

Sample

 Sample
 12345-R1
 ANSI B16.5 MSS-SP44 - 4 x 2500 ANSI


ID	SIZE	1	2	Bolt Dia	N
4" Rigid Spooler to Rigid Sp	4 x 2500 ANSI	WN	SW	1.1/2"-8UN	8
10" Rigid to Spool	10 x 2500 ANSI	WN	SW	2.1/2"-8UN	12
4" Rigid Spool to Flex	4 x 2500 ANSI	WN	SW	M39x4	8
10" Rigid Spool to Flex	10 x 2500 ANSI	WN	SW	M64x6	12
Flex 4" to Flex	4 x 2500 ANSI	WN	SW	M39x4	8
4" Bend Stiffner to Rigid Sp	MANUAL INPUT	WN	WN	M27x3	10
4" BSC Plate Ext to Rigid Sp	MANUAL INPUT	WN	SW	M33x3.5	28
I Tube Ext to I Tube	30 x 150 ANSI	WN	WN	M33x3.5	28
4" I Tube to Hang	MANUAL INPUT	WN	WN	M33x3.5	20
10" Bend Stiffner to Rigid Sp	MANUAL INPUT	WN	WN	M30x3.5	20
10" Bend Stiff to E	MANUAL INPUT	WN	SW	M39x4	32
10" I Tube Ext to I Tube	34 x 150 ANSI	WN	WN	M39x4	32
10" I Tube to Hang	MANUAL INPUT	WN	WN	M39x4	22
4" Mid Water Arch	MANUAL INPUT	WN	WN	M24x3	10
10" Mid Water Arch	MANUAL INPUT	WN	WN	M30x3.5	10
4" Mid Water Arch	MANUAL INPUT	WN	WN	M20x2.5	10
4" Mid Water Arch	MANUAL INPUT	WN	WN	M20x2.5	4
10" M W Arch Flex	MANUAL INPUT	WN	WN	M36x4	10
10" Mid water Arch	MANUAL INPUT	WN	WN	M30x3.5	4
Flex 10" to Flex	10 x 2500 ANSI	WN	SW	M64x6	12

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Joint ID: 4" Rigid Spooler to Rigid Sp
 Comments:
 Bolt Thread: 1.1/2"-8UN

Specification: ANSI B16.5 & MSS-SP44
 Flange 1 Config: WN
 Clamp Length: 76.2 mm
 Tpi/Pitch: 8 De-Tension
 No Bolts: 8 Bolt/Tool: 50%
 Gasket: SEAL RING
 Gasket Gap: 10 mm
 Flange 2 Config: SW
 Clamp Length: 142 mm
 Invd Thick:
 Nut Type: HD SPLIT NUT
 Residual Bolt Stress: 55000 Lb/in²

Rating: 4 x 2500 ANSI
 Bolt: BS-4882 - L7m
 Tensioning Tool Ident: C10-03
 Spacer:

Joint Inspector

 Flange 4 x 2500 ANSI
 Ident 4" Rigid Spooler to Rigid Sp
 Specification ANSI B16.5 MSS-SP44

Bolt Characteristics

 Nom Thread Size 1.1/2"-8UN
 TPI 8
 Num Bolts 8
 Bolt to Tool Ratio 50%
 Clamp Length 8.984 in 228.20 mm
 Load Tran Factor LTF 1.1770

Tensioning Tool

 Tensioner Ident C10-03 1.1/2"-8UN
 Tool Pressure Area 7.099in² 4579.90mm²

Bolt Information

 Bolt Material BS-4882 - L7m
 Bolt Yield Strength 79770lb/in² 550N/mm²
 Tensile Stress Area 1.502in² 968.79mm²
 Bolt Length 18.20in 462.3mm

Tensioning Pressures

 Pressure A 16432psi 1133bar
 Pressure B 13693psi 944bar

Torque Information

 Torque 1626ft.lbs 2205N.m
 Coefficient of Friction used 0.12

Bolt Stress Torque Load Graph Bolt Tool Reaction Nut

Stresses based on Bolt Tensile Stress Area

	Bolt Stress		Bolt Load		% Bolt Yield
	lbf/in ²	N/mm ²	Tons	kN	%
T1 @ A Pressure	77682	535.60	52.08	518.88	97.4
T1 @ B Pressure	64735	446.33	43.40	432.40	81.2
T2 Residual	55000	379.21	36.87	367.38	68.9
T3 Residual	55000	379.21	36.87	367.38	68.9