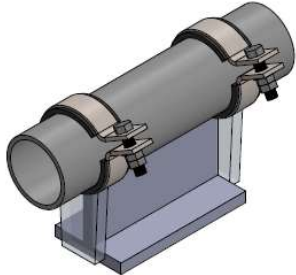
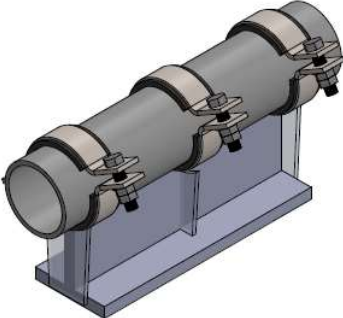
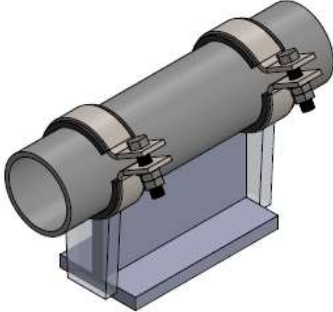
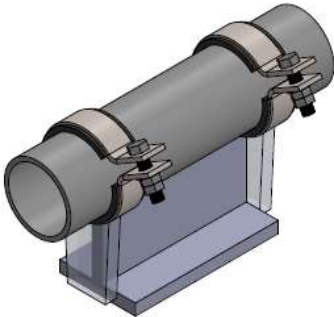
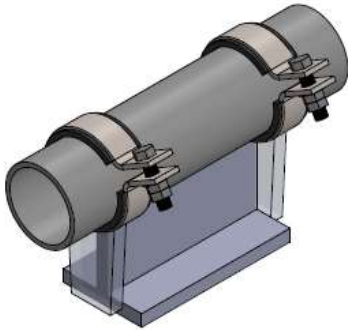
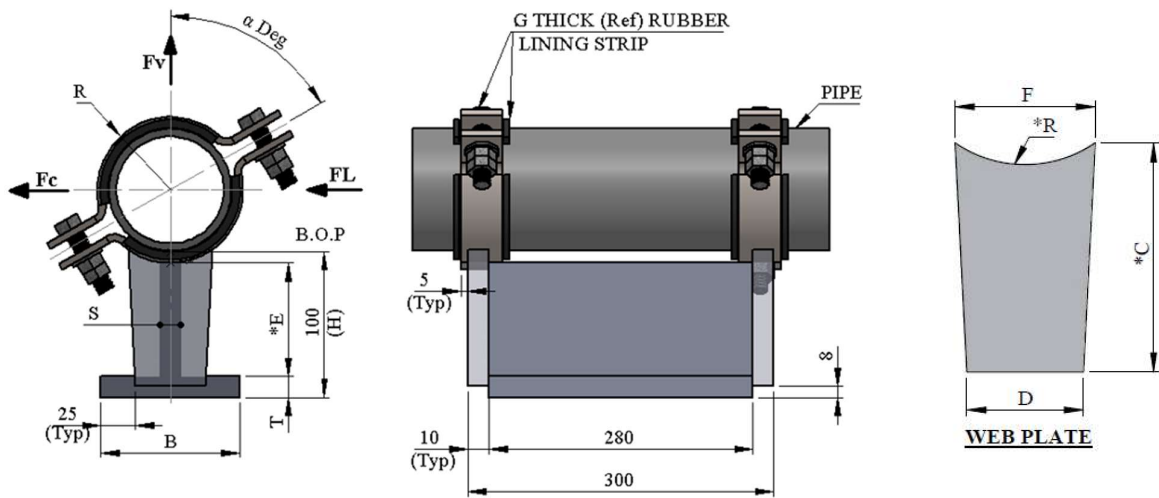


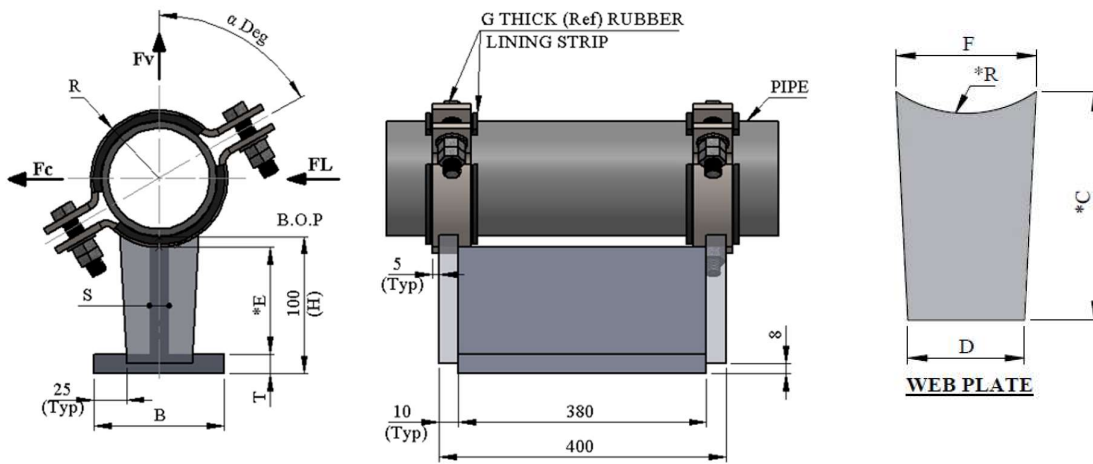
17		GRE / GRP Pipe Clamped Shoes	
17.1	T-SH-900 CLAMPED SHOE FOR GRE / GRP LINES 2" - 56" , 300 LONG	17.4	T-SH-906 SPECIAL 3 CLAMPED SHOE FOR GRE / GRP LINES 2" - 56" , 500mm LONG
			
17.2	SH-901 CLAMPED SHOE FOR GRE / GRP LINES 2" - 56" , 400 LONG	17.5	SH-907 SPECIAL CLAMPED SHOE FOR GRE / GRP LINES 2" - 56" , (LENGTH & HEIGHT VARIABLE)
			
17.3	SH-902 CLAMPED SHOE FOR GRE / GRP LINES 2" - 56" , 500 LONG		
			

17.1 CLAMPED SHOE FOR GRE / GRP LINES
50 - 1400mm / 2" - 56" , 100 HIGH 300 LONG
SH - 900


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-SH-900-(DN)-SS	SS	150 °C	NA
T-SH-900-(DN)-CS	CS	150 °C	NA

TYPE	LINE SIZE			SHOE DIMENSIONS								CLAMP INFO.			MAX LOADS (SEE NOTE BELOW) (kN)			WEIGHT (in kg)
	DN (mm)	NPS in (inch)	NPS in (mm)	B	C	D	E	F	R	S	T	TYPE	α°	G	Fv	Fc	FI	
T-SH-900-0050	DN50	2	*	100	*	50	*	30	*	10	10	PC-900	60	4	5.5	4	1.5	TBA
T-SH-900-0080	DN80	3	*	100	*	50	*	30	*	10	10	PC-900	50	4	5.5	4	1.5	TBA
T-SH-900-0100	DN100	4	*	100	*	50	*	50	*	10	10	PC-900	50	5	5.5	5.5	2	TBA
T-SH-900-0150	DN150	6	*	100	*	50	*	50	*	10	10	PC-900	50	5	8.7	8.7	5	TBA
T-SH-900-0200	DN200	8	*	100	*	50	*	100	*	15	15	PC-900	45	5	8.7	8.7	5	TBA
T-SH-900-0250	DN250	10	*	150	*	100	*	150	*	15	15	PC-900	50	6	13	13	8	TBA
T-SH-900-0300	DN300	12	*	150	*	100	*	150	*	15	15	PC-900	45	6	13	13	8	TBA
T-SH-900-0350	DN350	14	*	200	*	150	*	200	*	15	15	PC-900	45	6	13	13	10	TBA
T-SH-900-0400	DN400	16	*	200	*	150	*	200	*	15	15	PC-900	45	6	13	13	10	TBA
T-SH-900-0450	DN450	18	*	200	*	150	*	200	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-900-0500	DN500	20	*	250	*	200	*	250	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-900-0600	DN600	24	*	250	*	200	*	250	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-900-0700	DN700	28	*	300	*	250	*	300	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-900-0750	DN750	30	*	300	*	250	*	300	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-900-0800	DN800	32	*	300	*	250	*	300	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-900-0900	DN900	36	*	300	*	250	*	300	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-900-1100	DN1100	46	*	400	*	350	*	400	*	20	20	PC-900	45	6	16.3	16.3	10	TBA
T-SH-900-1400	DN 1400	56	*	500	*	450	*	500	*	20	20	PC-900	45	6	16.3	16.3	10	TBA

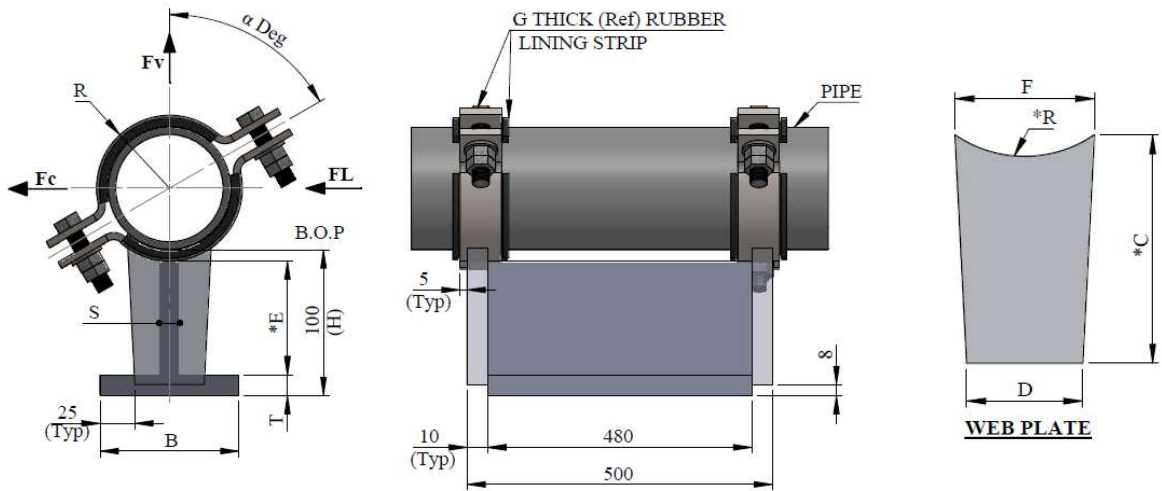
All Welds to be a = 0.7 x W.T., but maximum 4mm CFW.
 Max loads are shown for SS details. For CS details increase loads Fv and Fc by a factor of 1.7
 Dimensions marked with * are related to project GRE / GRP vendor pipe diameters and rubber lining thickness.

17.2 CLAMPED SHOE FOR GRE / GRP LINES
50 - 1400mm / 2" - 56" , 100 HIGH 400 LONG
SH - 901


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-SH-901-(DN)-SS	SS	150 °C	NA
T-SH-901-(DN)-CS	CS	150 °C	NA

TYPE	LINE SIZE			SHOE DIMENSIONS								CLAMP INFO			MAX LOADS (SEE NOTE BELOW) (kN)			WEIGHT (in kg)
	DN (mm)	NPS in (inc h)	NPS in (mm)	B	C	D	E	F	R	S	T	TYPE	α°	G	Fv	Fc	Fl	
T-SH-901-0050	DN50	2	*	100	*	50	*	30	*	10	10	PC-900	60	4	5.5	4	1.5	TBA
T-SH-901-0080	DN80	3	*	100	*	50	*	30	*	10	10	PC-900	50	4	5.5	4	1.5	TBA
T-SH-901-0100	DN100	4	*	100	*	50	*	50	*	10	10	PC-900	50	5	5.5	5.5	2	TBA
T-SH-901-0150	DN150	6	*	100	*	50	*	50	*	10	10	PC-900	50	5	8.7	8.7	5	TBA
T-SH-901-0200	DN200	8	*	100	*	50	*	100	*	15	15	PC-900	45	5	8.7	8.7	5	TBA
T-SH-901-0250	DN250	10	*	150	*	100	*	150	*	15	15	PC-900	50	6	13	13	8	TBA
T-SH-901-0300	DN300	12	*	150	*	100	*	150	*	15	15	PC-900	45	6	13	13	8	TBA
T-SH-901-0350	DN350	14	*	200	*	150	*	200	*	15	15	PC-900	45	6	13	13	10	TBA
T-SH-901-0400	DN400	16	*	200	*	150	*	200	*	15	15	PC-900	45	6	13	13	10	TBA
T-SH-901-0450	DN450	18	*	200	*	150	*	200	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-901-0500	DN500	20	*	250	*	200	*	250	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-901-0600	DN600	24	*	250	*	200	*	250	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-901-0700	DN700	28	*	300	*	250	*	300	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-901-0750	DN750	30	*	300	*	250	*	300	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-901-0800	DN800	32	*	300	*	250	*	300	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-901-0900	DN900	36	*	300	*	250	*	300	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-901-1100	DN1100	46	*	400	*	350	*	400	*	20	20	PC-900	45	6	16.3	16.3	10	TBA
T-SH-901-1400	DN 1400	56	*	500	*	450	*	500	*	20	20	PC-900	45	6	16.3	16.3	10	TBA

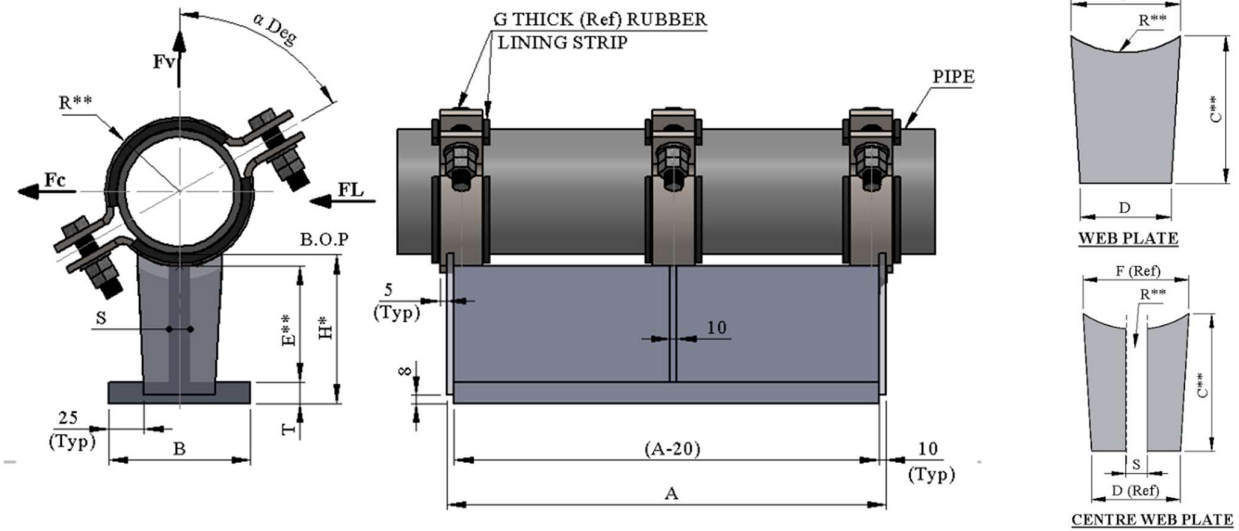
All welds to be a = 0.7 x W.T., but maximum 4mm CFW.
 Max loads are shown for SS details. For CS details increase loads Fv and Fc by a factor of 1.7.
 Dimensions marked with * are related to project GRE / GRP vendor pipe diameters and rubber lining thickness.

17.3 CLAMPED SHOE FOR GRE / GRP LINES
50 - 1400mm / 2" - 56" , 100 HIGH 500 LONG
SH - 902


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-SH-902-(DN)-SS	SS	150 °C	NA
T-SH-902-(DN)-CS	CS	150 °C	NA

TYPE	LINE SIZE			SHOE DIMENSIONS								CLAMP INFO			MAX LOADS (SEE NOTE BELOW) (kN)			WEIGHT (in kg)
	DN (mm)	NP S in (in ch)	NPS in (mm)	B	C	D	E	F	R	S	T	TYPE	α°	G	Fv	Fc	Fl	
T-SH-902-0050	DN50	2	*	100	*	50	*	30	*	10	10	PC-900	60	4	5.5	4	1.5	TBA
T-SH-902-0080	DN80	3	*	100	*	50	*	30	*	10	10	PC-900	50	4	5.5	4	1.5	TBA
T-SH-902-0100	DN100	4	*	100	*	50	*	50	*	10	10	PC-900	50	5	5.5	5.5	2	TBA
T-SH-902-0150	DN150	6	*	100	*	50	*	50	*	10	10	PC-900	50	5	8.7	8.7	5	TBA
T-SH-902-0200	DN200	8	*	100	*	50	*	100	*	15	15	PC-900	45	5	8.7	8.7	5	TBA
T-SH-902-0250	DN250	10	*	150	*	100	*	150	*	15	15	PC-900	50	6	13	13	8	TBA
T-SH-902-0300	DN300	12	*	150	*	100	*	150	*	15	15	PC-900	45	6	13	13	8	TBA
T-SH-902-0350	DN350	14	*	200	*	150	*	200	*	15	15	PC-900	45	6	13	13	10	TBA
T-SH-902-0400	DN400	16	*	200	*	150	*	200	*	15	15	PC-900	45	6	13	13	10	TBA
T-SH-902-0450	DN450	18	*	200	*	150	*	200	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-902-0500	DN500	20	*	250	*	200	*	250	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-902-0600	DN600	24	*	250	*	200	*	250	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-902-0700	DN700	28	*	300	*	250	*	300	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-902-0750	DN750	30	*	300	*	250	*	300	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-902-0800	DN800	32	*	300	*	250	*	300	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-902-0900	DN900	36	*	300	*	250	*	300	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-902-1100	DN1100	46	*	400	*	350	*	400	*	20	20	PC-900	45	6	16.3	16.3	10	TBA
T-SH-902-1400	DN 1400	56	*	500	*	450	*	500	*	20	20	PC-900	45	6	16.3	16.3	10	TBA

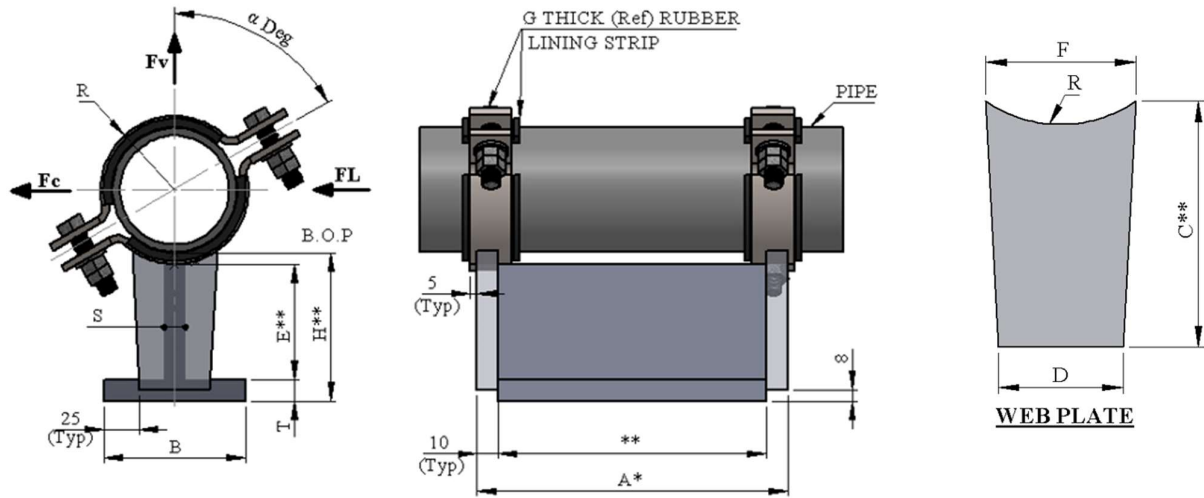
All Welds to be a = 0.7 x W.T., but maximum 4mm CFW.
 Max loads are shown for SS details. For CS details increase loads Fv and Fc by a factor of 1.7.
 Dimensions marked with * are related to project GRE / GRP vendor pipe diameters and rubber lining thickness.

17.4 SPECIAL CLAMPED SHOE FOR GRE / GRP LINES
50 - 1400 mm / 2" - 56", (LENGTH, HEIGHT AND DIAMETER VARIABLE)
SH - 906


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-SH-906-(DN)-SS#A=xxU=xxH=xx	SS	150 °C	NA
T-SH-906-(DN)-CS#A=xxU=xxH=xx	CS	150 °C	NA

TYPE	LINE SIZE			SHOE DIMENSIONS								CLAMP INFO **			MAX LOADS (SEE NOTE BELOW) (kN)			WEIGHT (in kg)
	DN (mm)	NPS in (inch)	NPS in (mm)	B	C	D	E	F	R	S	T	TYPE	α°	G	Fv	Fc	Fl	
T-SH-906-0050	DN50	2	**	100	**	50	*	30	**	10	10	PC-902	60	4	5.5	4	1.5	TBA
T-SH-906-0080	DN80	3	**	100	**	50	*	30	**	10	10	PC-902	50	4	5.5	4	1.5	TBA
T-SH-906-0100	DN100	4	**	100	**	50	*	50	**	10	10	PC-902	50	5	5.5	5.5	2	TBA
T-SH-906-0150	DN150	6	**	100	**	50	*	50	**	10	10	PC-902	50	5	8.7	8.7	5	TBA
T-SH-906-0200	DN200	8	**	100	**	50	*	100	**	15	15	PC-902	45	5	8.7	8.7	5	TBA
T-SH-906-0250	DN250	10	**	150	**	100	*	150	**	15	15	PC-902	50	6	13	13	8	TBA
T-SH-906-0300	DN300	12	**	150	**	100	*	150	**	15	15	PC-902	45	6	13	13	8	TBA
T-SH-906-0350	DN350	14	**	200	**	150	*	200	**	15	15	PC-902	45	6	13	13	10	TBA
T-SH-906-0400	DN400	16	**	200	**	150	*	200	**	15	15	PC-902	45	6	13	13	10	TBA
T-SH-906-0450	DN450	18	**	200	**	150	*	200	**	15	15	PC-902	45	6	16.3	16.3	10	TBA
T-SH-906-0500	DN500	20	**	250	**	200	*	250	**	15	15	PC-902	45	6	16.3	16.3	10	TBA
T-SH-906-0600	DN600	24	**	250	**	200	*	250	**	15	15	PC-902	45	6	16.3	16.3	10	TBA
T-SH-906-0700	DN700	28	**	300	**	250	*	300	**	15	15	PC-902	45	6	16.3	16.3	10	TBA
T-SH-906-0750	DN750	30	**	300	**	250	*	300	**	15	15	PC-902	45	6	16.3	16.3	10	TBA
T-SH-906-0800	DN800	32	**	300	**	250	*	300	**	15	15	PC-902	45	6	16.3	16.3	10	TBA
T-SH-906-0900	DN900	36	**	300	**	250	*	300	**	15	15	PC-902	45	6	16.3	16.3	10	TBA
T-SH-906-1100	DN1100	46	**	400	**	350	*	400	**	20	20	PC-902	45	6	16.3	16.3	10	TBA
T-SH-906-1400	DN 1400	56	**	500	**	450	*	500	**	20	20	PC-902	45	6	16.3	16.3	10	TBA

All welds to be a = 0.7 x W.T., but maximum 4mm CFW.
 Max loads are shown for SS details. For CS details increase loads Fv and Fc by a factor of 1.7.
 ** This shoe is for special diameter GRE Piping (Extra Reinforcing) and the shoe selected should be one of the closest to the standard diameter (Ref SH-903, SH-904 & SH-905)
 PC-902 should be Selected on the same basis.
 Dim C and E will vary dependant on DIM H and should be calculated.

17.5 SPECIAL CLAMPED SHOE FOR GRE / GRP LINES
50 - 1400 mm / 2" - 56" , (LENGTH AND HEIGHT VARIABLE)
SH - 907


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP
T-SH-907-(DN)-SS#A=xxH=xx	SS	150 °C	NA
T-SH-907-(DN)-CS#A=xxH=xx	CS	150 °C	NA

TYPE	LINE SIZE			SHOE DIMENSIONS								CLAMP INFO			MAX LOADS (SEE NOTE BELOW)			WEIGHT (in kg)
	DN (mm)	NPS in (inch)	NPS in (mm)	B	C	D	E	F	R	S	T	TYPE	α°	G	Fv	Fc	Fl	
T-SH-907-0050	DN50	2	*	100	*	50	*	30	*	10	10	PC-900	60	4	5.5	4	1.5	TBA
T-SH-907-0080	DN80	3	*	100	*	50	*	30	*	10	10	PC-900	50	4	5.5	4	1.5	TBA
T-SH-907-0100	DN100	4	*	100	*	50	*	50	*	10	10	PC-900	50	5	5.5	5.5	2	TBA
T-SH-907-0150	DN150	6	*	100	*	50	*	50	*	10	10	PC-900	50	5	8.7	8.7	5	TBA
T-SH-907-0200	DN200	8	*	100	*	50	*	100	*	15	15	PC-900	45	5	8.7	8.7	5	TBA
T-SH-907-0250	DN250	10	*	150	*	100	*	150	*	15	15	PC-900	50	6	13	13	8	TBA
T-SH-907-0300	DN300	12	*	150	*	100	*	150	*	15	15	PC-900	45	6	13	13	8	TBA
T-SH-907-0350	DN350	14	*	200	*	150	*	200	*	15	15	PC-900	45	6	13	13	10	TBA
T-SH-907-0400	DN400	16	*	200	*	150	*	200	*	15	15	PC-900	45	6	13	13	10	TBA
T-SH-907-0450	DN450	18	*	200	*	150	*	200	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-907-0500	DN500	20	*	250	*	200	*	250	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-907-0600	DN600	24	*	250	*	200	*	250	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-907-0700	DN700	28	*	300	*	250	*	300	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-907-0750	DN750	30	*	300	*	250	*	300	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-907-0800	DN800	32	*	300	*	250	*	300	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-907-0900	DN900	36	*	300	*	250	*	300	*	15	15	PC-900	45	6	16.3	16.3	10	TBA
T-SH-907-1100	DN1100	46	*	400	*	350	*	400	*	20	20	PC-900	45	6	16.3	16.3	10	TBA
T-SH-907-1400	DN 1400	56	*	500	*	450	*	500	*	20	20	PC-900	45	6	16.3	16.3	10	TBA

All welds to be a = 0.7 x W.T., but maximum 4mm CFW.
 Max loads are shown for SS details. For CS details increase loads Fv and Fc by a factor of 1.7.
 For standard shoe sizes see SH-900, SH-901, SH-902 & SH-903, SH-904, SH-905.
 Only dimensions marked * (Length & Height) can vary from standard shoe sizes.
 Other effected dimensions ** marked to be calculated.
 Pipe diameter dimensions are related to project GRE / GRP vendor pipe diameters and rubber lining thickness.