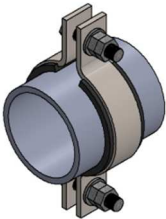
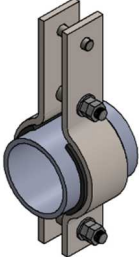
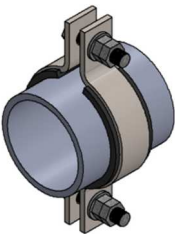
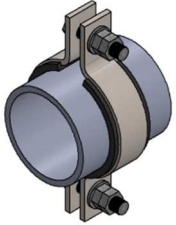
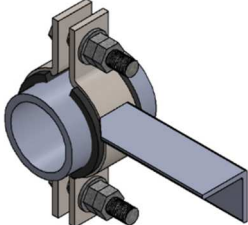
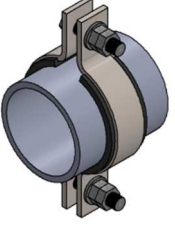
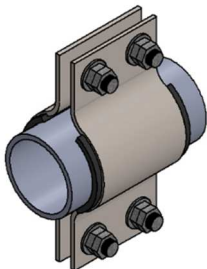
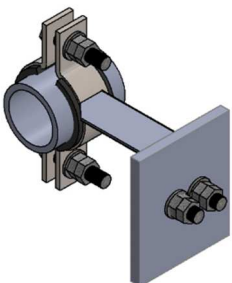
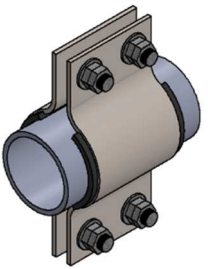
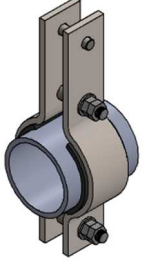
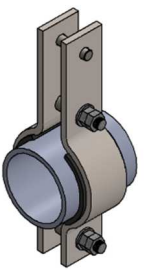
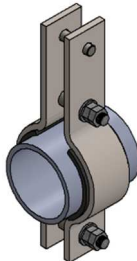
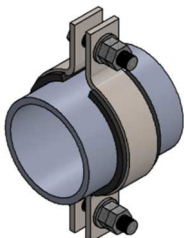
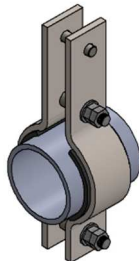
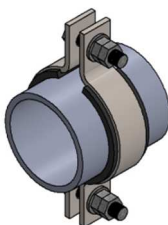
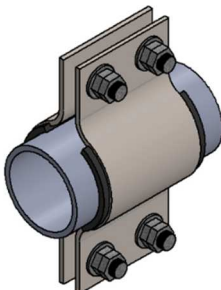
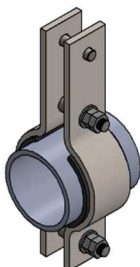
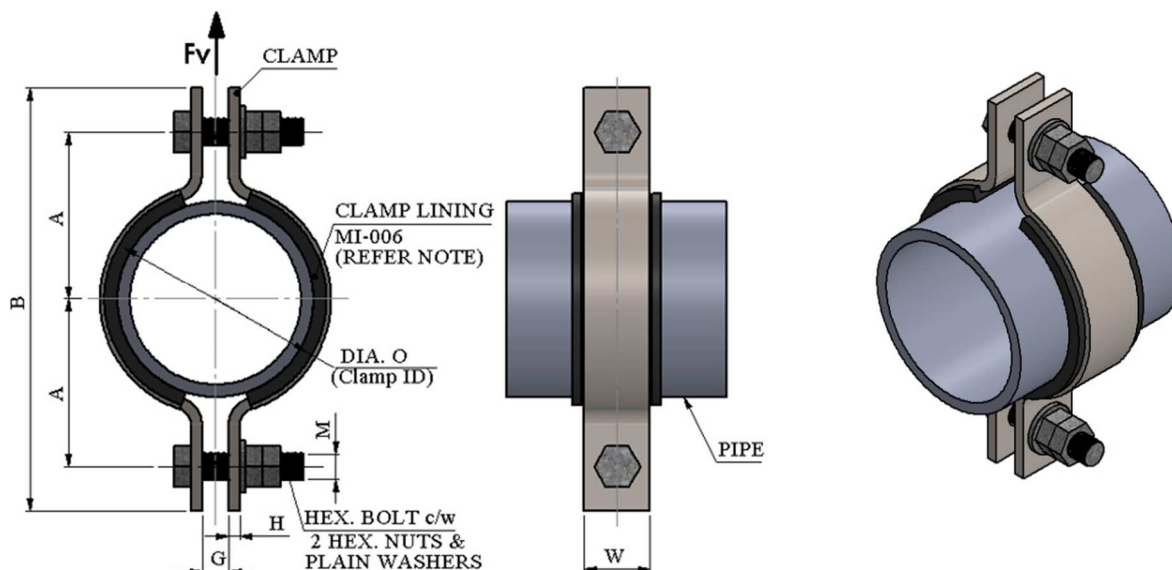


10. PIPE CLAMP

10.1	T-PC-020 2 bolts Pipe Clamp for CS, SS and Alloy Lines ½" – 28" (Light- Loads)	10.5	T-PC-024 3 bolts Pipe Clamp for CS, SS and Alloy Lines 6" – 24" (Heavy- Loads)	10.9	T-PC-028 2 bolts High Temp. Clamp for CS, SS and Alloy Lines 1/2" – 24" (Light - Loads)
					
10.2	T-PC-021 2 bolts Pipe Clamp for CS, SS and Alloy Lines 1 ½" – 24" (Heavy - Loads)	10.6	T-PC-025 Pipe Clamp / Weld Bracket (For Small Bore Lines)	10.10	T-PC-029 2 bolts High Temp. Clamp for CS, SS and Alloy Lines 1 ½" – 24" (Heavy - Loads)
					
10.3	T-PC-022 4 bolts Pipe Clamp for CS, SS and Alloy Lines 2" – 24" (Heavy - Loads)	10.7	T-PC-026 Pipe Clamp / Bolted Bracket (For Small Bore Lines)	10.11	T-PC-030 4 bolts High Temp. Clamp for CS, SS and Alloy Lines 2" – 24" (Heavy - Loads)
					
10.4	T-PC-023 3 bolts Pipe Clamp for CS, SS and Alloy Lines 1/2" – 24" (Light- Loads)	10.8	T-PC-027 Bolted Clamp with Perforated Plate (For Small Bore Lines)	10.12	T-PC-031 3 bolts High Temp. Clamp for CS, SS and Alloy Lines 1/2" – 24" (Light - Loads)
					

PIPE CLAMP (CONTD.)					
10.13	T-PC-032 3 bolts High Temp. Clamp for CS, SS and Alloy Lines 6" – 24"(Heavy- Loads)	10.14	T-PC-033 2 bolts Low Temp. Clamp for CS, SS and Alloy Lines ½" – 24" (Light - Loads)	10.18	T-PC-037 3 bolts Low Temp. Clamp for CS, SS and Alloy Lines 6" – 24" (Heavy - Loads)
					
		10.15	T-PC-034 2 bolts Low Temp. Clamp for CS, SS and Alloy Lines 1 ½" – 24" (Heavy - Loads)		
					
		10.16	T-PC-035 4 bolts Low Temp. Clamp for CS, SS and Alloy Lines 2" – 24" (Heavy - Loads)		
					
		10.17	T-PC-036 3 bolts Low Temp. Clamp for CS, SS and Alloy Lines ½" – 24" (Light - Loads)		
					

10.1 2 BOLTS PIPE CLAMP FOR CS, SS & ALLOY LINES (LIGHT LOADS)
DN 15- DN 700 mm / NPS ½" - NPS 28"
PC-020


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-PC-020-(DN)-SS	SS	150 °C	(-) 46 °C
T-PC-020-(DN)-CS	CS	150 °C	(-) 46 °C

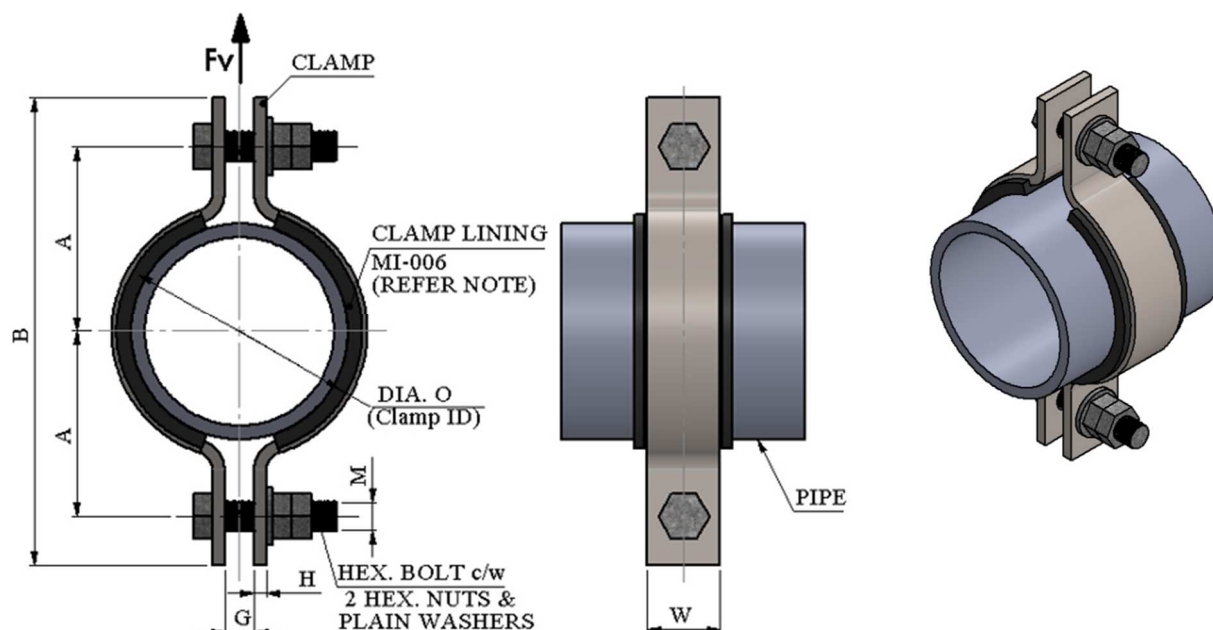
TYPE	LINE SIZE			PIPE CLAMP DIMENSION						BOLT SIZE	MAX. LOADS Fv (kN)		WEIGHTS (in kg)	
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	G	H	Dia. O	W	M*	SS	CS	CS	SS
T-PC-020-0015	DN 15	1/2"	21.3	32	102	12	3	27	30	M10 x 50 *	1.3	2.2	0.29	0.293
T-PC-020-0020	DN 20	3/4"	26.7	32	102	12	3	33	30	M10 x 50 *	1.3	2.2	0.293	0.296
T-PC-020-0025	DN 25	1"	33.4	38	114	12	3	39	30	M10 x 50 *	1.3	2.2	0.314	0.317
T-PC-020-0030	DN 30	1 1/4"	42.2	44	126	12	3	48	30	M10 x 50 *	1.3	2.2	0.336	0.34
T-PC-020-0040	DN 40	1 1/2"	48.3	51	140	12	5	54	30	M10 x 50 *	2.2	3.6	0.503	0.51
T-PC-020-0050	DN 50	2"	60.3	57	152	12	5	66	30	M12 x 60	2.7	4.5	0.589	0.597
T-PC-020-0080	DN 80	3"	88.9	76	192	16	5	95	30	M12 x 60	2.7	4.5	0.712	0.722
T-PC-020-0100	DN 100	4"	114.3	95	228	20	6	120	40	M16 x 70	2.7	4.5	1.394	1.413
T-PC-020-0125	DN 125	5"	141.3	114	270	20	6	147	40	M16 x 70	2.7	4.5	1.609	1.632
T-PC-020-0150	DN 150	6"	168.3	127	304	24	10	174	40	M20 x 100	4.3	7.2	3.074	3.118
T-PC-020-0200	DN 200	8"	219.1	159	368	24	10	225	40	M20 x 100	4.3	7.2	3.646	3.70
T-PC-020-0250	DN 250	10"	273.0	190	444	27	12	279	50	M24 x 110	6.5	10.9	6.544	6.644
T-PC-020-0300	DN 300	12"	323.8	216	496	27	12	330	50	M24 x 110	6.5	10.9	7.288	7.40
T-PC-020-0350	DN 350	14"	355.6	235	546	27	12	362	70	M24 x 110	6.5	10.9	10.577	10.75
T-PC-020-0400	DN 400	16"	406.4	260	596	27	12	412	70	M24 x 110	6.5	10.9	11.59	11.79
T-PC-020-0450	DN 450	18"	457.2	298	686	30	15	463	70	M24 x 120	8.1	13.6	15.88	16.16
T-PC-020-0500	DN 500	20"	508.0	324	750	40	15	514	70	M24 x 130	8.1	13.6	17.5	17.81
T-PC-020-0600	DN 600	24"	609.6	387	872	40	15	616	80	M30 x 140	8.1	13.6	24.5	24.87
T-PC-020-0700	DN 700	28"	711.2	436	972	40	15	717	80	M30 x 140	8.1	13.6	27.35	27.83

Provide clamp lining between pipe and clamp (ref. MI-006)

*All bolting sizes 10mm and below to be SS.

Bolt hole dia. = up to and including M24 = bolt dia. (M) + 2 mm & above M24 = Bolt dia. (M) + 3mm.

Std. type includes all bolts (fully threaded with a min. over length of 3 threads , plain washers and double nuts.

10.2 2 BOLTS PIPE CLAMP FOR CS, SS & ALLOY LINES (HEAVY LOADS)
DN 40 - DN 600 mm / NPS 1 1/2" - NPS 24"
PC-021


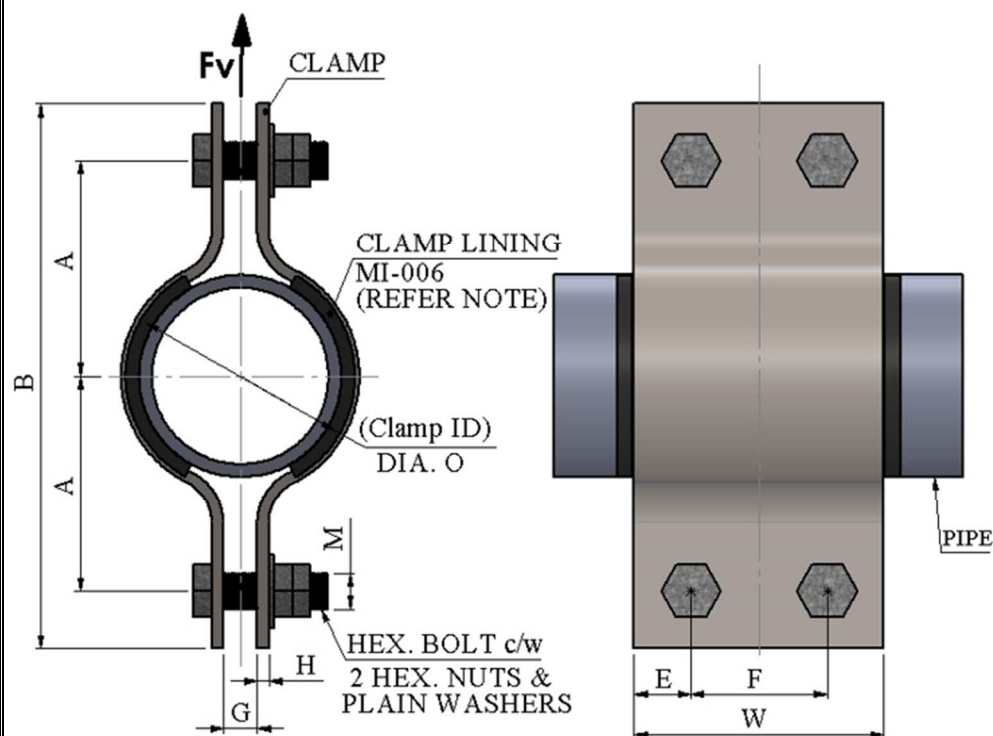
TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-PC-021-(DN)-SS	SS	150 °C	(-) 46 °C
T-PC-021-(DN)-CS	CS	150 °C	(-) 46 °C

TYPE	LINE SIZE			PIPE CLAMP DIMENSION						BOLT SIZE	MAX. LOADS Fv (kN)		WEIGHTS (in kg)	
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	G	H	Dia. O	W	M	SS	CS	CS	SS
T-PC-021-0040	DN 40	1 1/2"	48.3	50	140	16	6	54	40	M12 x 60	3	5	0.87	0.88
T-PC-021-0050	DN 50	2"	60.3	65	170	16	6	66	40	M12 x 60	3	5	1.1	1.2
T-PC-021-0080	DN 80	3"	88.9	85	220	20	6	95	40	M20 x 80	9	15	1.65	1.65
T-PC-021-0100	DN 100	4"	114.3	96	254	24	10	120	50	M24 x 100	9.5	15.9	3.51	3.55
T-PC-021-0125	DN 125	5"	141.3	115	290	24	10	147	50	M24 x 100	9.5	15.9	3.89	3.92
T-PC-021-0150	DN 150	6"	168.3	135	350	28	12	174	70	M24 x 110	13.1	21.8	6.66	6.76
T-PC-021-0200	DN 200	8"	219.1	160	400	28	12	225	70	M24 x 110	13.1	21.8	7.66	7.78
T-PC-021-0250	DN 250	10"	273	200	470	34	15	279	70	M24 x 120	16.3	27.2	10.79	10.98
T-PC-021-0300	DN 300	12"	323.8	235	560	34	20	330	80	M30 x 160	23.4	39	20.66	20.99
T-PC-021-0350	DN 350	14"	355.6	255	610	40	20	362	90	M36 x 160	24.8	41.3	26.63	27.02
T-PC-021-0400	DN 400	16"	406.4	280	660	40	20	412	90	M36 x 160	24.8	41.3	28.77	29.23
T-PC-021-0450	DN 450	18"	457.2	305	720	40	20	463	90	M36 x 160	24.8	41.3	31.26	31.75
T-PC-021-0500	DN 500	20"	508	330	770	40	20	514	90	M36 x 160	24.8	41.3	33.44	33.97
T-PC-021-0600	DN 600	24"	609.6	395	890	40	20	616	90	M36 x 160	24.8	41.3	38.41	39.1

Provide clamp lining between pipe and clamp (Ref. MI-006).

Bolt hole dia. = up to and including M24 = bolt dia. (M) + 2 mm & above M24 = bolt dia. (M) + 3mm.

Std. type includes all bolts (fully threaded with a min. over length of 3 threads) , plain washers and double nuts.

10.3 4 BOLTS PIPE CLAMP FOR CS, SS & ALLOY LINES (HEAVY LOADS)
DN 50- DN 600 mm / NPS 2" - NPS 24"
PC-022


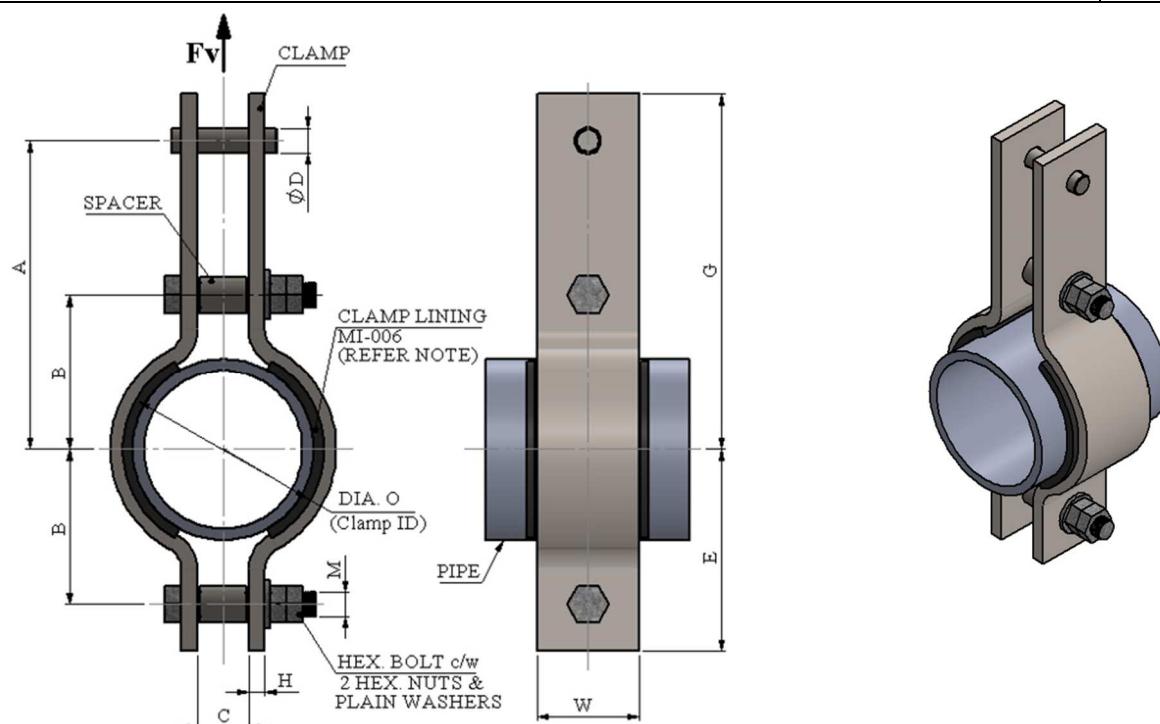
TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-PC-022-(DN)-SS	SS	150 °C	(-) 46 °C
T-PC-022-(DN)-CS	CS	150 °C	(-) 46 °C

TYPE	LINE SIZE			PIPE CLAMP DIMENSION								BOLT SIZE	MAX. LOADS Fv (kN)		WEIGHTS (in Kg)	
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	E	F	G	H	Dia. O	W	M*	SS	CS	CS	SS
T-PC-022-0050	DN 50	2"	60.3	65	170	20	40	15	6	66	80	M12 x 60	4.9	8.2	1.78	1.81
T-PC-022-0080	DN 80	3"	88.9	95	240	25	60	20	10	95	110	M16 x 80	6	10.1	5.39	5.5
T-PC-022-0100	DN 100	4"	114.3	110	270	25	60	20	10	120	110	M16 x 80	7.7	12.9	6.12	6.22
T-PC-022-0125	DN 125	5"	141.3	125	310	25	60	20	10	147	110	M16 x 80	7.7	12.9	7.1	7.2
T-PC-022-0150	DN 150	6"	168.3	140	340	35	70	25	10	174	140	M20 x 100	8.8	14.7	10.4	10.52
T-PC-022-0200	DN 200	8"	219.1	165	390	35	70	25	12	225	140	M20 x 100	13.2	22	14.1	14.31
T-PC-022-0250	DN 250	10"	273	190	440	35	70	25	12	279	140	M20 x 100	13.6	22.7	16.2	16.42
T-PC-022-0300	DN 300	12"	323.8	215	490	35	70	25	12	330	140	M20 x 100	13.6	22.7	18.2	18.53
T-PC-022-0350	DN 350	14"	355.6	240	550	50	100	30	12	362	200	M24 x 110	16.2	27	29.2	29.65
T-PC-022-0400	DN 400	16"	406.4	265	600	50	100	30	12	412	200	M24 x 110	15.8	26.4	32.1	32.64
T-PC-022-0450	DN 450	18"	457.2	290	650	50	100	30	12	463	200	M24 x 110	16.4	27.3	35.1	35.64
T-PC-022-0500	DN 500	20"	508.0	320	710	50	100	30	15	514	200	M24 x 115	25	41.7	47.1	47.88
T-PC-022-0600	DN 600	24"	609.6	370	810	50	100	30	15	616	200	M24 x 115	25.3	42.2	54.43	55.42

Provide clamp lining between pipe and clamp (ref. MI-006).

Bolt hole dia. = up to and including M24 = Bolt dia. (M) + 2 mm.

Std. type includes all bolts (fully threaded with a min. over length of 3 threads), plain washers and double nuts.

10.4 3 BOLTS PIPE CLAMP FOR CS, SS & ALLOY LINES (LIGHT LOADS)
DN 15 - DN 600 mm / NPS ½" - NPS 24"
PC-023


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-PC-023-(DN)-SS	SS	150 °C	(-) 46 °C
T-PC-023-(DN)-CS	CS	150 °C	(-) 46 °C

TYPE	LINE SIZE			PIPE CLAMP DIMENSION									BOLT SIZE	MAX. LOADS Fv (kN)		WEIGHTS (in kg)	
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	C	D	E	G	H	Dia. O	W	M*	SS	CS	CS	SS
T-PC-023-0015	DN 15	1/2"	21.3	92	32	12	10	47	107	6	27	30	M10 x 50*	1.9	3.3	0.51	0.61
T-PC-023-0020	DN 20	3/4"	26.7	95	38	12	10	53	110	6	33	30	M10 x 50*	1.9	3.3	0.53	0.62
T-PC-023-0025	DN 25	1"	33.4	97	44	12	10	59	112	6	39	30	M10 x 50*	1.9	3.3	0.54	0.64
T-PC-023-0030	DN 30	1 1/4"	42.2	102	49	12	10	64	117	6	48	30	M10 x 50*	1.9	3.3	0.56	0.65
T-PC-023-0040	DN 40	1 1/2"	48.3	102	46	25	12	68	124	6	54	30	M12 x 70	1.9	3.3	0.69	0.87
T-PC-023-0050	DN 50	2"	60.3	127	54	25	12	76	149	6	66	30	M12 x 70	1.9	3.3	0.74	0.92
T-PC-023-0080	DN 80	3"	88.9	152	76	25	12	99	175	8	95	50	M12 x 70	4.3	7.3	1.34	1.54
T-PC-023-0100	DN 100	4"	114.3	165	100	25	16	129	194	10	120	50	M16 x 90	5.8	9.8	2.31	2.68
T-PC-023-0125	DN 125	5"	141.3	178	114	25	16	142	206	10	147	50	M16 x 90	5.8	9.8	2.45	2.83
T-PC-023-0150	DN 150	6"	168.3	216	135	38	20	173	254	10	174	70	M20 x 110	8	13.7	4.31	5.03
T-PC-023-0200	DN 200	8"	219.1	241	163	38	20	201	279	10	225	70	M20 x 110	8.9	15.1	4.74	5.47
T-PC-023-0250	DN 250	10"	273.0	279	192	38	20	230	317	12	279	70	M20 x 110	9.9	16.8	6.02	6.81
T-PC-023-0300	DN 300	12"	323.8	305	220	38	20	258	343	12	330	70	M20 x 110	9.9	16.8	6.56	7.36
T-PC-023-0350	DN 350	14"	355.6	330	243	51	24	291	378	15	362	80	M24 x 140	15.6	26.6	10.57	12.02
T-PC-023-0400	DN 400	16"	406.4	356	273	51	24	320	403	15	412	80	M24 x 140	15.6	26.6	11.34	12.80
T-PC-023-0450	DN 450	18"	457.2	381	300	51	24	348	429	15	463	80	M24 x 140	15.6	26.6	12.09	13.57
T-PC-023-0500	DN 500	20"	508.0	406	329	51	24	380	457	20	514	80	M24 x 150	22.9	39	16.29	17.99
T-PC-023-0600	DN 600	24"	609.6	457	390	51	24	447	514	20	616	100	M30 x 160	28.7	48.8	26.29	28.11

Provide clamp lining between pipe and clamp (ref. MI-006).

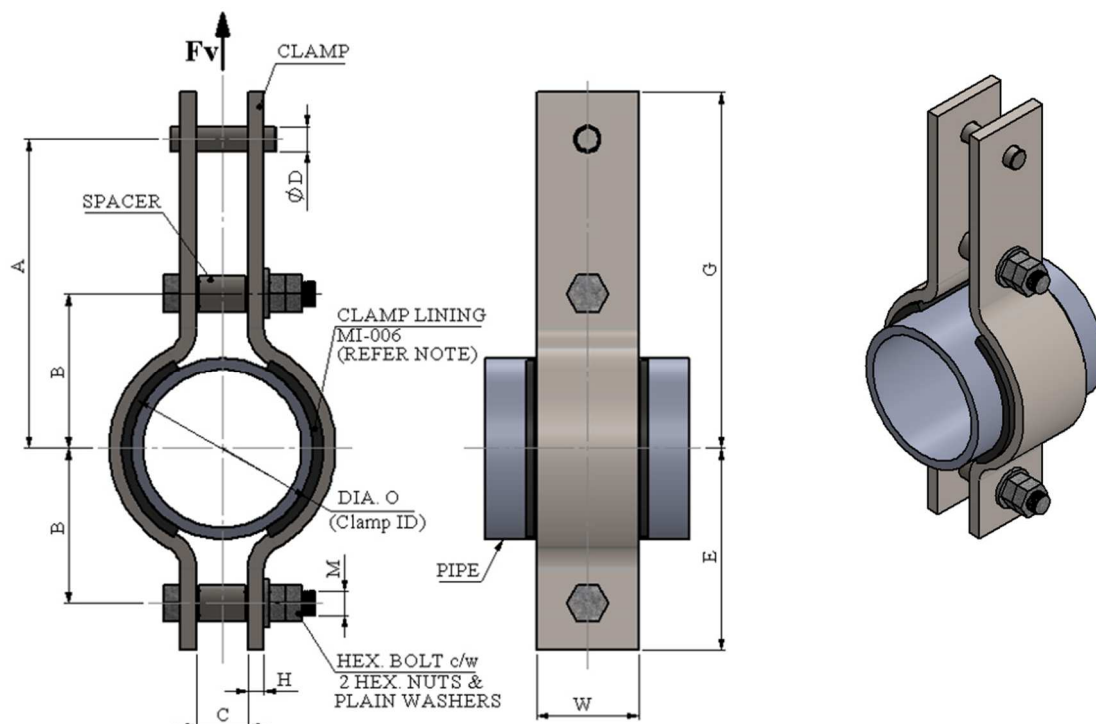
*All bolting sizes 10mm and below to be SS.

Bolt hole dia. = up to and including M24 = Bolt Dia. (M) + 2 mm & above M24 = bolt dia. (M) + 3mm.

Clamp spacer from suitable material to suit bolt size and length = C – 2 mm.

Std. type includes all bolts (Fully threaded with a min. over length of 3 threads) plain washers and double nuts.

10.5 3 BOLTS PIPE CLAMP FOR CS, SS & ALLOY LINES (HEAVY LOADS) DN 150 - DN 600 mm / NPS 6" - NPS 24"

PC-024


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP.
T-PC-024-(DN)-SS	SS	150 °C	(-) 46 °C
T-PC-024-(DN)-CS	CS	150 °C	(-) 46 °C

TYPE	LINE SIZE			PIPE CLAMP DIMENSION									BOLT SIZE	MAX. LOADS Fv (kN)		WEIGHTS (in kg)	
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	C	D	E	G	H	Dia. O	W	M	SS	CS	CS	SS
T-PC-024-0150	DN150	6"	168.3	229	143	44	30	193	279	12	174	100	M36 x 150	32.9	55.9	15.75	15.94
T-PC-024-0200	DN200	8"	219.1	254	172	44	30	223	305	12	225	110	M36 x 150	36.2	61.5	18.41	18.64
T-PC-024-0250	DN250	10"	273	305	214	51	36	265	356	20	279	100	M36 x 170	45	76.5	28.70	29.12
T-PC-024-0300	DN300	12"	323.8	330	240	51	36	291	381	20	330	100	M36 x 170	45	76.5	31.1	31.16
T-PC-024-0350	DN350	14"	355.6	356	262	57	42	319	413	20	362	110	M36 x 180	49.5	84.1	36.91	37.45
T-PC-024-0400	DN400	16"	406.4	381	292	57	42	349	438	25	412	110	M36 x 190	61.9	105.2	47.74	48.5
T-PC-024-0450	DN450	18"	457.2	406	317	57	42	375	464	25	463	110	M36 x 190	61.9	105.2	51.15	51.98
T-PC-024-0500	DN500	20"	508	457	353	57	42	417	521	25	514	130	M36 x 190	73.1	124.3	65.63	66.74
T-PC-024-0600	DN600	24"	609.6	508	418	57	42	494	584	30	616	150	M36 x 200	84.4	143.4	101.35	103.13

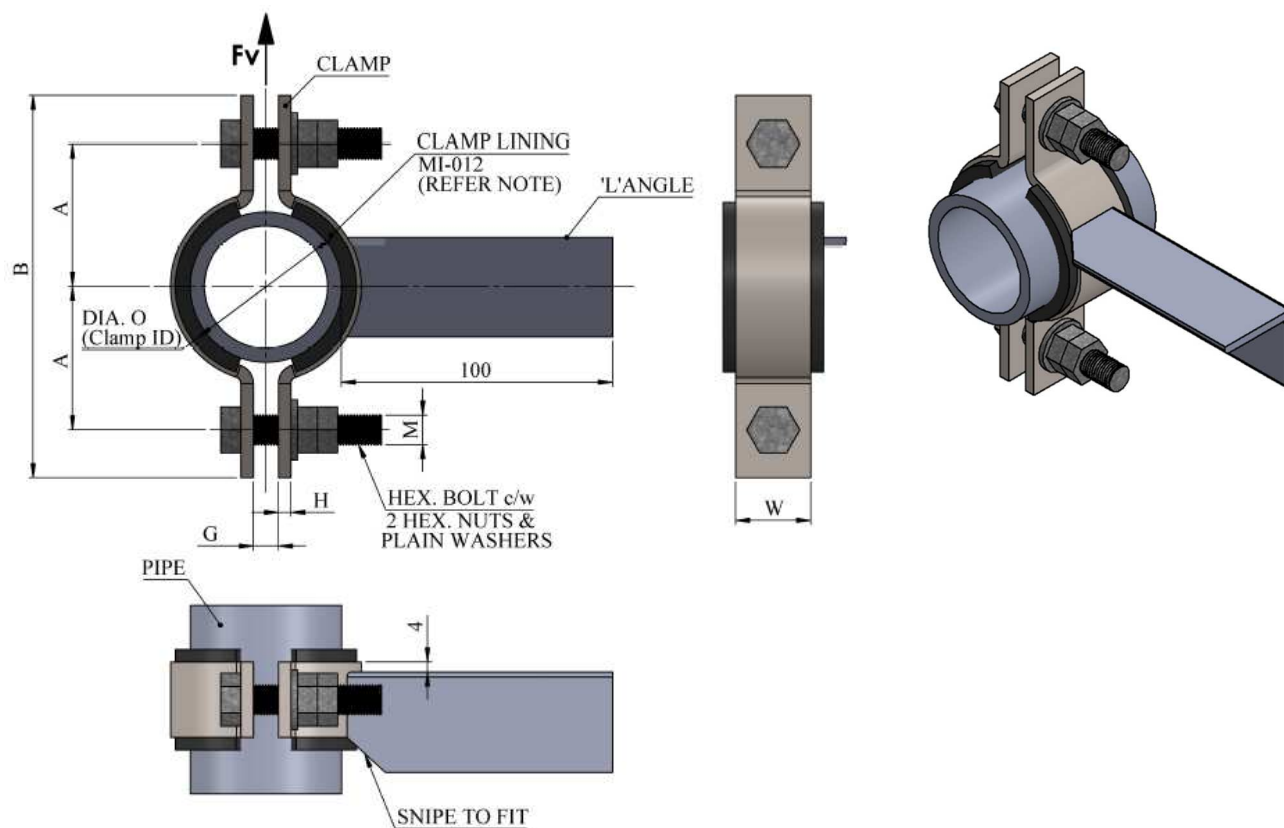
Provide clamp lining between pipe and clamp (ref. MI-006).

Bolt hole dia. = Up to and including M24 = Bolt dia. (M) + 2 mm & above M24 = Bolt dia. (M) + 3mm.

Clamp spacer from suitable material to suit bolt size and length = C – 2 mm.

Std. type includes all bolts (Fully threaded with a min. over length of 3 threads) Plain washers and double nuts.

10.6 PIPE CLAMP / WELD BRACKET FOR CS, SS & ALLOY SMALL BORE LINES - GRIP ONLY

PC-025


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-PC-025-(DN)-SS	SS	250 °C	(-) 100 °C
T-PC-025-(DN)-CS	CS	250 °C	(-) 100 °C

TYPE	LINE SIZE			PIPE CLAMP DIMENSION						BOLT SIZE	'L' ANGLE SIZE	MAX. LOADS Fv (kN)		WEIGHTS (in kg)	
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	G	H	Dia . O	W	M*		SS	CS	CS	SS
T-PC-025-0015	DN15	1/2"	21.3	32	102	12	3	27	30	M10x50*	30x30x3	1.35	2.25	0.43	0.43
T-PC-025-0020	DN20	3/4"	26.7	32	102	12	3	33	30	M10x50*	30x30x3	1.35	2.25	0.433	0.44
T-PC-025-0025	DN25	1"	33.4	38	114	12	3	39	30	M10x50*	40x40x4	1.35	2.25	0.45	0.46
T-PC-025-0030	DN30	1 1/4"	42.2	44	126	12	3	48	30	M10x50*	40x40x4	1.35	2.25	0.48	0.48
T-PC-025-0040	DN40	1 1/2"	48.3	51	140	12	5	54	30	M10x50*	40x40x4	2.2	3.65	0.64	0.65
T-PC-025-0050	DN50	2"	60.3	57	152	12	5	66	30	M12x60	40x40x4	2.75	4.55	0.83	0.84

All welds to be a = 0.7 WT, but max 4mm CFW.

Bolt hole Dia. = Bolt dia. (M) + 2 mm.

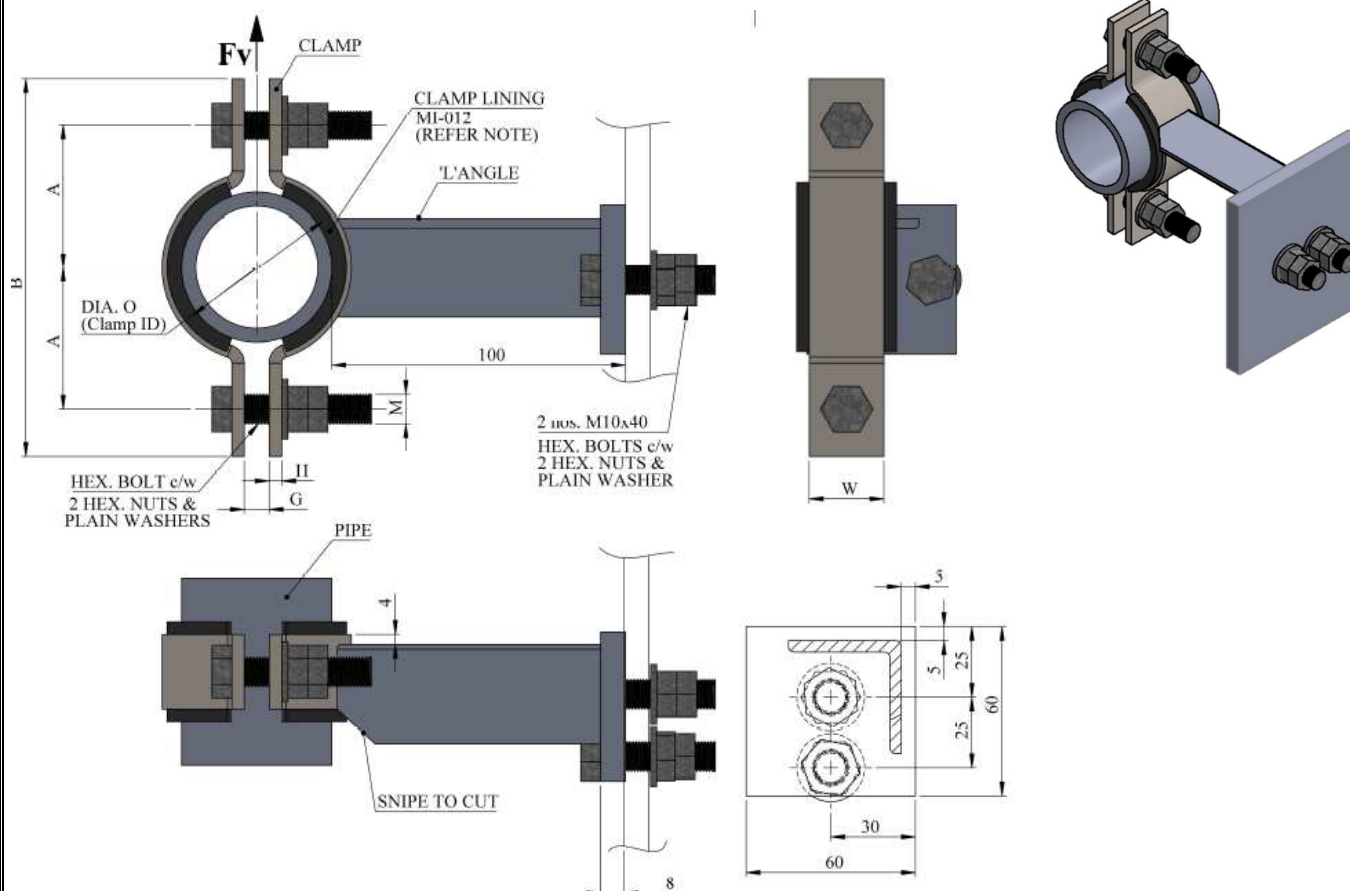
Weld bracket to support structure.

Temperature range for lining ref. MI-012 is (-) 100°C to (+) 250°C.

*On the CS version (PC-025-[DN]-CS) M10 to be SS.

Std. type includes all bolts (fully threaded with a min. over length of 3 threads) plain washers and double nuts.

If CS clamp is galvanized (not painted) then the max. design temp. can be increased to 250°C (lining maximum).

**10.7 PIPE CLAMP / BOLTED BRACKET
FOR CS, SS & ALLOY SMALL BORE LINES - GRIP ONLY**
PC-026


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-PC-026-(DN)-SS	SS	250 °C	(-) 100 °C
T-PC-026-(DN)-CS	CS	250 °C	(-) 100 °C

TYPE	LINE SIZE			PIPE CLAMP DIMENSION						BOLT SIZE	'L' ANGLE SIZE	MAX. LOADS Fv (kN)		WEIGHTS (in kg)	
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	G	H	Dia. O	W	M*		SS	CS	CS	SS
T-PC-026-0015	DN15	1/2"	21.3	32	102	12	3	27	30	M10 x 50*	L30x30x3	1.35	2.25	0.608	0.611
T-PC-026-0020	DN20	3/4"	26.7	32	102	12	3	33	30	M10 x 50*	L30x30x3	1.35	2.25	0.611	0.614
T-PC-026-0025	DN25	1"	33.4	38	114	12	3	39	30	M10 x 50*	L40x40x4	1.35	2.25	0.632	0.635
T-PC-026-0030	DN30	1 1/4"	42.2	44	126	12	3	48	30	M10 x 50*	L40x40x4	1.35	2.25	0.654	0.658
T-PC-026-0040	DN40	1 1/2"	48.3	51	140	12	5	54	30	M10 x 50*	L40x40x4	2.2	3.65	0.821	0.828
T-PC-026-0050	DN50	2"	60.3	57	152	12	5	66	30	M12 x 60*	L40x40x4	2.75	4.55	0.907	0.915

All welds to be a = 0.7 WT, but max 4mm CFW.

Bolt hole dia. = Bolt dia. (M) + 2 mm.

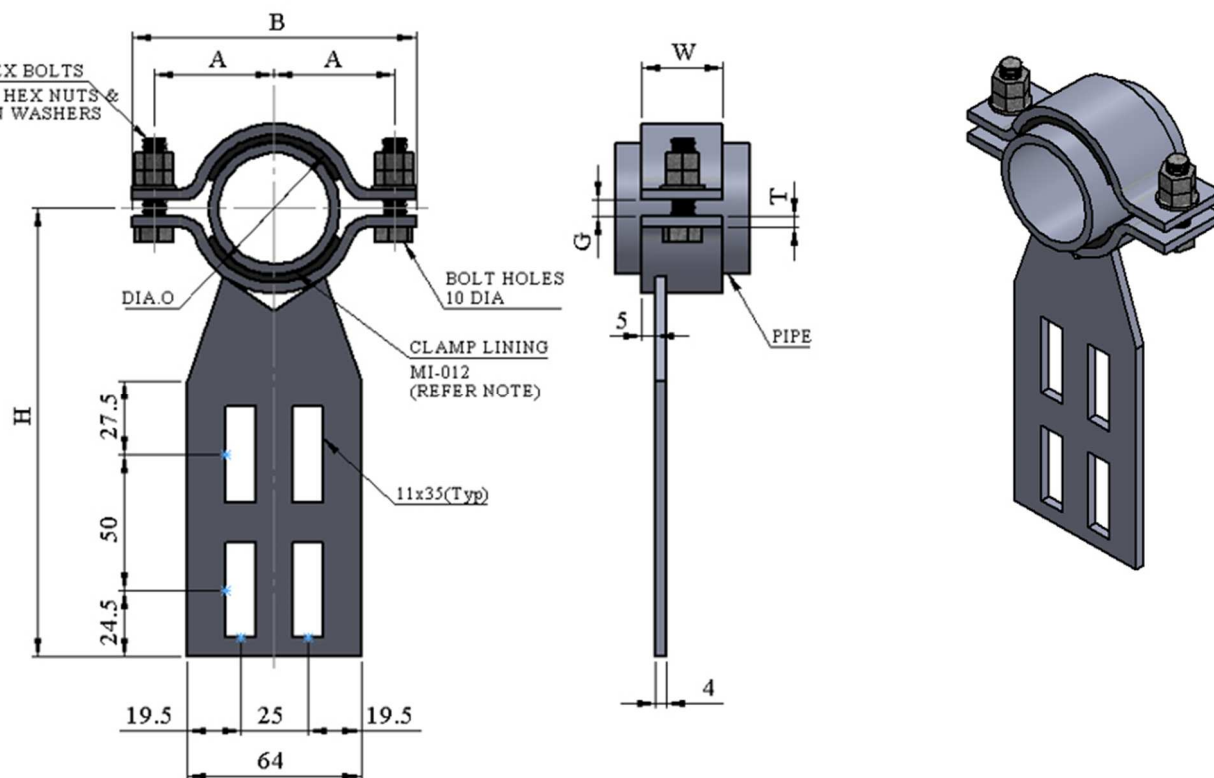
Weld bracket to support structure.

Temperature range for lining ref. MI-012 is (-) 100°C to (+) 250°C.

If CS clamp is galvanized (not painted) then the Max. design temp. can be increased to 250°C (lining maximum).

*On the CS version (PC-026-[DN]-CS) M10, Bolts to be SS.

Std. type includes all bolts (fully threaded with a min. over length of 3 threads), plain washers and double nuts.

**10.8 BOLTED CLAMP WITH PERFORATED PLATE
FOR CS, SS & ALLOY SMALL BORE LINES - GRIP ONLY**
PC-027


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-PC-027-(DN)-SS	SS	250 °C	(-) 100 °C
T-PC-027-(DN)-CS	CS	250 °C	(-)100 °C

TYPE	LINE SIZE			PIPE CLAMP DIMENSION							BOLT SIZE	MAX. LOADS Fv & Fc (kN)		WEIGHTS (in kg)	
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	G	H	Dia. O	T	W	M*	SS	CS	SS	CS
T-PC-027-0015	DN15	1/2"	21.3	29.5	75	6	147.8	27	4	30	M8 x 35	1.8	3	0.46	0.46
T-PC-027-0020	DN20	3/4"	26.7	32.2	80.4	6	151.6	33	4	30	M8 x 35	1.8	3	0.47	0.47
T-PC-027-0025	DN25	1"	33.4	35.7	87.3	6	156.2	39	4	30	M8 x 35	1.8	3	0.49	0.49
T-PC-027-0030	DN30	1 1/4"	42.2	39.8	95.5	6	161.8	48	4	30	M8 x 35	1.8	3	0.52	0.52
T-PC-027-0040	DN40	1 1/2"	48.3	44.3	104.5	6	165.5	54	4	30	M8 x 35	1.8	3	0.54	0.54

All welds to be a = 0.7 WT, but max 4mm CFW.

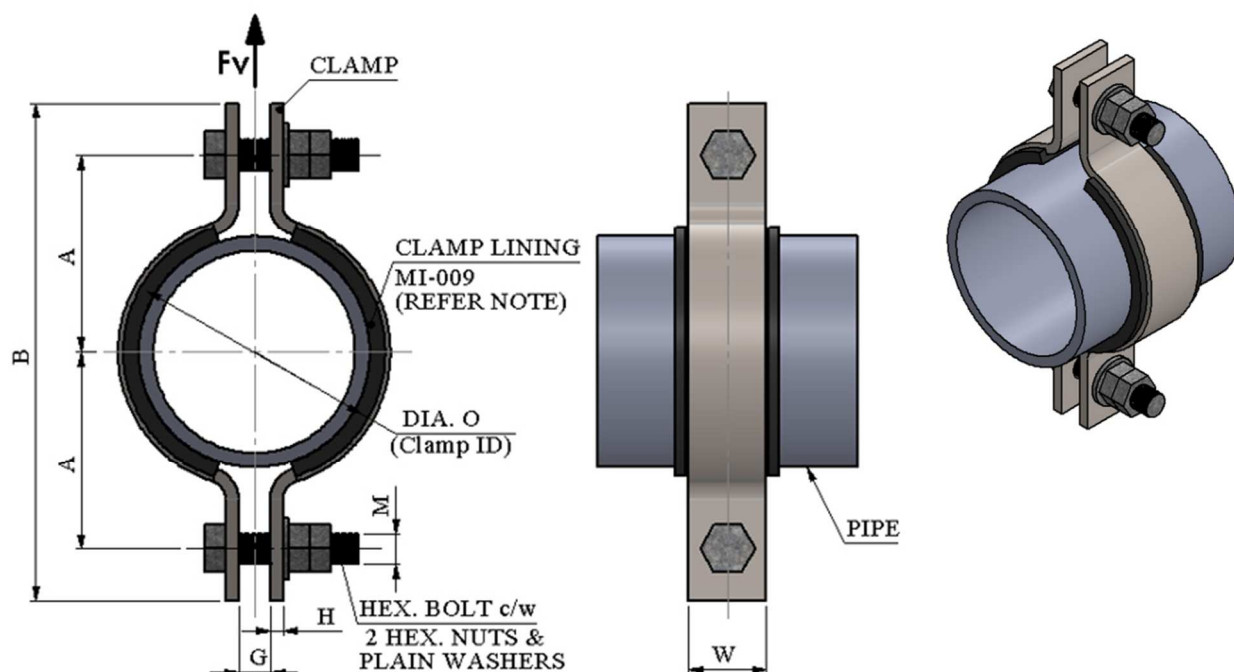
Temperature range for lining ref. MI-012 is (-) 100°C to (+) 250°C.

*On the CS version (PC-027-[DN]-CS) all bolting shall be SS.

Std. type includes all bolts (fully threaded with a min. over length of 3 threads), plain washers and double nuts.

If CS clamp is galvanized (not painted) then the max. design temp. can be increased to 250°C (lining maximum).

Max FI (line stop) load for SS = 0.3 kN for CS details increase Load Fv and Fc by a factor of 1.7

10.9 2 BOLTS HIGH TEMP. PIPE CLAMP FOR CS, SS & ALLOY LINES (LIGHT LOADS)
DN 15- DN 600 mm / NPS ½" - NPS 24"
PC-028


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T- PC-028-(DN)-SS	SS	350 °C	(-) 60 °C
T- PC-028-(DN)-CS	CS	350 °C	(-) 60 °C

TYPE	LINE SIZE			PIPE CLAMP DIMENSION						BOLT SIZE	MAX. LOADS Fv (kN)		WEIGHTS (in kg)	
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	G	H	Dia. O	W	M*	SS	CS	CS	SS
T-PC-028-0015	DN 15	1/2"	21.3	32	102	12	3	27	30	M10 x 50 *	1.3	2.2	0.29	0.293
T-PC-028-0020	DN 20	3/4"	26.7	32	102	12	3	33	30	M10 x 50 *	1.3	2.2	0.293	0.296
T-PC-028-0025	DN 25	1"	33.4	38	114	12	3	39	30	M10 x 50 *	1.3	2.2	0.314	0.317
T-PC-028-0030	DN 30	1 1/4"	42.2	44	126	12	3	48	30	M10 x 50 *	1.3	2.2	0.336	0.34
T-PC-028-0040	DN 40	1 1/2"	48.3	51	140	12	5	54	30	M10 x 50 *	2.2	3.6	0.508	0.51
T-PC-028-0050	DN 50	2"	60.3	57	152	12	5	66	30	M12 x 60	2.7	4.5	0.589	0.597
T-PC-028-0080	DN 80	3"	88.9	76	192	16	5	95	30	M12 x 60	2.7	4.5	0.712	0.722
T-PC-028-0100	DN 100	4"	114.3	95	228	20	6	120	40	M16 x 70	2.7	4.5	1.394	1.413
T-PC-028-0125	DN 125	5"	141.3	114	270	20	6	147	40	M16 x 70	2.7	4.5	1.609	1.632
T-PC-028-0150	DN 150	6"	168.3	127	304	24	10	174	40	M20 x 100	4.3	7.2	3.074	3.118
T-PC-028-0200	DN 200	8"	219.1	159	368	24	10	225	40	M20 x 100	4.3	7.2	3.646	3.7
T-PC-028-0250	DN 250	10"	273	190	444	27	12	279	50	M24 x 110	6.5	10.9	6.544	6.644
T-PC-028-0300	DN 300	12"	323.8	216	496	27	12	330	50	M24 x 110	6.5	10.9	7.288	7.40
T-PC-028-0350	DN 350	14"	355.6	235	546	27	12	362	70	M24 x 110	6.5	10.9	10.577	10.75
T-PC-028-0400	DN 400	16"	406.4	260	596	27	12	412	70	M24 x 110	6.5	10.9	11.59	11.79
T-PC-028-0450	DN 450	18"	457.2	298	686	30	15	463	70	M24 x 120	8.1	13.6	15.88	16.16
T-PC-028-0500	DN 500	20"	508	324	750	40	15	514	70	M24 x 130	8.1	13.6	17.5	17.81
T-PC-028-0600	DN 600	24"	609.6	387	872	40	15	616	80	M30 x 140	8.1	13.6	24.5	24.87

Provide clamp lining between pipe and clamp (Ref. MI-009)

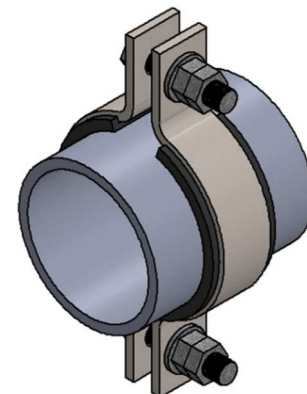
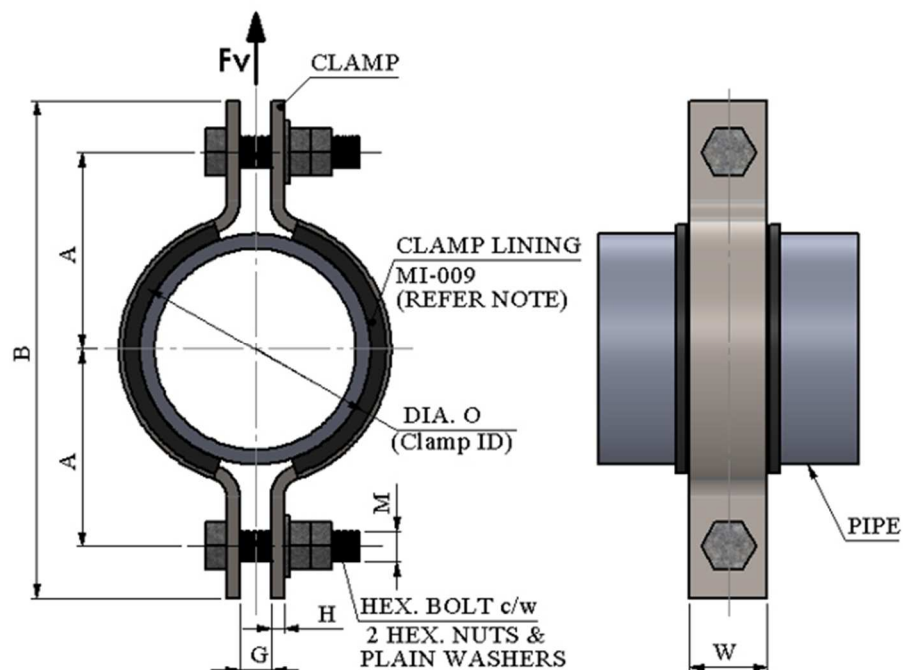
* All bolting sizes 10mm and below to be SS.

Bolt hole dia. = up to and including M24 = bolt dia. (M) + 2 mm & above M24 = Bolt Dia. (M) + 3mm.

Std. type includes all bolts (fully threaded with a min. over length of 3 threads) plain washers and double nuts.

10.10 2 BOLTS HIGH TEMP PIPE CLAMP FOR CS, SS & ALLOY LINES (HEAVY LOADS) DN 40 - DN 600 mm / NPS 1 1/2" - NPS 24"

PC-029



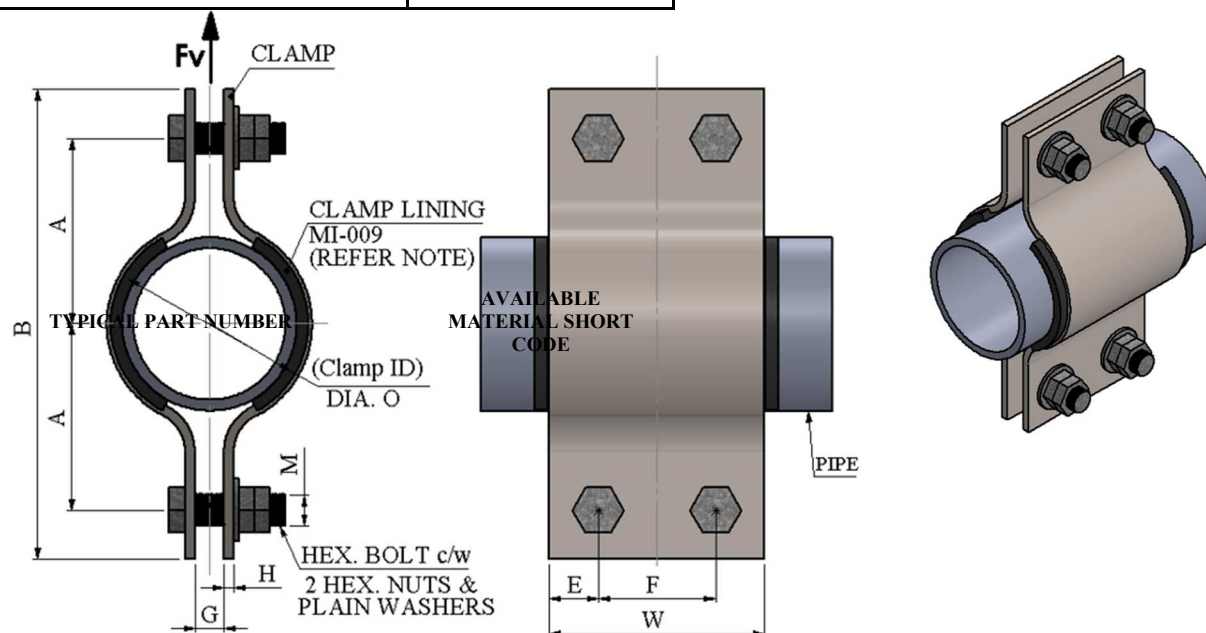
TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-PC-029-(DN)-SS	SS	350 °C	(-) 60 °C
T-PC-029-(DN)-CS	CS	350 °C	(-) 60 °C

TYPE	LINE SIZE			PIPE CLAMP DIMENSION						BOLT SIZE	MAX. LOADS Fv (kN)		WEIGHTS (in kg)	
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	G	H	Dia. O	W	M	SS	CS	CS	SS
T-PC-029-0040	DN 40	1 1/2"	48.3	50	140	16	6	54	40	M12 x 60	3	5	0.87	0.88
T-PC-029-0050	DN 50	2"	60.3	65	170	16	6	66	40	M12 x 60	3	5	1.1	1.2
T-PC-029-0080	DN 80	3"	88.9	85	220	20	6	95	40	M20 x 80	9	15	1.65	1.67
T-PC-029-0100	DN 100	4"	114.3	96	254	24	10	120	50	M24 x 100	9.5	15.9	3.51	3.55
T-PC-029-0125	DN 125	5"	141.3	115	290	24	10	147	50	M24 x 100	9.5	15.9	3.89	3.92
T-PC-029-0150	DN 150	6"	168.3	135	350	28	12	174	70	M24 x 110	13.1	21.8	6.66	6.76
T-PC-029-0200	DN 200	8"	219.1	160	400	28	12	225	70	M24 x 110	13.1	21.8	7.66	7.78
T-PC-029-0250	DN 250	10"	273	200	470	34	15	279	70	M24 x 120	16.3	27.2	10.79	10.98
T-PC-029-0300	DN 300	12"	323.8	235	560	34	20	330	80	M30 x 160	23.4	39	20.66	20.99
T-PC-029-0350	DN 350	14"	355.6	255	610	40	20	362	90	M36 x 160	24.8	41.3	26.63	27.1
T-PC-029-0400	DN 400	16"	406.4	280	660	40	20	412	90	M36 x 160	24.8	41.3	28.77	29.23
T-PC-029-0450	DN 450	18"	457.2	305	720	40	20	463	90	M36 x 160	24.8	41.3	31.26	31.75
T-PC-029-0500	DN 500	20"	508	330	770	40	20	514	90	M36 x 160	24.8	41.3	33.44	33.97
T-PC-029-0600	DN 600	24"	609.6	395	890	40	20	616	90	M36 x 160	24.8	41.3	38.41	39.1

Provide clamp lining between pipe and clamp (Ref. MI-009).

Bolt hole dia. = up to and including M24 = Bolt dia. (M) + 2 mm & above M24 = Bolt dia. (M) + 3mm.

Std. type includes all bolts (fully threaded with a min. over length of 3 threads), plain washers and double nuts.

10.11 4 BOLTS HIGH TEMP. PIPE CLAMP FOR CS, SS & ALLOY LINES (HEAVY LOADS)
DN 15- DN 600 mm / NPS 2" - NPS 24"
PC-030
STD DETAIL TEMPERATURE LIMITATION


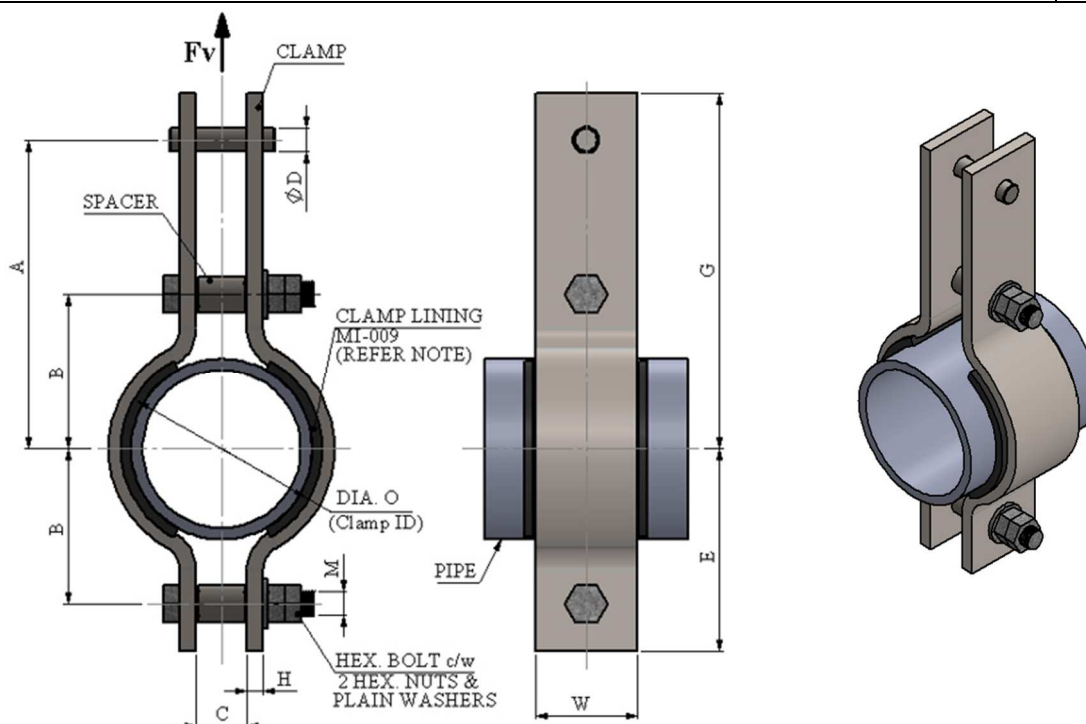
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-PC-030-(DN)-SS	SS	350 °C	(-) 60 °C
T-PC-030-(DN)-CS	CS	350 °C	(-) 60 °C

TYPE	LINE SIZE			PIPE CLAMP DIMENSION								BOLT SIZE	MAX. LOADS Fv (kN)		WEIGHTS (in kgs)	
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	E	F	G	H	Dia. O	W	M	SS	CS	CS	SS
T-PC-030-0050	DN 50	2"	60.3	65	170	20	40	15	6	66	80	M12 x 60	4.9	8.2	1.78	1.81
T-PC-030-0080	DN 80	3"	88.9	95	240	25	60	20	10	95	110	M16 x 80	6	10.1	5.39	5.5
T-PC-030-0100	DN 100	4"	114.3	110	270	25	60	20	10	120	110	M16 x 80	7.7	12.9	6.12	6.22
T-PC-030-0125	DN 125	5"	141.3	125	310	25	60	20	10	147	110	M16 x 80	7.7	12.9	7.1	7.2
T-PC-030-0150	DN 150	6"	168.3	140	340	35	70	25	10	174	140	M20 x 100	8.8	14.7	10.4	10.52
T-PC-030-0200	DN 200	8"	219.1	165	390	35	70	25	12	225	140	M20 x 100	13.2	22	14.1	14.31
T-PC-030-0250	DN 250	10"	273	190	440	35	70	25	12	279	140	M20 x 100	13.6	22.7	16.2	16.42
T-PC-030-0300	DN 300	12"	323.8	215	490	35	70	25	12	330	140	M20 x 100	13.6	22.7	18.2	18.53
T-PC-030-0350	DN 350	14"	355.6	240	550	50	100	30	12	362	200	M24 x 110	16.2	27	29.2	29.65
T-PC-030-0400	DN 400	16"	406.4	265	600	50	100	30	12	412	200	M24 x 110	15.8	26.4	32.1	32.64
T-PC-030-0450	DN 450	18"	457.2	290	650	50	100	30	12	463	200	M24 x 110	16.4	27.3	35.1	35.64
T-PC-030-0500	DN 500	20"	508	320	710	50	100	30	15	514	200	M24 x 115	25	41.7	47.1	47.88
T-PC-030-0600	DN 600	24"	609.6	370	810	50	100	30	15	616	200	M24 x 115	25.3	42.2	54.4	55.42

Provide clamp lining between pipe and clamp (Ref. MI-009).

Bolt hole dia. = up to and including M24 = Bolt dia. (M) + 2 mm & above M24 = Bolt dia. (M) + 3mm.

Std. type includes all bolts (fully threaded with a min. over length of 3 threads), plain washers and double nuts.

10.12 3 BOLTS HIGH TEMP. PIPE CLAMP FOR CS, SS & ALLOY LINES (LIGHT LOADS)
DN 15 - DN 600 mm / NPS 1/2" - NPS 24"
PC-031


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-PC-031-(DN)-SS	SS	350 °C	(-) 60 °C
T-PC-031-(DN)-CS	CS	350 °C	(-) 60 °C

TYPE	LINE SIZE			PIPE CLAMP DIMENSION									BOLT SIZE	MAX. LOADS Fv (kN)		WEIGHTS (in kg)	
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	C	D	E	G	H	Dia. O	W	M*	SS	CS	CS	SS
T-PC-031-0015	DN 15	1/2"	21.3	92	32	12	10	47	107	6	27	30	M10 x 50*	1.9	3.3	0.51	0.61
T-PC-031-0020	DN 20	3/4"	26.7	95	38	12	10	53	110	6	33	30	M10 x 50*	1.9	3.3	0.53	0.62
T-PC-031-0025	DN 25	1"	33.4	97	44	12	10	59	112	6	39	30	M10 x 50*	1.9	3.3	0.54	0.64
T-PC-031-0030	DN 30	1 1/4"	42.2	102	49	12	10	64	117	6	48	30	M10 x 50*	1.9	3.3	0.56	0.65
T-PC-031-0040	DN 40	1 1/2"	48.3	102	46	25	12	68	124	6	54	30	M12 x 70	1.9	3.3	0.69	0.87
T-PC-031-0050	DN 50	2"	60.3	127	54	25	12	76	149	6	66	30	M12 x 70	1.9	3.3	0.74	0.92
T-PC-031-0080	DN 80	3"	88.9	152	76	25	12	99	175	8	95	50	M12 x 70	4.3	7.3	1.34	1.54
T-PC-031-0100	DN 100	4"	114.3	165	100	25	16	129	194	10	120	50	M16 x 90	5.8	9.8	2.31	2.68
T-PC-031-0125	DN 125	5"	141.3	178	114	25	16	142	206	10	147	50	M16 x 90	5.8	9.8	2.45	2.83
T-PC-031-0150	DN 150	6"	168.3	216	135	38	20	173	254	10	174	70	M20 x 110	8	13.7	4.31	5.03
T-PC-031-0200	DN 200	8"	219.1	241	163	38	20	201	279	10	225	70	M20 x 110	8.9	15.1	4.74	5.47
T-PC-031-0250	DN 250	10"	273	279	192	38	20	230	317	12	279	70	M20 x 110	9.9	16.8	6.02	6.81
T-PC-031-0300	DN 300	12"	323.8	305	220	38	20	258	343	12	330	70	M20 x 110	9.9	16.8	6.56	7.36
T-PC-031-0350	DN 350	14"	355.6	330	243	51	24	291	378	15	362	80	M24 x 140	15.6	26.6	10.57	12.02
T-PC-031-0400	DN 400	16"	406.4	356	273	51	24	320	403	15	412	80	M24 x 140	15.6	26.6	11.34	12.8
T-PC-031-0450	DN 450	18"	457.2	381	300	51	24	348	429	15	463	80	M24 x 140	15.6	26.6	12.09	13.57
T-PC-031-0500	DN 500	20"	508	406	329	51	24	380	457	20	514	80	M24 x 150	22.9	39	16.29	17.99
T-PC-031-0600	DN 600	24"	609.6	457	390	51	24	447	514	20	616	100	M30 x 160	28.7	48.8	26.29	28.11

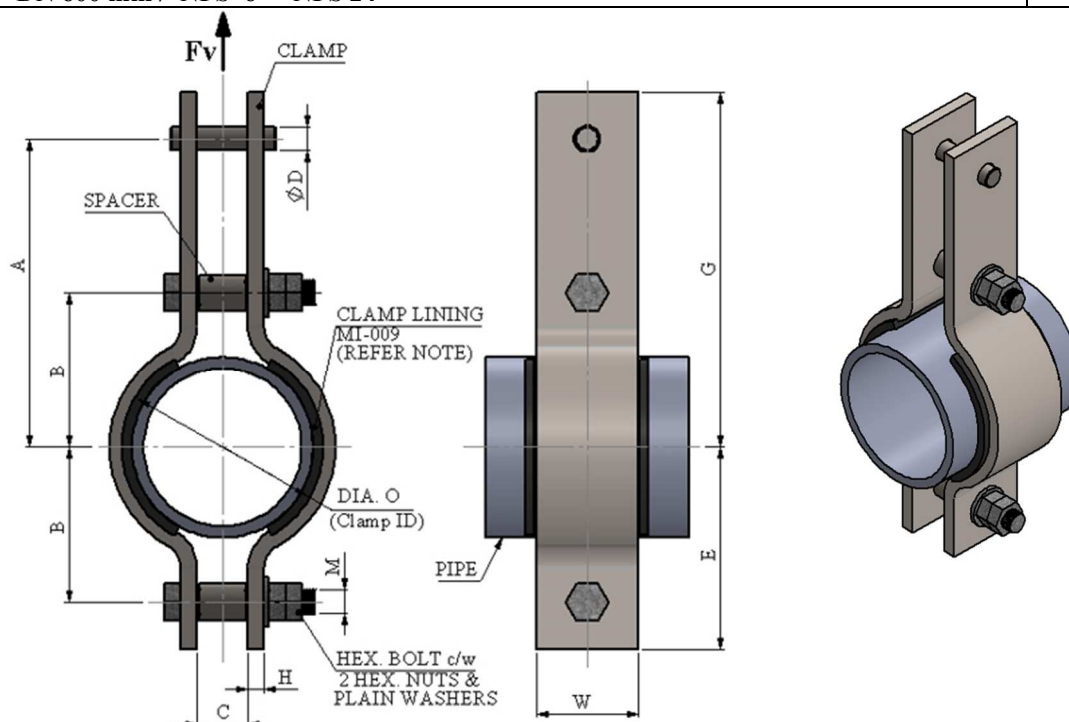
Provide clamp lining between pipe and clamp (ref. MI-009).

*All bolting sizes 10mm and below to be SS.

Bolt hole dia. = up to and including M24 = Bolt dia. (M) + 2 mm & above M24 = Bolt dia. (M) + 3mm.

Clamp spacer from suitable material to suit bolt size and length = C - 2 mm.

Std. type includes all bolts (fully threaded with a min. over length of 3 threads), plain washers and double nuts.

10.13 3 BOLTS HIGH TEMP PIPE CLAMP FOR CS, SS & ALLOY LINES (HEAVY LOADS)
DN 150 - DN 600 mm / NPS 6" - NPS 24"
PC-032


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-PC-032-(DN)-SS	SS	350 °C	(-) 60 °C
T-PC-032-(DN)-CS	CS	350 °C	(-) 60 °C

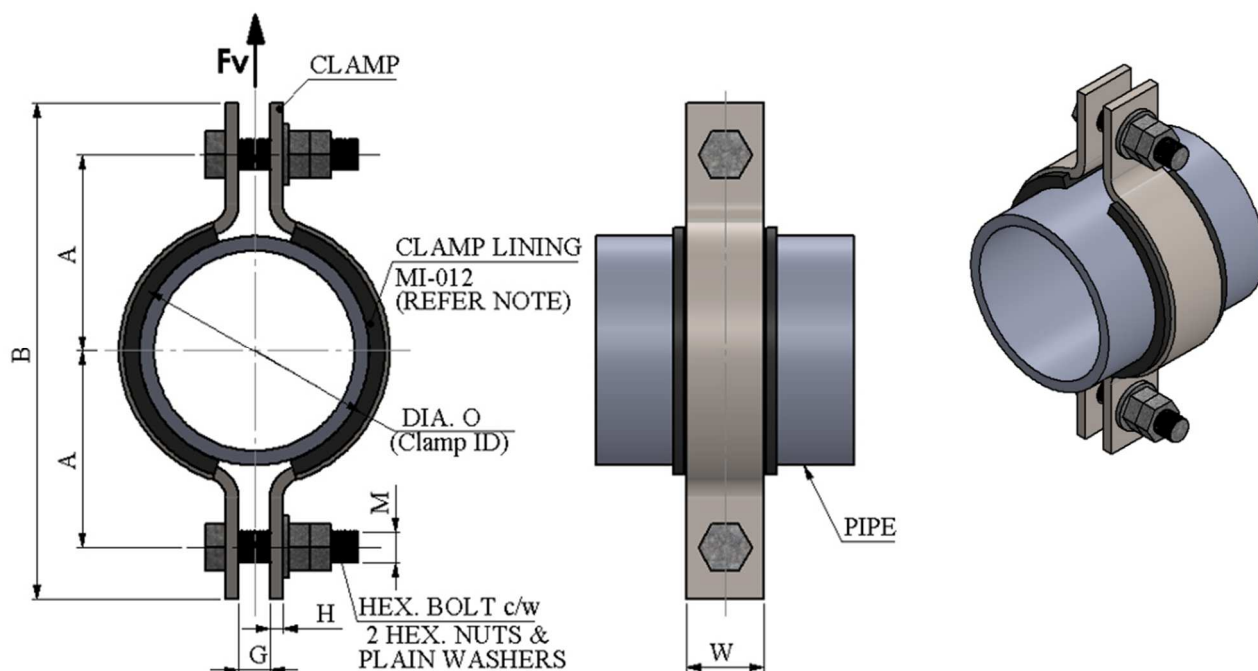
TYPE	LINE SIZE			PIPE CLAMP DIMENSION									BOLT SIZE	MAX. LOADS Fv (kN)		WEIGHTS (in kg)	
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	C	D	E	G	H	Dia. O	W	M	SS	CS	CS	SS
T-PC-032-0150	DN 150	6"	168.3	229	143	44	30	193	279	12	174	100	M36 x 150	32.9	55.9	15.75	15.94
T-PC-032-0200	DN 200	8"	219.1	254	172	44	30	223	305	12	225	110	M36 x 150	36.2	61.5	18.41	18.64
T-PC-032-0250	DN 250	10"	273	305	214	51	36	265	356	20	279	100	M36 x 170	45	76.5	28.7	29.12
T-PC-032-0300	DN 300	12"	323.8	330	240	51	36	291	381	20	330	100	M36 x 170	45	76.5	31.1	31.2
T-PC-032-0350	DN 350	14"	355.6	356	262	57	42	319	413	20	362	110	M36 x 180	49.5	84.1	36.91	37.5
T-PC-032-0400	DN 400	16"	406.4	381	292	57	42	349	438	25	412	110	M36 x 190	61.9	105.2	47.74	48.5
T-PC-032-0450	DN 450	18"	457.2	406	317	57	42	375	464	25	463	110	M36 x 190	61.9	105.2	51.15	51.98
T-PC-032-0500	DN 500	20"	508	457	353	57	42	417	521	25	514	130	M36 x 190	73.1	124.3	65.63	66.74
T-PC-032-0600	DN 600	24"	609.6	508	418	57	42	494	584	30	616	150	M36 x 200	84.4	143.4	101.35	103.13

Provide clamp lining between pipe and clamp (Ref. MI-009)

Bolt hole dia. = bolt dia. (M) + 3mm

Clamp spacer from suitable material to suit bolt size and length = C – 2 mm

Std. type includes all bolts (fully threaded with a min. over length of 3 threads), plain washers and double nuts.

10.14 2 BOLTS LOW TEMP. PIPE CLAMP FOR CS, SS & ALLOY LINES (LIGHT LOADS)
DN 15- DN 600 mm / NPS ½" - NPS 24"
PC-033


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T- PC-033-(DN)-SS	SS	250 °C	(-) 100 °C
T- PC-033-(DN)-CS	CS	250 °C	(-) 100 °C

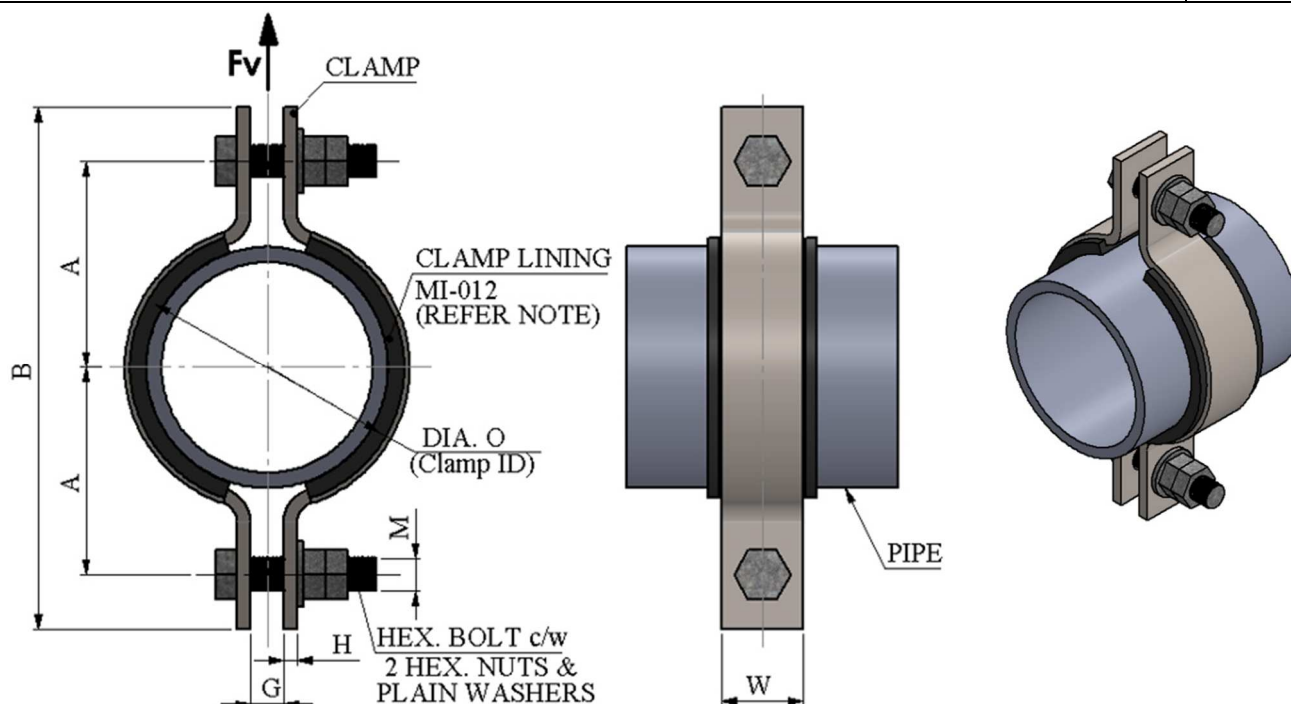
TYPE	LINE SIZE			PIPE CLAMP DIMENSION						BOLT SIZE	MAX. LOADS Fv (kN)	WEIGHTS (in kg)
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	G	H	Dia. O	W	M	SS	SS
T-PC-033-0015	DN 15	1/2"	21.3	32	102	12	3	27	30	M10 x 50*	1.3	0.293
T-PC-033-0020	DN 20	3/4"	26.7	32	102	12	3	33	30	M10 x 50 *	1.3	0.296
T-PC-033-0025	DN 25	1"	33.4	38	114	12	3	39	30	M10 x 50 *	1.3	0.32
T-PC-033-0030	DN 30	1 1/4"	42.2	44	126	12	3	48	30	M10 x 50 *	1.3	0.34
T-PC-033-0040	DN 40	1 1/2"	48.3	51	140	12	5	54	30	M10 x 50 *	2.2	0.51
T-PC-033-0050	DN 50	2"	60.3	57	152	12	5	66	30	M12 x 60	2.7	0.597
T-PC-033-0080	DN 80	3"	88.9	76	192	16	5	95	30	M12 x 60	2.7	0.722
T-PC-033-0100	DN 100	4"	114.3	95	228	20	6	120	40	M16 x 70	2.7	1.413
T-PC-033-0125	DN 125	5"	141.3	114	270	20	6	147	40	M16 x 70	2.7	1.632
T-PC-033-0150	DN 150	6"	168.3	127	304	24	10	174	40	M20 x 100	4.3	3.12
T-PC-033-0200	DN 200	8"	219.1	159	368	24	10	225	40	M20 x 100	4.3	3.70
T-PC-033-0250	DN 250	10"	273	190	444	27	12	279	50	M24 x 110	6.5	6.64
T-PC-033-0300	DN 300	12"	323.8	216	496	27	12	330	50	M24 x 110	6.5	7.40
T-PC-033-0350	DN 350	14"	355.6	235	546	27	12	362	70	M24 x 110	6.5	10.75
T-PC-033-0400	DN 400	16"	406.4	260	596	27	12	412	70	M24 x 110	6.5	11.79
T-PC-033-0450	DN 450	18"	457.2	298	686	30	15	463	70	M24 x 120	8.1	16.16
T-PC-033-0500	DN 500	20"	508	324	750	40	15	514	70	M24 x 130	8.1	17.8
T-PC-033-0600	DN 600	24"	609.6	387	872	40	15	616	80	M30 x 140	8.1	24.87

Provide clamp lining between pipe and clamp (Ref. MI-012).

*All bolting sizes 10mm and below to be SS.

Bolt hole dia. = up to and including M24 = Bolt dia. (M) + 2 mm & above M24 = Bolt dia. (M) + 3mm.

Std. type includes all bolts (fully threaded with a min. over length of 3 threads), plain washers and double nuts.

10.15 2 BOLTS LOW TEMP PIPE CLAMP FOR CS, SS & ALLOY LINES (HEAVY LOADS)
DN 40 - DN 600 mm / NPS 1 1/2" - NPS 24"
PC-034


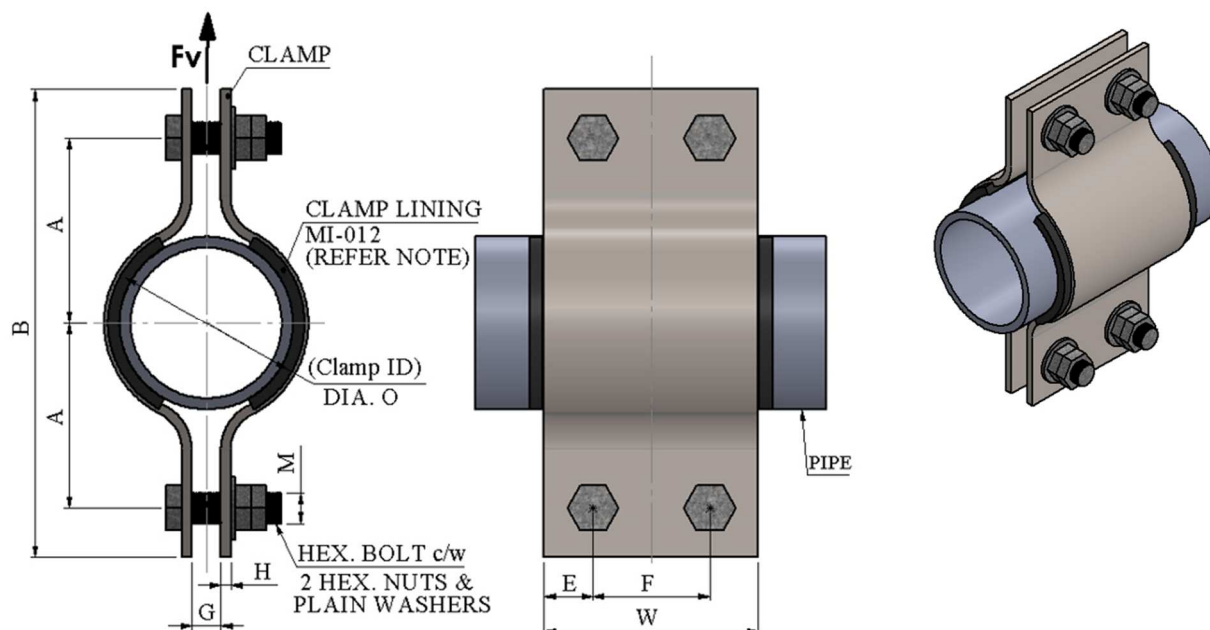
TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-PC-034-(DN)-SS	SS	250 °C	(-) 100 °C
T-PC-034-(DN)-CS	CS	250 °C	(-) 100 °C

TYPE	LINE SIZE			PIPE CLAMP DIMENSION						BOLT SIZE	MAX. LOADS Fv (kN)	WEIGHTS (in kg)
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	G	H	Dia. O	W	M	Stainless steel	SS
T-PC-034-0040	DN 40	1 1/2"	48.3	50	140	16	6	54	40	M12 x 60	3	0.88
T-PC-034-0050	DN 50	2"	60.3	65	170	16	6	66	40	M12 x 60	3	1.2
T-PC-034-0080	DN 80	3"	88.9	85	220	20	6	95	40	M20 x 80	9	1.65
T-PC-034-0100	DN 100	4"	114.3	96	254	24	10	120	50	M24 x 100	9.5	3.55
T-PC-034-0125	DN 125	5"	141.3	115	290	24	10	147	50	M24 x 100	9.5	3.92
T-PC-034-0150	DN 150	6"	168.3	135	350	28	12	174	70	M24 x 110	13.1	6.76
T-PC-034-0200	DN 200	8"	219.1	160	400	28	12	225	70	M24 x 110	13.1	7.78
T-PC-034-0250	DN 250	10"	273	200	470	34	15	279	70	M24 x 120	16.3	10.98
T-PC-034-0300	DN 300	12"	323.8	235	560	34	20	330	80	M30 x 160	23.4	20.99
T-PC-034-0350	DN 350	14"	355.6	255	610	40	20	362	90	M36 x 160	24.8	27.02
T-PC-034-0400	DN 400	16"	406.4	280	660	40	20	412	90	M36 x 160	24.8	29.23
T-PC-034-0450	DN 450	18"	457.2	305	720	40	20	463	90	M36 x 160	24.8	31.75
T-PC-034-0500	DN 500	20"	508	330	770	40	20	514	90	M36 x 160	24.8	33.97
T-PC-034-0600	DN 600	24"	609.6	395	890	40	20	616	90	M36 x 160	24.8	39.1

Provide clamp lining between pipe and clamp (Ref. MI-012).

Bolt hole dia. = up to and including M24 = Bolt dia. (M) + 2 mm & above M24 = Bolt dia. (M) + 3mm.

Std. type includes all bolts (fully threaded with a min. over length of 3 threads), plain washers and double nuts.

10.16 4 BOLTS LOW TEMP. PIPE CLAMP FOR CS, SS & ALLOY LINES (HEAVY LOADS)
DN 50- DN 600 mm / NPS 2" - NPS 24"
PC-035


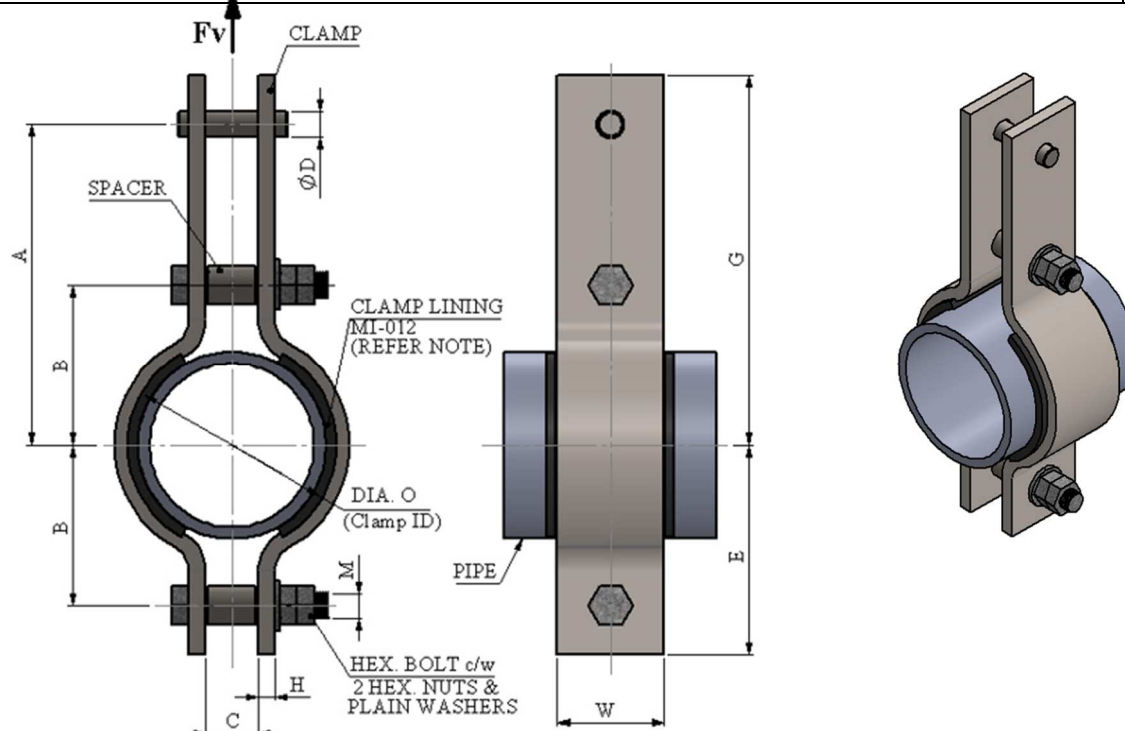
TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-PC-035-(DN)-SS	SS	250 °C	(-) 100 °C
T-PC-035-(DN)-CS	CS	250 °C	(-) 100 °C

TYPE	LINE SIZE			PIPE CLAMP DIMENSION								BOLT SIZE	MAX. LOADS Fv (kN)	WEIGHTS (in kg)
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	E	F	G	H	Dia. O	W	M	SS	SS
T-PC-035-0050	DN 50	2"	60.3	65	170	20	40	15	6	66	80	M12 x 60	4.9	1.81
T-PC-035-0080	DN 80	3"	88.9	95	240	25	60	20	10	95	110	M16 x 80	6	5.5
T-PC-035-0100	DN 100	4"	114.3	110	270	25	60	20	10	120	110	M16 x 80	7.7	6.22
T-PC-035-0125	DN 125	5"	141.3	125	310	25	60	20	10	147	110	M16 x 80	7.7	7.2
T-PC-035-0150	DN 150	6"	168.3	140	340	35	70	25	10	174	140	M20 x 100	8.8	10.52
T-PC-035-0200	DN 200	8"	219.1	165	390	35	70	25	12	225	140	M20 x 100	13.2	14.31
T-PC-035-0250	DN 250	10"	273	190	440	35	70	25	12	279	140	M20 x 100	13.6	16.42
T-PC-035-0300	DN 300	12"	323.8	215	490	35	70	25	12	330	140	M20 x 100	13.6	18.53
T-PC-035-0350	DN 350	14"	355.6	240	550	50	100	30	12	362	200	M24 x 110	16.2	29.65
T-PC-035-0400	DN 400	16"	406.4	265	600	50	100	30	12	412	200	M24 x 110	15.8	32.64
T-PC-035-0450	DN 450	18"	457.2	290	650	50	100	30	12	463	200	M24 x 110	16.4	35.64
T-PC-035-0500	DN 500	20"	508	320	710	50	100	30	15	514	200	M24 x 115	25	47.88
T-PC-035-0600	DN 600	24"	609.6	370	810	50	100	30	15	616	200	M24 x 115	25.3	55.42

Provide clamp lining between pipe and clamp (ref. MI-012).

Bolt hole dia. = up to and including M24 = Bolt dia. (M) + 2 mm & above M24 = Bolt dia. (M) + 3mm.

Std. type includes all bolts (fully threaded with a min. over length of 3 threads), plain washers and double nuts.

10.17 3 BOLTS LOW TEMP PIPE CLAMP FOR CS, SS & ALLOY LINES (LIGHT LOADS)
DN 15 - DN 600 mm / NPS ½" - NPS 24"
PC-036


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-PC-036-(DN)-SS	SS	250 °C	(-) 100 °C
T-PC-036-(DN)-CS	CS	250 °C	(-) 100 °C

TYPE	LINE SIZE			PIPE CLAMP DIMENSION									BOLT SIZE	MAX. LOADS Fv (kN)	WEIGHTS (in kg)
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	C	D	E	G	H	Dia. O	W	M	SS	SS
T-PC-036-0015	DN 15	1/2"	21.3	92	32	12	10	47	107	6	27	30	M10 x 50*	1.9	0.61
T-PC-036-0020	DN 20	3/4"	26.7	95	38	12	10	53	110	6	33	30	M10 x 50*	1.9	0.62
T-PC-036-0025	DN 25	1"	33.4	97	44	12	10	59	112	6	39	30	M10 x 50*	1.9	0.64
T-PC-036-0030	DN 30	1 1/4"	42.2	102	49	12	10	64	117	6	48	30	M10 x 50*	1.9	0.65
T-PC-036-0040	DN 40	1 1/2"	48.3	102	46	25	12	68	124	6	54	30	M12 x 70	1.9	0.87
T-PC-036-0050	DN 50	2"	60.3	127	54	25	12	76	149	6	66	30	M12 x 70	1.9	0.92
T-PC-036-0080	DN 80	3"	88.9	152	76	25	12	99	175	8	95	50	M12 x 70	4.3	1.5
T-PC-036-0100	DN 100	4"	114.3	165	100	25	16	129	194	10	120	50	M16 x 90	5.8	2.6
T-PC-036-0125	DN 125	5"	141.3	178	114	25	16	142	206	10	147	50	M16 x 90	5.8	2.8
T-PC-036-0150	DN 150	6"	168.3	216	135	38	20	173	254	10	174	70	M20 x 110	8	5.1
T-PC-036-0200	DN 200	8"	219.1	241	163	38	20	201	279	10	225	70	M20 x 110	8.9	5.5
T-PC-036-0250	DN 250	10"	273	279	192	38	20	230	317	12	279	70	M20 x 110	9.9	6.8
T-PC-036-0300	DN 300	12"	323.8	305	220	38	20	258	343	12	330	70	M20 x 110	9.9	7.4
T-PC-036-0350	DN 350	14"	355.6	330	243	51	24	291	378	15	362	80	M24 x 140	15.6	12.1
T-PC-036-0400	DN 400	16"	406.4	356	273	51	24	320	403	15	412	80	M24 x 140	15.6	12.8
T-PC-036-0450	DN 450	18"	457.2	381	300	51	24	348	429	15	463	80	M24 x 140	15.6	13.6
T-PC-036-0500	DN 500	20"	508	406	329	51	24	380	457	20	514	80	M24 x 150	22.9	17.9
T-PC-036-0600	DN 600	24"	609.6	457	390	51	24	447	514	20	616	100	M30 x 160	28.7	28.1

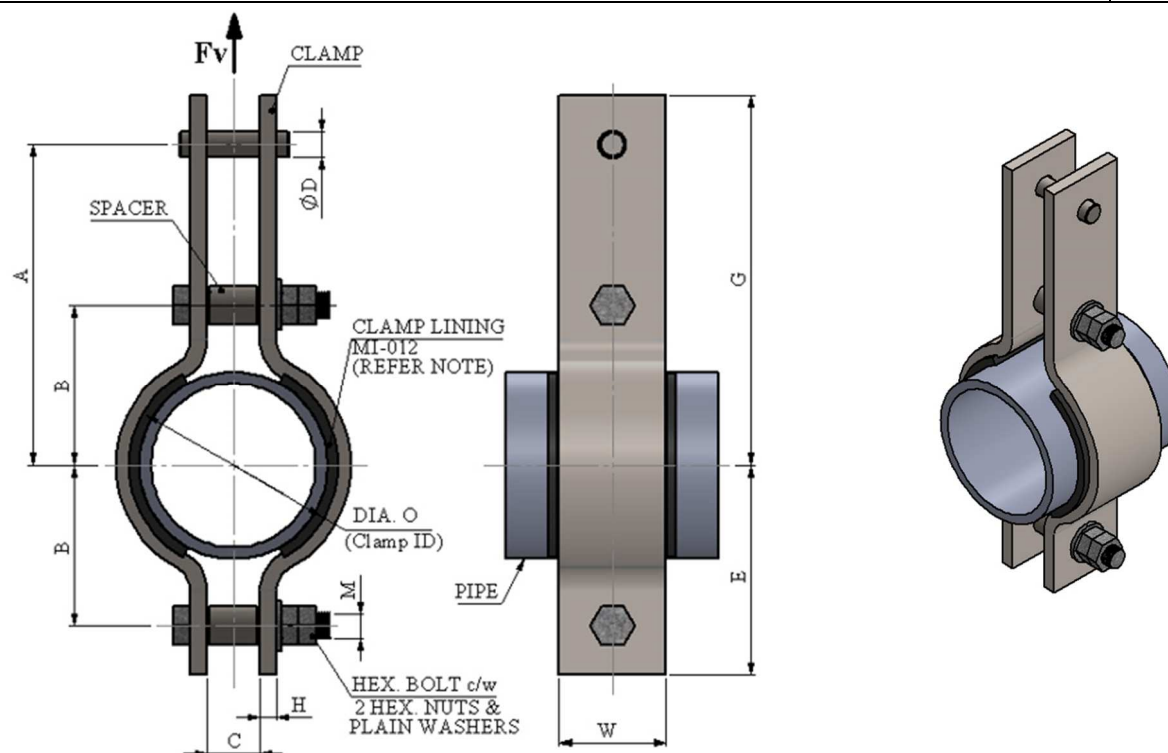
Provide clamp lining between pipe and clamp (Ref. MI-012)

*All bolting sizes 10mm and below to be SS.

Bolt hole dia. = up to and including M24 = Bolt dia. (M) + 2 mm & above M24 = Bolt dia. (M) + 3mm

Clamp spacer from suitable material to suit bolt size and length = C - 2 mm

Std. type includes all bolts (fully threaded with a min. over length of 3 threads), plain washers and double nuts.

10.18 3 BOLTS LOW TEMP PIPE CLAMP FOR CS, SS & ALLOY LINES (HEAVY LOADS)
DN 150 - DN 600 mm / NPS 6" - NPS 24"
PC-037


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-PC-037-(DN)-SS	SS	250 °C	(-) 100 °C
T-PC-037-(DN)-CS	CS	250 °C	(-) 100 °C

TYPE	LINE SIZE			PIPE CLAMP DIMENSION									BOLT SIZE	MAX. LOADS Fv (kN)	WEIGHTS (in kg)
	DN (mm)	NPS in (inch)	NPS in (mm)	A	B	C	D	E	G	H	Dia. O	W	M	SS	SS
T-PC-037-0150	DN 150	6"	168.3	229	143	44	30	193	279	12	174	100	M36 x 150	32.9	15.9
T-PC-037-0200	DN 200	8"	219.1	254	172	44	30	223	305	12	225	110	M36 x 150	36.2	18.6
T-PC-037-0250	DN 250	10"	273	305	214	51	36	265	356	20	279	100	M36 x 170	45	29.1
T-PC-037-0300	DN 300	12"	323.8	330	240	51	36	291	381	20	330	100	M36 x 170	45	31.2
T-PC-037-0350	DN 350	14"	355.6	356	262	57	42	319	413	20	362	110	M36 x 180	49.5	37.5
T-PC-037-0400	DN 400	16"	406.4	381	292	57	42	349	438	25	412	110	M36 x 190	61.9	48.5
T-PC-037-0450	DN 450	18"	457.2	406	317	57	42	375	464	25	463	110	M36 x 190	61.9	51.9
T-PC-037-0500	DN 500	20"	508	457	353	57	42	417	521	25	514	130	M36 x 190	73.1	66.7
T-PC-037-0600	DN 600	24"	609.6	508	418	57	42	494	584	30	616	150	M36 x 200	84.4	103.1

Provide clamp lining between pipe and clamp (Ref. MI-012).

Bolt hole dia. = Bolt dia. (M) + 3mm

Clamp spacer from suitable material to suit bolt size and length = C – 2 mm.

Std. type includes all bolts (fully threaded with a min. over length of 3 threads) plain washers and double nuts.