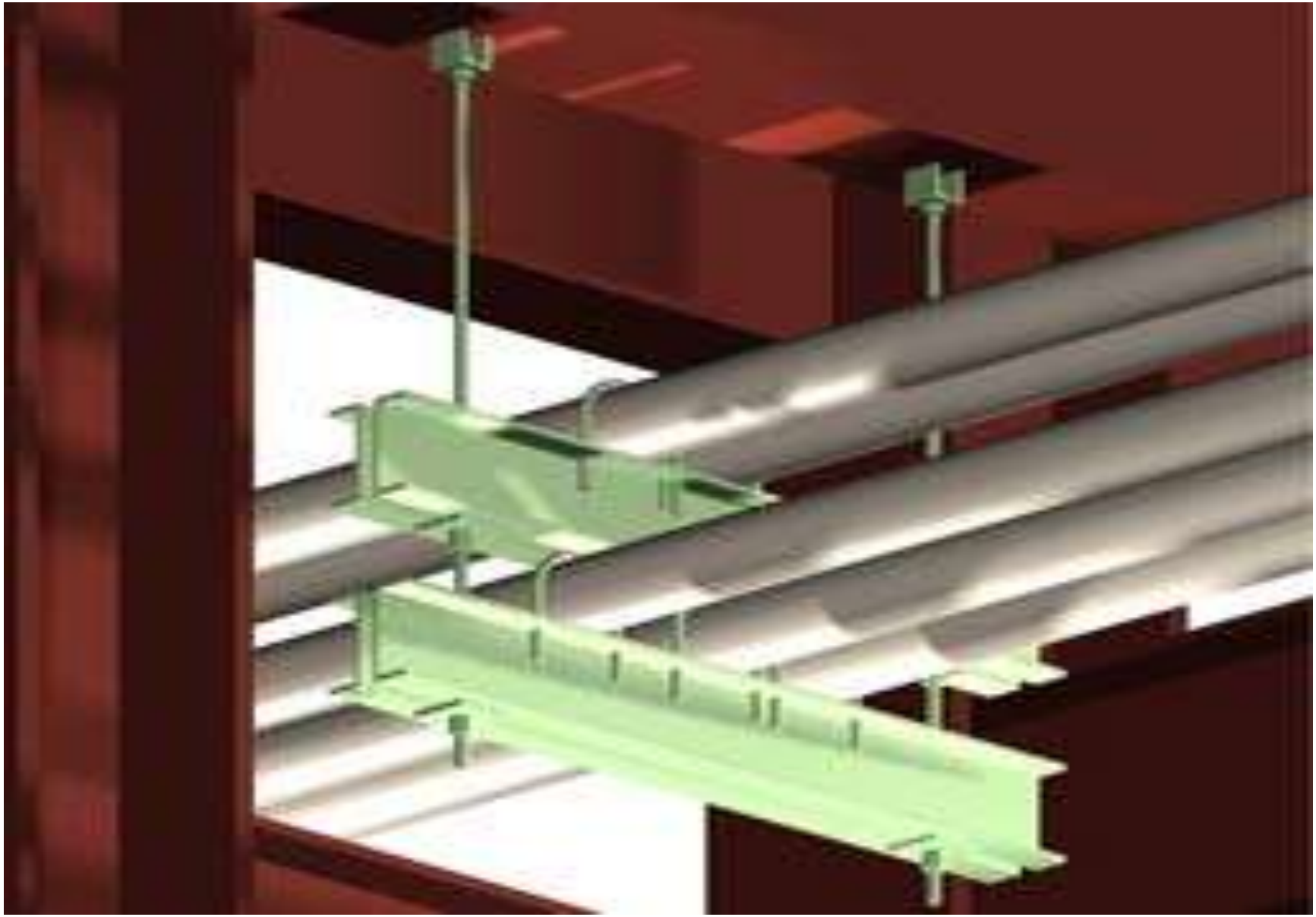


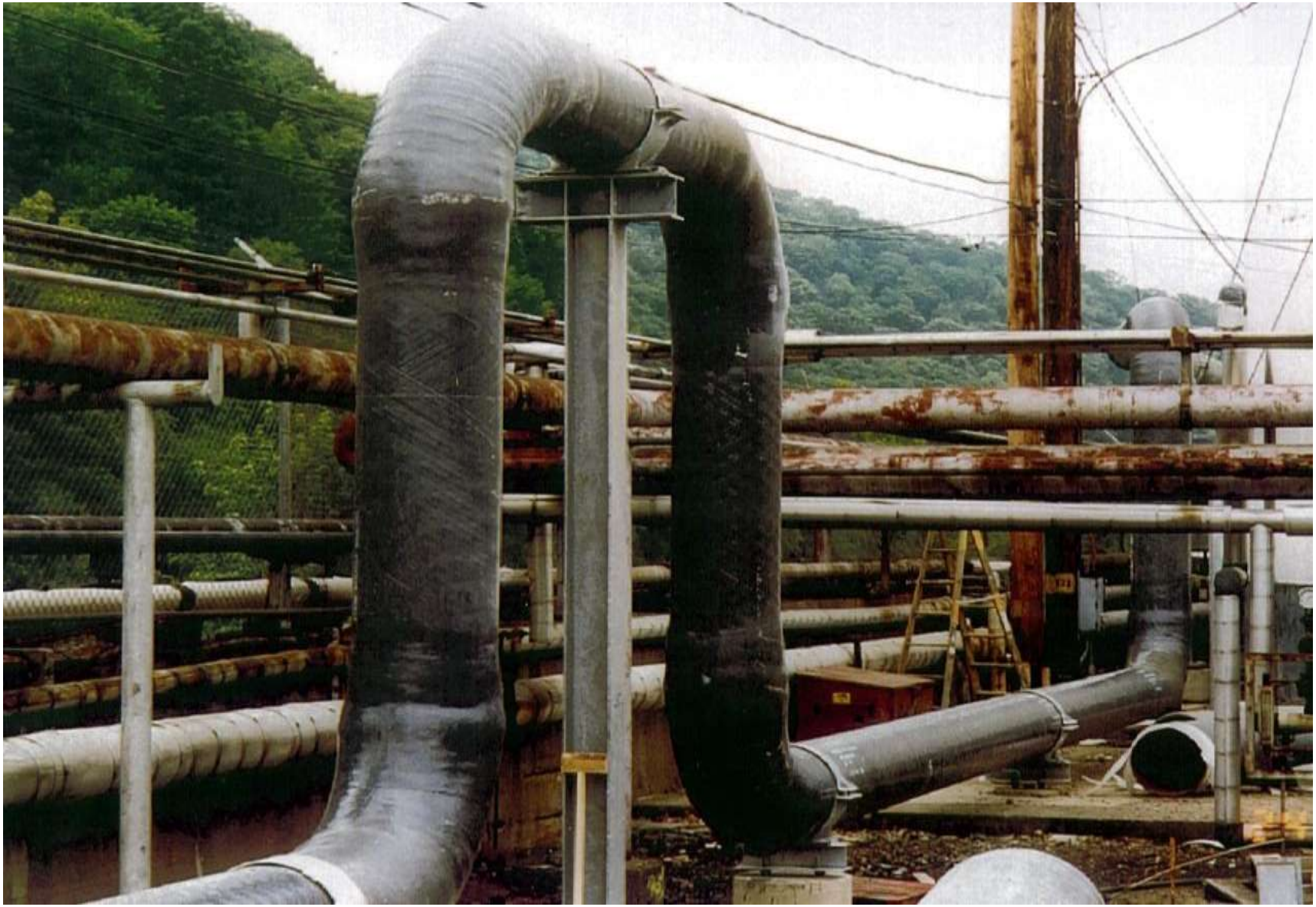
Piping Supports

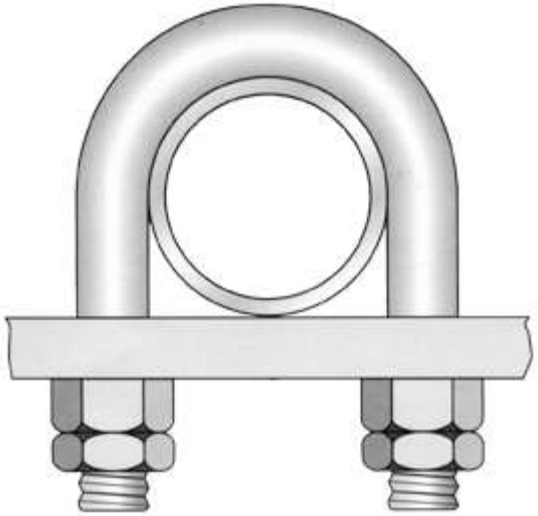
Piping must be supported in such a way as to prevent its weight from being carried by the equipment to which it is attached.

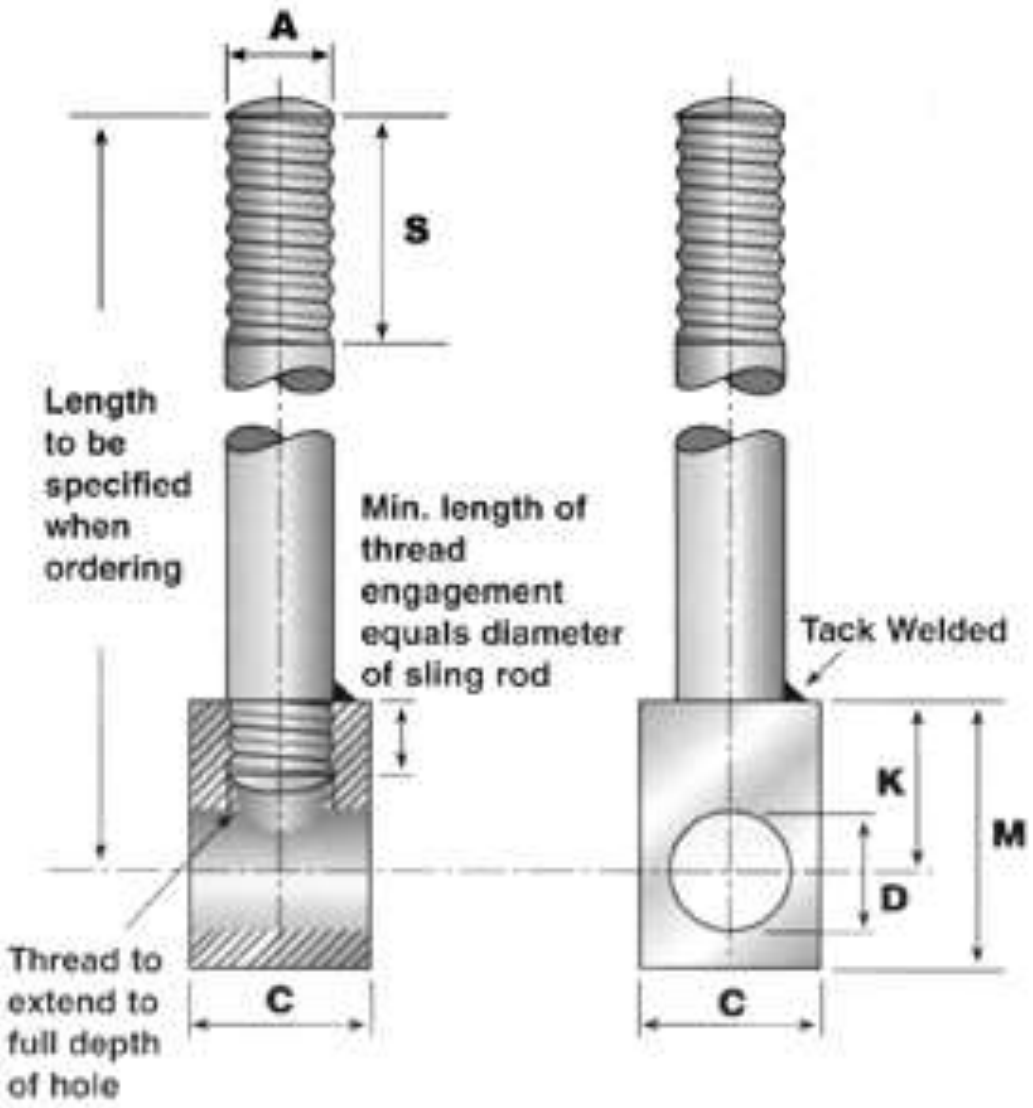
The supports used must prevent excessive sagging of the pipe and at the same time must allow free movement of the pipe due to expansion or contraction.

The supporting arrangement must be designed to carry the weight of the pipe, valves, fittings and insulation plus the weight of the fluid contained within the pipe.

Illustrated are various types of pipe supports and hangers.

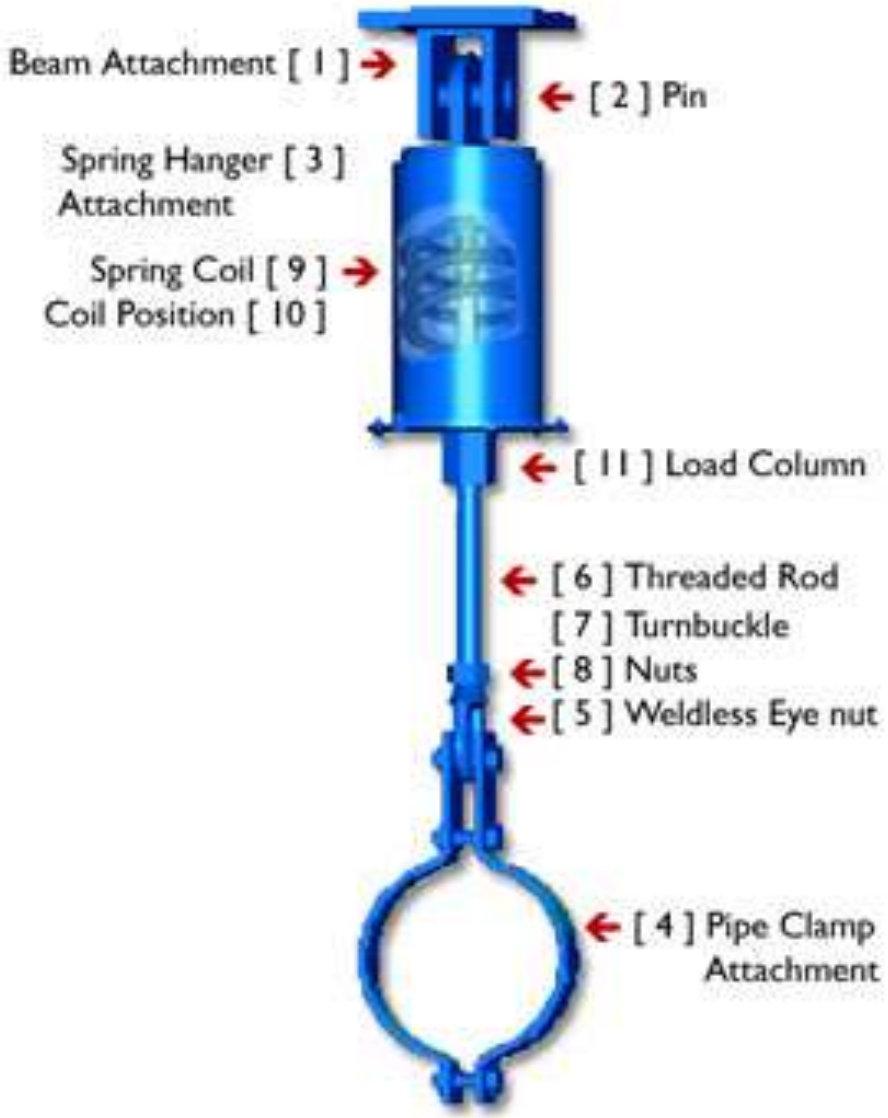




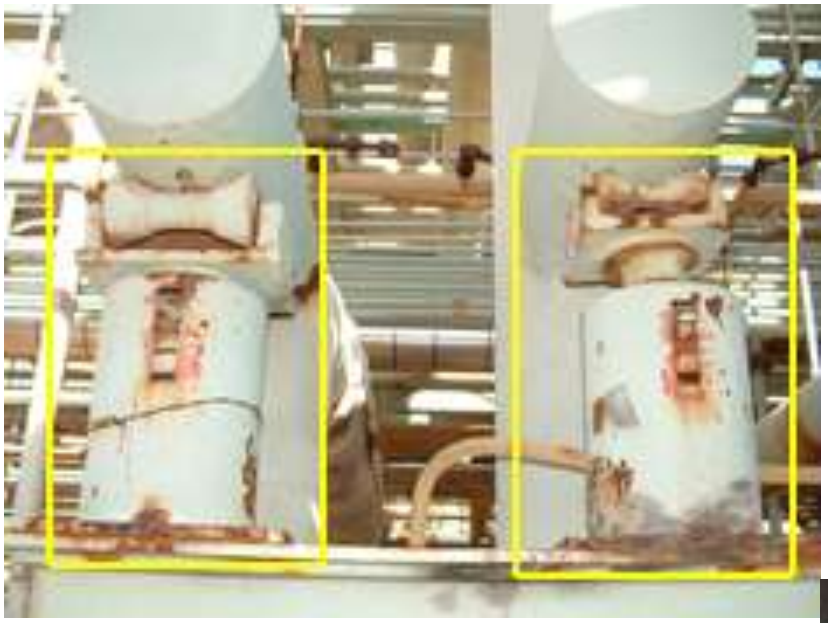

A
S
Length to be specified when ordering
Min. length of thread engagement equals diameter of sling rod
Tack Welded
K
M
D
Thread to extend to full depth of hole
C
C

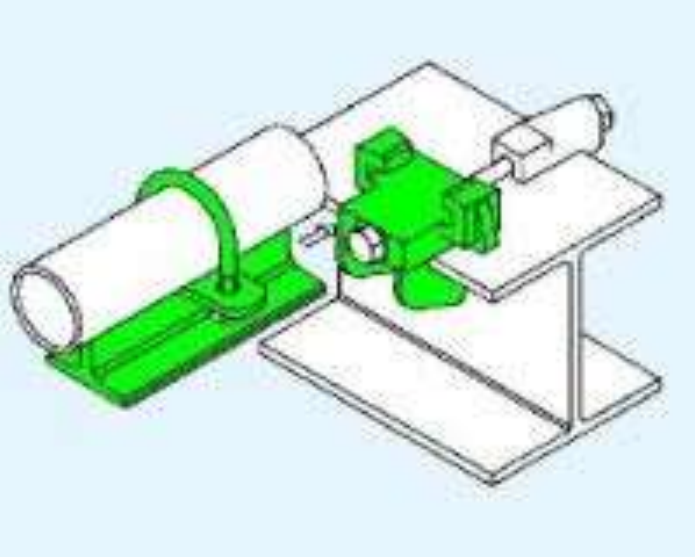
20% site load adjustment.
Travel indicator to allow movement to be monitored.
Lever rotation indicator, to demonstrate at a glance that the support is taking load correctly.
Low hysteresis, to ensure minimum load deviation.
Infinitely variable locking/balancing device.
Variable position load pin carrier.
Construction that allows assembly after galvanising, without welding.

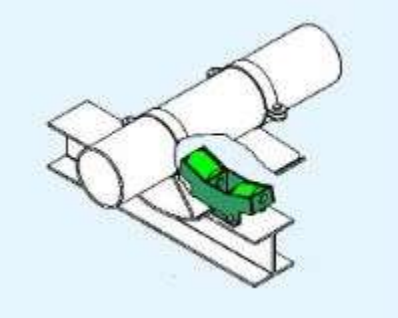
Wide load and movement range.
Robust and compact design: installed heights designed to a minimum.
Infinitely variable preset and locking device.

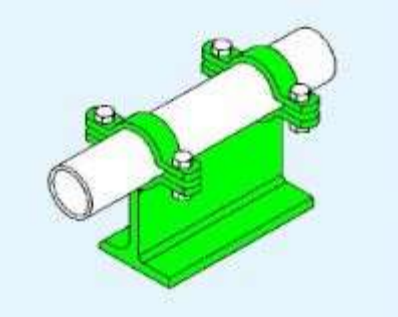

Beam Attachment [1]
[2] Pin
Spring Hanger [3] Attachment
Spring Coil [9]
Coil Position [10]
[11] Load Column
[6] Threaded Rod
[7] Turnbuckle
[8] Nuts
[5] Weldless Eye nut
[4] Pipe Clamp Attachment

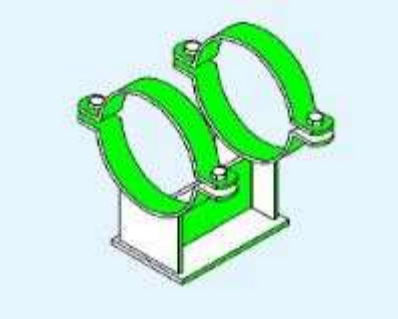

[11] Load Column

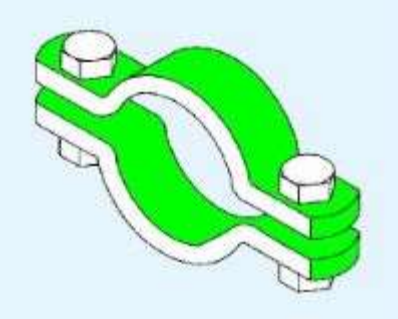












Checklist for Inspection of Hanger Assembly

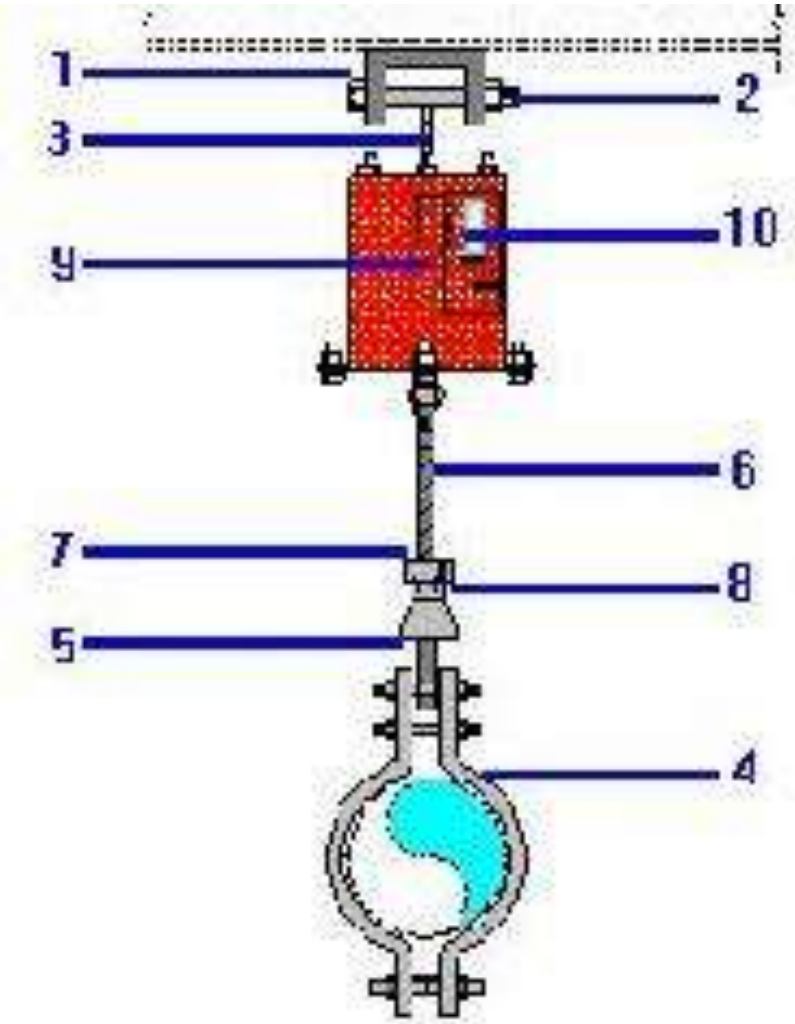
Check the *beam attachment (1), pin (2)* and the *spring hanger attachment (3)* for any cracks, fractures, or signs of corrosion.

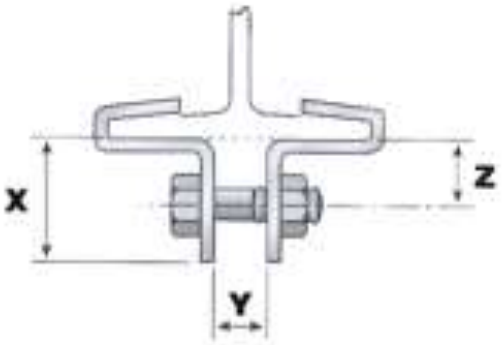
Check the *pipe clamp attachment (4), the weldless eye (5)* and *threaded rod (6)* for integrity.

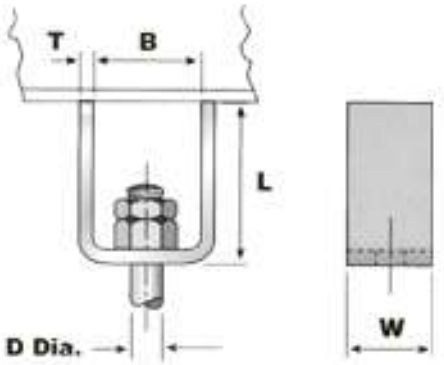
Test the *turnbuckle (7), locknuts (8)*, and other threaded items to be sure they will turn.

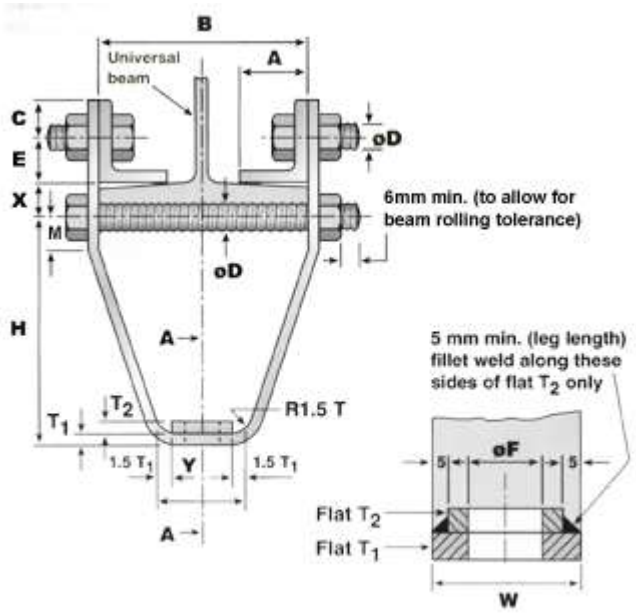
Check the *spring coil (9)* for any sign of corrosion.

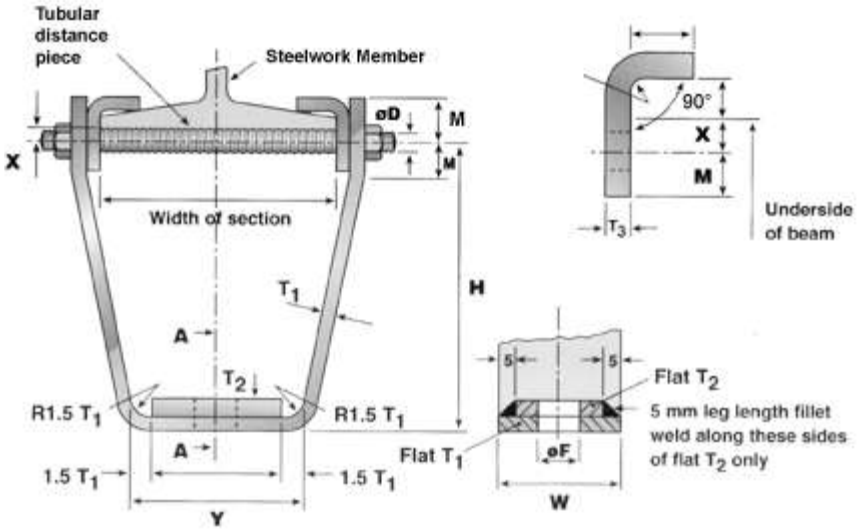
Mark the *position of the coil (10)* and compare it to design position and the

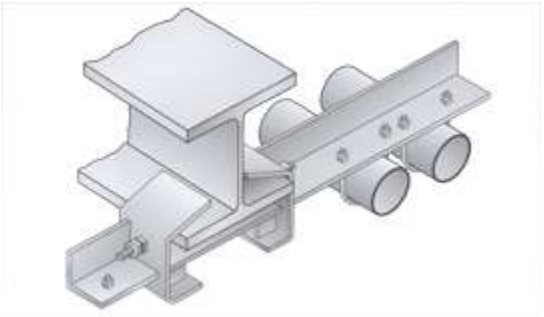


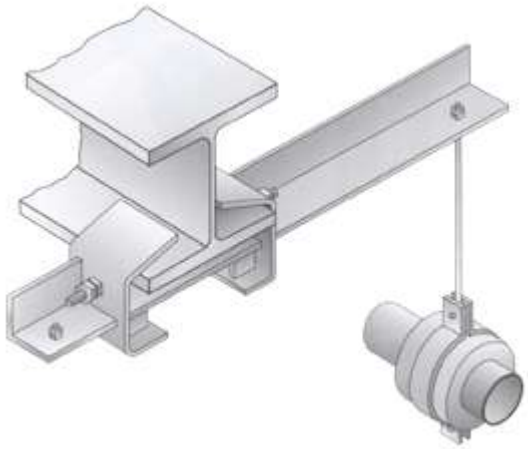

X
Z
Y

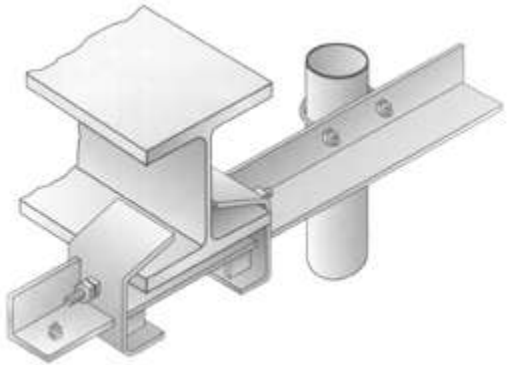

T
B
L
D Dia.
W

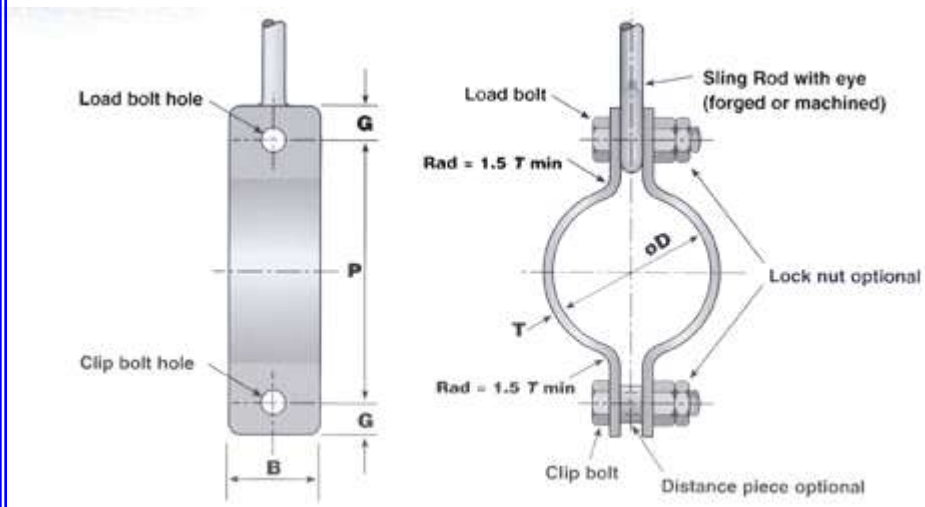

B
Universal beam
A
C
E
X
M
øD
6mm min. (to allow for beam rolling tolerance)
H
A
T1
T2
R1.5 T
1.5 T1
Y
1.5 T1
A
5 mm min. (leg length) fillet weld along these sides of flat T2 only
5
øF
5
Flat T2
Flat T1
W

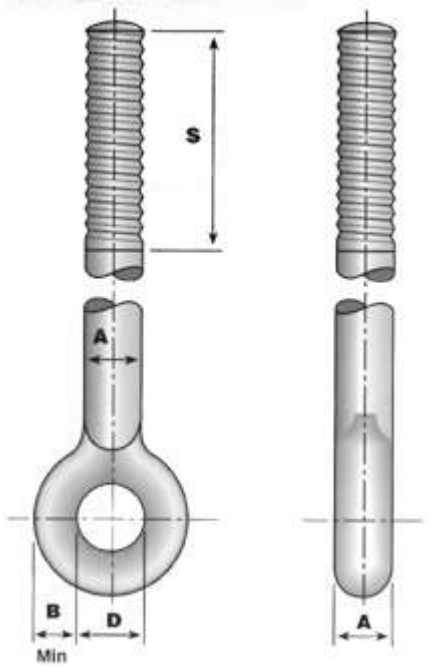

Tubular distance piece
Steelwork Member
øD
M
X
M
Width of section
T1
H
A
T2
R1.5 T1
R1.5 T1
A
1.5 T1
1.5 T1
Y
Flat T1
90°
X
M
T3
Underside of beam
5
5
Flat T2
5 mm leg length fillet weld along these sides of flat T2 only
øF
W

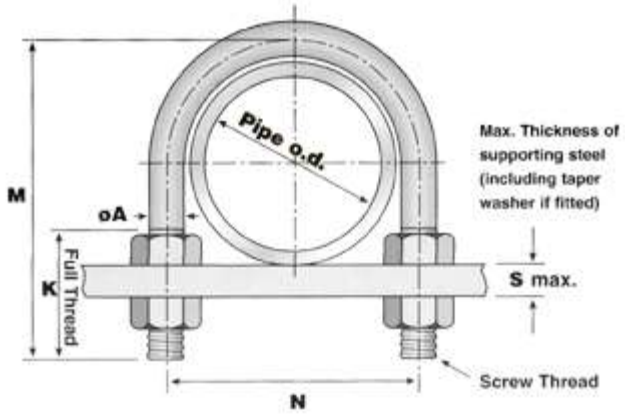


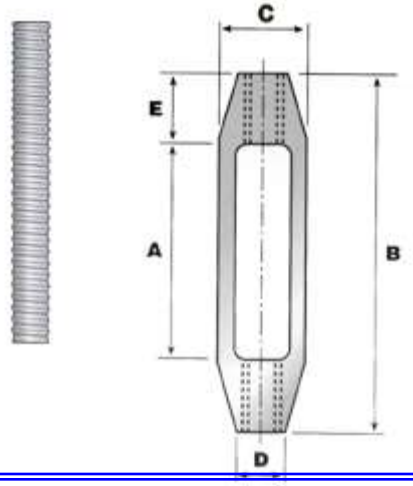


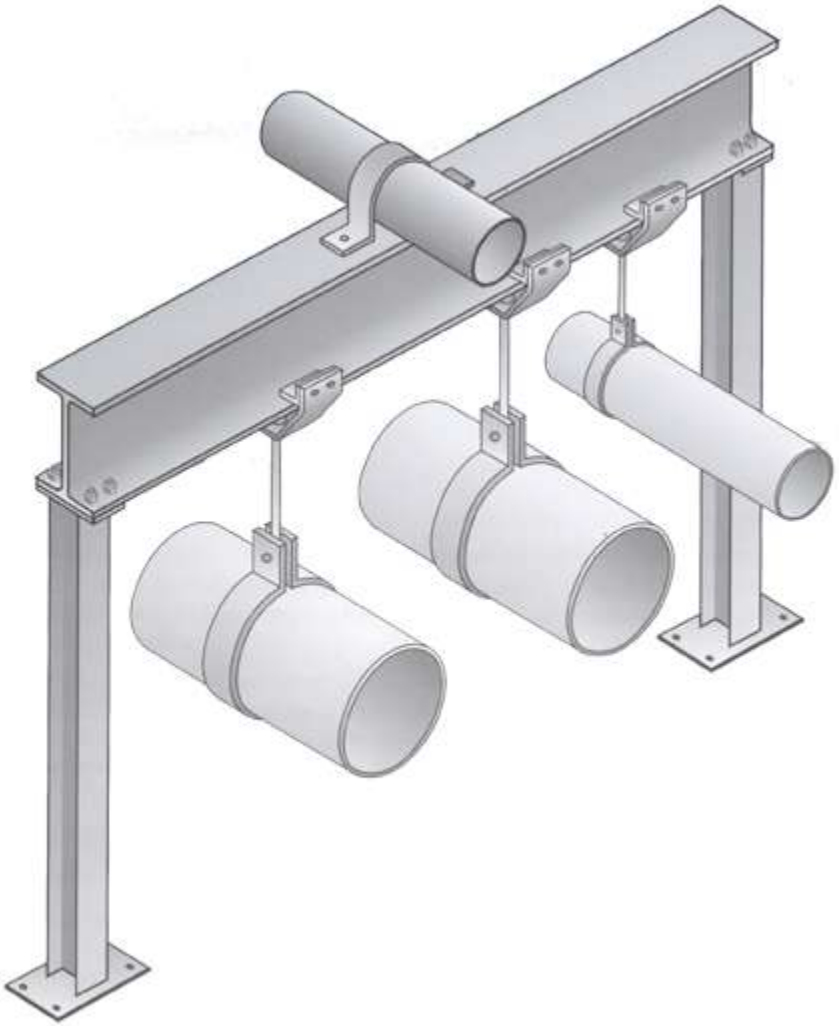


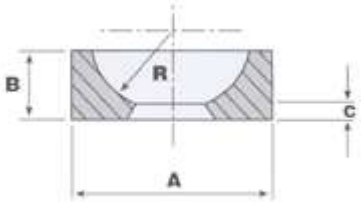


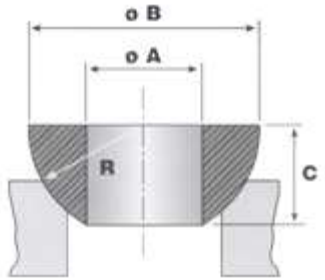


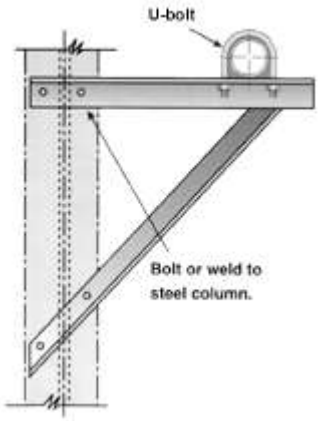


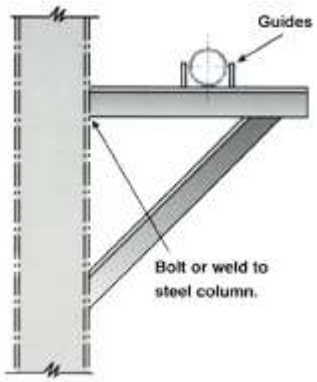


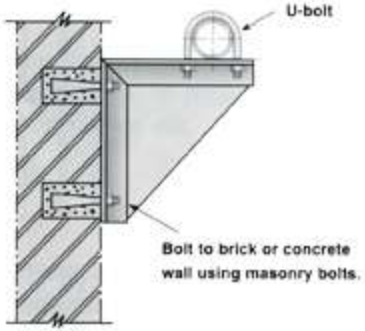


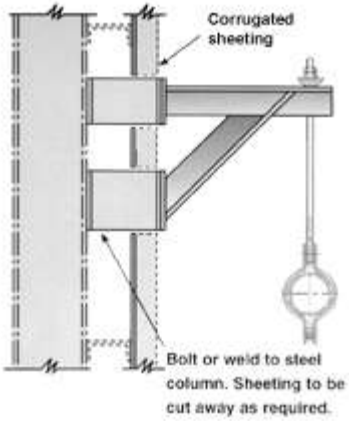


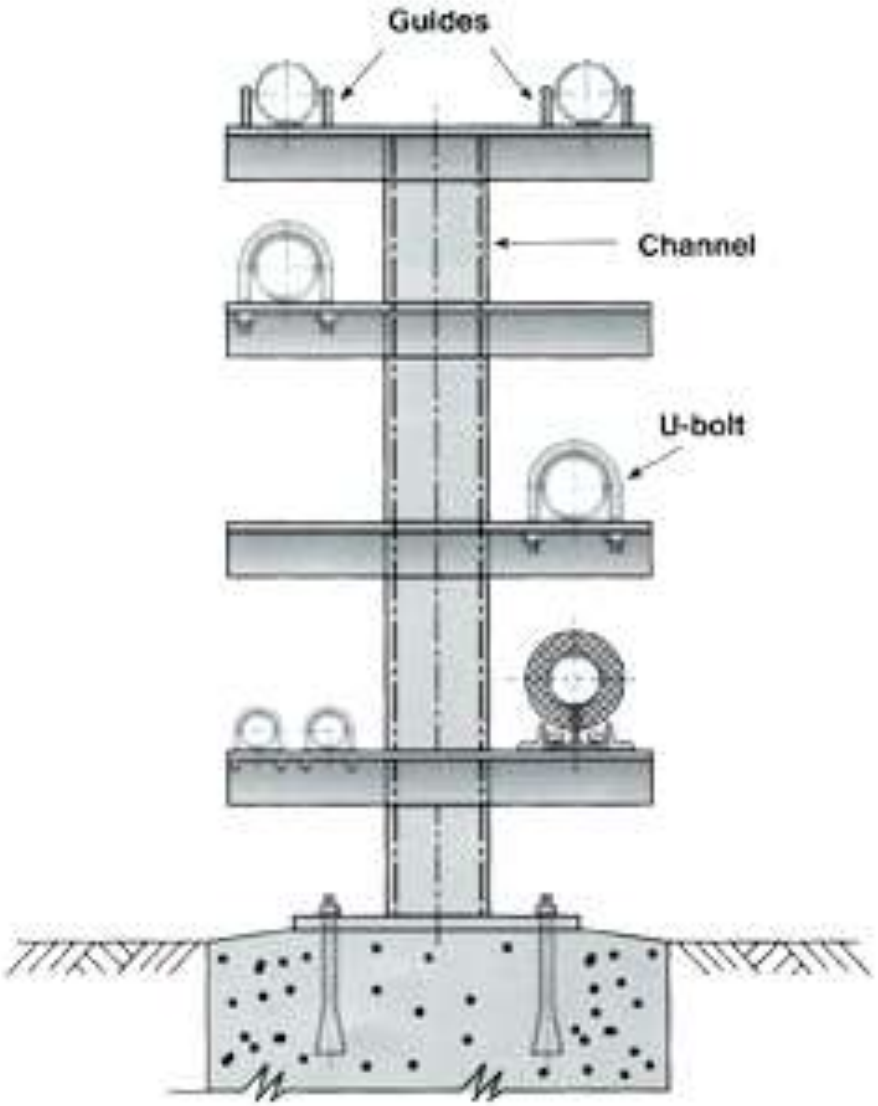




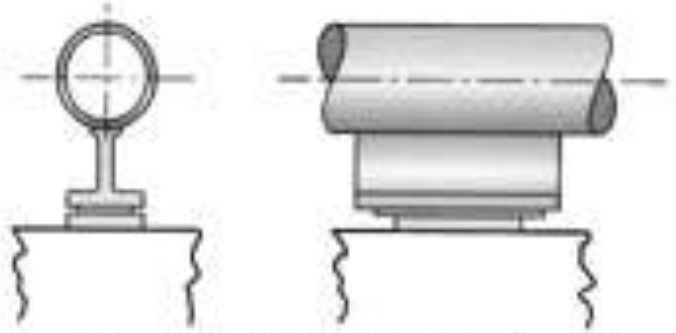




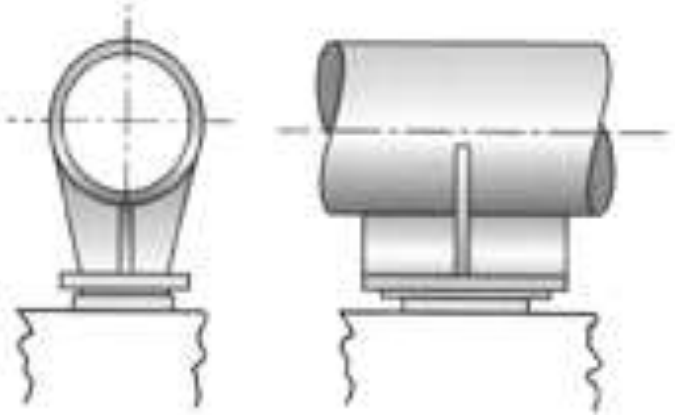



Guides
Channel
U-bolt


S96
C92
S89



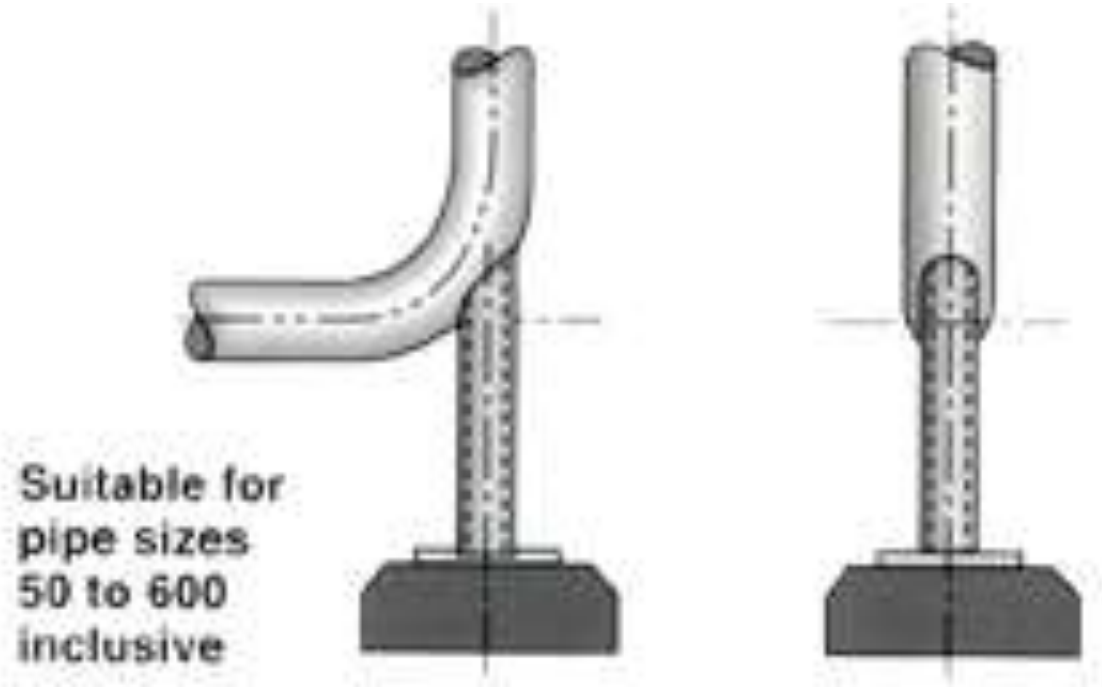
Suitable for Pipe Sizes 15 to 150 inclusive

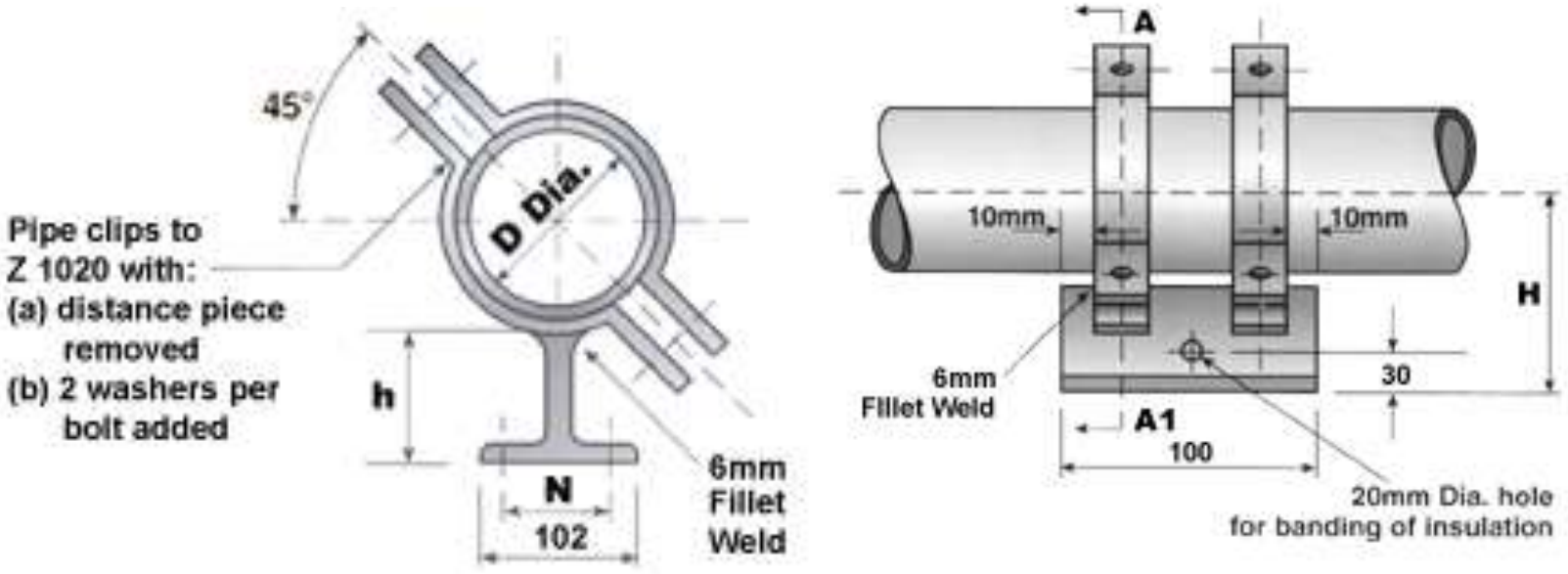


Suitable for Pipe Sizes 200 and above

NOTE: 1. Bearing surface can be P.T.F.E. to P.T.F.E or P.T.F.E. to Stainless Steel

2. Supports can be unguided as shown alternatively guided.


Suitable for
pipe sizes
50 to 600
inclusive


45°
D Dia.
Pipe clips to
Z 1020 with:
(a) distance piece
removed
(b) 2 washers per
bolt added
h
N
102
6mm
Fillet
Weld
A
10mm
10mm
H
6mm
Fillet Weld
30
A1
100
20mm Dia. hole
for banding of insulation