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ASG Adjustable Sliding Guide Installation Instructions

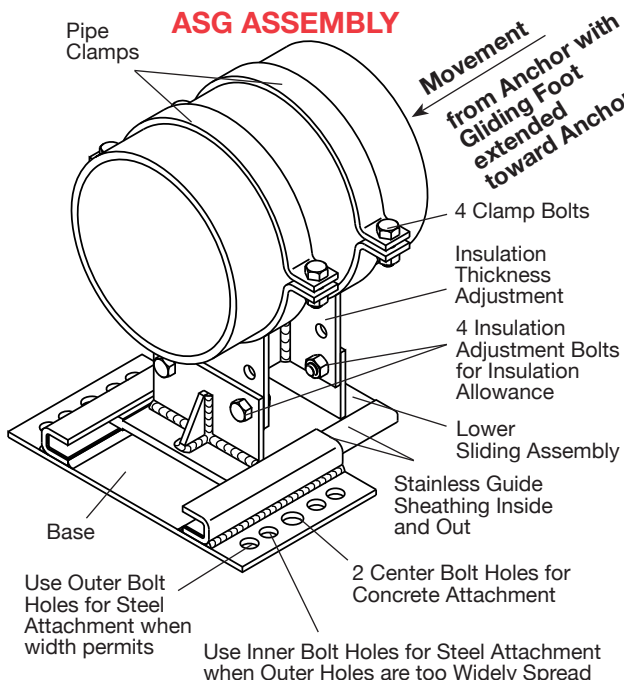
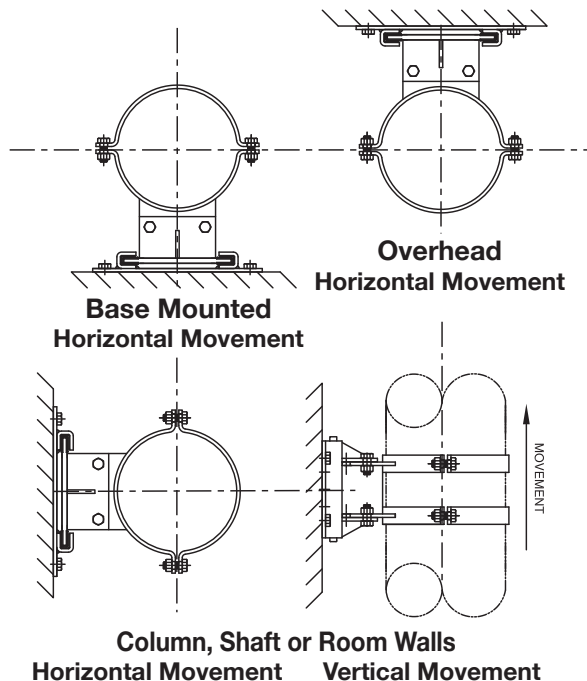
FORM A-32504-2

1. Determine ASG locations from the pipe expansion design drawings. Mounting surfaces must be level and free of debris.
2. ASGs can be installed prior to or after pipe installation. The base can be bolted down or attached to walls, shafts or overhead (see typical mounting configurations to the right).
3. a. When installing ASGs prior to pipe installation, set base to mounting surface. Base mounted installations can be attached to structure after pipe is in place. Secure ASGs baseplate to structure using steel bolts, expansion anchors, or welding. Use the four outer or four inner bolt holes for steel attachments or the two center holes for concrete. See assembly drawing below and page 4 for bolt hole locations and diameters. Bolt material and finish must comply with project specifications. If welding, see page 4 for base plate welding details.

Remove upper pipe clamps and install sliding section by inserting into channels of base assembly. Sliding assembly for ASG sizes 1" to 16" are shipped in the lower position. Raise upper sliding assembly to accommodate thicker insulation (see page 3 for details). To raise ASG, remove the four Insulation Adjustment Bolts. Raise upper section to next set of holes, replace bolts, and tighten. Wall or overhead installations will require pipe to be temporarily supported until secured by upper clamps.

3. b. If installing ASG after pipe is in place, remove upper clamps and install base and sliding assembly between pipe and structure. Wall and overhead installations will require base to be attached to mounting surface at this time as stated in step 3a. Also see step 3a for raising sliding section and base assembly attachment instructions. Note: Sliding section for 3/4" ASG comes in one piece and cannot be raised.
4. If installing copper pipe, install Mason dielectric spacers between pipe and pipe clamps.
5. Position ASG for anticipated movements by moving the sliding assembly overhang as shown on Page 2 before tightening clamps.
6. Install insulation over pipe and ASG as shown on page 3. Cover insulation as per project specifications.

ALL MODE ASG INSTALLATION POSITIONS



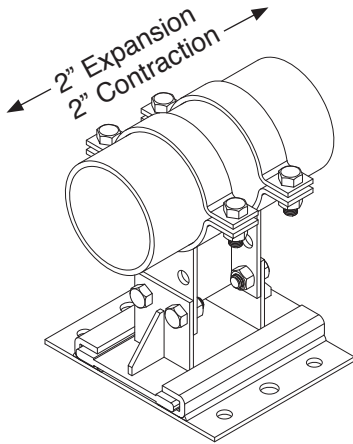
Baseplate Positions for Various Pipe Movements

Set Baseplate Extension for Required Movement Before Tightening Clamps

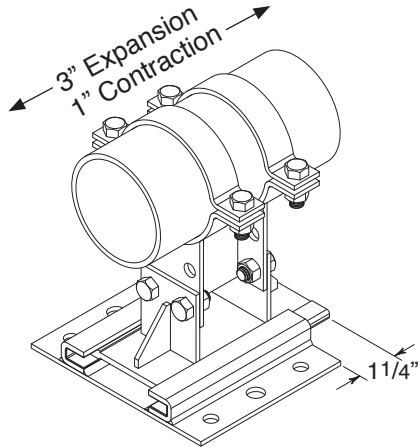
Pipe Sizes

3/4" to 2 1/2"

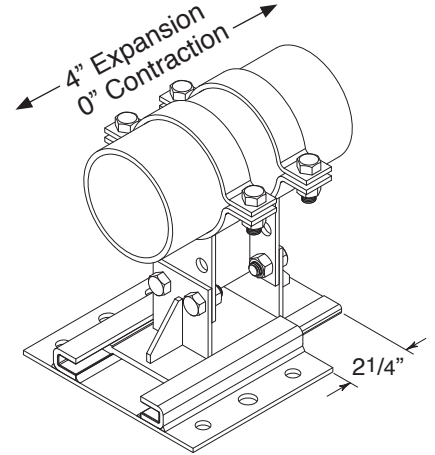
(4" Total Movement)



Centered



Set 1 1/4" Overhang

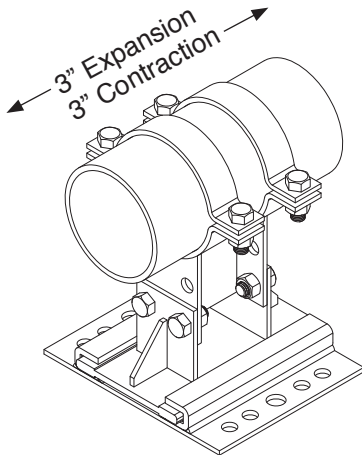


2 1/4" Preset

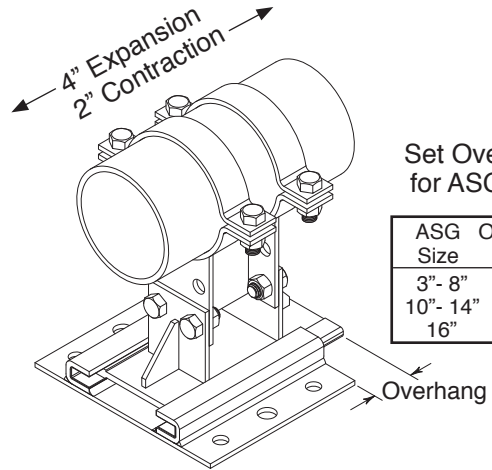
Pipe Sizes

3" to 16"

(6" Total Movement)

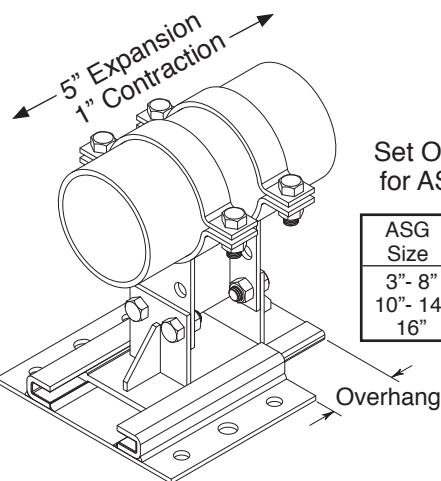


Centered



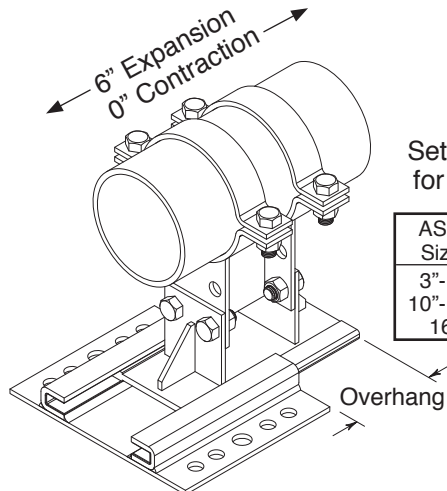
Set Overhang for ASG Size

ASG Size	Overhang (in)
3" - 8"	1 1/4
10" - 14"	2 1/4
16"	3/4



Set Overhang for ASG Size

ASG Size	Overhang (in)
3" - 8"	2 1/4
10" - 14"	3 1/4
16"	2 3/4



Set Overhang for ASG Size

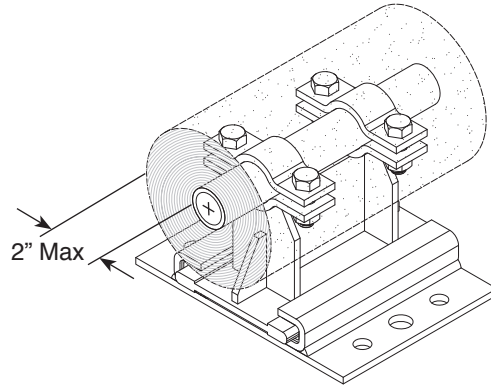
ASG Size	Overhang (in)
3" - 8"	3 1/4
10" - 14"	4 1/4
16"	3 3/4

Settings for Insulation Thickness

Pipe Size

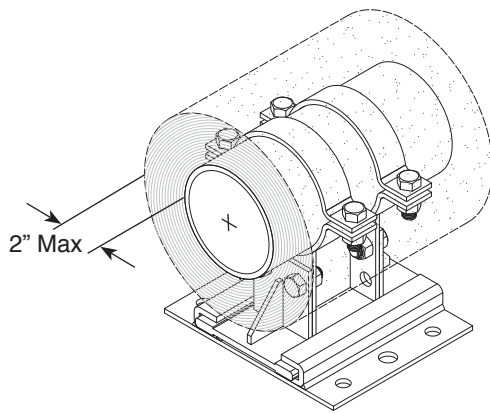
3/4"

No Height Adjustment

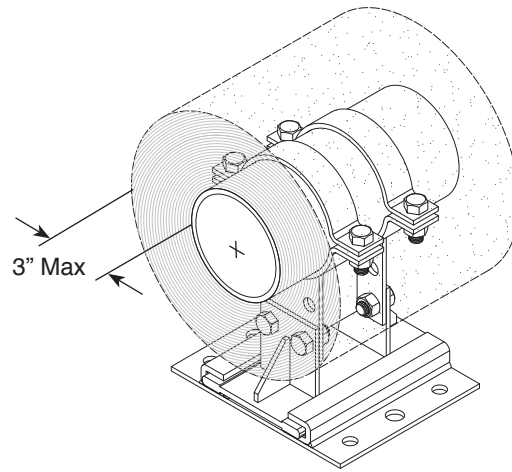


Pipe Sizes

1" to 2 1/2"



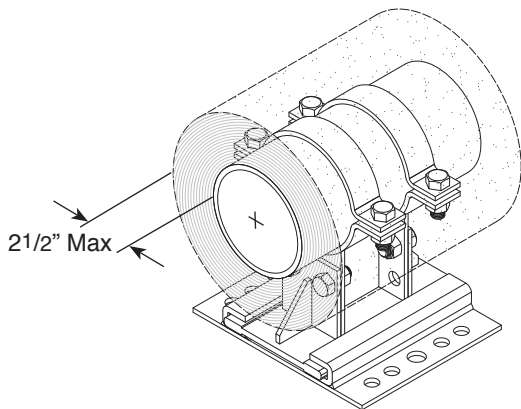
Lower Position
 H_L



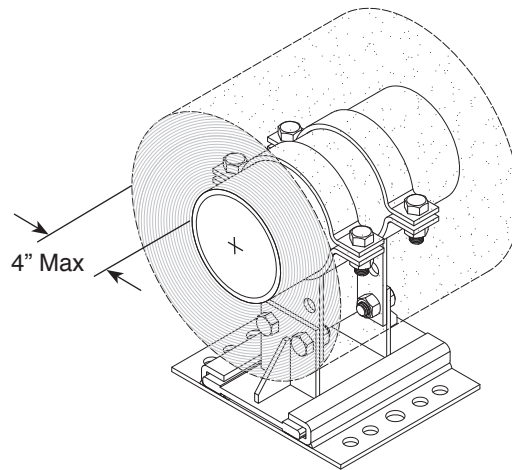
Raised Position
 H_U

Pipe Sizes

3" to 16"

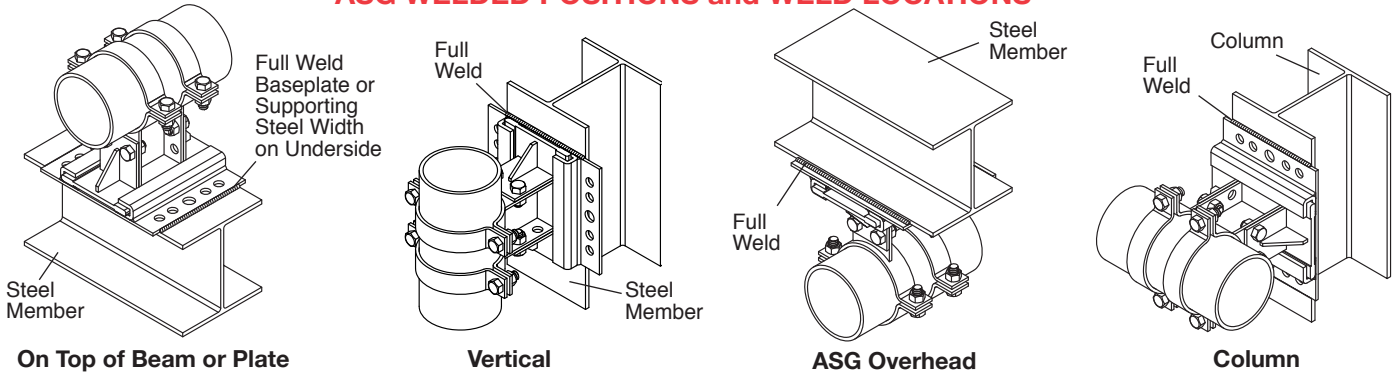


Lower Position
 H_L



Raised Position
 H_U

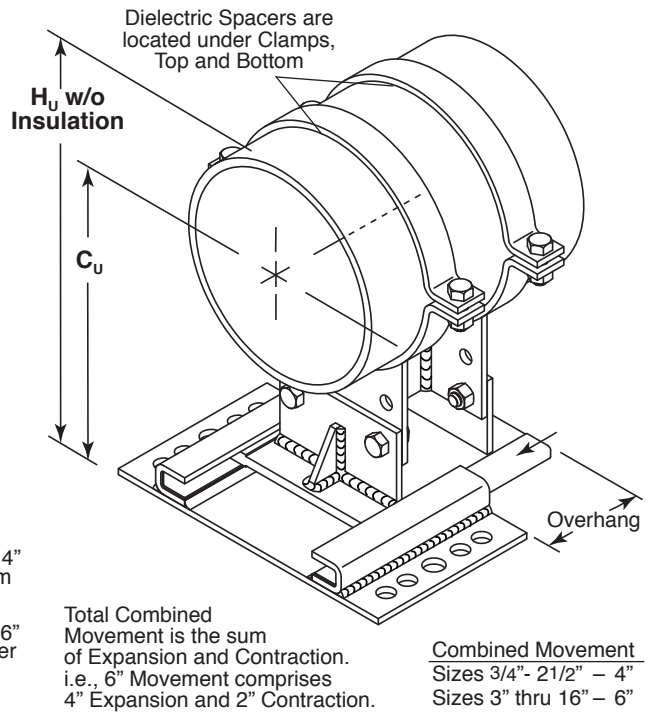
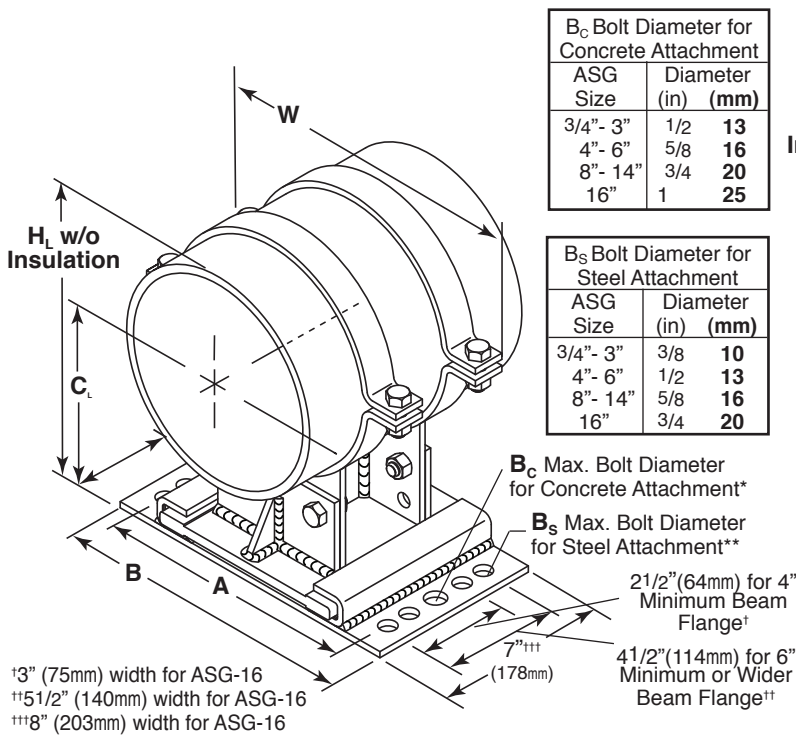
ASG WELDED POSITIONS and WELD LOCATIONS



ASG Dimensions

Always install in Lower Position when Pipe is not insulated or when Insulation Thickness does not exceed the Lower Position Maximum Insulation Thickness shown in the table below. For Overall Height, add Insulation Thickness to H_L or H_U .

In copper or brass water or steam systems, Dielectric Spacers supplied by Mason must be used to prevent corrosion from galvanic action. These simple lead strips are installed between our steel clamps and the copper or brass piping, top and bottom.



ASG LOWER POSITION C_L & H_L Sizes 3/4" to 16" 2 1/2" Insulation Max.

Type & Pipe Size (in) (mm)	Q Pipe Height C_L (in) (mm)	Overall Height without Insulation H_L (in) (mm)	Maximum Insulation Thickness Lower Position (in) (mm)
ASG-3/4 20	33/4 95	41/2 114	2 51
ASG-1 25	41/8 105	5 127	2 51
ASG-11/4 32	43/8 111	53/8 137	2 51
ASG-11/2 40	41/2 114	55/8 143	2 51
ASG-2 50	43/4 121	61/8 156	2 51
ASG-21/2 65	5 127	65/8 168	2 51
ASG-3 80	53/8 137	71/4 184	2 1/2 65
ASG-4 100	65/8 168	9 229	2 1/2 65
ASG-5 125	71/8 181	10 1/16 255	2 1/2 65
ASG-6 150	75/8 194	11 1/8 283	2 1/2 65
ASG-8 200	9 229	13 1/2 343	2 1/2 65
ASG-10 250	10 3/4 273	16 1/4 413	2 1/2 65
ASG-12 300	11 7/8 302	18 3/4 476	2 1/2 65
ASG-14 350	12 5/8 321	20 508	2 1/2 65
ASG-16 400	13 7/8 352	22 1/4 565	2 1/2 65

*Use two bolts for concrete attachment.

**Use four bolts for steel attachment.

Use inner holes for narrow steel flange widths or outer holes for wider flanges.

A (in) (mm)	B (in) (mm)	W (in) (mm)
5 1/2 140	6 3/4 172	3 1/4 83
6 152	7 1/4 184	3 5/8 92
6 152	7 1/4 184	4 102
6 152	7 1/4 184	4 3/4 108
6 152	7 1/4 184	4 3/4 121
6 152	7 1/4 184	5 1/4 133
6 1/2 164	7 3/4 196	6 152
7 1/4 184	8 1/2 216	7 1/4 184
8 204	9 1/4 235	8 1/2 216
8 3/4 222	10 254	9 1/2 240
10 1/2 267	12 1/4 311	11 3/4 298
11 1/2 292	13 1/4 337	14 5/8 372
13 330	14 3/4 375	16 3/4 426
16 406	17 3/4 451	18 1/8 460
18 1/2 470	20 1/2 521	20 1/2 521

ASG UPPER POSITION C_U & H_U Sizes 1" to 16" for 3" to 4" Insulation

Note: 3/4" size cannot be raised

Type & Pipe Size (in) (mm)	Q Pipe Height C_U (in) (mm)	Overall Height without Insulation H_U (in) (mm)	Max. Insulation Thickness Upper Position (in) (mm)
ASG-3/4 20	33/4 95	41/2 114	2 51
ASG-1 25	51/8 130	6 152	3 76
ASG-11/4 32	53/8 137	6 3/8 162	3 76
ASG-11/2 40	51/2 140	6 5/8 168	3 76
ASG-2 50	53/4 146	7 1/2 181	3 76
ASG-21/2 65	6 152	7 5/8 194	3 76
ASG-3 80	63/8 162	8 1/4 210	3 76
ASG-4 100	81/8 206	10 1/2 267	4 102
ASG-5 125	85/8 219	11 9/16 294	4 102
ASG-6 150	91/8 232	12 5/8 321	4 102
ASG-8 200	10 1/2 267	15 381	4 102
ASG-10 250	12 1/4 311	17 3/4 451	4 102
ASG-12 300	13 3/8 340	20 1/4 514	4 102
ASG-14 350	14 1/8 359	21 1/2 546	4 102
ASG-16 400	15 3/8 391	23 3/4 603	4 102