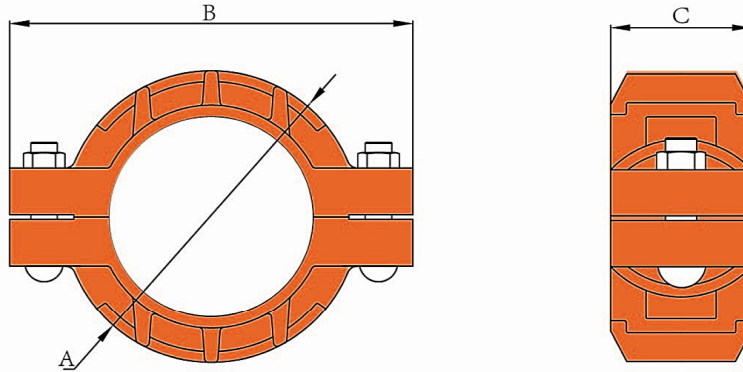
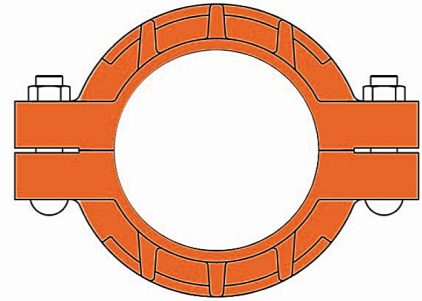


1. [Standard Weight Coupling (STYLE 11)] >>>



Pipe		Max Work press	Deflection from CL		Dimensions		
Size	O.D.				A	B	C
inch	mm	psi	degree	mm/m	in/mm	in/mm	in/mm
1 1/4"	42.2	1000	4° -20'	75.6	2.76/70.2	4.37/111	1.78/45.2
1 1/2"	48.3	1000	3° -56'	68.6	3.15/80	4.76/121	1.78/45.2
2"	57	1000	3° -20'	58.1	3.7/94	5.04/128	1.84/46.7
	60.3	1000	3° -10'	55.2	3.7/94	5.24/133	1.84/46.7
2 1/2"	73	1000	2° -30'	43.6	4.25/108	5.63/143	1.84/46.7
	76.1	1000	2° -24'	41.9	4.33/110	5.9/150	1.84/46.7
3"	88.9	1000	2° -4'	36.1	5/127	6.61/168	1.84/46.7
4"	108	1000	3° -22'	58.7	5.98/152	8.07/205	2.05/52
	114.3	1000	3° -12'	55.8	6.38/158	8.27/212	2.05/52
5"	133	1000	2° -42'	47.1	6.85/174	9.06/230	2.05/52
	140.3	1000	2° -36'	45.4	7.08/180	9.45/240	2.05/52
6"	159	1000	2° -18'	40.1	8.19/208	10.39/264	2.05/52
	165.1	1000	2° -12'	38.4	9.17/223	10.79/274	2.05/52
	168.3	1000	1° -24'	24.4	8.9/226	11.22/285	2.05/52
8"	219	800	1° -14'	20	11.38/289	14.01/356	2.36/61
10"	273	800	1° -4'	16	13.14/334	16.38/416	2.56/65
12"	323.9	800	54'	14	15.35/390	18.38/467	2.56/65

The standard of the CPS line is the style 11. It is available through 1 1/4" to 12" sizes. It is heavy-duty ribbed Construction provides for working pressures up to 1000 psi. The coupling can be galvanized or coated on request.



STYLE 11



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

ANSI BOLTS & HEAVY HEX NUTS:

Heat treated, oval-neck track head bolts conforming to ASTM A-183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A-563 Grade A or Grade B, or SAEJ995 Grade 2. Bolts and nuts are provided zinc electroplated as standard.

METRIC BOLTS & HEAVY HEX NUTS:

Heat treated, zinc electroplated oval-neck track head bolts made of carbon steel with mechanical properties per ISO 898-1 Class 8.8. Hex nuts and bolts are zinc electroplated followed by a yellow chromate dip.

COATINGS:

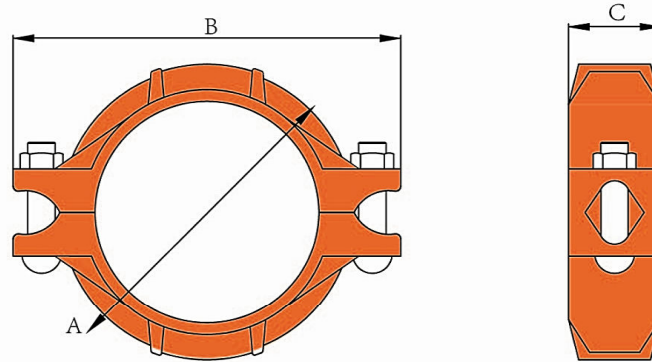
- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000
Series For other coating requirements contact CPS representative.

Gasket:

- Pre Lube gasket
- Dri-seal gasket
- Standard EPDM

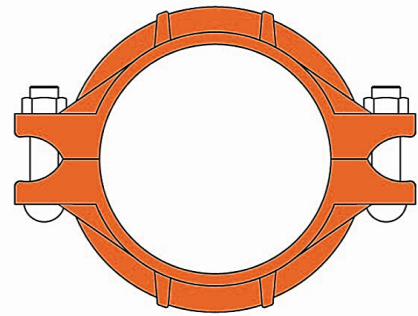
- EPDM: Temperature Range:-34°C~+110°C。
Color Mark: Green。 Suitable for hot water service within specified temperature range plus a variety of dilute acids ,oil free air and many chemical services. UL calssified for cold and hot(82°C)potable water service. Not recommended for hydrocarbon services.
- MVQ: Temperature Range:-70°C~+260°C。
Color Mark:Red。 For drinking water;hot water,oil free air, steam and petroleum.
- NBR: Temperature Range:-28.8°C~+82.2°C。
Color Mark:Orange。
Recommended for hydrocarbon products , air with oil vapors, vegetable oils and mineral oils within specified temperature range。 Not recommended for hot water services over 66°C or for dry air over 60°C。

2. [Flexible Coupling (STYLE 10)] >>>



Pipe		Max Work press	Deflection from CL		Dimensions		
Size	O.D.				A	B	C
inch	mm	psi	degree	mm/m	in/mm	in/mm	in/mm
1 1/4"	42.2	600	4° -19'	75.3	2.76/67	4.45/107	1.78/45.2
1 1/2"	48.3	600	3° -46'	65.8	3.14/74	4.49/114	1.78/45.2
2"	57	600	3°	52.3	3.5/86	5.16/124	1.84/46.7
	60.3	600	3° -1'	52.5	3.5/86	5.12/124	1.84/46.7
2 1/2"	73	600	2° -30'	43.6	4/102	5.87/139	1.84/46.7
	76.1	600	2° -30'	43.6	4/102	5.87/139	1.84/46.7
3"	88.9	600	2° -3'	35.8	4.8/117	6.42/163	1.84/46.7
4"	108	400	2° -5'	36.4	5.68/143	7.87/200	2.05/52
	114.3	400	2° -11'	38.1	5.87/149	7.52/191	2.01/51
5"	133	400	2° -10'	37.8	6.97/177	8.66/220	2.01/51
	140.3	400	2° -35'	45.1	7.09/180	9.53/242	2.01/51
6"	159	400	2° -20'	40.7	7.48/196	10.39/264	2.05/52
	165.1	400	2° -10'	37.8	7.87/206	10.78/274	2.05/52
	168.3	400	2° -10'	37.8	7.87/206	10.78/265	2.05/52
8"	219	400	1° -40'	29.1	10.55/268	13.74/349	2.4/61
10"	273	350	0° -45'	13.1	13.23/328	16.3/414	2.56/65
12"	325	350	0° -40'	11.5	15.43/392	18.35/466	2.56/65

When low to moderate pressures are anticipated, or when weight consideration becomes significant, the style 10 is recommended. Pressures up to 500 psi, depending on size. Special coatings or hot dip galvanizing are available as options.



STYLE 10



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

ANSI BOLTS & HEAVY HEX NUTS:

Heat treated, oval-neck track head bolts conforming to ASTM A-183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A-563 Grade A or Grade B, or SAEJ995 Grade 2. Bolts and nuts are provided zinc electroplated as standard.

METRIC BOLTS & HEAVY HEX NUTS:

Heat treated, zinc electroplated oval-neck track head bolts made of carbon steel with mechanical properties per ISO 898-1 Class 8.8. Hex nuts and bolts are zinc electroplated followed by a yellow chromate dip.

COATINGS:

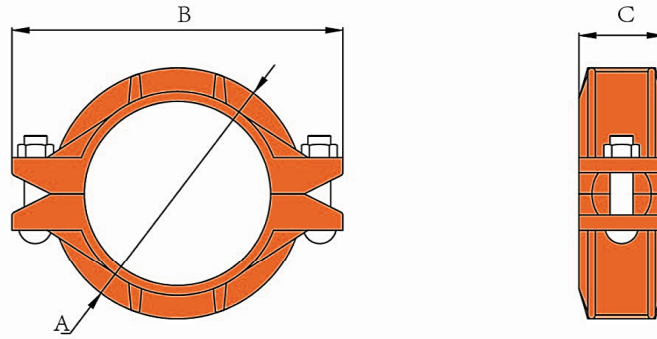
- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000 Series For other coating requirements contact CPS representative.

Gasket:

- Pre lube gasket
- Dri-seal gasket
- Standard EPDM

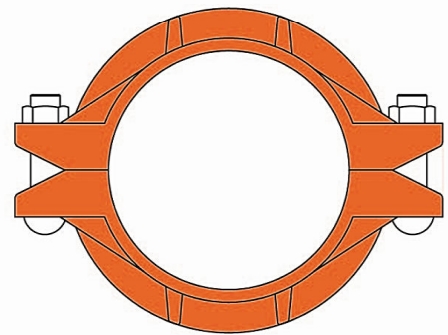
- EPDM: Temperature Range:-34°C~+110°C。
Color Mark: Green。 Suitable for hot water service within specified temperature range plus a variety of dilute acids ,oil free air and many chemical services. UL calssified for cold and hot(82°C)potable water service. Not recommended for hydrocarbon services.
- MVQ: Temperature Range:-70°C~+260°C。
Color Mark:Red。 For drinking water;hot water,oil free air, steam and petroleum.
- NBR: Temperature Range:-28.8°C~+82.2°C。
Color Mark:Orange。
Recommended for hydrocarbon products , air with oil vapors, vegetable oils and mineral oils within specified temperature range。 Not recommended for hot water services over 66°C or for dry air over 60°C。

3. [Lightweight Flexible Coupling (STYLE 10L)] >>>



Pipe		Max Work press	Deflection from CL		Dimensions		
Size	O.D.				A	B	C
inch	mm	psi	degree	mm/m	in/mm	in/mm	in/mm
1 1/4"	42.2	300	4° -19'	75.3	2.64/67	4.09/104	1.78/45.2
1 1/2"	48.3	300	3° -46'	65.8	2.83/72	4.29/109	1.78/45.2
2"	60.3	300	3° -1'	52.5	3.31/84	4.65/118	1.84/46.7
2 1/2"	73	300	2° -30'	43.6	3.82/97	5.24/133	1.84/46.7
	76	300	2° -30'	43.6	3.82/97	5.35/136	1.84/46.7
3"	88.9	300	2° -3'	35.8	4.45/113	6.18/157	1.84/46.7
4"	114	300	2° -11'	38.1	5.75/146	7.56/192	2.05/52
6"	165.1	300	2° -10'	37.8	7.83/199	9.84/250	2.05/52
	168.3	300	2° -10'	37.8	7.91/201	10.2/259	2.05/52
8"	219	300	1° -40'	29.1	10.12/257	13.15/334	2.36/60

When low pressures are anticipated, or when weight consideration becomes significant. The style 10L is recommended. Pressures up to 175psi, depending on size. Special coatings or hot dip galvanizing are available as options.



STYLE 10L



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

ANSI BOLTS & HEAVY HEX NUTS:

Heat treated, oval-neck track head bolts conforming to ASTM A-183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A-563 Grade A or Grade B, or SAEJ995 Grade 2. Bolts and nuts are provided zinc electroplated as standard.

METRIC BOLTS & HEAVY HEX NUTS:

Heat treated, zinc electroplated oval-neck track head bolts made of carbon steel with mechanical properties per ISO 898-1 Class 8.8. Hex nuts and bolts are zinc electroplated followed by a yellow chromate dip.

COATINGS:

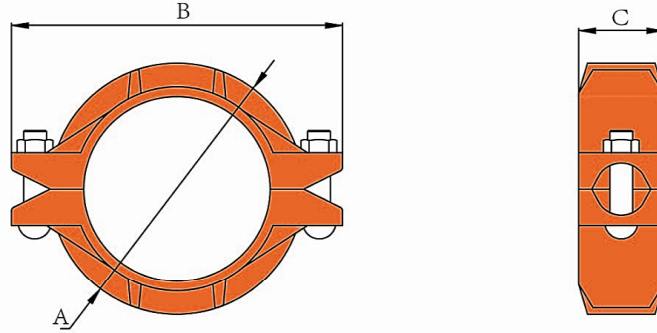
- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000
Series For other coating requirements contact CPS representative.

Gasket:

- Pre Lube gasket
- Dri-seal gasket
- Standard EPDM

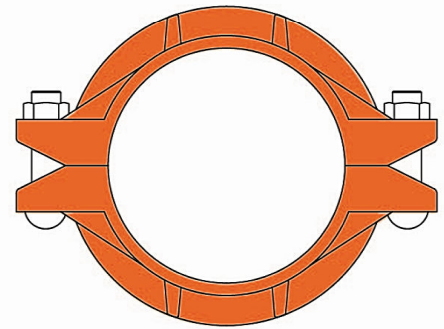
- EPDM: Temperature Range:-34°C~+110°C。
Color Mark: Green。 Suitable for hot water service within specified temperature range plus a variety of dilute acids ,oil free air and many chemical services. UL calssified for cold and hot(82°C)potable water service. Not recommended for hydrocarbon services.
- MVQ: Temperature Range:-70°C~+260°C。
Color Mark:Red。 For drinking water;hot water,oil free air, steam and petroleum.
- NBR: Temperature Range:-28.8°C~+82.2°C。
Color Mark:Orange。
Recommended for hydrocarbon products , air with oil vapors, vegetable oils and mineral oils within specified temperature range。 Not recommended for hot water services over 66°C or for dry air over 60°C.

4. [Rigid Coupling (STYLE 5)] >>>



Pipe		Max Work press	Deflection from CL		Dimensions		
Size	O.D.				A	B	C
inch	mm	psi	degree	mm/m	in/mm	in/mm	in/mm
1 1/4"	42.2	600	1° -30'	26.2	2.83/72	4.09/109	1.77/45
1 1/2"	48.3	600	1° -30'	26.2	2.87/73	4.53/115	1.77/45
2"	57	600	1° -30'	26.2	3.46/88	4.88/124	1.84/46.7
	60.3	600	1° -30'	26.2	3.46/88	5/127	1.84/46.7
2 1/2"	73	600	1° -30'	26.2	3.94/100	5.55/141	1.84/46.7
	76.1	600	1° -30'	26.2	4.02/102	5.55/141	1.84/46.7
3"	88.9	600	1° -30'	26.2	4.65/118	6.38/162	1.85/47
4"	108	400	1° -30'	20.4	5.63/143	7.83/199	2.05/52
	114.3	400	0° -30'	20.4	5.87/149	7.72/196	2.05/52
5"	133	300	0° -30'	8.7	6.73/171	8.66/220	2.05/52
	140.3	300	0° -30'	8.7	7.09/180	9.53/242	2.05/52
6"	159	300	0° -30'	8.7	7.72/196	10.4/264	2.05/52
	165.1	300	0° -30'	8.7	8.11/206	10.8/274.2	2.05/52
	168.3	300	0° -30'	8.7	8.03/204	10.43/265	2.05/52
8"	219	300	0° -30'	8.7	10.39/264	13.74/349	2.4/61
10"	273	300	0° -30'	8.7	12.91/328	16.4/409	2.56/65
12"	325	300	0° -30'	7.3	14.96/380	18.39/467	2.56/65

Style 5 coupling adjust to standard pipe and rolled or cut groove tolerances. Positively clamping the pipe to resist flexural and torsional loads. Wider key section fills more of grooved area. Special coatings or hot dip galvanizing are options.



STYLE 5



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

ANSI BOLTS & HEAVY HEX NUTS:

Heat treated, oval-neck track head bolts conforming to ASTM A-183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A-563 Grade A or Grade B, or SAEJ995 Grade 2. Bolts and nuts are provided zinc electroplated as standard.

METRIC BOLTS & HEAVY HEX NUTS:

Heat treated, zinc electroplated oval-neck track head bolts made of carbon steel with mechanical properties per ISO 898-1 Class 8.8. Hex nuts and bolts are zinc electroplated followed by a yellow chromate dip.

COATINGS:

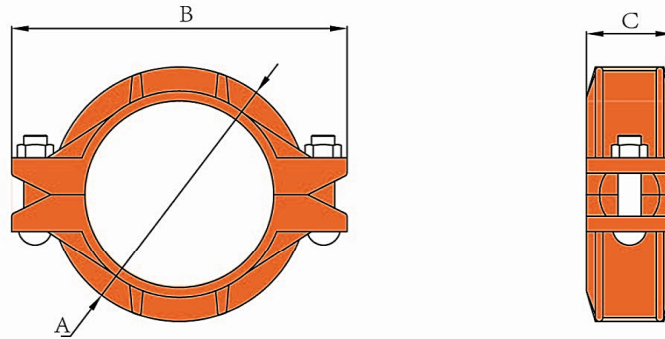
- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000
Series For other coating requirements contact CPS representative.

Gasket:

- Pre Lube gasket
- Dri-seal gasket
- Standard EPDM

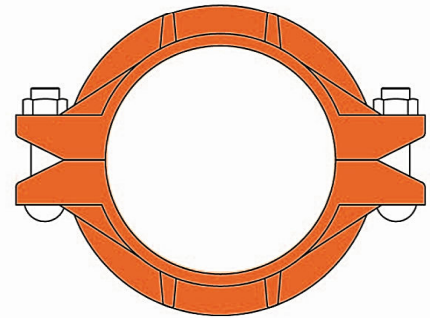
- EPDM: Temperature Range:-34°C~+110°C。
Color Mark: Green。 Suitable for hot water service within specified temperature range plus a variety of dilute acids ,oil free air and many chemical services. UL calssified for cold and hot(82°C)potable water service. Not recommended for hydrocarbon services.
- MVQ: Temperature Range:-70°C~+260°C。
Color Mark:Red。 For drinking water;hot water,oil free air, steam and petroleum.
- NBR: Temperature Range:-28.8°C~+82.2°C。
Color Mark:Orange。
Recommended for hydrocarbon products , air with oil vapors, vegetable oils and mineral oils within specified temperature range。 Not recommended for hot water services over 66°C or for dry air over 60°C。

5. [Lightweight Rigid Coupling (STYLE 5L)] >>>



Pipe		Max Work press	Deflection from CL		Dimensions		
Size	O.D.				A	B	C
inch	mm	psi	degree	mm/m	in/mm	in/mm	in/mm
1 1/4"	42.2	300	1° -30'	26.2	2.64/67	4.25/108	1.78/45.2
1 1/2"	48.3	300	1° -30'	26.2	2.83/72	4.53/115	1.78/45.2
2"	60.3	300	1° -30'	26.2	3.31/84	5.04/128	1.84/46.7
2 1/2"	73	300	1° -30'	26.2	3.82/97	5.43/138	1.84/46.7
	76	300	1° -30'	26.2	3.82/97	5.55/141	1.84/46.7
3"	88.9	300	1° -36'	26.2	4.45/113	6.38/162	1.84/46.7
4"	114	300	0° -30'	20.4	5.79/147	7.6/193	2.05/52
6"	165.1	300	2° -10'	37.8	7.83/199	9.96/253	2.05/52
	168.3	300	2° -10'	37.8	7.91/201	10.2/259	2.05/52
8"	219	300	1° -40'	29.1	10.04/255	12.44/316	2.36/60

When low pressures are anticipated, or when weight consideration becomes significant. The style 5L is recommended. Pressures up to 175psi. Positively clamping the pipe to resist flexural and torsional loads. Wider key section fills more of grooved area. Special coatings or hot dip galvanizing are available as options.



STYLE 5L



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

ANSI BOLTS & HEAVY HEX NUTS:

Heat treated, oval-neck track head bolts conforming to ASTM A-183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A-563 Grade A or Grade B, or SAEJ995 Grade 2. Bolts and nuts are provided zinc electroplated as standard.

METRIC BOLTS & HEAVY HEX NUTS:

Heat treated, zinc electroplated oval-neck track head bolts made of carbon steel with mechanical properties per ISO 898-1 Class 8.8. Hex nuts and bolts are zinc electroplated followed by a yellow chromate dip.

COATINGS:

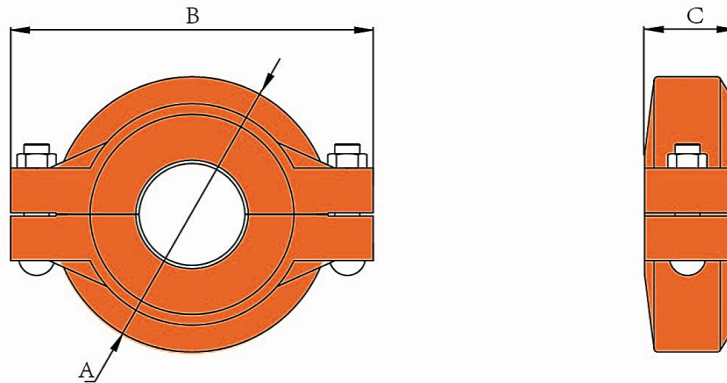
- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000 Series For other coating requirements contact CPS representative.

Gasket:

- Pre Lube gasket
- Dri-seal gasket
- Standard EPDM

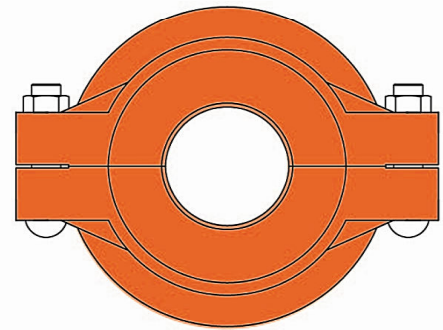
- EPDM: Temperature Range:-34°C~+110°C。
Color Mark: Green。 Suitable for hot water service within specified temperature range plus a variety of dilute acids ,oil free air and many chemical services. UL calssified for cold and hot(82°C)potable water service. Not recommended for hydrocarbon services.
- MVQ: Temperature Range:-70°C~+260°C。
Color Mark:Red。 For drinking water;hot water,oil free air, steam and petroleum.
- NBR: Temperature Range:-28.8°C~+82.2°C。
Color Mark:Orange。
Recommended for hydrocarbon products , air with oil vapors, vegetable oils and mineral oils within specified temperature range。 Not recommended for hot water services over 66°C or for dry air over 60°C.

6. [Reducing Coupling (STYLE 25)] >>>



Pipe		Max Work press	Deflection from CL		Dimensions		
Size inch	O.D. mm		psi	degree	mm/m	A in/mm	B in/mm
2"x1 1/2"	60.3x48.3	350	1° -53'	33.3	3.39/86	5/127	1.84/46.7
2 1/2"x2"	73x60.3	350	1° -33'	26.7	3.82/97	5.55/141	1.84/46.7
	76.1x60.3	350	1° -33'	26.7	4.13/105	5.87/149	1.84/46.7
3"x2"	88.9x60.3	350	1° -17'	22.4	4.57/116	6.42/163	1.84/46.7
3"x2 1/2"	88.9x73	350	1° -17'	22.4	4.57/116	6.42/163	1.84/46.7
	88.9x76.1	350	1° -17'	22.4	4.79/121	6.77/172	1.84/46.7
4"x2"	108x60.3	350	2° -38'	45.8	5.31/135	7.48/190	1.97/50
	114.3x60.3	350	2° -38'	45.8	5.98/152	7.72/196	1.97/50
4"x2 1/2"	108x73	350	2° -38'	45.8	5.31/135	7.48/190	1.97/50
	108x76.1	350	2° -38'	45.8	5.31/135	7.48/190	1.97/50
	114.3x73	350	2° -38'	45.8	5.87/149	7.72/196	1.97/50
	114.3x76.1	350	2° -38'	45.8	5.87/149	7.72/196	1.97/50
4"x3"	108x88.9	350	2° -38'	45.8	5.31/135	7.48/190	1.97/50
	114.3x88.9	350	2° -38'	45.8	5.83/148	7.99/203	1.97/50
6"x4"	159x108	350	1° -44'	30.2	7.48/190	10.75/273	2.05/52
	165.1x108	350	1° -44'	30.2	8.03/204	10.98/279	2.05/52
	165.1x114.3	350	1° -44'	30.2	8.03/204	10.98/279	2.05/52
	168.3x108	350	1° -44'	30.2	8.07/205	10.63/270	2.05/52
	168.3x114.3	350	1° -44'	30.2	8.07/205	10.63/270	2.05/52
6"x5"	165.1x140.3	350	1° -44'	30.2	7.99/203	11.26/286	2.05/52
	168.3x140.3	350	1° -44'	30.2	8.03/204	11.26/286	2.05/52
8"x6"	219x165.1	350	1° -15'	21.8	10.35/263	13.15/334	2.2/56
	219x168.3	350	1° -15'	21.8	10.35/263	13.15/334	2.2/56

Reducing coupling permit direct reduction on the piping run. Special coatings and hot dip galvanizing are options.



STYLE 25



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

ANSI BOLTS & HEAVY HEX NUTS:

Heat treated, oval-neck track head bolts conforming to ASTM A-183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A-563 Grade A or Grade B, or SAEJ995 Grade 2. Bolts and nuts are provided zinc electroplated as standard.

METRIC BOLTS & HEAVY HEX NUTS:

Heat treated, zinc electroplated oval-neck track head bolts made of carbon steel with mechanical properties per ISO 898-1 Class 8.8. Hex nuts and bolts are zinc electroplated followed by a yellow chromate dip.

COATINGS:

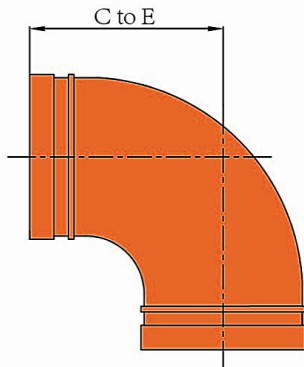
- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000 Series For other coating requirements contact CPS representative.

Gasket:

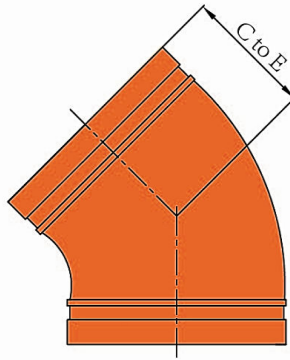
- Pre Lube gasket
- Dri-seal gasket
- Standard EPDM

- EPDM: Temperature Range:-34°C~+110°C。
Color Mark: Green。 Suitable for hot water service within specified temperature range plus a variety of dilute acids ,oil free air and many chemical services. UL calssified for cold and hot(82°C)potable water service. Not recommended for hydrocarbon services.
- MVQ: Temperature Range:-70°C~+260°C。
Color Mark:Red。 For drinking water;hot water,oil free air, steam and petroleum.
- NBR: Temperature Range:-28.8°C~+82.2°C。
Color Mark:Orange。
Recommended for hydrocarbon products , air with oil vapors, vegetable oils and mineral oils within specified temperature range。 Not recommended for hot water services over 66°C or for dry air over 60°C。

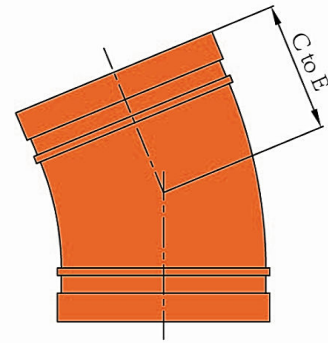
7. [Grooved End Fittings] >>>



**90° elbow
STYLE 100**



**45° elbow
STYLE 101**

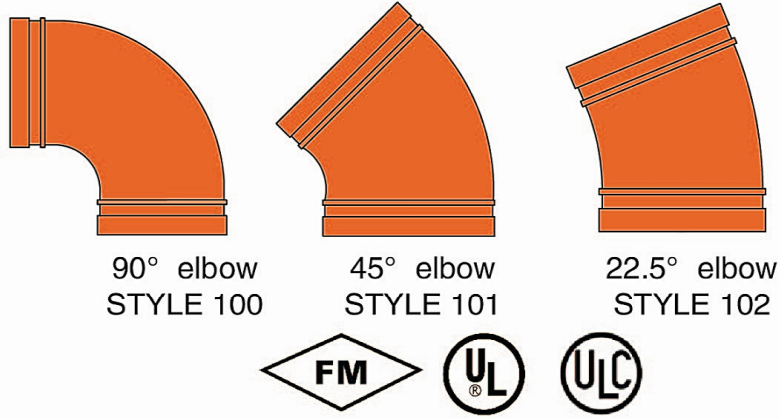


**22.5° elbow
STYLE 102**

Pipe		Max Work press	90° Elbow	45° Elbow	22.5° Elbow
Size	O.D.		C to E	C to E	C to E
inch	mm	psi	in/mm	in/mm	in/mm
1 1/4"	42.2	600	2.76/70	1.75/44.5	1.73/44
1 1/2"	48.3	600	2.76/70	1.75/44.5	1.73/44
2"	57	600	3.27/83	2.01/51	2.01/51
	60.3	600	3.27/83	2.01/51	2.01/51
2 1/2"	73	600	3.74/95	2.24/57	2.01/51
	76.1	600	3.74/95	2.24/57	2.01/51
3"	88.9	600	4.25/108	2.5/63.5	2.5/63.5
4"	108	600	5/127	2.99/76	2.87/73
	114.3	600	5/127	2.99/76	2.87/73
5"	133	600	5.51/140	3.27/83	2.87/73
	140.3	600	5.51/140	3.27/83	2.87/73
6"	159	600	6.5/165	3.11/79	3.11/79
	165.1	600	6.5/165	3.11/79	3.11/79
	168.3	600	6.5/165	3.11/79	3.11/79
8"	219	600	7.76/197	4.25/108	3.86/98
10"	273	350	9.02/229	4.76/121	4.37/111
12"	325	350	10/254	5.24/133	4.88/124



CPS



90° elbow
STYLE 100

45° elbow
STYLE 101

22.5° elbow
STYLE 102



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

COATINGS:

- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000
Series For other coating requirements contact CPS representative.

Mechanical properties:

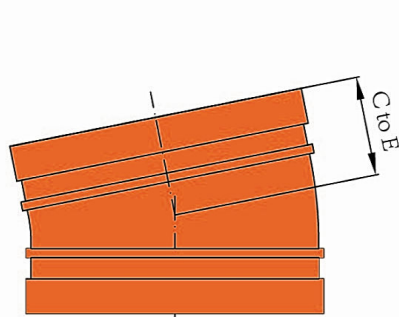
Tensile strength: 450mpa,The yield

Strength: 315mpa, elongation 12%,

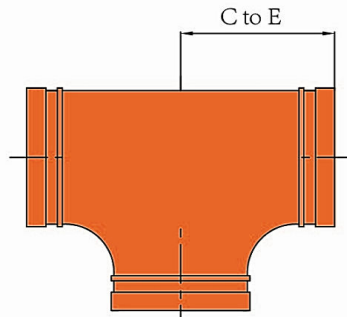
Ferrite: more than 75%,

Spheroidizing lecel: above 3,Graphite size 6, without cementite and phosphorus coenosarc.

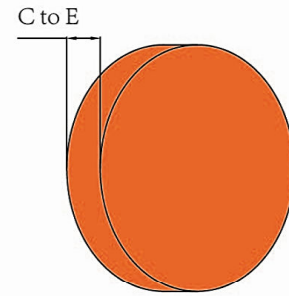
8. [Grooved End Fittings] >>>



**11.25° Elbow
STYLE 103**



**Tee
STYLE 110**

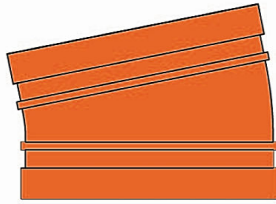


**Cap
STYLE 150**

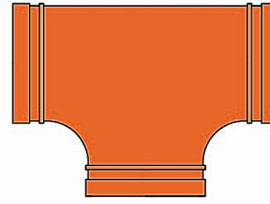
Pipe		Max Work press	11.25° Elbow	Tee	Cap
Size	O.D.		C to E	C to E	C to E
inch	mm	psi	in/mm	in/mm	in/mm
1 1/4"	42.2	600	1.38/35	2.76/70	0.6/15.8
1 1/2"	48.3	600	1.38/35	2.76/70	0.6/15.8
2"	57	600	1.38/35	3.27/83	0.6/15.8
	60.3	600	1.38/35	3.27/83	0.6/15.8
2 1/2"	73	600	1.5/38	3.74/95	0.6/15.8
	76.1	600	1.5/38	3.74/95	0.6/15.8
3"	88.9	600	1.5/38	4.25/108	0.6/15.8
4"	108	600	1.73/44	5/127	0.6/15.8
	114.3	600	1.73/44	5/127	0.6/15.8
5"	133	600	1.73/44	5.51/140	0.6/15.8
	140.3	600	2/51	5.51/140	0.6/15.8
6"	159	600	2/51	6.5/165	0.6/15.8
	165.1	600	2/51	6.5/165	0.6/15.8
	168.3	600	2/51	6.5/165	0.6/15.8
8"	219	600	2/51	7.76/197	0.75/19
10"	273	350	2.13/54	9.06/230	0.75/19
12"	325	350	2.24/57	10/254	0.75/19



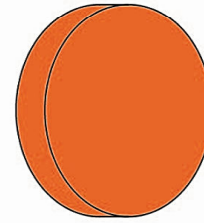
CPS



11.25° Elbow
STYLE 103



Tee
STYLE 110



Cap
STYLE 150



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

COATINGS:

- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000
Series For other coating requirements contact CPS representative.

Mechanical properties:

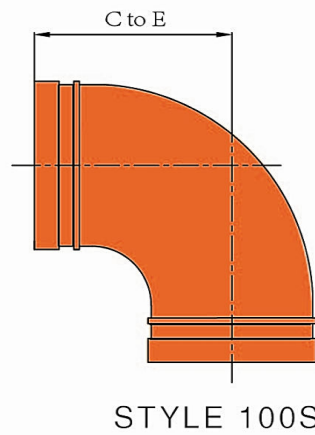
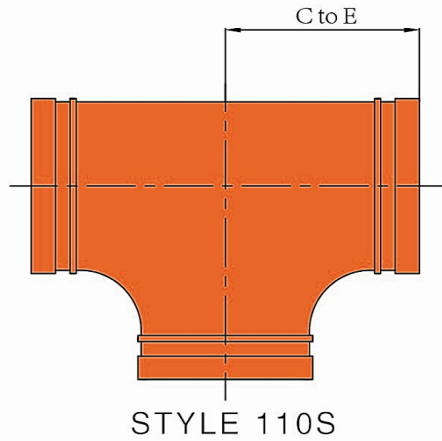
Tensile strength: 450mpa, The yield

Strength: 315mpa, elongation 12%,

Ferrite: more than 75%,

Spheroidizing level: above 3, Graphite size 6, without cementite and phosphorus coenosarc.

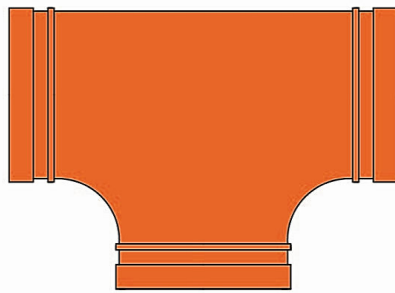
9. [Grooved Fittings – Short Pattern] >>>



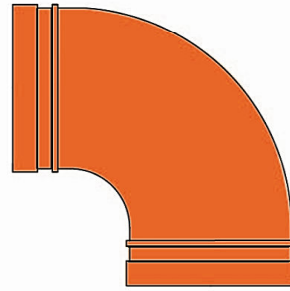
Pipe		Max Work press	Style 100s	Style 110s
Size	O.D.		C to E	C to E
inch	mm	psi	in/mm	in/mm
1 1/4"	42	600	2.24/57	2.24/57
1 1/2"	48	600	2.52/64	2.52/64
2"	60	600	2.76/70	2.76/70
2 1/2"	73	600	2.99/76	2.99/76
3"	89	600	3.39/86	3.39/86
4"	114	600	4.02/102	4.02/102
5"	140.3	600	4.88/124	4.88/124
6"	168	600	5.59/142	5.59/142
8"	219	600	7.05/179	7.05/179



CPS



Style 110S



Style 100S



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

COATINGS:

- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000 Series For other coating requirements contact CPS representative.

Mechanical properties:

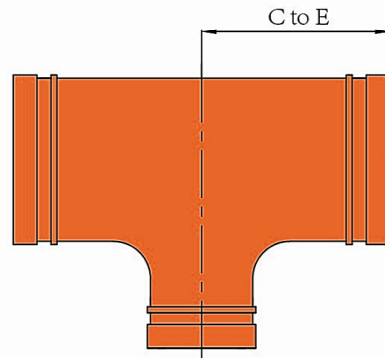
Tensile strength: 450mpa, The yield

Strength: 315mpa, elongation 12%,

Ferrite: more than 75%,

Spheroidizing level: above 3, Graphite size 6, without cementite and phosphorus coenosarc.

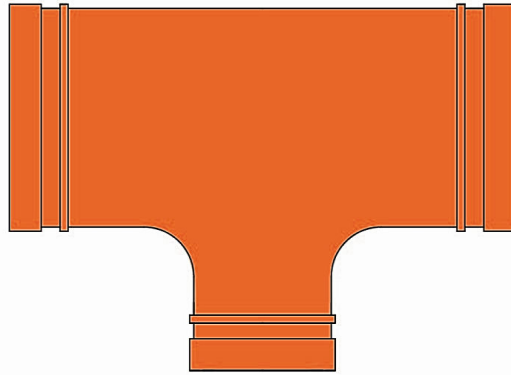
10. [Reducing Tee (STYLE 115)] >>>



Pipe		Max Work press psi	C to E in/mm
Size inch	O.D. mm		
3"x3"x2"	88.9x88.9x60.3	600	4.25/108
3"x3"x2-1/2"	88.9x88.9x73	600	4.25/108
	88.9x88.9x76.1	600	4.25/108
4"x4"x2"	108x108x60.3	600	5/127
	114.3x114.3x60.3	600	5/127
4"x4"x2-1/2"	108x108x73	600	5/127
	108x108x76.1	600	5/127
	114.3x114.3x73	600	5/127
	114.3x114.3x76.1	600	5/127
4"x4"x3"	108x108x88.9	600	5/127
	114.3x114.3x88.9	600	5/127
6"x6"x2"	159x159x60.3	600	6.5/165
	165.1x165.1x60.3	600	6.5/165
	168.3x168.3x60.3	600	6.5/165
6"x4"x2-1/2"	159x159x73	600	6.5/165
	165.1x165.1x73	600	6.5/165
	168.3x168.3x73	600	6.5/165
	159x159x76	600	6.5/165
	165.1x165.1x76.1	600	6.5/165
	168.3x168.3x76.1	600	6.5/165
6"x6"x3"	159x159x88.9	600	6.5/165
	165.1x165.1x88.9	600	6.5/165
	168.3x168.3x88.9	600	6.5/165
6"x6"x4"	159x159x114.3	600	6.5/165
	165.1x165.1x114.3	600	6.5/165
	168.3x168.3x114.3	600	6.5/165
8"x8"x4"	219x219x108	600	7.76/197
	219x219x114.3	600	7.76/197
8"x8"x6"	219x219x165.1	600	7.76/197
	219x219x168.3	600	7.76/197
10"x10"x4"	273x273x114	600	9.06/230
10"x10"x6"	273x273x165	600	9.06/230
12"x12"x6"	325x325x165	600	10/254
12"x12"x8"	325x325x219	600	10/254



CPS



STYLE 115



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

COATINGS:

- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000 Series For other coating requirements contact CPS representative.

Mechanical properties:

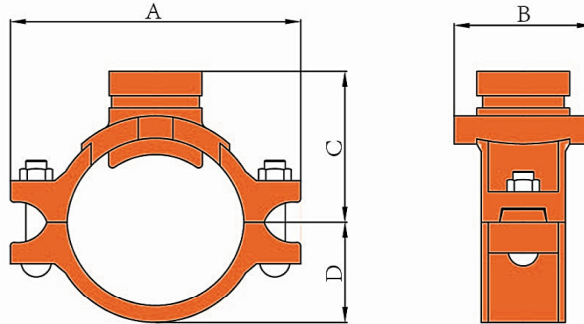
Tensile strength: 450mpa,The yield

Strength: 315mpa, elongation 12%,

Ferrite: more than 75%,

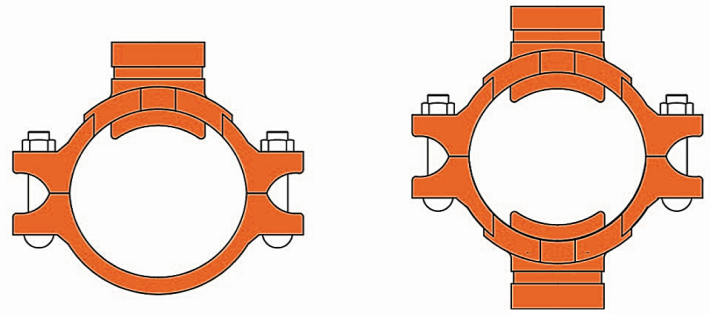
Spheroidizing level: above 3,Graphite size 6, without cementite and phosphorus coenosarc.

11. [Mechanical Snap Tee (STYLE 15G) Grooved Outlet] >>>



Size inch	Pipe		Max Work press psi	Dimensions			
	O.D. mm	Cutting.Dia inch(mm)		A	B	C	D
in/mm							
2 1/2"x1 1/2"	73x48.3	2"(50.8)	400	5.59/142	3.68/93.5	3.11/79	1.77/45
3"x1-1/2"	88.9x48.3	2-1/16"(52)	400	6.5/165	3.62/92	3.35/85	2.13/54
3"x2"	88.9x60.3	2-7/16"(62)	400	6.5/165	3.98/101	3.35/85	2.13/54
4"x1-1/2"	114.3x48.3	2-1/16"(52)	400	7.4/188	3.62/92	3.82/97	2.64/67
4"x2"	114.3x60.3	2-7/16"(62)	400	7.4/188	3.98/102	3.86/98	2.64/67
4"x2-1/2"	114.3x73	3-1/8"(80)	400	7.4/188	4.8/122	3.86/98	2.64/67
4"x3"	114.3x88.9	3-1/2"(88.9)	400	7.4/188	5/127	3.86/98	2.64/67
6"x1-1/2"	168.3x48.3	2-1/16"(52)	400	9.37/238	3.62/92	4.96/126	3.7/94
6"x2"	168.3x60.3	2-7/16"(62)	400	9.37/238	4.37/111	4.96/126	3.7/94
6"x2-1/2"	168.3x73	3-1/8"(80)	400	9.37/238	4.88/124	5.04/128	3.7/94
6"x3"	168.3x88.9	3-1/2"(88.9)	400	9.37/238	5.31/135	5.04/128	3.7/94
6"x4"	168.3x114.3	4-1/2"(114.3)	400	9.37/238	6.18/157	5.04/128	3.7/94
8"x2"	219.1x60.3	2-3/8"(60.3)	400	11.85/301	4.17/106	6.38/162	4.65/118
8"x2-1/2"	219.1x73	3-1/2"(88.9)	400	12.48/317	5.47/139	6.38/162	4.65/118
8"x3"	219.1x88.9	3-1/2"(88.9)	400	12.48/317	5.47/139	6.5/165	4.65/118
8"x4"	219.1x114.3	4-1/2"(114.3)	400	12.48/317	6.77/172	6.1/155	4.65/118

Mechanical snap tee serve as a joining device providing an integral reducing outlet. Tees can also be made into crosses providing two outlets instead of one. Style 15 crosses are labeled as style 15GC.



STYLE 15G

STYLE 15GC



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

ANSI BOLTS & HEAVY HEX NUTS:

Heat treated, oval-neck track head bolts conforming to ASTM A-183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A-563 Grade A or Grade B, or SAEJ995 Grade 2. Bolts and nuts are provided zinc electroplated as standard.

METRIC BOLTS & HEAVY HEX NUTS:

Heat treated, zinc electroplated oval-neck track head bolts made of carbon steel with mechanical properties per ISO 898-1 Class 8.8. Hex nuts and bolts are zinc electroplated followed by a yellow chromate dip.

COATINGS:

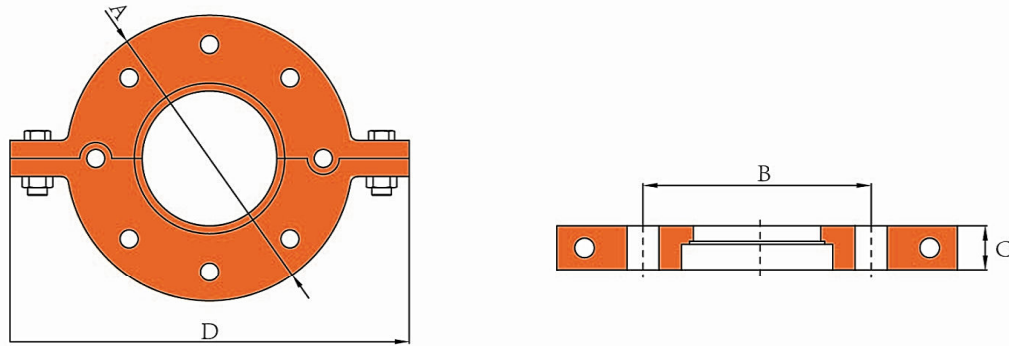
- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000 Series For other coating requirements contact CPS representative.

Gasket:

- Pre Lube gasket
- Dri-seal gasket
- Standard EPDM

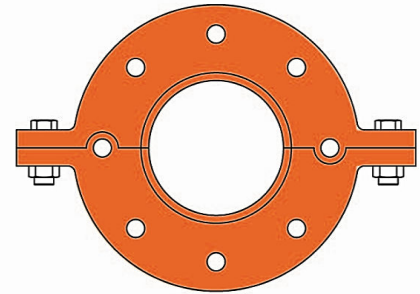
- EPDM: Temperature Range:-34°C~+110°C。
Color Mark: Green。 Suitable for hot water service within specified temperature range plus a variety of dilute acids ,oil free air and many chemical services. UL calssified for cold and hot(82°C)potable water service. Not recommended for hydrocarbon services.
- MVQ: Temperature Range:-70°C~+260°C。
Color Mark:Red。 For drinking water;hot water,oil free air, steam and petroleum.
- NBR: Temperature Range:-28.8°C~+82.2°C。
Color Mark:Orange。
Recommended for hydrocarbon products , air with oil vapors, vegetable oils and mineral oils within specified temperature range。 Not recommended for hot water services over 66°C or for dry air over 60°C.

12. [Grooved Flange (STYLE 14) ANSI 150] >>>



Pipe		Max Work press psi	Nuts & Bolts set	Nuts & Bolts Standard Dia x Lt	C to E			
Size inch	O.D. mm				A	B	C	D
					in/mm			
2"	60.3	350	4	5/8"x23/4"	6/152.4	4.75/120.7	0.83/21	8.26/210
2-1/2"	73	350	4	5/8"x23/4"	7/177.8	5.5/139.7	0.87/22.1	9.13/232
3"	88.9	350	4	5/8"x31/4"	7.5/190.5	6/152.4	0.94/23.8	9.65/245
4"	114.3	350	8	5/8"x31/4"	9/288.6	7.5/190.5	0.94/23.8	11.2/285
6"	168.3	350	8	3/4"x31/2"	11/179.4	9.5/190.5	1/25.4	12.1/308
8"	219	350	8	3/4"x31/2"	13.5/343	11.75/298.5	1.125/28.6	13.6/346
10"	273	350	12	7/8"x41/4"	15.98/406	14.25/362	1.18/30	16.1/408
12"	325	350	12	7/8"x41/4"	19.01/483	17/432	1.26/32	21.9/557

Grooved flange are designed for directly incorporating flanged components with ANSI bolt hole patterns into a grooved pipe system. special coatings or hot dip galvanizing are options.



STYLE 14



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

ANSI BOLTS & HEAVY HEX NUTS:

Heat treated, oval-neck track head bolts conforming to ASTM A-183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A-563 Grade A or Grade B, or SAEJ995 Grade 2. Bolts and nuts are provided zinc electroplated as standard.

METRIC BOLTS & HEAVY HEX NUTS:

Heat treated, zinc electroplated oval-neck track head bolts made of carbon steel with mechanical properties per ISO 898-1 Class 8.8. Hex nuts and bolts are zinc electroplated followed by a yellow chromate dip.

COATINGS:

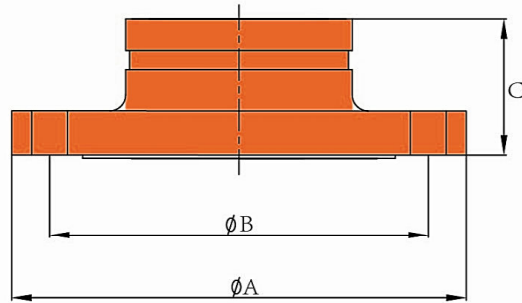
- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000 Series For other coating requirements contact CPS representative.

Gasket:

- Pre Lube gasket
- Dri-seal gasket
- Standard EPDM

- EPDM: Temperature Range:-34°C~+110°C。
Color Mark: Green。 Suitable for hot water service within specified temperature range plus a variety of dilute acids ,oil free air and many chemical services. UL calssified for cold and hot(82°C)potable water service. Not recommended for hydrocarbon services.
- MVQ: Temperature Range:-70°C~+260°C。
Color Mark:Red。 For drinking water;hot water,oil free air, steam and petroleum.
- NBR: Temperature Range:-28.8°C~+82.2°C。
Color Mark:Orange。
Recommended for hydrocarbon products , air with oil vapors, vegetable oils and mineral oils within specified temperature range。 Not recommended for hot water services over 66°C or for dry air over 60°C.

13. [Flange Adaptor Nipple STYLE 190(American Standard)] >>>

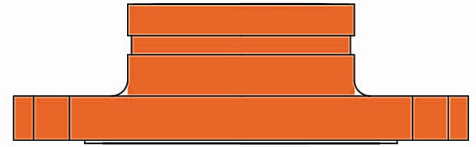


Pipe		Max Work press psi	Nuts & Bolts set	Nuts & Bolts Standard Dia x Lt	C to E		
Size inch	O.D. mm				A	B	C
		in/mm					
2"	60.3	350	4	5/8"x23/4"	6/152.4	4.75/120.7	2.56/65
2-1/2"	73	350	4	5/8"x23/4"	7/177.8	5.5/139.7	2.56/65
3"	88.9	350	4	5/8"x31/4"	7.5/190.5	6/152.4	2.56/65
4"	114.3	350	8	5/8"x31/4"	9/288.6	7.5/190.5	2.76/70
6"	168.3	350	8	3/4"x31/2"	11/179.4	9.5/241.3	2.76/70
8"	219	350	8	3/4"x31/2"	13.5/343	11.75/298.5	3.15/80
10"	273	350	12	7/8"x41/4"	15.98/406	14.11/358.5	3.15/80
12"	325	350	12	7/8"x41/4"	19.01/483	16.57/421	3.15/80



CPS

Flange Adapter will be used in grooved pipes and standard flange and valve, special coatings or hot dip galvanizing are options.



STYLE 190



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

COATINGS:

- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000 Series For other coating requirements contact CPS representative.

Mechanical properties:

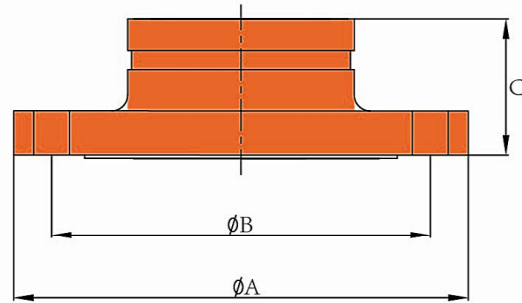
Tensile strength: 450mpa, The yield

Strength: 315mpa, elongation 12%,

Ferrite: more than 75%,

Spheroidizing level: above 3, Graphite size 6, without cementite and phosphorus coenosarc.

14. [Flange Adaptor Nipples STYLE 190S (Metric)] >>>



STYLE 190 S

Pipe		Max Work press psi	Nuts & Bolts set	Nuts & Bolts Standard Dia x Lt	Dimensions		
Size inch	O.D. mm				A	B	C
		in/mm					
2"	60.3	350	4	M16X70	6.5/165	4.92/125	2.56/65
2-1/2"	76.1	350	4	M16X70	7.28/185	5.71/145	2.56/65
3"	88.9	350	8	M16X70	7.87/200	6.3/160	2.56/65
4"	108	350	8	M16X80	8.66/220	7.09/180	2.76/70
	114.3	350	8	M16X80	8.66/220	7.09/180	2.76/70
5"	133	350	8	M16X80	9.84/250	8.27/210	2.76/70
	140.3	350	8	M16X80	9.84/250	8.27/210	2.76/70
6"	159	350	8	M20X80	11.22/285	9.45/240	2.76/70
	165.1	350	8	M20X80	11.22/285	9.45/240	2.76/70
8"	219	350	12	M20X90	13.39/340	11.61/295	3.15/80
10"	273	350	12	M24X90	15.98/406	14.11/385.5	3.35/85
12"	325	350	12	M24X90	19.02/483	16.57/421	3.54/90



CPS

Flange Adapter will be used in grooved pipes and standard flange and valve, special coatings or hot dip galvanizing are options.



STYLE 190S



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

COATINGS:

- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000 Series For other coating requirements contact CPS representative.

Mechanical properties:

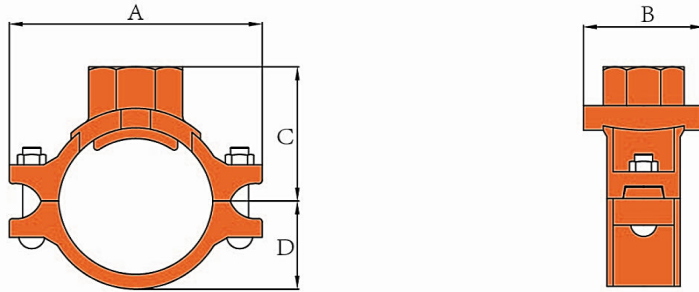
Tensile strength: 450mpa, The yield

Strength: 315mpa, elongation 12%,

Ferrite: more than 75%,

Spheroidizing level: above 3, Graphite size 6, without cementite and phosphorus coenosarc.

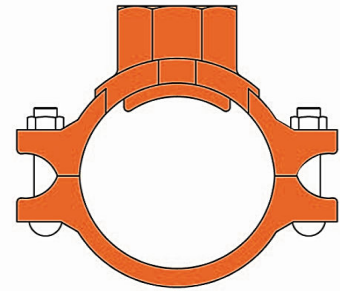
15. [Mechanical Snap Tee (STYLE 16T) Threaded] >>>



Size inch	Pipe		Max Work press psi	Dimensions			
	O.D. mm	Cutting.Dia inch(mm)		A	B	C	D
				in/mm			
2"x1"	60.3x33.7	1-1/2"(38)	400	4.49/114	2.8/71	2.24/57	1.38/35
2"x1-1/4"	60.3x42.2	1-13/16"(46)	400	4.49/114	2.8/71	2.48/63	1.38/35
2"x1-1/2"	60.3x48.3	1-13/16"(46)	400	4.49/114	2.8/71	2.48/63	1.38/35
2 1/2"x1"	73x33.7	1-1/2"(38)	400	5.59/142	3.03/77	2.95/75	1.77/45
2 1/2"x1-1/4"	73x42.2	1-13/16"(46)	400	5.59/142	3.27/83	2.95/75	1.77/45
2 1/2"x1-1/2"	73x48.3	2-1/16"(52)	400	5.59/142	3.27/83	2.95/75	1.77/45
3"x1"	88.9x33.7	1-1/2"(38)	400	6.5/165	3.03/78	2.99/76	2.13/54
3"x1-1/4"	88.9x42.2	2-1/16"(52)	400	6.5/165	3.58/91	3.19/81	2.13/54
3"x1-1/2"	88.9x48.3	2-1/16"(52)	400	6.5/165	3.58/91	3.19/81	2.13/54
3"x2"	88.9x60.3	2-7/16"(62)	400	6.5/165	3.58/91	3.19/81	2.13/54
4"x1"	114.3x33.7	1-1/2"(38)	400	7.4/188	3.07/78	3.43/87	2.64/67
4"x1-1/4"	114.3x42.2	1-13/16"(46)	400	7.4/188	3.39/86	3.62/92	2.64/67
4"x1-1/2"	114.3x48.3	2-1/16"(52)	400	7.4/188	3.62/92	3.62/92	2.64/67
4"x2"	114.3x60.3	2-7/16"(62)	400	7.4/188	4.02/102	3.74/95	2.64/67
4"x2-1/2"	114.3x73	3-1/8"(80)	400	7.4/188	4.88/124	3.86/98	2.64/67
4"x3"	114.3x88.9	3-1/2"(89)	400	7.4/188	5.08/129	4.02/102	2.64/67
6"x1-1/4"	168.3x42.2	1-13/16"(46)	400	9.37/238	3.39/86	4.72/120	3.7/94
6"x1-1/2"	168.3x48.3	2-1/16"(52)	400	9.37/238	3.62/92	4.72/120	3.7/94
6"x2"	168.3x60.3	2-3/4"(70)	400	9.37/238	4.02/102	4.84/123	3.7/94
6"x2-1/2"	168.3x73	3-1/8"(80)	400	9.37/238	4.88/124	4.84/123	3.7/94
6"x3"	168.3x88.9	3-1/2"(89)	400	9.37/238	5.31/135	5.12/130	3.7/94
6"x4"	168.3x114.3	4-1/2"(114)	400	9.37/238	6.3/160	5.31/135	3.7/94
8"x2-1/2"	219x73	3-1/2"(89)	400	12.46/314	5.43/138	6.22/158	4.65/118
8"x3"	219x88.9	3-1/2"(89)	400	12.36/314	5.43/138	6.38/162	4.65/118
8"x4"	219x114	4-1/2"(114)	400	12.36/314	6.54/166	6.38/162	4.65/118



Mechanical snap tee serve as a joining device providing an integral reducing outlet. Tees can also be made into crosses providing two outlets instead of one. Style 16 crosses are labeled as style 16TC.



STYLE 16T



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

ANSI BOLTS & HEAVY HEX NUTS:

Heat treated, oval-neck track head bolts conforming to ASTM A-183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A-563 Grade A or Grade B, or SAEJ995 Grade 2. Bolts and nuts are provided zinc electroplated as standard.

METRIC BOLTS & HEAVY HEX NUTS:

Heat treated, zinc electroplated oval-neck track head bolts made of carbon steel with mechanical properties per ISO 898-1 Class 8.8. Hex nuts and bolts are zinc electroplated followed by a yellow chromate dip.

COATINGS:

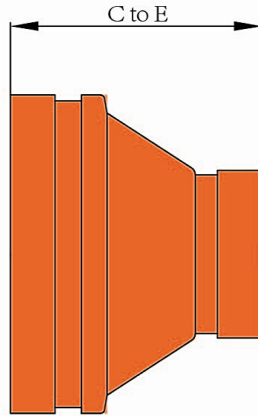
- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000
Series For other coating requirements contact CPS representative.

Gasket:

- Pre Lube gasket
- Dri-seal gasket
- Standard EPDM

- EPDM: Temperature Range:-34°C~+110°C。
Color Mark: Green。 Suitable for hot water service within specified temperature range plus a variety of dilute acids ,oil free air and many chemical services. UL calssified for cold and hot(82°C)potable water service. Not recommended for hydrocarbon services.
- MVQ: Temperature Range:-70°C~+260°C。
Color Mark:Red。 For drinking water;hot water,oil free air, steam and petroleum.
- NBR: Temperature Range:-28.8°C~+82.2°C。
Color Mark:Orange。
Recommended for hydrocarbon products , air with oil vapors, vegetable oils and mineral oils within specified temperature range。 Not recommended for hot water services over 66°C or for dry air over 60°C。

16. [Concentric Reducer (STYLE 140G) Grooved Ends] >>>

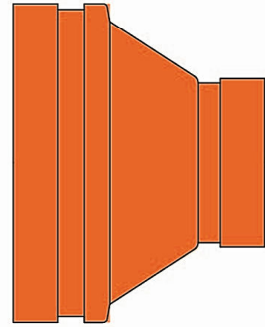


Pipe		Max Work press psi	C to E in/mm
Size inch	O.D. mm		
2 1/2"x2"	73x60.3	600	2.52/64
3"x2"	88.9x60.3	600	2.52/64
4"x2"	114.3x60.3	600	2.99/76
4"x3"	114.3x88.9	600	2.99/76
6"x2"	168.3x60.3	600	4.02/102
6"x2-1/2"	168.3x73	600	4.02/102
6"x3"	168.3x88.9	600	4.02/102
6"x4"	168.3x114.3	600	4.02/102
8"x3"	219x88.9	600	5/127
8"x4"	219x114.3	600	5/127
8"x6"	219x168.3	600	5/127



CPS

Style 140G concentric reducers are cut grooved on both sides.



STYLE 140G



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

COATINGS:

- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000
Series For other coating requirements contact CPS representative.

Mechanical properties:

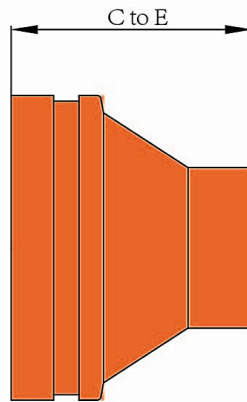
Tensile strength: 450mpa, The yield

Strength: 315mpa, elongation 12%,

Ferrite: more than 75%,

Spheroidizing level: above 3, Graphite size 6, without cementite and phosphorus coenosarc.

17. [Concentric Reducer STYLE 140T] >>>

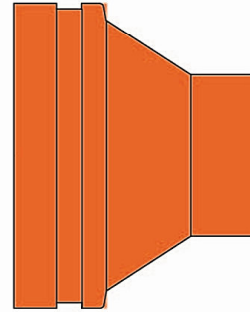


Pipe		Max Work press psi	C to E in/mm
Size inch	O.D. mm		
2"x1/2"	60.3x21.3	600	2.52/64
2"x3/4"	60.3x26.8	600	2.52/64
2"x1"	60.3x33.7	600	2.52/64
2"x1-1/4"	60.3x42.2	600	2.52/64
2"x1-1/2"	60.3x48.3	600	2.52/64
2-1/2"x1/2"	76.1x21.3	600	2.52/64
2-1/2"x3/4"	76.1x26.8	600	2.52/64
2-1/2"x1"	76.1x33.7	600	2.52/64
2-1/2"x1-1/4"	76.1x42.2	600	2.52/64
2-1/2"x1-1/2"	76.1x48.3	600	2.52/64
2-1/2"x2"	76.1x60.3	600	2.52/64
3"x2"	88.9x60.3	600	2.52/64
3"x2-1/2"	88.9x76.1	600	2.52/64
4"x2-1/2"	114.3x76.1	600	2.99/76
4"x3"	114.3x88.9	600	2.99/76



CPS

Style 140T concentric reducer threaded on small end grooved on large end.



STYLE 140T



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

COATINGS:

- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000
Series For other coating requirements contact CPS representative.

Mechanical properties:

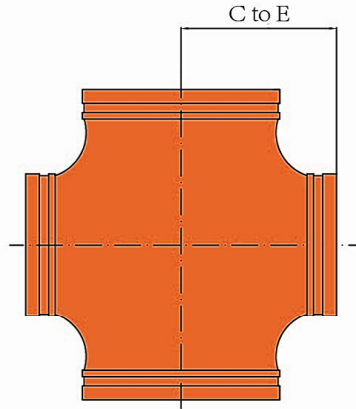
Tensile strength: 450mpa, The yield

Strength: 315mpa, elongation 12%,

Ferrite: more than 75%,

Spheroidizing level: above 3, Graphite size 6, without cementite and phosphorus coenosarc.

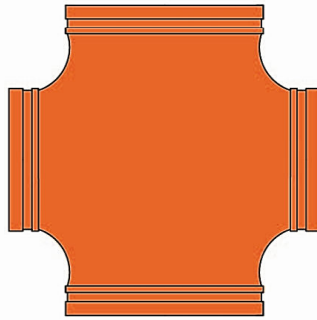
18. [Equal Cross STYLE 112 STYLE 112S] >>>



Pipe		Max Work press psi	Style 112	Style 112 s
Size inch	O.D. mm		C to E in/mm	C to E in/mm
1-1/4"	42.2	600	2.76/70	/
1-1/2"	48.3	600	2.76/70	/
2"	60.3	600	3.27/83	/
2-1/2"	76.1	600	3.74/95	3.54/90
3"	88.9	600	4.25/108	3.7/94
4"	108	600	5/127	4.09/104
	114.3	600	5/127	4.09/104
5"	133	600	5.51/140	4.8/122
	140	600	5.51/140	4.8/122
6"	159	600	6.5/165	5.59/142
	165.1	600	6.5/165	5.59/142
	168.3	600	6.5/165	5.59/142
8"	165.1	600	7.68/195	7.05/179
10"	165.1	300	9.02/229	8.46/215
12"	165.1	300	10/254	9.65/245



CPS



STYLE 112(S)



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

COATINGS:

- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000
Series For other coating requirements contact CPS representative.

Mechanical properties:

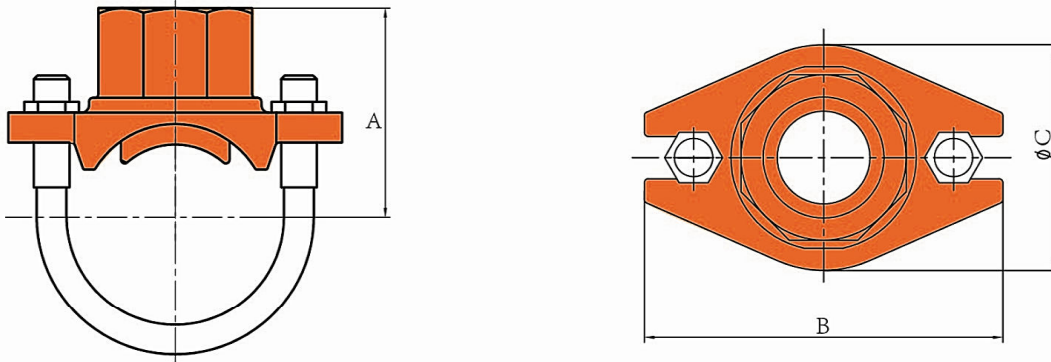
Tensile strength: 450mpa, The yield

Strength: 315mpa, elongation 12%,

Ferrite: more than 75%,

Spheroidizing level: above 3, Graphite size 6, without cementite and phosphorus coenosarc.

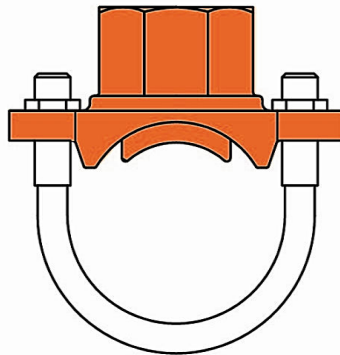
19. [U-Bolt Mechanical Tee STYLE 16U] >>>



Pipe			Max Work press psi	Dimensions		
Size inch	O.D. mm	Cutting.Dia in/mm		A	B	C
				in/mm		
1"x1/2"	33x21	0.94"(24)	400	1.59/40.5	2.85/72.4	1.97/50
1-1/4"x1/2"	42x21	1.18"(30)	400	1.85/47	3.5/89	2.2/56
1-1/4"x1"	42x33	1.18"(30)	400	2.01/51	3.5/89	2.2/56
1-1/2"x1/2"	48x21	1.18"(30)	400	2.09/53	3.35/85	2.2/56
1-1/2"x3/4"	48x26	1.18"(30)	400	2.09/53	3.35/85	2.2/56
1-1/2"x1"	48x33	1.18"(30)	400	2.2/56	3.5/89	2.2/56
2"x1/2"	60x21	1.18"(30)	400	2.36/60	3.6/91.5	2.2/56
2"x3/4"	60x26	1.18"(30)	400	2.36/60	3.6/91.5	2.2/56
2"x1-1/4"	60x42	1.81"(46)	400	2.56/65	3.6/91.5	2.2/56
2"x1-1/2"	60x48	1.81"(46)	400	2.64/67	4.88/124	2.2/56
2-1/2"x1/2"	73x21	1.18"(30)	400	2.64/67	4.88/124	2.2/56
2-1/2"x3/4"	73x26	1.18"(30)	400	2.64/67	4.28/108.7	2.2/56
2-1/2"x1"	73x33	1.18"(30)	400	2.64/67	4.28/108.7	2.2/56
2-1/2"x1-1/4"	73x42	2"(51)	400	2.83/72	4.28/108.7	2.2/56
2-1/2"x1-1/2"	73x48	2"(51)	400	2.96/75.1	5.6/142.3	2.2/56
2"x1"	60x33	1.18"(30)	400	2.96/75.1	5.6/142.3	2.2/56



CPS



STYLE 16U



MATERIAL SPECIFICATIONS

HOUSING:

Ductile Iron conforming to ASTM A-536, Grade 65-45-12

ANSI BOLTS & HEAVY HEX NUTS:

Heat treated, oval-neck track head bolts conforming to ASTM A-183 Grade 2 with a minimum tensile strength of 110,000 psi and heavy hex nuts of carbon steel conforming to ASTM A-563 Grade A or Grade B, or SAEJ995 Grade 2. Bolts and nuts are provided zinc electroplated as standard.

METRIC BOLTS & HEAVY HEX NUTS:

Heat treated, zinc electroplated oval-neck track head bolts made of carbon steel with mechanical properties per ISO 898-1 Class 8.8. Hex nuts and bolts are zinc electroplated followed by a yellow chromate dip.

COATINGS:

- Rust inhibiting paint color: ORANGE(standard)
- Hot Dipped Zinc Galvanized(optional)
- Other available options: Example: RAL3000
Series For other coating requirements contact CPS representative.

Gasket:

- Pre Lube gasket
- Dri-seal gasket
- Standard EPDM

- EPDM: Temperature Range:-34°C~+110°C。
Color Mark: Green。 Suitable for hot water service within specified temperature range plus a variety of dilute acids ,oil free air and many chemical services。 UL calssified for cold and hot(82°C)potable water service. Not recommended for hydrocarbon services.
- MVQ: Temperature Range:-70°C~+260°C。
Color Mark:Red。 For drinking water;hot water,oil free air, steam and petroleum.
- NBR: Temperature Range:-28.8°C~+82.2°C。
Color Mark:Orange。
Recommended for hydrocarbon products , air with oil vapors, vegetable oils and mineral oils within specified temperature range。 Not recommended for hot water services over 66°C or for dry air over 60°C。