"	7 3/4"	6"	1 1/4"	2 5/8"
14"	1'-2 3/8"	1'-1 3/4"	1'-1 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	1'-10"	3 1/2"	2'-2"	10"	7 3/4"	6"	1 1/4"	2 5/8"
16"	1'-3 3/8"	1'-2 3/4"	1'-2 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	2'-0"	3 1/2"	2'-4"	10"	7 3/4"	8"	1 1/4"	2 5/8"
18"	1'-4 3/8"	1'-3 3/4"	1'-3 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	2'-2"	3 1/2"	2'-6"	10"	7 3/4"	8"	1 1/4"	2 5/8"
20"	1'-5 3/8"	1'-4 3/4"	1'-4 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	2'-4"	4"	2'-8"	1'-2"	9"	8"	1 1/4"	2 3/4"
24"	1'-7 3/8"	1'-6 3/4"	1'-6 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	2'-8"	4"	3'-0"	1'-2"	9"	8"	1 1/4"	2 3/4"
30"	1'-10 3/8"	1'-9 3/4"	1'-9 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	3'-2"	7"	3'-7"	1'-4"	9"	11"	1 1/2"	2 3/4"
36"	2'-1 1/2"	2'-0 7/8"	2'-0 1/4"	8"	7 1/2"	6 7/8"	6 1/4"	3'-8"	7"	4'-1"	1'-4"	9"	11"	1 1/2"	2 7/8"
42"	2'-4 1/2"	2'-3 7/8"	2'-3 1/4"	1'-0"	7 1/2"	6 7/8"	6 1/4"	4'-2"	7"	4'-8"	1'-6"	9"	1'-0"	1 3/4"	3"
48"	2'-7 1/2"	2'-6 7/8"	2'-6 1/4"	1'-0"	7 1/2"	6 7/8"	6 1/4"	4'-8"	7"	5'-2"	1'-6"	9"	1'-0"	1 3/4"	3"
54"	2'-10 1/2"	2'-9 7/8"	2'-9 1/4"	1'-0"	7 1/2"	6 7/8"	6 1/4"	5'-4"	NOTE 1	6'-0"	1'-6"	9"	1'-4"	1 3/4"	3"

HOW TO ORDER

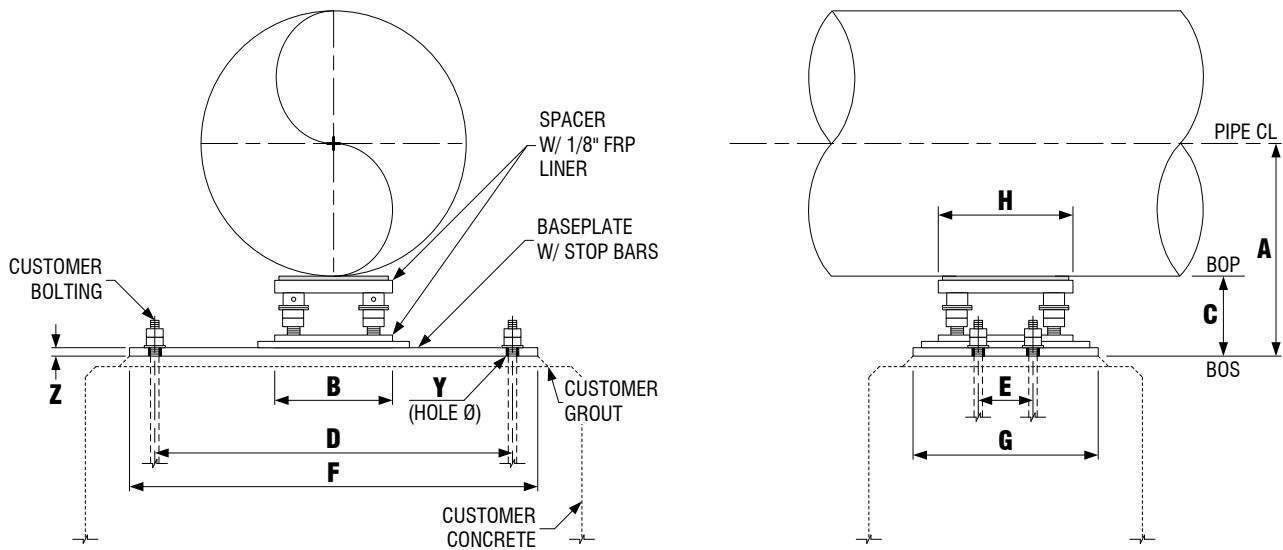
FIGURE # PIPE NPS OPTIONS

HPS-3501 - -

NOTES

1. (3) AB HOLES W/ 5" C-C's

FIGURE 3503 SPACER, BASEPLATE



NPS	A-MAX	A-TYP	A-MIN	B	C-MAX	C-TYP	C-MIN	D	E	F	G	H	Y	Z
6"	10 11/16"	10 1/16"	9 7/16"	6"	7 3/8"	6 3/4"	6 1/8"	1'-0"	3 1/2"	1'-3"	10"	6"	7/8"	3/8"
8"	11 11/16"	11 1/16"	10 7/16"	6"	7 3/8"	6 3/4"	6 1/8"	1'-2"	3 1/2"	1'-5"	10"	6"	1 1/8"	3/8"
10"	1'-0 3/4"	1'-0 1/8"	11 1/2"	6"	7 3/8"	6 3/4"	6 1/8"	1'-4"	3 1/2"	1'-7"	10"	6"	1 1/4"	3/8"
12"	1'-1 3/4"	1'-1 1/8"	1'-0 1/2"	8"	7 3/8"	6 3/4"	6 1/8"	1'-6"	3 1/2"	1'-10"	10"	7 3/4"	1 1/4"	3/8"
14"	1'-2 3/8"	1'-1 3/4"	1'-1 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	1'-10"	3 1/2"	2'-2"	10"	7 3/4"	1 1/4"	3/8"
16"	1'-3 3/8"	1'-2 3/4"	1'-2 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	2'-0"	3 1/2"	2'-4"	10"	7 3/4"	1 1/4"	3/8"
18"	1'-4 3/8"	1'-3 3/4"	1'-3 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	2'-2"	3 1/2"	2'-6"	10"	7 3/4"	1 1/4"	3/8"
20"	1'-5 3/8"	1'-4 3/4"	1'-4 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	2'-4"	4"	2'-8"	1'-2"	9"	1 1/4"	3/8"
24"	1'-7 3/8"	1'-6 3/4"	1'-6 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	2'-8"	4"	3'-0"	1'-2"	9"	1 1/4"	3/8"
30"	1'-10 3/8"	1'-9 3/4"	1'-9 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	3'-2"	7"	3'-7"	1'-4"	9"	1 1/2"	3/8"
36"	2'-1 1/2"	2'-0 7/8"	2'-0 1/4"	8"	7 1/2"	6 7/8"	6 1/4"	3'-8"	7"	4'-1"	1'-4"	9"	1 1/2"	1/2"
42"	2'-4 1/2"	2'-3 7/8"	2'-3 1/4"	1'-0"	7 1/2"	6 7/8"	6 1/4"	4'-2"	7"	4'-8"	1'-6"	9"	1 3/4"	1/2"
48"	2'-7 1/2"	2'-6 7/8"	2'-6 1/4"	1'-0"	7 1/2"	6 7/8"	6 1/4"	4'-8"	7"	5'-2"	1'-6"	9"	1 3/4"	1/2"
54"	2'-10 1/2"	2'-9 7/8"	2'-9 1/4"	1'-0"	7 1/2"	6 7/8"	6 1/4"	5'-4"	NOTE 1	6'-0"	1'-6"	9"	1 3/4"	1/2"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-3503

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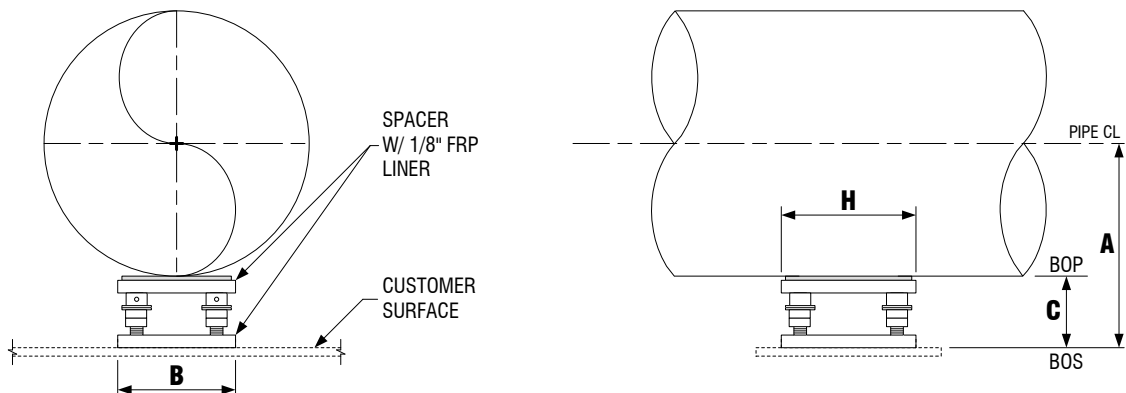
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NOTES

1. (3) AB HOLES W/ 5" C-C's

FIGURE 3504

SPACER



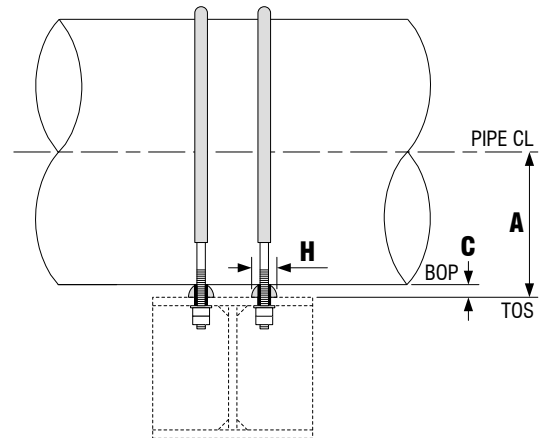
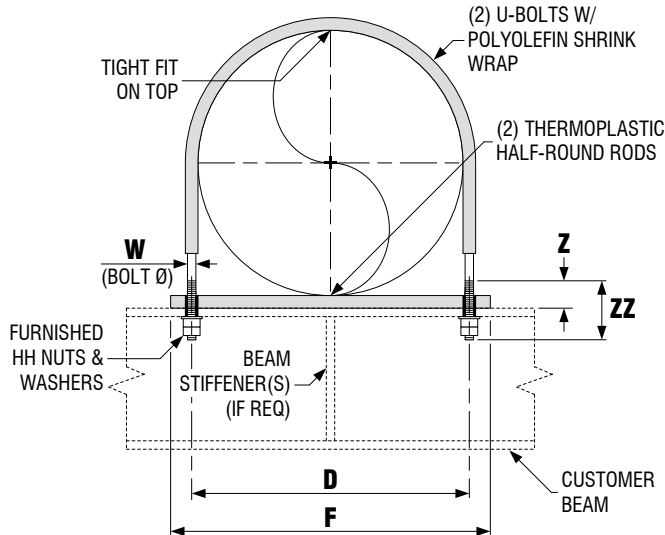
NPS	A-MAX	A-TYP	A-MIN	B	C-MAX	C-TYP	C-MIN	H
6"	10 11/16"	10 1/16"	9 7/16"	6"	7 3/8"	6 3/4"	6 1/8"	6"
8"	11 11/16"	11 1/16"	10 7/16"	6"	7 3/8"	6 3/4"	6 1/8"	6"
10"	1'-0 3/4"	1'-0 1/8"	11 1/2"	6"	7 3/8"	6 3/4"	6 1/8"	6"
12"	1'-1 3/4"	1'-1 1/8"	1'-0 1/2"	8"	7 3/8"	6 3/4"	6 1/8"	7 3/4"
14"	1'-2 3/8"	1'-1 3/4"	1'-1 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	7 3/4"
16"	1'-3 3/8"	1'-2 3/4"	1'-2 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	7 3/4"
18"	1'-4 3/8"	1'-3 3/4"	1'-3 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	7 3/4"
20"	1'-5 3/8"	1'-4 3/4"	1'-4 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	9"
24"	1'-7 3/8"	1'-6 3/4"	1'-6 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	9"
30"	1'-10 3/8"	1'-9 3/4"	1'-9 1/8"	8"	7 3/8"	6 3/4"	6 1/8"	9"
36"	2'-1 1/2"	2'-0 7/8"	2'-0 1/4"	8"	7 1/2"	6 7/8"	6 1/4"	9"
42"	2'-4 1/2"	2'-3 7/8"	2'-3 1/4"	1'-0"	7 1/2"	6 7/8"	6 1/4"	9"
48"	2'-7 1/2"	2'-6 7/8"	2'-6 1/4"	1'-0"	7 1/2"	6 7/8"	6 1/4"	9"
54"	2'-10 1/2"	2'-9 7/8"	2'-9 1/4"	1'-0"	7 1/2"	6 7/8"	6 1/4"	9"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-3504 - - -

FIGURE 4001 (2) HALF ROUND RODS,
(2) HOLD DOWN U-BOLTS



NPS	A	C	D	F	H	W	Z	ZZ
1/2"	3/4"	5/16"	1 3/16"	2 1/2"	3/4"	1/4"	5/16"	2 3/8"
3/4"	13/16"	5/16"	1 3/8"	3"	3/4"	1/4"	1/2"	2 3/8"
1"	1"	5/16"	1 5/8"	3"	3/4"	1/4"	5/8"	2 3/8"
1 1/2"	1 3/8"	7/16"	2 3/8"	4"	1"	3/8"	7/8"	2 1/2"
2"	1 5/8"	7/16"	2 13/16"	4 1/2"	1"	3/8"	7/8"	2 1/2"
3"	2 3/16"	7/16"	4 1/16"	6"	1"	1/2"	1 3/16"	3"
4"	2 11/16"	7/16"	5 1/16"	7"	1"	1/2"	1 3/16"	3"
6"	3 3/4"	7/16"	7 3/8"	9"	1"	5/8"	1 3/8"	3 3/4"
8"	4 3/4"	7/16"	9 3/8"	11"	1"	5/8"	1 3/8"	3 3/4"
10"	6 1/16"	11/16"	11 5/8"	1'-1 1/2"	1 1/2"	3/4"	1 11/16"	4"
12"	7 1/16"	11/16"	1'-1 3/4"	1'-4"	1 1/2"	7/8"	1 11/16"	4 1/4"
14"	7 11/16"	11/16"	1'-3"	1'-5"	1 1/2"	7/8"	1 11/16"	4 1/4"
16"	8 11/16"	11/16"	1'-5"	1'-7"	1 1/2"	7/8"	1 11/16"	4 1/4"
18"	9 11/16"	11/16"	1'-7 1/8"	1'-9 1/2"	1 1/2"	1"	1 13/16"	4 3/4"
20"	10 11/16"	11/16"	1'-9 1/8"	1'-11 1/2"	1 1/2"	1"	1 13/16"	4 3/4"
24"	1'-0 11/16"	11/16"	2'-1 1/8"	2'-3 1/2"	1 1/2"	1"	1 13/16"	4 3/4"
30"	1'-3 11/16"	11/16"	2'-7 1/8"	2'-9 1/2"	1 1/2"	1"	1 13/16"	4 3/4"
36"	1'-6 11/16"	11/16"	3'-1 1/8"	3'-3 1/2"	1 1/2"	1"	1 13/16"	4 3/4"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

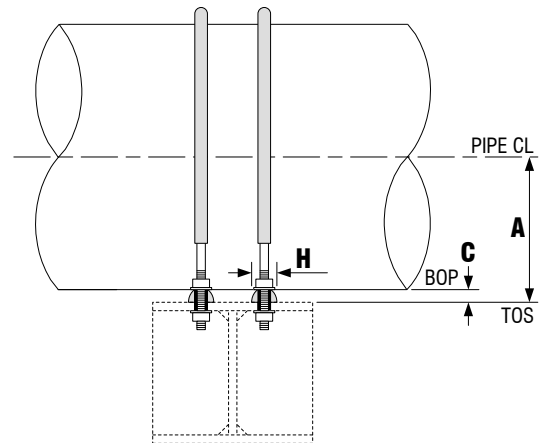
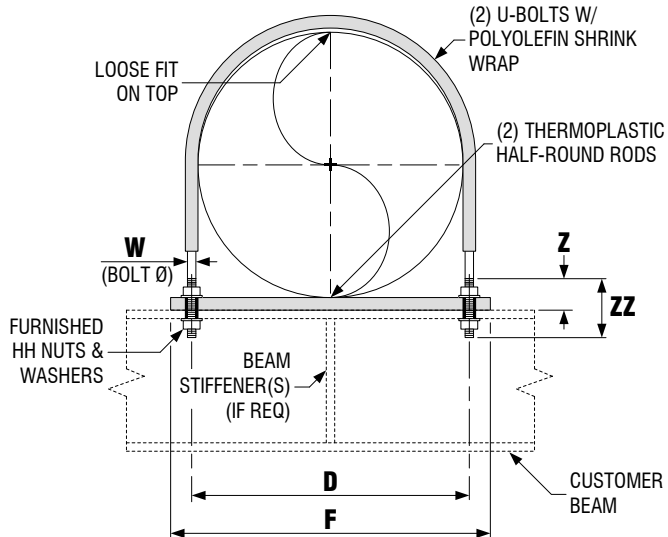
HPS-4001

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FIGURE 4002

**(2) HALF ROUND RODS,
(2) GUIDE U-BOLTS**



NPS	A	C	D	F	H	W	Z	ZZ
2"	1 5/8"	7/16"	2 13/16"	4 1/2"	1"	3/8"	1"	2 1/2"
3"	2 3/16"	7/16"	4 1/16"	6"	1"	1/2"	1 5/16"	3"
4"	2 11/16"	7/16"	5 1/16"	7"	1"	1/2"	1 5/16"	3"
6"	3 3/4"	7/16"	7 3/8"	9"	1"	5/8"	1 1/2"	3 3/4"
8"	4 3/4"	7/16"	9 3/8"	11"	1"	5/8"	1 1/2"	3 3/4"
10"	6 1/16"	11/16"	11 5/8"	1'-1 1/2"	1 1/2"	3/4"	1 13/16"	4"
12"	7 1/16"	11/16"	1'-1 3/4"	1'-4"	1 1/2"	7/8"	1 13/16"	4 1/4"
14"	7 11/16"	11/16"	1'-3"	1'-5"	1 1/2"	7/8"	1 13/16"	4 1/4"
16"	8 11/16"	11/16"	1'-5"	1'-7"	1 1/2"	7/8"	1 13/16"	4 1/4"
18"	9 11/16"	11/16"	1'-7 1/8"	1'-9 1/2"	1 1/2"	1"	1 15/16"	4 3/4"
20"	10 11/16"	11/16"	1'-9 1/8"	1'-11 1/2"	1 1/2"	1"	1 15/16"	4 3/4"
24"	1'-0 11/16"	11/16"	2'-1 1/8"	2'-3 1/2"	1 1/2"	1"	1 15/16"	4 3/4"
30"	1'-3 11/16"	11/16"	2'-7 1/8"	2'-9 1/2"	1 1/2"	1"	1 15/16"	4 3/4"
36"	1'-6 11/16"	11/16"	3'-1 1/8"	3'-3 1/2"	1 1/2"	1"	1 15/16"	4 3/4"

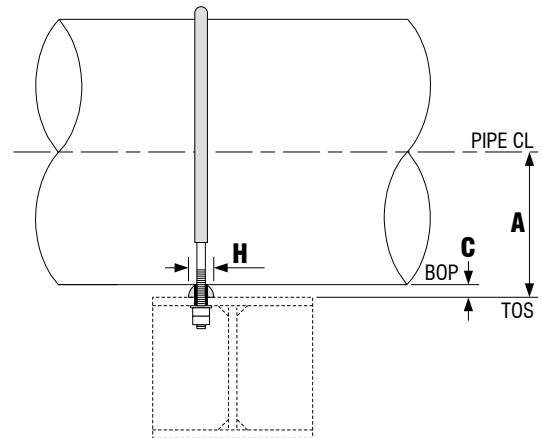
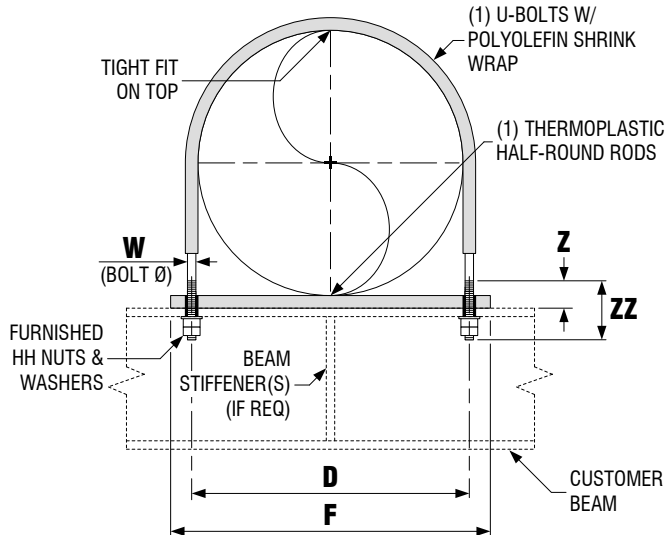
HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-4002 - -

FIGURE 4003

(1) HALF ROUND ROD,
(1) HOLD DOWN U-BOLT



NPS	A	C	D	F	H	W	Z	ZZ
1/2"	3/4"	5/16"	1 3/16"	2 1/2"	3/4"	1/4"	5/16"	2 3/8"
3/4"	13/16"	5/16"	1 3/8"	3"	3/4"	1/4"	1/2"	2 3/8"
1"	1"	5/16"	1 5/8"	3"	3/4"	1/4"	5/8"	2 3/8"
1 1/2"	1 3/8"	7/16"	2 3/8"	4"	1"	3/8"	7/8"	2 1/2"
2"	1 5/8"	7/16"	2 13/16"	4 1/2"	1"	3/8"	7/8"	2 1/2"
3"	2 3/16"	7/16"	4 1/16"	6"	1"	1/2"	1 3/16"	3"
4"	2 11/16"	7/16"	5 1/16"	7"	1"	1/2"	1 3/16"	3"
6"	3 3/4"	7/16"	7 3/8"	9"	1"	5/8"	1 3/8"	3 3/4"
8"	4 3/4"	7/16"	9 3/8"	11"	1"	5/8"	1 3/8"	3 3/4"
10"	6 1/16"	11/16"	11 5/8"	1'-1 1/2"	1 1/2"	3/4"	1 11/16"	4"
12"	7 1/16"	11/16"	1'-1 3/4"	1'-4"	1 1/2"	7/8"	1 11/16"	4 1/4"
14"	7 11/16"	11/16"	1'-3"	1'-5"	1 1/2"	7/8"	1 11/16"	4 1/4"
16"	8 11/16"	11/16"	1'-5"	1'-7"	1 1/2"	7/8"	1 11/16"	4 1/4"
18"	9 11/16"	11/16"	1'-7 1/8"	1'-9 1/2"	1 1/2"	1"	1 13/16"	4 3/4"
20"	10 11/16"	11/16"	1'-9 1/8"	1'-11 1/2"	1 1/2"	1"	1 13/16"	4 3/4"
24"	1'-0 11/16"	11/16"	2'-1 1/8"	2'-3 1/2"	1 1/2"	1"	1 13/16"	4 3/4"
30"	1'-3 11/16"	11/16"	2'-7 1/8"	2'-9 1/2"	1 1/2"	1"	1 13/16"	4 3/4"
36"	1'-6 11/16"	11/16"	3'-1 1/8"	3'-3 1/2"	1 1/2"	1"	1 13/16"	4 3/4"

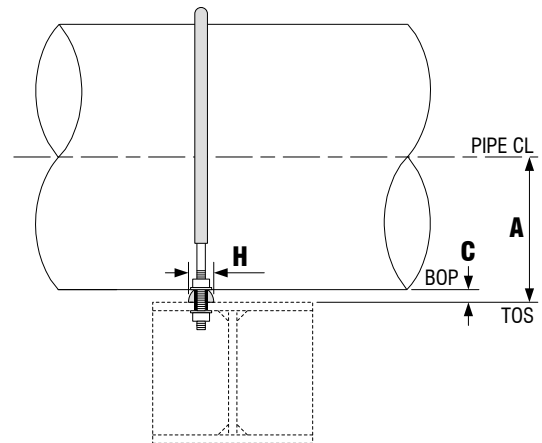
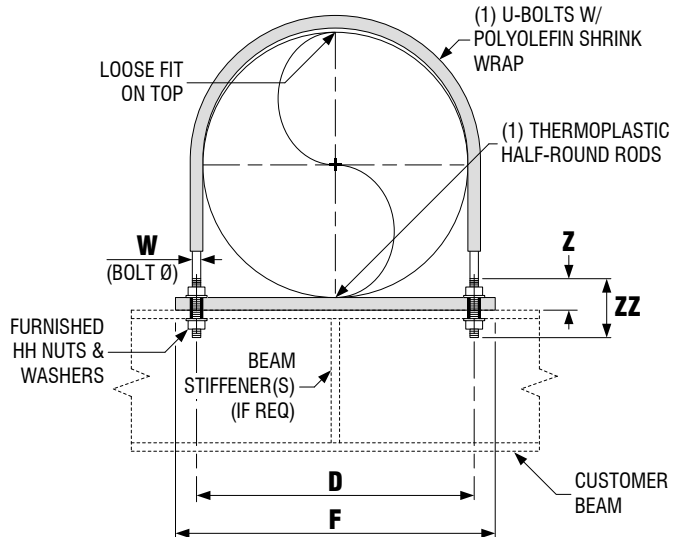
HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-4003 - -

FIGURE 4004

(1) HALF ROUND ROD,
(1) GUIDE U-BOLT



NPS	A	C	D	F	H	W	Z	ZZ
2"	1 5/8"	7/16"	2 13/16"	4 1/2"	1"	3/8"	1"	2 1/2"
3"	2 3/16"	7/16"	4 1/16"	6"	1"	1/2"	1 5/16"	3"
4"	2 11/16"	7/16"	5 1/16"	7"	1"	1/2"	1 5/16"	3"
6"	3 3/4"	7/16"	7 3/8"	9"	1"	5/8"	1 1/2"	3 3/4"
8"	4 3/4"	7/16"	9 3/8"	11"	1"	5/8"	1 1/2"	3 3/4"
10"	6 1/16"	11/16"	11 5/8"	1'-1 1/2"	1 1/2"	3/4"	1 13/16"	4"
12"	7 1/16"	11/16"	1'-1 3/4"	1'-4"	1 1/2"	7/8"	1 13/16"	4 1/4"
14"	7 11/16"	11/16"	1'-3"	1'-5"	1 1/2"	7/8"	1 13/16"	4 1/4"
16"	8 11/16"	11/16"	1'-5"	1'-7"	1 1/2"	7/8"	1 13/16"	4 1/4"
18"	9 11/16"	11/16"	1'-7 1/8"	1'-9 1/2"	1 1/2"	1"	1 15/16"	4 3/4"
20"	10 11/16"	11/16"	1'-9 1/8"	1'-11 1/2"	1 1/2"	1"	1 15/16"	4 3/4"
24"	1'-0 11/16"	11/16"	2'-1 1/8"	2'-3 1/2"	1 1/2"	1"	1 15/16"	4 3/4"
30"	1'-3 11/16"	11/16"	2'-7 1/8"	2'-9 1/2"	1 1/2"	1"	1 15/16"	4 3/4"
36"	1'-6 11/16"	11/16"	3'-1 1/8"	3'-3 1/2"	1 1/2"	1"	1 15/16"	4 3/4"

HOW TO ORDER

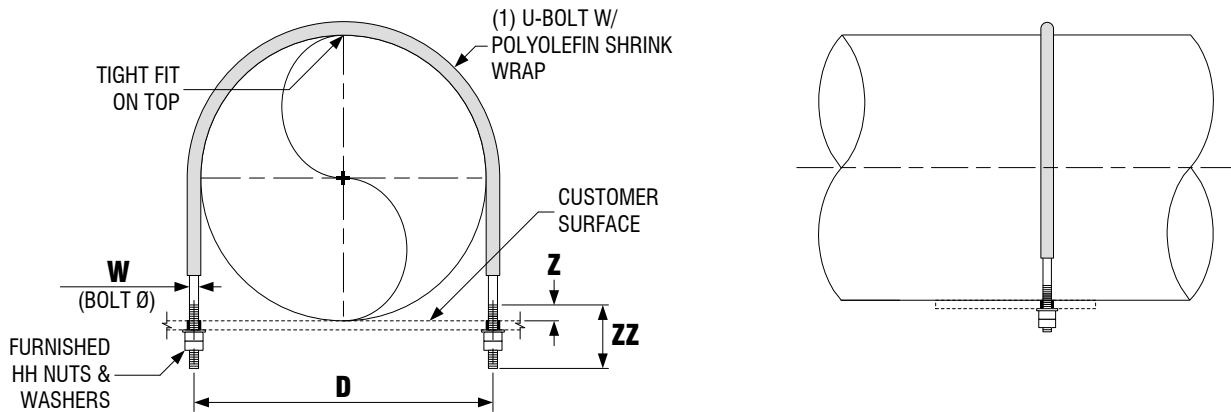
FIGURE # PIPE NPS OPTIONS

HPS-4004

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FIGURE 4005 (1) HOLD DOWN U-BOLT

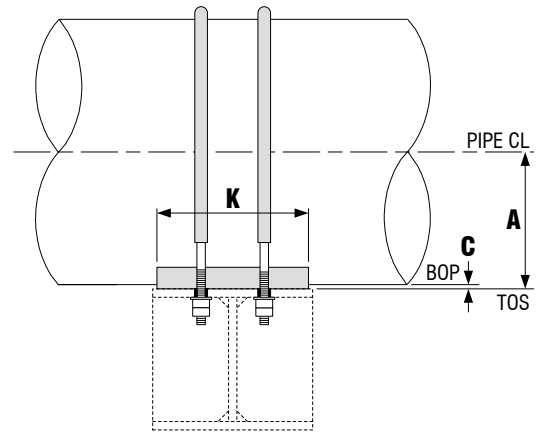
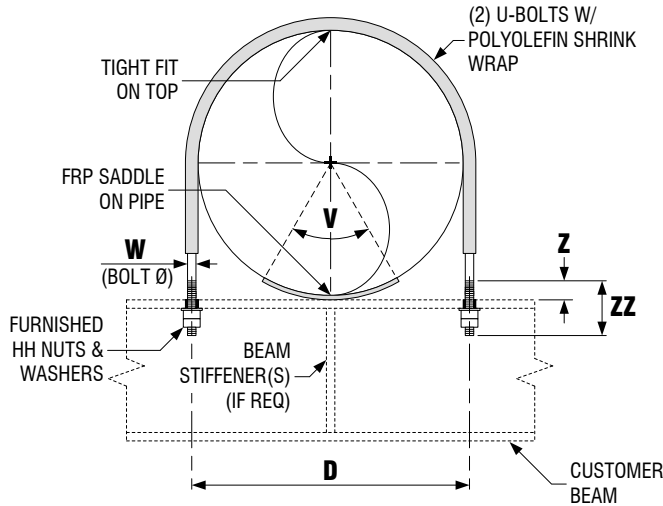


NPS	D	W	Z	ZZ
1/2"	1 3/16"	1/4"	0"	2 3/8"
3/4"	1 3/8"	1/4"	3/16"	2 3/8"
1"	1 5/8"	1/4"	5/16"	2 3/8"
1 1/2"	2 3/8"	3/8"	7/16"	2 1/2"
2"	2 13/16"	3/8"	7/16"	2 1/2"
3"	4 1/16"	1/2"	3/4"	3"
4"	5 1/16"	1/2"	3/4"	3"
6"	7 3/8"	5/8"	15/16"	3 3/4"
8"	9 3/8"	5/8"	15/16"	3 3/4"
10"	11 5/8"	3/4"	1"	4"
12"	1'-1 3/4"	7/8"	1"	4 1/4"
14"	1'-3"	7/8"	1"	4 1/4"
16"	1'-5"	7/8"	1"	4 1/4"
18"	1'-7 1/8"	1"	1 1/8"	4 3/4"
20"	1'-9 1/8"	1"	1 1/8"	4 3/4"
24"	2'-1 1/8"	1"	1 1/8"	4 3/4"
30"	2'-7 1/8"	1"	1 1/8"	4 3/4"
36"	3'-1 1/8"	1"	1 1/8"	4 3/4"

HOW TO ORDER

FIGURE #	PIPE NPS	OPTIONS
HPS-4005	-	-

FIGURE 4101

FRP SADDLE,
(2) HOLD DOWN U-BOLTS


NPS	A	C	D	K	V	W	Z	ZZ
1/2"	11/16"	1/4"	1 3/16"	1'-0"	90°	1/4"	1/4"	2 3/8"
3/4"	3/4"	1/4"	1 3/8"	1'-0"	90°	1/4"	7/16"	2 3/8"
1"	15/16"	1/4"	1 5/8"	1'-0"	90°	1/4"	9/16"	2 3/8"
1 1/2"	1 3/16"	1/4"	2 3/8"	1'-0"	90°	3/8"	11/16"	2 1/2"
2"	1 7/16"	1/4"	2 13/16"	1'-0"	90°	3/8"	11/16"	2 1/2"
3"	2"	1/4"	4 1/16"	1'-0"	90°	1/2"	1"	3"
4"	2 1/2"	1/4"	5 1/16"	1'-0"	90°	1/2"	1"	3"
6"	3 9/16"	1/4"	7 3/8"	1'-0"	60°	5/8"	1 3/16"	3 3/4"
8"	4 9/16"	1/4"	9 3/8"	1'-0"	60°	5/8"	1 3/16"	3 3/4"
10"	5 5/8"	1/4"	11 5/8"	1'-0"	60°	3/4"	1 1/4"	4"
12"	6 5/8"	1/4"	1'-1 3/4"	1'-0"	30°	7/8"	1 1/4"	4 1/4"
14"	7 1/4"	1/4"	1'-3"	1'-0"	30°	7/8"	1 1/4"	4 1/4"
16"	8 1/4"	1/4"	1'-5"	1'-0"	30°	7/8"	1 1/4"	4 1/4"
18"	9 1/4"	1/4"	1'-7 1/8"	1'-0"	30°	1"	1 3/8"	4 3/4"
20"	10 1/4"	1/4"	1'-9 1/8"	1'-0"	30°	1"	1 3/8"	4 3/4"
24"	1'-0 3/8"	3/8"	2'-1 1/8"	1'-0"	30°	1"	1 1/2"	4 3/4"
30"	1'-3 3/8"	3/8"	2'-7 1/8"	1'-0"	30°	1"	1 1/2"	4 3/4"
36"	1'-6 3/8"	3/8"	3'-1 1/8"	1'-0"	30°	1"	1 1/2"	4 3/4"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

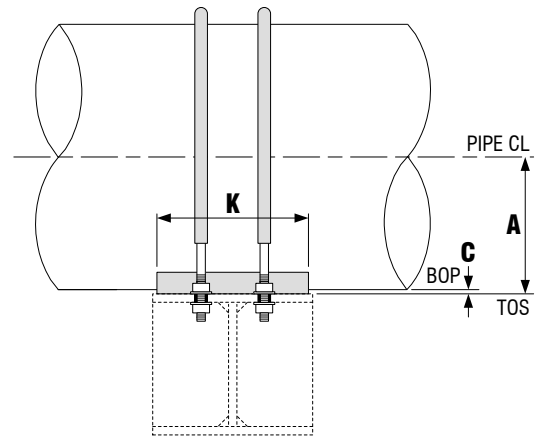
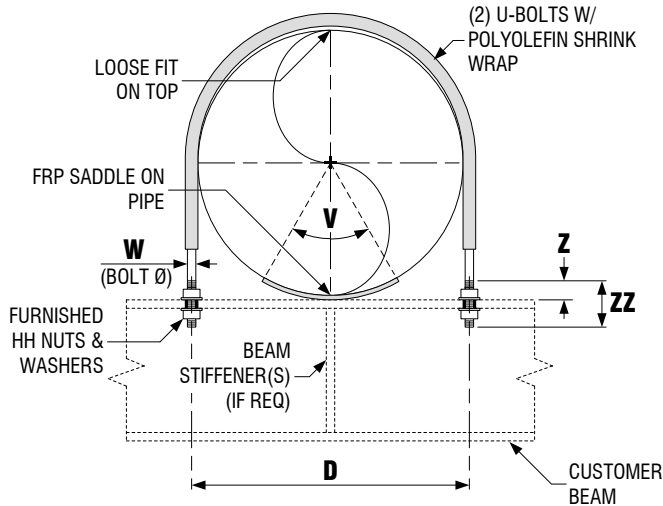
HPS-4101

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FIGURE 4102

**FRP SADDLE,
(2) GUIDE U-BOLTS**



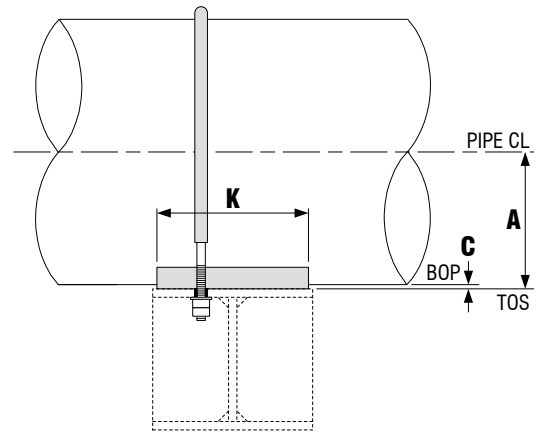
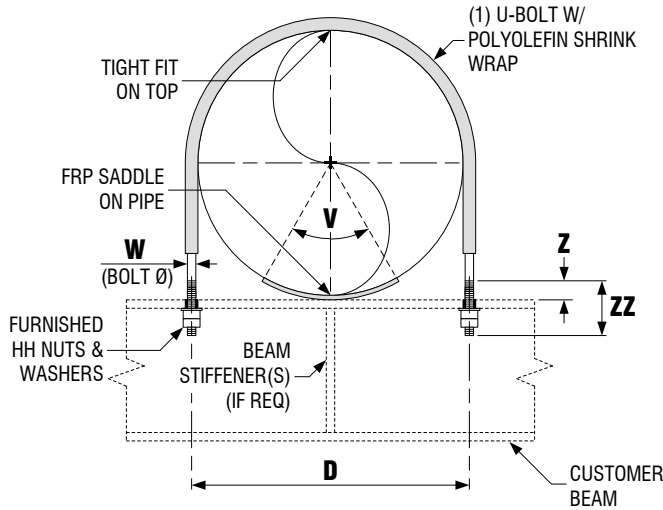
NPS	A	C	D	K	V	W	Z	ZZ
2"	1 7/16"	1/4"	2 13/16"	1'-0"	90°	3/8"	13/16"	2 1/2"
3"	2"	1/4"	4 1/16"	1'-0"	90°	1/2"	1 1/8"	3"
4"	2 1/2"	1/4"	5 1/16"	1'-0"	90°	1/2"	1 1/8"	3"
6"	3 9/16"	1/4"	7 3/8"	1'-0"	60°	5/8"	1 5/16"	3 3/4"
8"	4 9/16"	1/4"	9 3/8"	1'-0"	60°	5/8"	1 5/16"	3 3/4"
10"	5 5/8"	1/4"	11 5/8"	1'-0"	60°	3/4"	1 3/8"	4"
12"	6 5/8"	1/4"	1'-1 3/4"	1'-0"	30°	7/8"	1 3/8"	4 1/4"
14"	7 1/4"	1/4"	1'-3"	1'-0"	30°	7/8"	1 3/8"	4 1/4"
16"	8 1/4"	1/4"	1'-5"	1'-0"	30°	7/8"	1 3/8"	4 1/4"
18"	9 1/4"	1/4"	1'-7 1/8"	1'-0"	30°	1"	1 1/2"	4 3/4"
20"	10 1/4"	1/4"	1'-9 1/8"	1'-0"	30°	1"	1 1/2"	4 3/4"
24"	1'-0 3/8"	3/8"	2'-1 1/8"	1'-0"	30°	1"	1 5/8"	4 3/4"
30"	1'-3 3/8"	3/8"	2'-7 1/8"	1'-0"	30°	1"	1 5/8"	4 3/4"
36"	1'-6 3/8"	3/8"	3'-1 1/8"	1'-0"	30°	1"	1 5/8"	4 3/4"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-4102 - -

FIGURE 4103 FRP SADDLE,
(1) HOLD DOWN U-BOLTS

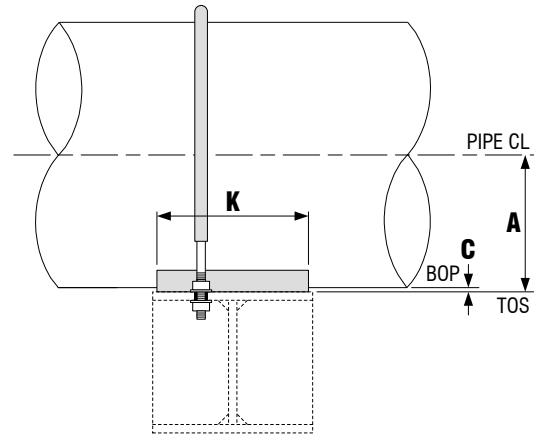
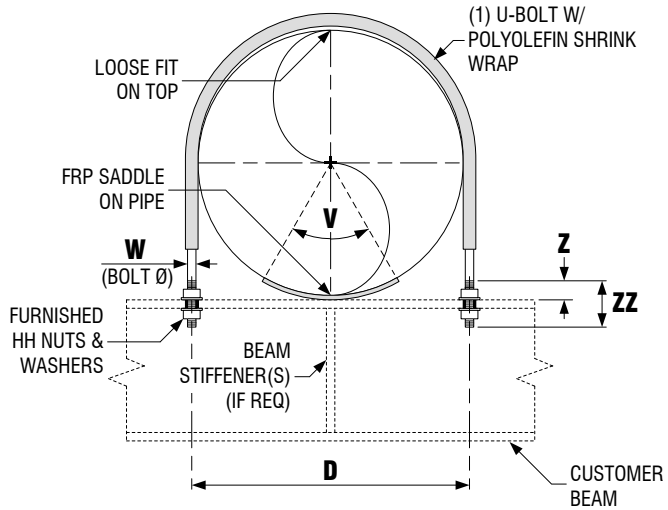


NPS	A	C	D	K	V	W	Z	ZZ
1/2"	11/16"	1/4"	1 3/16"	1'-0"	90°	1/4"	1/4"	2 3/8"
3/4"	3/4"	1/4"	1 3/8"	1'-0"	90°	1/4"	7/16"	2 3/8"
1"	15/16"	1/4"	1 5/8"	1'-0"	90°	1/4"	9/16"	2 3/8"
1 1/2"	1 3/16"	1/4"	2 3/8"	1'-0"	90°	3/8"	11/16"	2 1/2"
2"	1 7/16"	1/4"	2 13/16"	1'-0"	90°	3/8"	11/16"	2 1/2"
3"	2"	1/4"	4 1/16"	1'-0"	90°	1/2"	1"	3"
4"	2 1/2"	1/4"	5 1/16"	1'-0"	90°	1/2"	1"	3"
6"	3 9/16"	1/4"	7 3/8"	1'-0"	60°	5/8"	1 3/16"	3 3/4"
8"	4 9/16"	1/4"	9 3/8"	1'-0"	60°	5/8"	1 3/16"	3 3/4"
10"	5 5/8"	1/4"	11 5/8"	1'-0"	60°	3/4"	1 1/4"	4"
12"	6 5/8"	1/4"	1'-1 3/4"	1'-0"	30°	7/8"	1 1/4"	4 1/4"
14"	7 1/4"	1/4"	1'-3"	1'-0"	30°	7/8"	1 1/4"	4 1/4"
16"	8 1/4"	1/4"	1'-5"	1'-0"	30°	7/8"	1 1/4"	4 1/4"
18"	9 1/4"	1/4"	1'-7 1/8"	1'-0"	30°	1"	1 3/8"	4 3/4"
20"	10 1/4"	1/4"	1'-9 1/8"	1'-0"	30°	1"	1 3/8"	4 3/4"
24"	1'-0 3/8"	3/8"	2'-1 1/8"	1'-0"	30°	1"	1 1/2"	4 3/4"
30"	1'-3 3/8"	3/8"	2'-7 1/8"	1'-0"	30°	1"	1 1/2"	4 3/4"
36"	1'-6 3/8"	3/8"	3'-1 1/8"	1'-0"	30°	1"	1 1/2"	4 3/4"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS
HPS-4103 - -

FIGURE 4104

FRP SADDLE,
(1) GUIDE U-BOLT


NPS	A	C	D	K	V	W	Z	ZZ
2"	1 7/16"	1/4"	2 13/16"	1'-0"	90°	3/8"	13/16"	2 1/2"
3"	2"	1/4"	4 1/16"	1'-0"	90°	1/2"	1 1/8"	3"
4"	2 1/2"	1/4"	5 1/16"	1'-0"	90°	1/2"	1 1/8"	3"
6"	3 9/16"	1/4"	7 3/8"	1'-0"	60°	5/8"	1 5/16"	3 3/4"
8"	4 9/16"	1/4"	9 3/8"	1'-0"	60°	5/8"	1 5/16"	3 3/4"
10"	5 5/8"	1/4"	11 5/8"	1'-0"	60°	3/4"	1 3/8"	4"
12"	6 5/8"	1/4"	1'-1 3/4"	1'-0"	30°	7/8"	1 3/8"	4 1/4"
14"	7 1/4"	1/4"	1'-3"	1'-0"	30°	7/8"	1 3/8"	4 1/4"
16"	8 1/4"	1/4"	1'-5"	1'-0"	30°	7/8"	1 3/8"	4 1/4"
18"	9 1/4"	1/4"	1'-7 1/8"	1'-0"	30°	1"	1 1/2"	4 3/4"
20"	10 1/4"	1/4"	1'-9 1/8"	1'-0"	30°	1"	1 1/2"	4 3/4"
24"	1'-0 3/8"	3/8"	2'-1 1/8"	1'-0"	30°	1"	1 5/8"	4 3/4"
30"	1'-3 3/8"	3/8"	2'-7 1/8"	1'-0"	30°	1"	1 5/8"	4 3/4"
36"	1'-6 3/8"	3/8"	3'-1 1/8"	1'-0"	30°	1"	1 5/8"	4 3/4"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

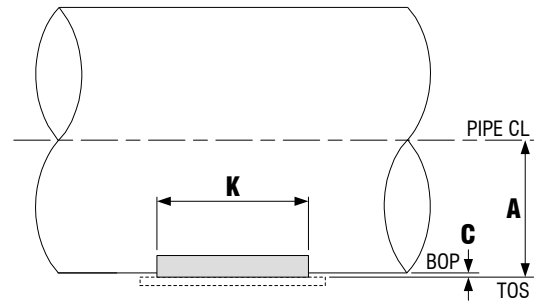
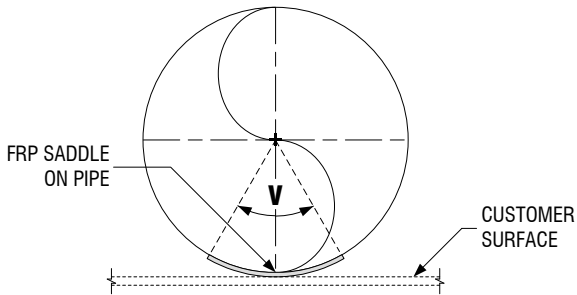
HPS-4104

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FIGURE 4105

FRP SADDLE



NPS	A	C	K	V
1/2"	11/16"	1/4"	1'-0"	90°
3/4"	3/4"	1/4"	1'-0"	90°
1"	15/16"	1/4"	1'-0"	90°
1 1/2"	1 3/16"	1/4"	1'-0"	90°
2"	1 7/16"	1/4"	1'-0"	90°
3"	2"	1/4"	1'-0"	90°
4"	2 1/2"	1/4"	1'-0"	90°
6"	3 9/16"	1/4"	1'-0"	60°
8"	4 9/16"	1/4"	1'-0"	60°
10"	5 5/8"	1/4"	1'-0"	60°
12"	6 5/8"	1/4"	1'-0"	30°
14"	7 1/4"	1/4"	1'-0"	30°
16"	8 1/4"	1/4"	1'-0"	30°
18"	9 1/4"	1/4"	1'-0"	30°
20"	10 1/4"	1/4"	1'-0"	30°
24"	1'-0 3/8"	3/8"	1'-0"	30°
30"	1'-3 3/8"	3/8"	1'-0"	30°
36"	1'-6 3/8"	3/8"	1'-0"	30°

HOW TO ORDER

FIGURE #

PIPE NPS

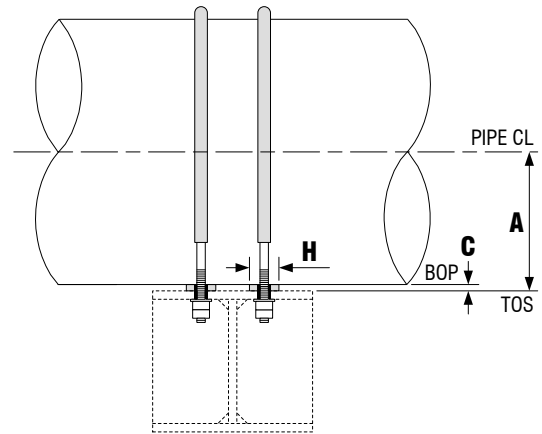
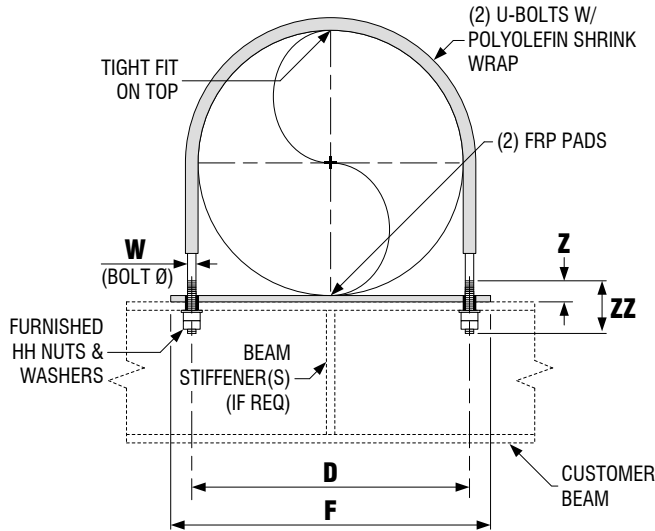
OPTIONS

HPS-4105

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FIGURE 4201 (2) FRP PADS
(2) HOLD DOWN U-BOLTS



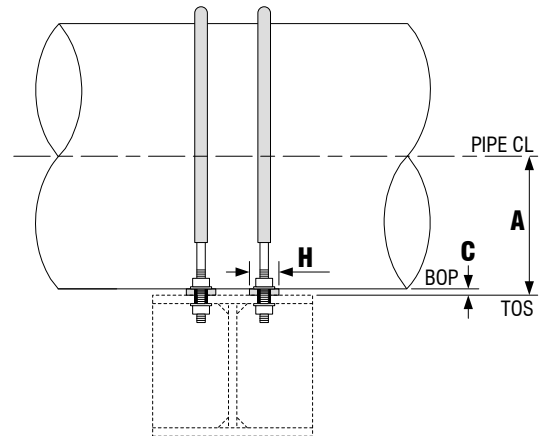
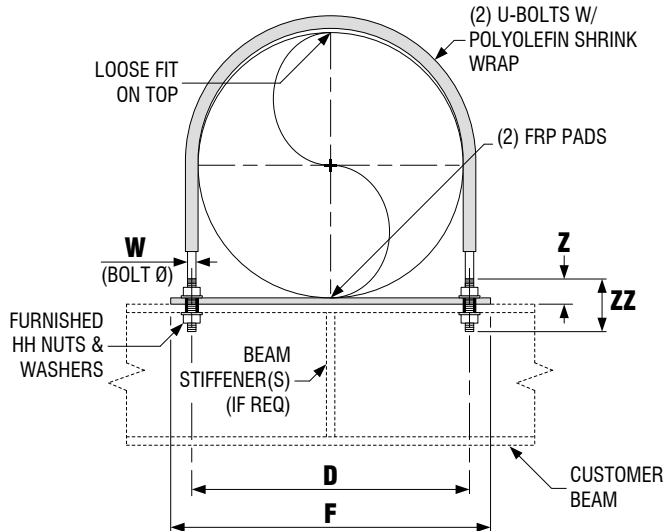
NPS	A	C	D	H	F	W	Z	ZZ
1/2"	9/16"	1/8"	1 3/16"	1"	2 3/4"	1/4"	1/8"	2 3/8"
3/4"	5/8"	1/8"	1 3/8"	1"	2 3/4"	1/4"	5/16"	2 3/8"
1"	13/16"	1/8"	1 5/8"	1"	2 3/4"	1/4"	7/16"	2 3/8"
1 1/2"	1 1/16"	1/8"	2 3/8"	1 1/4"	4 1/4"	3/8"	9/16"	2 1/2"
2"	1 5/16"	1/8"	2 13/16"	1 1/4"	4 1/4"	3/8"	9/16"	2 1/2"
3"	1 7/8"	1/8"	4 1/16"	2"	7 3/4"	1/2"	7/8"	3"
4"	2 3/8"	1/8"	5 1/16"	2"	8 1/2"	1/2"	7/8"	3"
6"	3 7/16"	1/8"	7 3/8"	2 1/4"	9 3/4"	5/8"	1 1/16"	3 3/4"
8"	4 7/16"	1/8"	9 3/8"	2 1/4"	11 3/4"	5/8"	1 1/16"	3 3/4"
10"	5 1/2"	1/8"	11 5/8"	2 1/2"	1'-2 1/4"	3/4"	1 1/8"	4"
12"	6 1/2"	1/8"	1'-1 3/4"	2 3/4"	1'-5 1/2"	7/8"	1 1/8"	4 1/4"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS
HPS-4201 - -

FIGURE 4202

**(2) FRP PADS,
(2) GUIDE U-BOLTS**



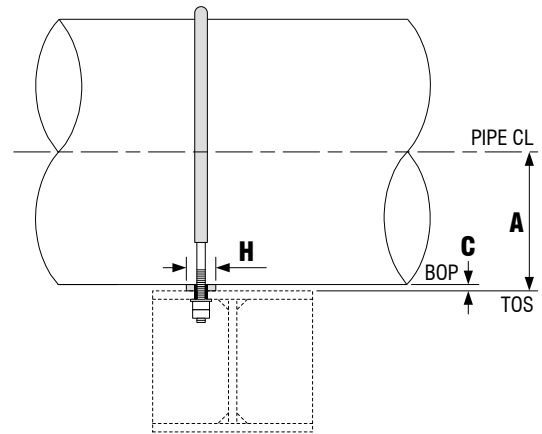
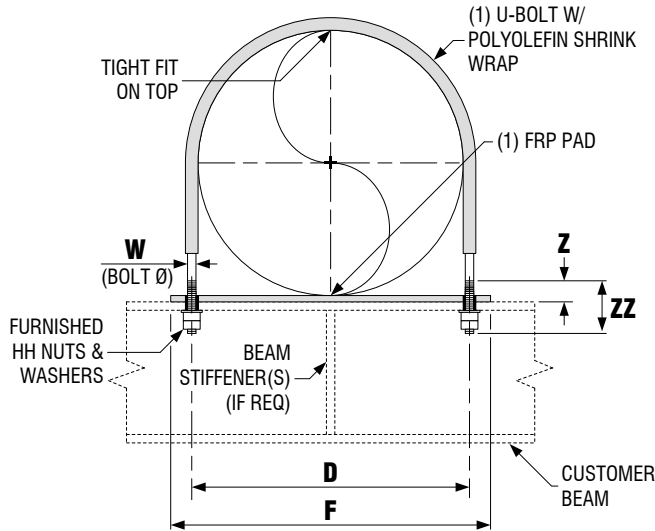
NPS	A	C	D	H	F	W	Z	ZZ
2"	1 5/16"	1/8"	2 13/16"	1 1/4"	4 1/4"	3/8"	11/16"	2 1/2"
3"	1 7/8"	1/8"	4 1/16"	2"	7 3/4"	1/2"	1"	3"
4"	2 3/8"	1/8"	5 1/16"	2"	8 1/2"	1/2"	1"	3"
6"	3 7/16"	1/8"	7 3/8"	2 1/4"	9 3/4"	5/8"	1 3/16"	3 3/4"
8"	4 7/16"	1/8"	9 3/8"	2 1/4"	11 3/4"	5/8"	1 3/16"	3 3/4"
10"	5 1/2"	1/8"	11 5/8"	2 1/2"	1'-2 1/4"	3/4"	1 1/4"	4"
12"	6 1/2"	1/8"	1'-1 3/4"	2 3/4"	1'-5 1/2"	7/8"	1 1/4"	4 1/4"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-4202 - -

FIGURE 4203 (1) FRP PAD
(1) HOLD DOWN U-BOLTS



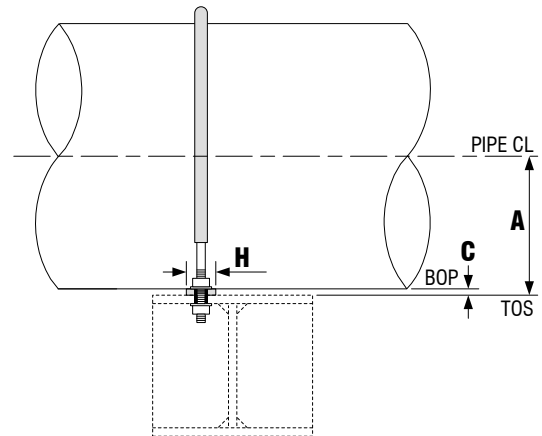
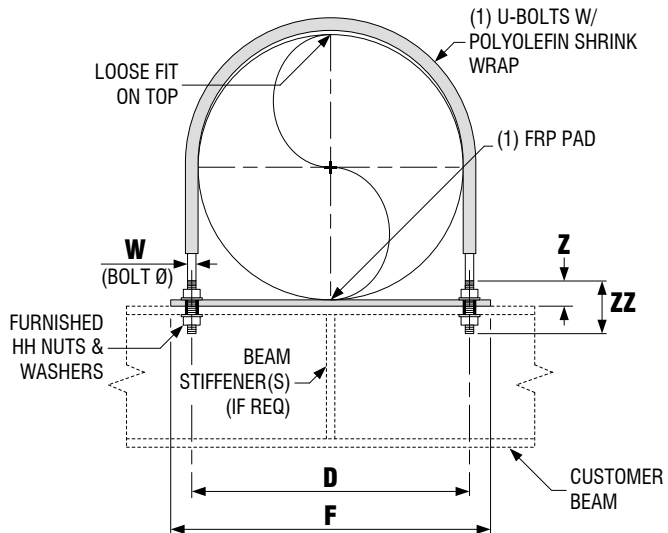
NPS	A	C	D	H	F	W	Z	ZZ
1/2"	9/16"	1/8"	1 3/16"	1"	2 3/4"	1/4"	1/8"	2 3/8"
3/4"	5/8"	1/8"	1 3/8"	1"	2 3/4"	1/4"	5/16"	2 3/8"
1"	13/16"	1/8"	1 5/8"	1"	2 3/4"	1/4"	7/16"	2 3/8"
1 1/2"	1 1/16"	1/8"	2 3/8"	1 1/4"	4 1/4"	3/8"	9/16"	2 1/2"
2"	1 5/16"	1/8"	2 13/16"	1 1/4"	4 1/4"	3/8"	9/16"	2 1/2"
3"	1 7/8"	1/8"	4 1/16"	2"	7 3/4"	1/2"	7/8"	3"
4"	2 3/8"	1/8"	5 1/16"	2"	8 1/2"	1/2"	7/8"	3"
6"	3 7/16"	1/8"	7 3/8"	2 1/4"	9 3/4"	5/8"	1 1/16"	3 3/4"
8"	4 7/16"	1/8"	9 3/8"	2 1/4"	11 3/4"	5/8"	1 1/16"	3 3/4"
10"	5 1/2"	1/8"	11 5/8"	2 1/2"	1'-2 1/4"	3/4"	1 1/8"	4"
12"	6 1/2"	1/8"	1'-1 3/4"	2 3/4"	1'-5 1/2"	7/8"	1 1/8"	4 1/4"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS
HPS-4203 - -

FIGURE 4204

(1) FRP PADS,
(1) GUIDE U-BOLTS



NPS	A	C	D	H	F	W	Z	ZZ
2"	1 5/16"	1/8"	2 13/16"	1 1/4"	4 1/4"	3/8"	11/16"	2 1/2"
3"	1 7/8"	1/8"	4 1/16"	2"	7 3/4"	1/2"	1"	3"
4"	2 3/8"	1/8"	5 1/16"	2"	8 1/2"	1/2"	1"	3"
6"	3 7/16"	1/8"	7 3/8"	2 1/4"	9 3/4"	5/8"	1 3/16"	3 3/4"
8"	4 7/16"	1/8"	9 3/8"	2 1/4"	11 3/4"	5/8"	1 3/16"	3 3/4"
10"	5 1/2"	1/8"	11 5/8"	2 1/2"	1'-2 1/4"	3/4"	1 1/4"	4"
12"	6 1/2"	1/8"	1'-1 3/4"	2 3/4"	1'-5 1/2"	7/8"	1 1/4"	4 1/4"

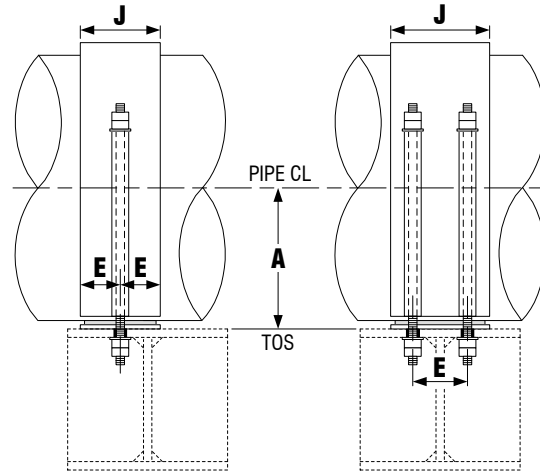
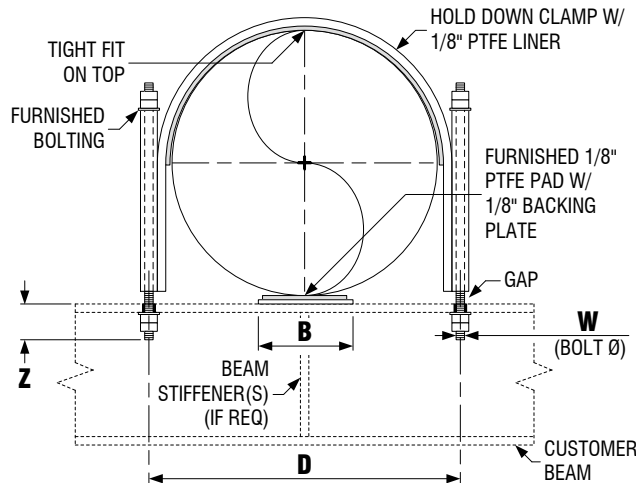
HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-4204 - -

FIGURE 5001

**HOLD DOWN CLAMP,
PTFE PAD**



NPS 2" TO 6"

NPS 8" TO 24"

NPS	A	B	D	E	J	W	Z
2"	1 7/16"	2"	4 1/4"	1"	2"	1/2"	3"
3"	2"	2"	5 7/16"	1"	2"	1/2"	3"
4"	2 1/2"	3"	6 7/16"	1"	2"	1/2"	3"
6"	3 9/16"	4"	8 13/16"	1 1/2"	3"	3/4"	3 7/8"
8"	4 9/16"	5"	10 13/16"	4"	8"	3/4"	3 7/8"
10"	5 5/8"	5 1/2"	1'-1 5/16"	4"	8"	1"	4 9/16"
12"	6 5/8"	6"	1'-3 5/16"	4"	8"	1"	4 9/16"
14"	7 1/4"	7"	1'-4 13/16"	4"	8"	1"	4 9/16"
16"	8 1/4"	8"	1'-6 13/16"	4"	8"	1"	4 9/16"
18"	9 1/4"	9"	1'-8 13/16"	4"	8"	1"	4 9/16"
20"	10 1/4"	10"	1'-10 13/16"	4"	8"	1"	4 9/16"
24"	1'-0 1/4"	1'-0"	2'-2 13/16"	4"	8"	1"	4 9/16"

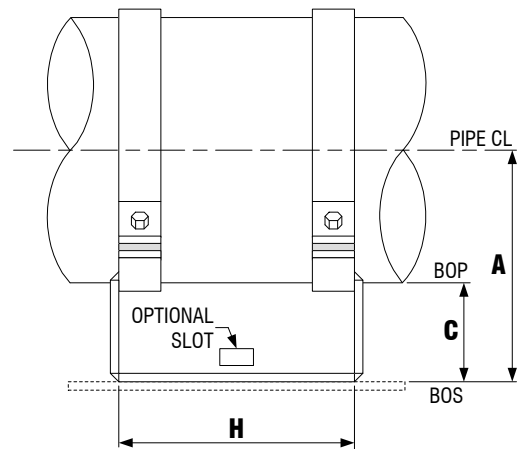
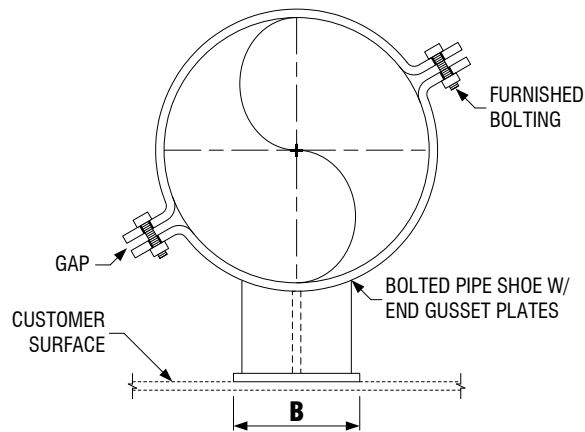
HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

HPS-5001 - -

FIGURE 6001

**BOLTED PIPE SHOE
END GUSSET PLATES**



NPS	A	B	C	H
2"	5 3/16"	4"	4"	1'-0"
3"	5 3/4"	4"	4"	1'-0"
4"	6 1/4"	4"	4"	1'-0"
6"	7 5/16"	4"	4"	1'-0"
8"	8 5/16"	4"	4"	1'-0"
10"	9 3/8"	4"	4"	1'-0"
12"	10 3/8"	6 1/2"	4"	1'-0"
14"	11"	6 1/2"	4"	1'-0"
16"	1'-0"	6 1/2"	4"	1'-0"
18"	1'-1"	6 1/2"	4"	1'-0"
20"	1'-2"	8"	4"	1'-0"
24"	1'-4"	8"	4"	1'-0"

HOW TO ORDER

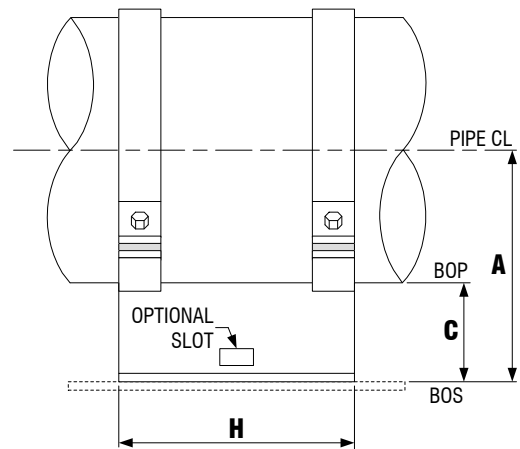
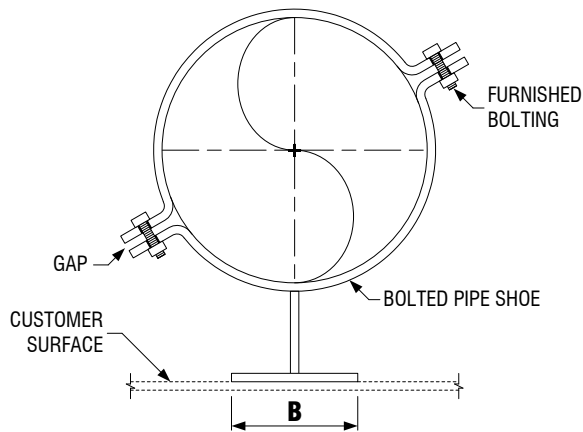
FIGURE # PIPE NPS OPTIONS

HPS-6001 - -

OPTION CODES

SL - BANDING SLOT

FIGURE 6002 **BOLTED PIPE SHOE**



NPS	A	B	C	H
2"	5 3/16"	4"	4"	1'-0"
3"	5 3/4"	4"	4"	1'-0"
4"	6 1/4"	4"	4"	1'-0"
6"	7 5/16"	4"	4"	1'-0"
8"	8 5/16"	4"	4"	1'-0"
10"	9 3/8"	4"	4"	1'-0"
12"	10 3/8"	6 1/2"	4"	1'-0"
14"	11"	6 1/2"	4"	1'-0"
16"	1'-0"	6 1/2"	4"	1'-0"
18"	1'-1"	6 1/2"	4"	1'-0"
20"	1'-2"	8"	4"	1'-0"
24"	1'-4"	8"	4"	1'-0"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS

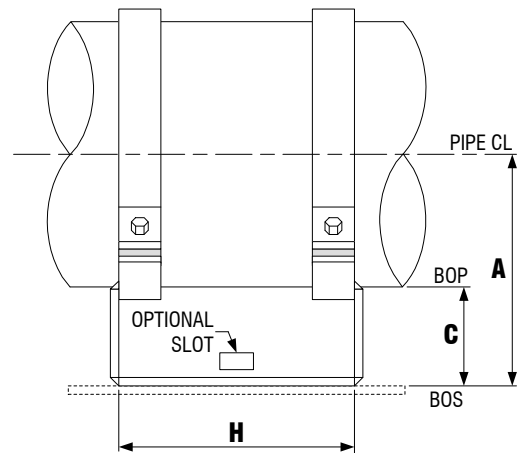
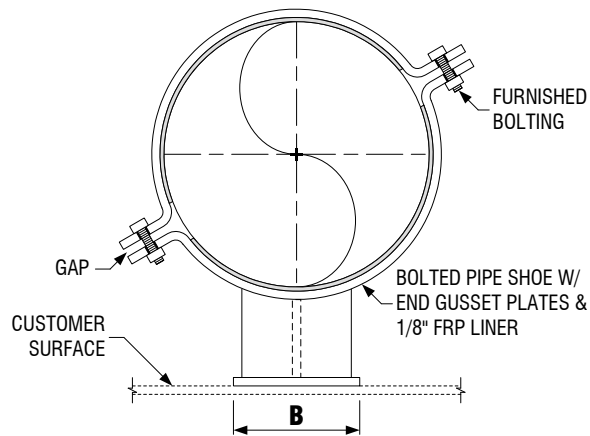
HPS-6002 - -

OPTION CODES

SL - BANDING SLOT

FIGURE 6003

**BOLTED PIPE SHOE
END GUSSET PLATES**



NPS	A	B	C	H
2"	5 3/16"	4"	4"	1'-0"
3"	5 3/4"	4"	4"	1'-0"
4"	6 1/4"	4"	4"	1'-0"
6"	7 5/16"	4"	4"	1'-0"
8"	8 5/16"	4"	4"	1'-0"
10"	9 3/8"	4"	4"	1'-0"
12"	10 3/8"	6 1/2"	4"	1'-0"
14"	11"	6 1/2"	4"	1'-0"
16"	1'-0"	6 1/2"	4"	1'-0"
18"	1'-1"	6 1/2"	4"	1'-0"
20"	1'-2"	8"	4"	1'-0"
24"	1'-4"	8"	4"	1'-0"

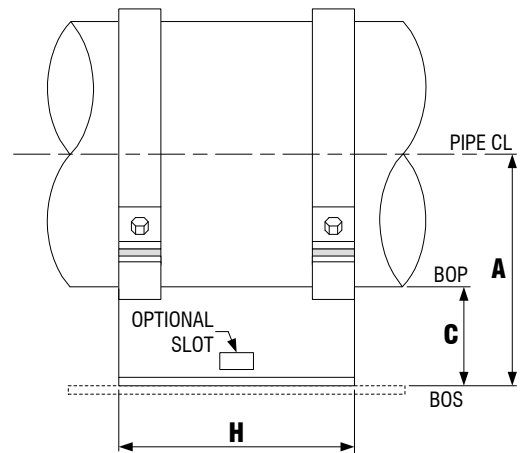
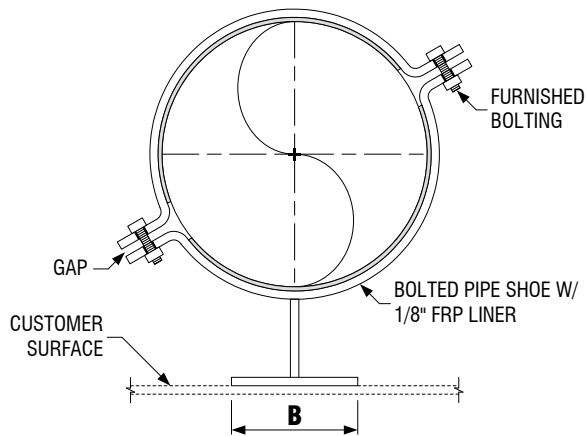
HOW TO ORDER

FIGURE # PIPE NPS OPTIONS
HPS-6003 - -

OPTION CODES

SL - BANDING SLOT
NL - NEOPRENE LINER

FIGURE 6004 **BOLTED PIPE SHOE**



NPS	A	B	C	H
2"	5 3/16"	4"	4"	1'-0"
3"	5 3/4"	4"	4"	1'-0"
4"	6 1/4"	4"	4"	1'-0"
6"	7 5/16"	4"	4"	1'-0"
8"	8 5/16"	4"	4"	1'-0"
10"	9 3/8"	4"	4"	1'-0"
12"	10 3/8"	6 1/2"	4"	1'-0"
14"	11"	6 1/2"	4"	1'-0"
16"	1'-0"	6 1/2"	4"	1'-0"
18"	1'-1"	6 1/2"	4"	1'-0"
20"	1'-2"	8"	4"	1'-0"
24"	1'-4"	8"	4"	1'-0"

HOW TO ORDER

FIGURE # PIPE NPS OPTIONS
HPS-6004 - -

OPTION CODES

SL - BANDING SLOT
NL - NEOPRENE LINER