SECTION B

PIPING SUPPORTS

CLAMP BASE

SLIDING PLATES

WELDED PIPE STRAP

U-BOLTS

ROLLERS

SADDLES

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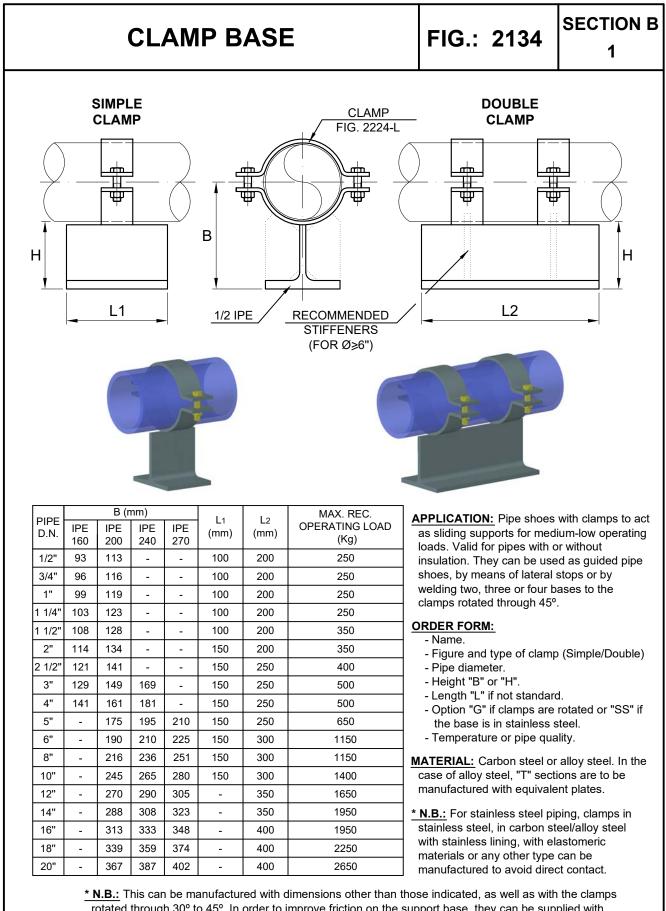


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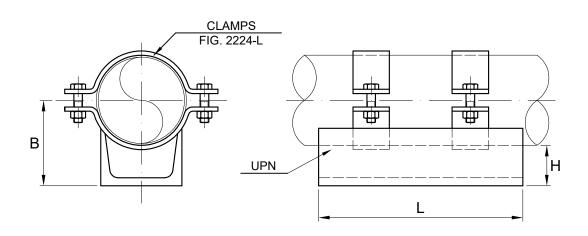




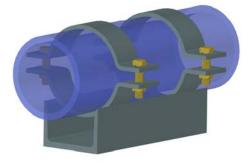
rotated through 30° to 45°. In order to improve friction on the support base, they can be supplied with stainless steel sheet welded to the base (2 mm thick sheet and 2B finish).

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PIPE D.N.	UPN	B (mm)	L (mm)	MAX. REC. OPERATING LOAD (Kg)
2"	60	53	200	400
2 1/2"	80	60	250	550
3"	80	77	250	550
4"	100	89	250	750
5"	100	109	250	750
6"	120	125	300	1000
8"	140	155	300	1500
10"	140	189	300	1500
12"	160	217	350	2050
14"	160	237	350	2050
16"	200	265	400	3250
18"	200	282	400	3250
20"	240	326	400	4500



<u>APPLICATION:</u> Pipe shoes with clamps to act as sliding supports for medium-low operating loads. Valid for uninsulated pipe only. Can be used as guided pipe shoes by means of lateral stops.

ORDER FORM:

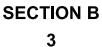
- Name.
- Figure.
- Pipe diameter.
- Height "B" or "H".
- Length "L" if not standard.
- Option "G" if clamps are rotated or "SS" if the base is in stainless steel.

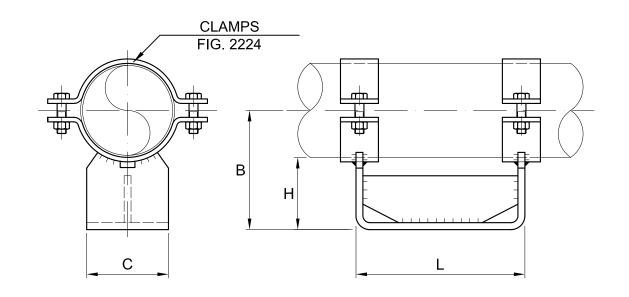
MATERIAL: Carbon Steel.

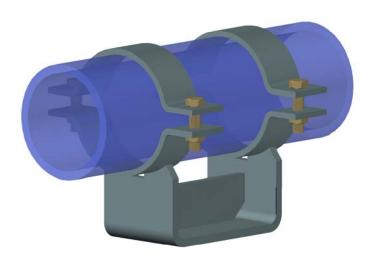
N.B.: This can be manufactured with dimensions other than those indicated, as well as with clamps rotated 30° or 45° (when the UPN allows it). In order to improve the friction on the support base, they can be supplied with stainless steel sheet welded to the base (2 mm thick base with 2B finish).

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DIMENSIONS TABLE ON SHEET B-4

APPLICATION: Pipe shoes with clamps to act as sliding supports for any type of operating load. Valid for pipes with or without insulation, either in carbon steel, alloy steel or stainless steel. Can be used as guided pipe shoe by means of lateral stops or double, triple or quadruple bases.

ORDER FORM:

- Name.
- Figure.
- Pipe diameter.
- Height "B" o "H"
- Length "L" if not standard.
- Option "G" if clamps are rotated or "SS" if the base is stainless steel.
- Indicate configuration: double, triple or quadruple.
- Temperature or pipe quality.

MATERIAL:

Carbon steel or alloy steel.

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CLAMP BASE

SECTION	В
4	

PIPE D.N.	B (mm)		C (mm)	L (mm)	MAX. RE	C. OPERAT	ERATING LOAD (Kg)		
D.N.		(((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((((SERIES 1	SERIES 1 SERIES 2		SERIES 4
2"	130	180	230	70	200	575	-	-	-
2 1/2"	137	187	237	80	250	650	-	-	-
3"	144	194	244	100	250	750	1100	-	-
4"	157	207	257	110	250	800	1250	-	-
5"	170	220	270	130	250	900	1350	-	-
6"	184	234	284	150	300	1250	1600	2350	-
8"	210	260	310	175	300	1500	2000	2750	-
10"	237	287	337	200	300	2000	3500	4500	-
12"	262	312	362	230	350	2500	3250	4750	6500
14"	278	328	428	250	350	2750	3900	5000	7150
16"	303	403	453	280	400	-	4150	5750	7250
18"	329	429	529	300	400	-	4500	6000	7500
20"	354	454	554	315	400	-	5100	6500	8800
22"	380	480	580	325	450	-	5400	7200	9450
24"	455	505	605	340	450	-	6250	7500	10150
26"	480	530	630	360	450	-	6500	7950	10500
28"	506	556	656	375	450	-	-	8500	11250
30"	531	581	681	400	450	-	-	9100	11800
32"	556	606	706	425	500	-	-	9500	12400
34"	582	632	732	440	500	-	-	10050	12950
36"	607	657	757	440	500	-	-	10050	12950

N.B.: This can be manufactured with dimensions other than those indicated. They can be manufactured with clamps rotated 30° or 45°. For pipe shoes in high temperature service, both in carbon steel and in alloy steel, loads must consider correction factors depending on the temperature and quality of the steel.

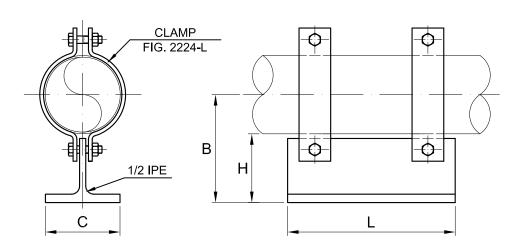
See the table shown on sheet A-20.

In order to improve the friction on the support base, they can be supplied with stainless steel sheet welded to the base (2 mm thick sheet and finish 2B).

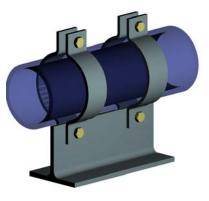
For stainless steel piping, clamps can be manufactured in stainless steel, in carbon steel/alloy steel with stainless steel lining, with elastomeric materials or in any other type that avoids direct contact.

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PIPE D.N.		B (mm)		L (mm)	MAX. REC. OPERATING LOAD	
D.N.	IPE-160 IPE-200		IPE-240 IPE-27			(Kg)	
1/2"	95	115	-	-	200	250	
3/4"	98	118	-	-	200	250	
1"	101	121	-	-	200	250	
1 1/4"	105	125	-	-	200	250	
1 1/2"	107	127	-	-	200	350	
2"	113	133	153	-	200	450	
2 1/2"	121	141	161	-	250	500	
3"	129	149	169	-	250	500	
4"	138	158	178	-	250	500	
5"	-	173	193	208	250	650	
6"	-	191	211	226	300	750	
8"	-	217	237	252	300	750	
10"	-	243	263	278	300	850	
12"	-	269	289	304	350	950	



APPLICATION: Pipe shoes with clamps to act as sliding supports for medium-low operating loads. Piping with or without insulation. Can be used as a guide by fitting double, triple or quadruple base pipe shoes.

ORDER FORM:

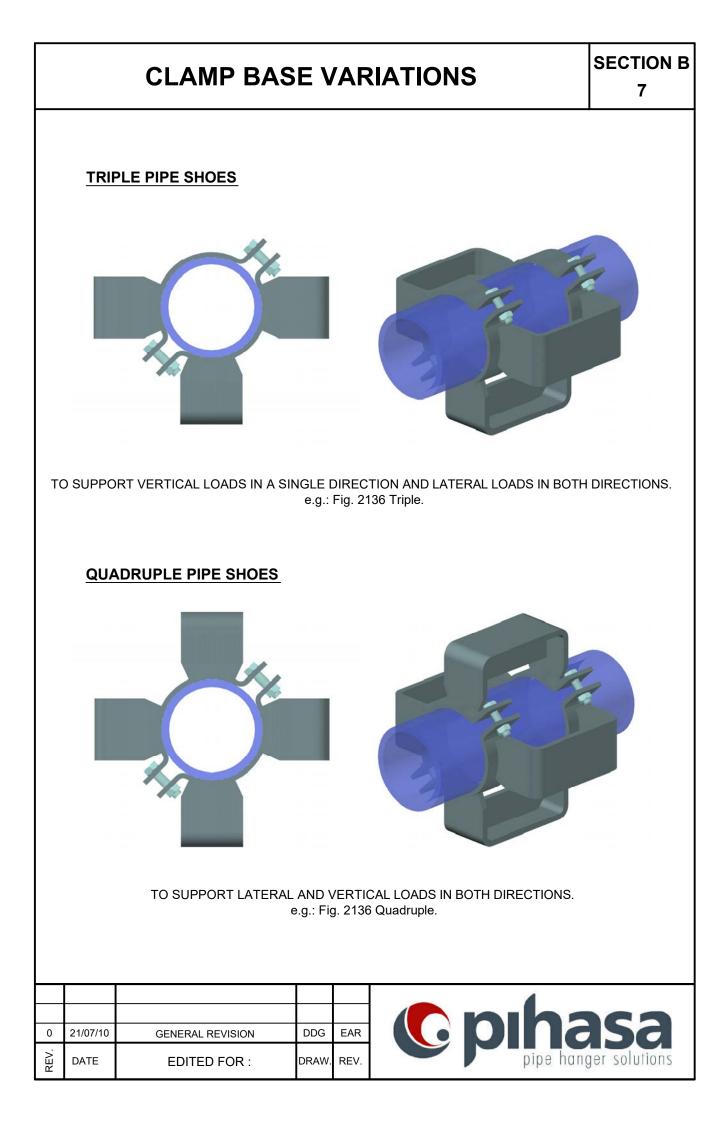
- Name.
- Figure.
- Pipe diameter.
- Height "B" or "H". Length "L" if not standard.

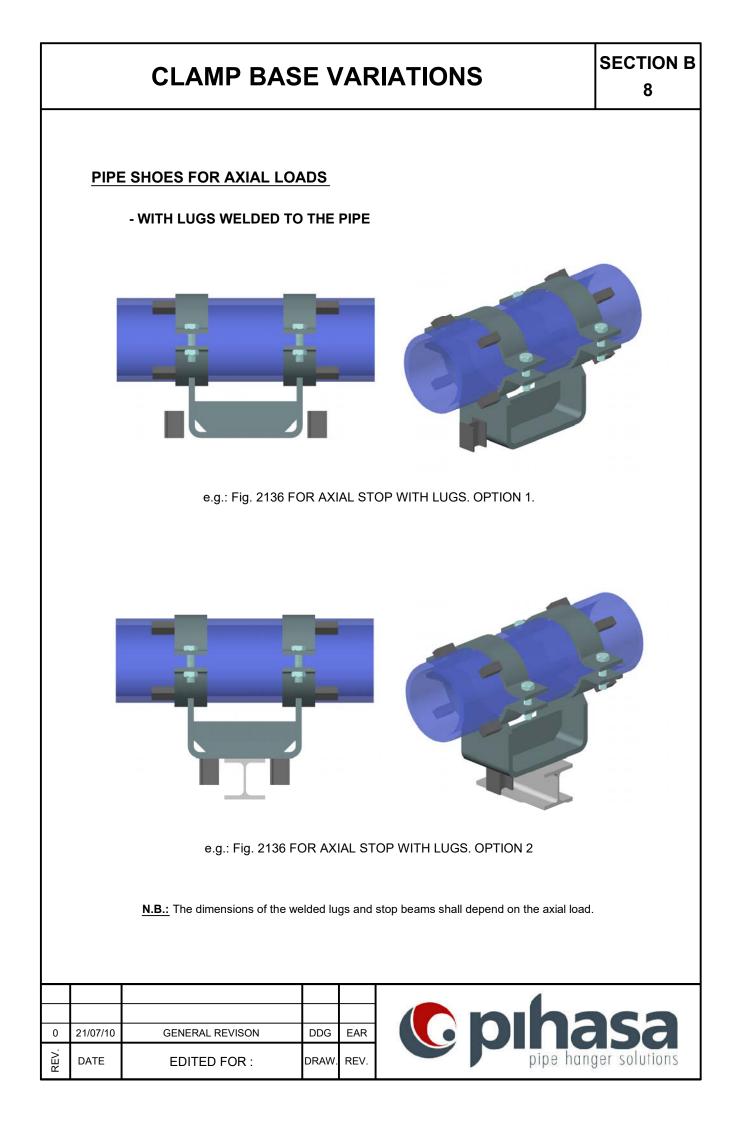
MATERIAL: Carbon steel.

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	CLAMP BAS	SE V	/AR		S	SECTION B	
<u>180°</u>	DOUBLE PIPE SHOES						
TO SUPPORT EITHER VERTICAL LOADS OR LATERAL LOADS IN BOTH DIRECTIONS. e.g.: Fig. 2136 180° Double.							
<u>90° </u>	DOUBLE PIPE SHOES						
	TO SUPPORT VERTICAL LO			ERAL LOADS 90º Double.	IN A SINGLE DIRECT	ION.	
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SECTION B CLAMP BASE VARIATIONS 9 PIPE SHOES FOR AXIAL LOADS - WITH TRUNNION WELDED TO THE PIPE. e.g.: Fig. 2136 FOR AXIAL STOP WITH TRUNNION. OPTION 1. e.g.: Fig. 2136 FOR AXIAL STOP WITH TRUNNION. OPTION 2. **N.B.:** The dimensions of the trunnions and the stop beams shall depend on the axial load.

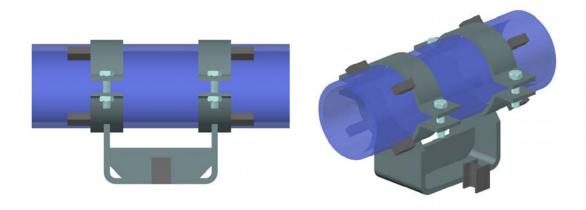
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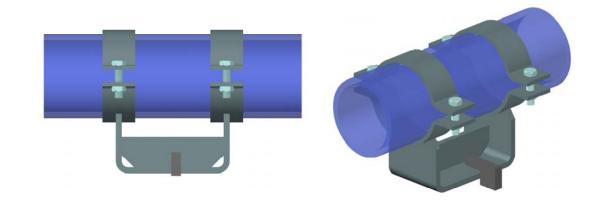
CLAMP BASE VARIATIONS

GUIDED CLAMP BASES

- WITH LUGS WELDED TO THE CLAMPS AND TO THE PIPE.



e.g.: Fig. 2136 FOR GUIDED CLAMP BASE WITH ANTI-ROTATING LUGS.



e.g.: Fig. 2136 WITH LIFT-OFF GUIDES.

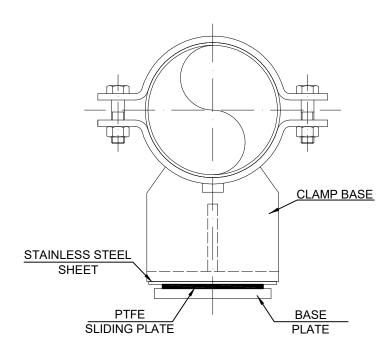
N.B.: The dimensions of the welded lugs, stop beams and lift-off guides will depend on the axial load.

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SECTION B CLAMP BASES VARIATIONS 11 **GUIDED CLAMP BASES** - WITH TRUNNION WELDED TO THE PIPE. e.g.: Fig. 2136 FOR GUIDED CLAMP BASE WITH ANTI-ROTATION LUGS. e.g.: Fig. 2136 WITH LIFT-OFF GUIDES **N.B.:** The dimensions of the trunnions, anti-rotating lugs, stop beams and lift-off guides will depend on the lateral load. 21/07/10 GENERAL REVISION DDG EAR 0 REV. hanger solutions DATE EDITED FOR : DRAW REV. pipe

PTFE SLIDING PLATES



<u>APPLICATION:</u> Appropriate for coupling sliding supporting points. These are usually fitted under the pipe shoes, on plates according to Fig. 2138 (enclosed sheets) or also on the loading plate of the variable load springs type F. The maximum permanent contact temperature recommended is 120°C.

ASSEMBLY: The PTFE can be fitted onto different sized seating plates. Between PTFE and the support, generally, a stainless steel upper plate is fitted, with a polished or semi-polished finish (minimum recommended: 2B finish).

CHARACTERISTICS:

- Low friction coefficient.
- Chemically inert.
- High non-stick properties.
- Chemical stability between -180°C and +280°C.
- Good resilience to fragility at high and low temperatures.
- Maximum recommended operating stress: 10Mpa.

ORDER FORM:

- Name.
- Figure.
- Dimensions or number.

N.B.: Depending on customer requirements, PIHASA will send more complete details and make the appropriate design. The design of the figure is only representative since the assembly of the PTFE plate can be made in different ways, depending on the particular design for each case.

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SECTION B PTFE SLIDING PLATES FIG.: 2138 VIEW Z-Z' VIEW X-X' В A С D н (1)(TIP) Z X' Xł (1) PTFE plate treated on the side for bonding (2) Carbon steel seating plate with the frame for inserting the PTFE plate. ź D н CALCULATED LOAD D CALCULATED LOAD А В С Α В С н No. No. FOR 5 Mpa. (Kg) (mm) (mm) (mm) (mm)(mm)FOR 5 Mpa. (Kg) (mm)(mm) (mm)(mm)(mm)

- The standard assembly is to support the PTFE plate against a polished or semi-polished stainless steel plate, obtaining The dimensions of the stainless steel plate should be larger than the PTFE, depending on the expected movements.

- Support can also be made against another PTFE plate as upper sliding plate. With the oiled surface, the friction coefficient should not exceed a value of 0.05.

- The joint below the structure is made by applying alternate welding beads, with controlled thermal contribution, in order to avoid transmitting excessive heat to the PTFE plate.
- It may be manufactured in intermediate sizes and in any dimension, both the base plate and the PTFE, as well as in any thickness on the condition that it be greater than or equal to 8 mm.
- It is advisable not to exceed 120°C as continuous operating temperature.

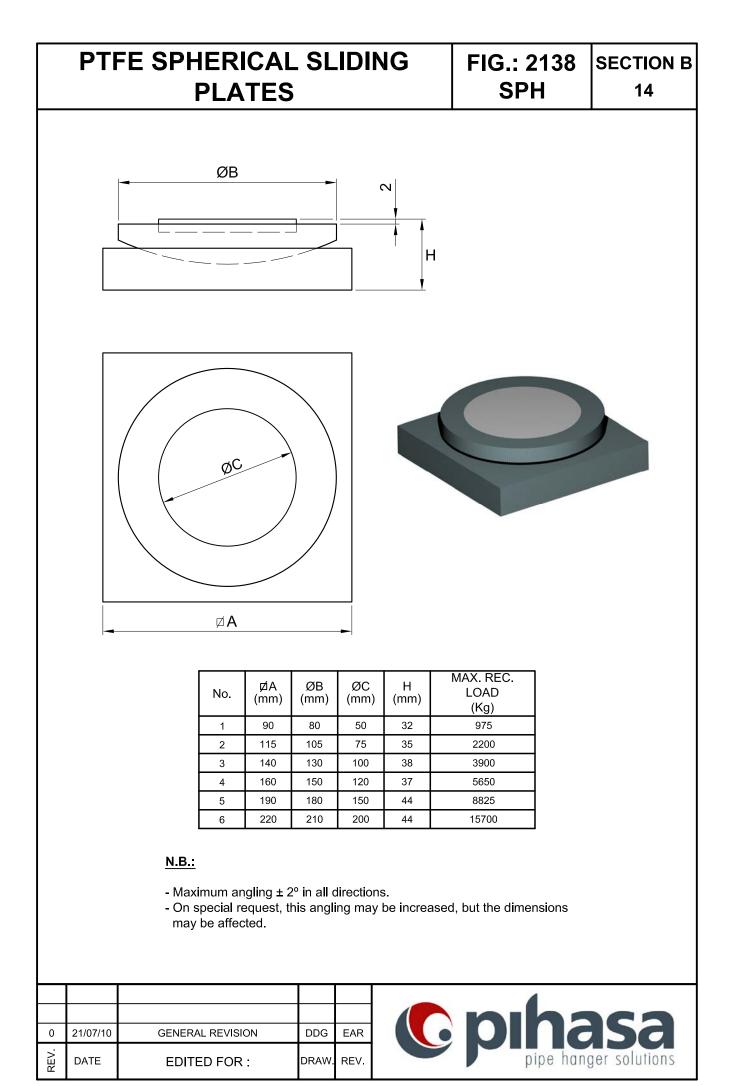
- Other options:

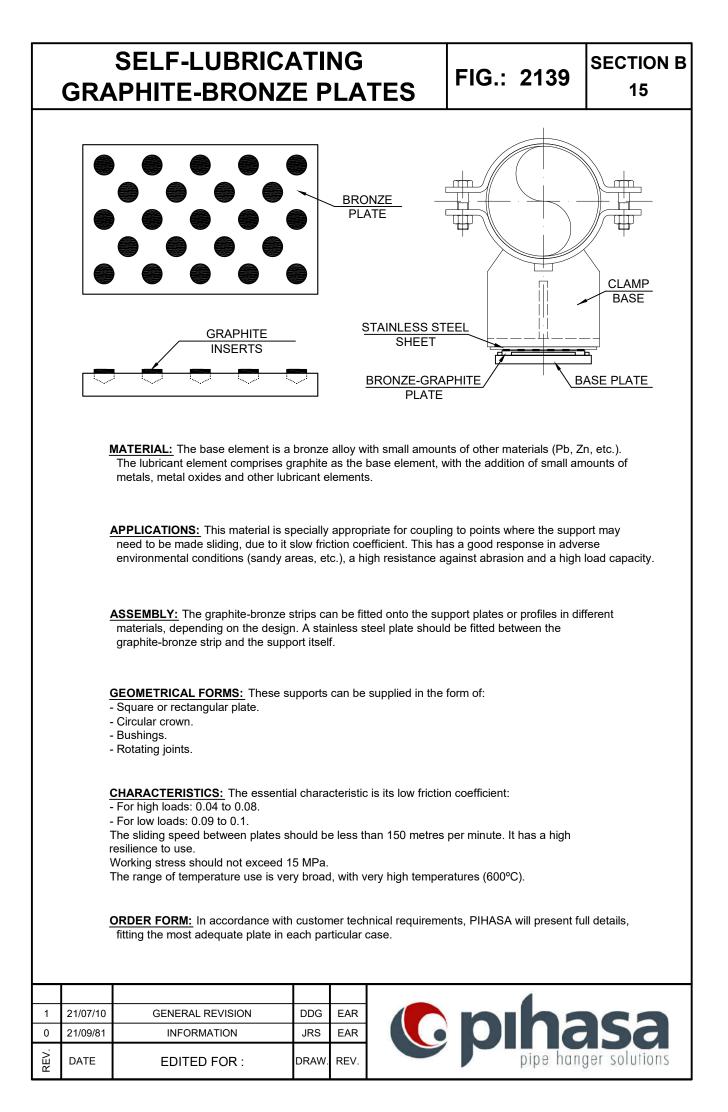
N.B.:

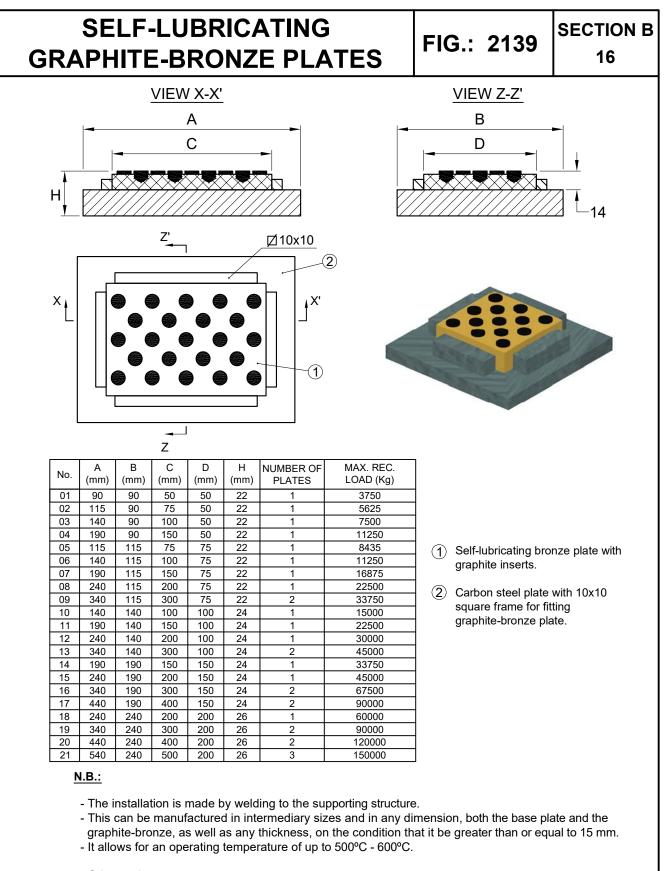
a friction coefficient of less than 0.1.

- · Plates incorporating restrictions on movement.
- Plates that allow for swinging (by cylindrical or spherical supports).
- Special plates according to the design supplied by the customer.

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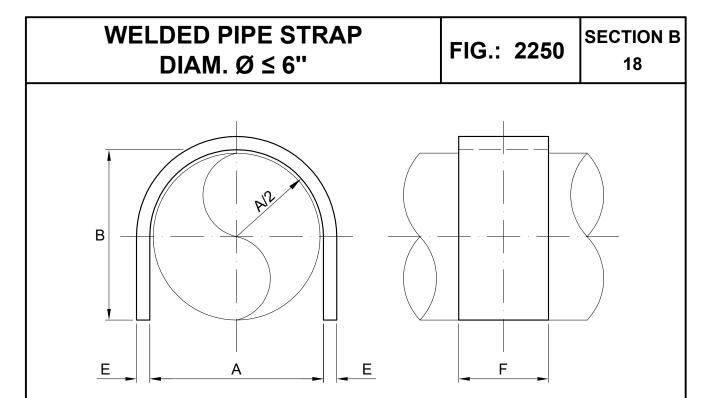


- Other options:
- * Plates incorporating restrictions on movement.
- * Plates that allow for swinging (by means of cylindrical or spherical supports).
- * Special plates, following the design supplied by the customer.

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			RICA TE-B				RICAL TES	FIG.: 2139 SPH	SECTION B 17		
				ØB ØC			47 H 0 ⊠				
				ØA		_					
			No.	ØA (mm)	ØB (mm)	ØC (mm	H) (mm)	MAX. REC. LOAD (Kg)			
			1	100	90	50	39	2250			
			2	130	120	75	42	5050			
			3	170	160	100	50	9000			
			4	200	190	120	54	12750			
			5	240	230	150	61	20000			
			- On spec	m angling cial reques affected.				ed, but the dimensions			
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		LUBRIC/					FIG.: 2139 SPH	SECTION B 17-BIS		
		•	ØA							
		No.	⊠A (mm)	ØB (mm)	ØC (mm)	H (mm)	MAX. REC. LOAD (Kg)			
		1 E	120	110	50	42	2250			
		2 E	150	140	75	45	5050			
		3 E	200	190	100	48	9000			
		4 E	230	220	120	52	12750			
		5 E	260	250	150	58	20000			
		- On spe	um angling cial reques affected.				ed, but the dimensions			
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PIPE Ø	A (mm)	B (mm)	E (mm)	F (mm)	WEIGHT (Kg)	MAX. REC. LATERAL LOAD (Kg)
1/2"	23	23	6	30	0,1	150
3/4"	28	28	6	30	0,12	150
1"	35	35	6	40	0,2	200
1 1/4"	44	43	6	40	0,25	200
1 1/2"	50	49	8	50	0,45	250
2"	62	61	8	50	0,55	250
2 1/2"	75	74	8	50	0,7	250
3"	91	90	10	60	1,2	300
4"	117	116	10	60	1,5	300
5"	145	144	10	60	1,9	300
6"	172	171	12	70	3,1	375

APPLICATION: For guiding uninsulated pipes.

ORDER FORM:

- Name.
- Figure.
- Pipe diameter.
- <u>N.B.:</u> Can be manufactured in greater diameters (not recommended) by similar parts with side stiffeners.

- Vertical orientated loads are far greater than the lateral loads indicated (not less than 4 times that indicated).

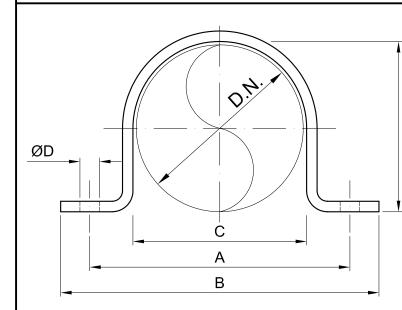
- Tolerances at levels A and B $^{\rm +1,5}_{\rm -0}$

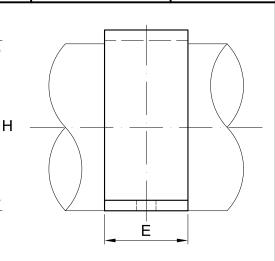
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GUIDE CLAMP

SECTION B 19





No.	D.N.	A (mm)	B (mm)	C (mm)	ØD (mm)	E (mm)	H (mm)	WEIGHT (Kg)
1	1/2"	70	110	25	11,5	30	23	0,18
2	3/4"	75	115	31	11,5	30	29	0,2
3	1"	85	135	38	11,5	35	35	0,28
3 a	1 1/4"	95	145	47	11,5	35	44	0,32
4	1 1/2"	110	170	53	13,5	60	50	0,65
5	2"	140	200	65	13,5	60	62	0,8
6	2 1/2"	155	215	77	13,5	60	75	0,9
7	3"	170	240	93	15,5	60	91	1
8	4"	196	266	118	15,5	60	116	1,6
8 a	5"	222	292	146	15,5	60	144	1,8
9	6"	250	320	174	15,5	60	171	2,1
10	8"	312	382	225	17,5	60	222	2,7
11	10"	375	445	279	17,5	80	276	5,3
12	12"	416	486	330	17,5	80	327	6,2
13	14"	460	530	362	19,5	80	359	8,5
14	16"	514	584	412	19,5	80	409	9,2
15	18"	565	635	463	19,5	80	460	10,5
16	20"	617	687	514	19,5	80	511	11,5

<u>APPLICATION</u>: For guiding the pipe in lines on the ground or on a structure.

MATERIAL: Carbon steel, alloy steel and stainless steel.

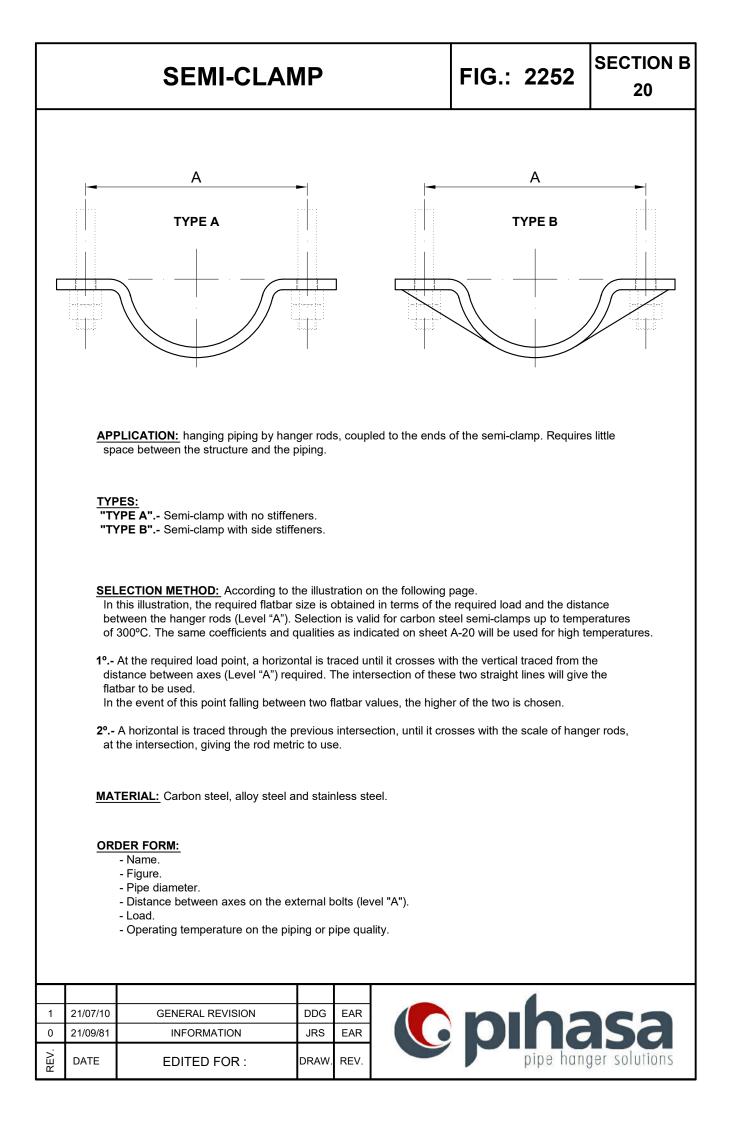
ORDER FORM:

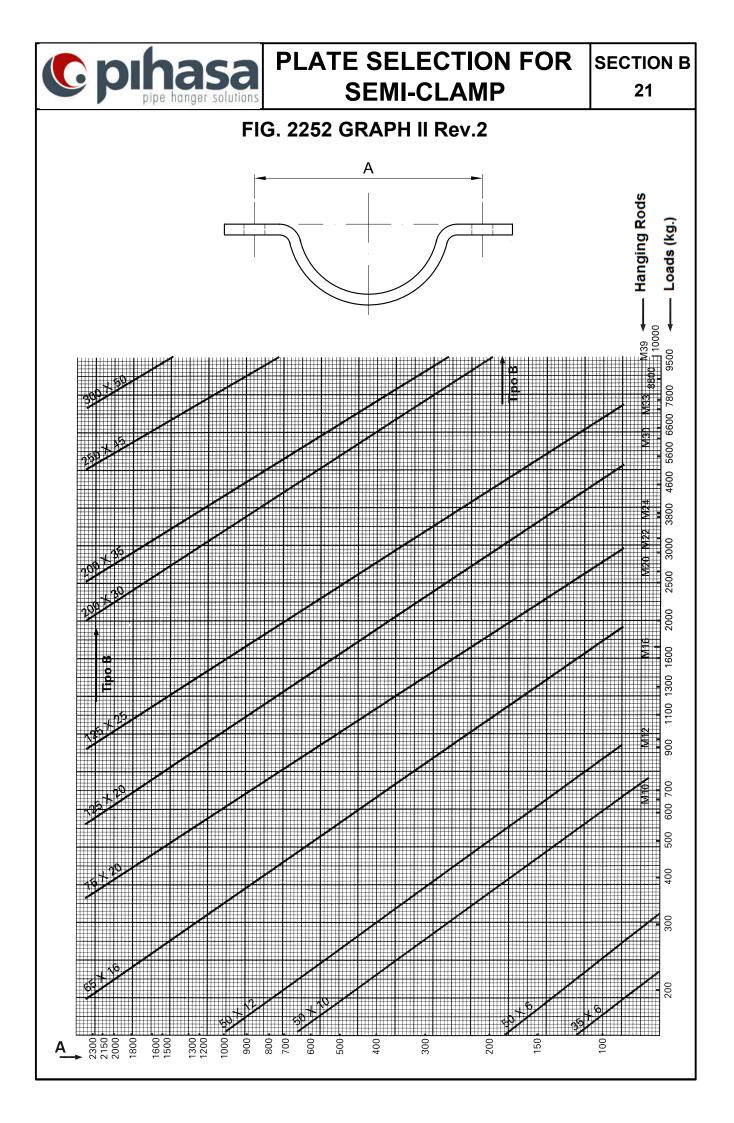
- Name.
 - Figure.
- Pipe diameter.

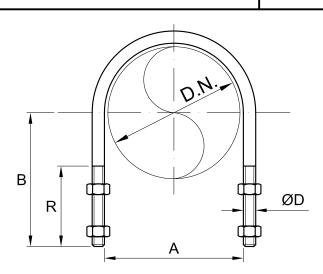
N.B.: Can be manufactured in other diameters, special or greater, than those indicated.

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No.	D.N.	A (mm)	B (mm)	R (mm)	THREAD	WEIGHT (Kg)	MAX. REC. LOAD (Kg)
1	1/2"	24	40	35	M6	0,04	300
2	3/4"	29	45	40	M6	0,05	300
3	1"	36	50	40	M8	0,07	500
3 a	1 1/4"	45	50	40	M8	0,09	500
4	1 1/2"	51	55	45	M10	0,17	700
5	2"	64	70	55	M10	0,2	700
6	2 1/2"	76	80	65	M12	0,3	1000
7	3"	92	90	65	M12	0,4	1000
8	4"	118	115	75	M12	0,5	1000
8 a	5"	145	135	85	M12	0,7	1000
9	6"	172	155	95	M16	1,1	2200
10	8"	223	180	95	M16	1,5	2200
11	10"	277	215	100	M20	2,5	3500
12	12"	328	245	105	M24	4,2	5000
13	14"	360	260	105	M24	4,5	5000
14	16"	411	285	105	M24	5	5000
15	18"	462	320	120	M24	5,5	5000
16	20"	512	350	120	M24	6	5000
17	24"	614	400	120	M24	7	5000
18	30"	766	475	120	M24	8	5000

APPLICATION: securing piping to the structure by fitting four nuts. Valid for guiding uninsulated pipes, for low lateral loads (maximum 30% of the given vertical load).

MATERIAL: Carbon steel and stainless steel.

- ORDER FORM:
 - Name.
 - Figure.
 - Pipe diameter.

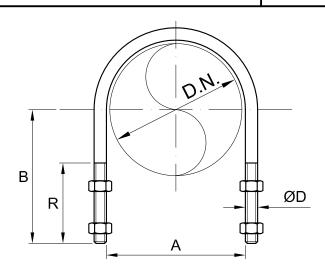
 $\underline{\textbf{N.B.:}}$ Can be manufactured in dimensions other than those indicated.

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LIGHT U-BOLT

SECTION B 23



No.	D.N.	A (mm)	B (mm)	R (mm)	THREAD	WEIGHT (Kg)	MAX. REC. LOAD (Kg)
1	1/2"	23	25	17	M6	0,03	250
2	3/4"	28	30	19	M6	0,03	250
3	1"	35	39	24	M6	0,04	250
3 a	1 1/4"	43	44	24	M6	0,05	250
4	1 1/2"	51	48	26	M8	0,08	350
5	2"	63	53	26	M8	0,09	350
6	2 1/2"	75	71	35	M10	0,18	550
7	3"	91	76	35	M10	0,20	550
8	4"	117	88	35	M10	0,24	550
8 a	5"	144	105	40	M10	0,28	550
9	6"	171	119	40	M10	0,31	550
10	8"	223	144	40	M10	0,38	550
11	10"	276	171	40	M10	0,45	550
12	12"	327	204	50	M12	0,75	1050
13	14"	360	219	50	M12	0,80	1050
14	16"	411	254	60	M12	0,90	1050
15	18"	460	286	70	M16	1,9	1150
16	20"	513	314	70	M16	2,1	1150

<u>APPLICATION</u>: Securing piping to the structure by fitting four nuts.

MATERIAL: Carbon steel and stainless steel

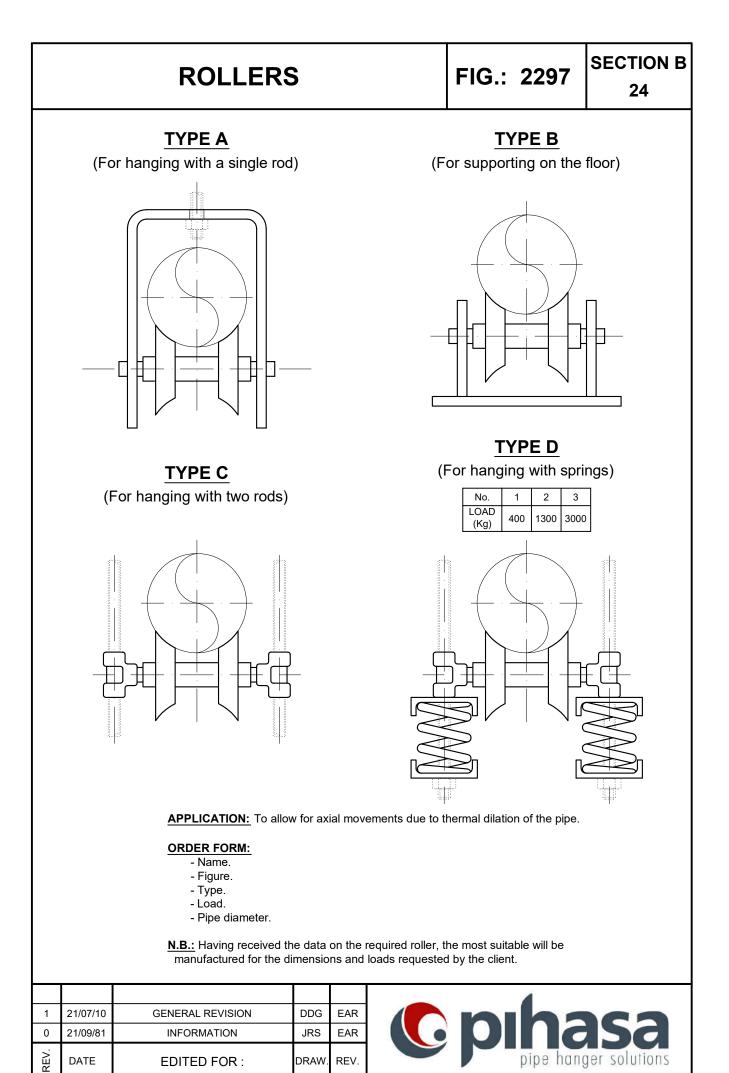
ORDER FORM:

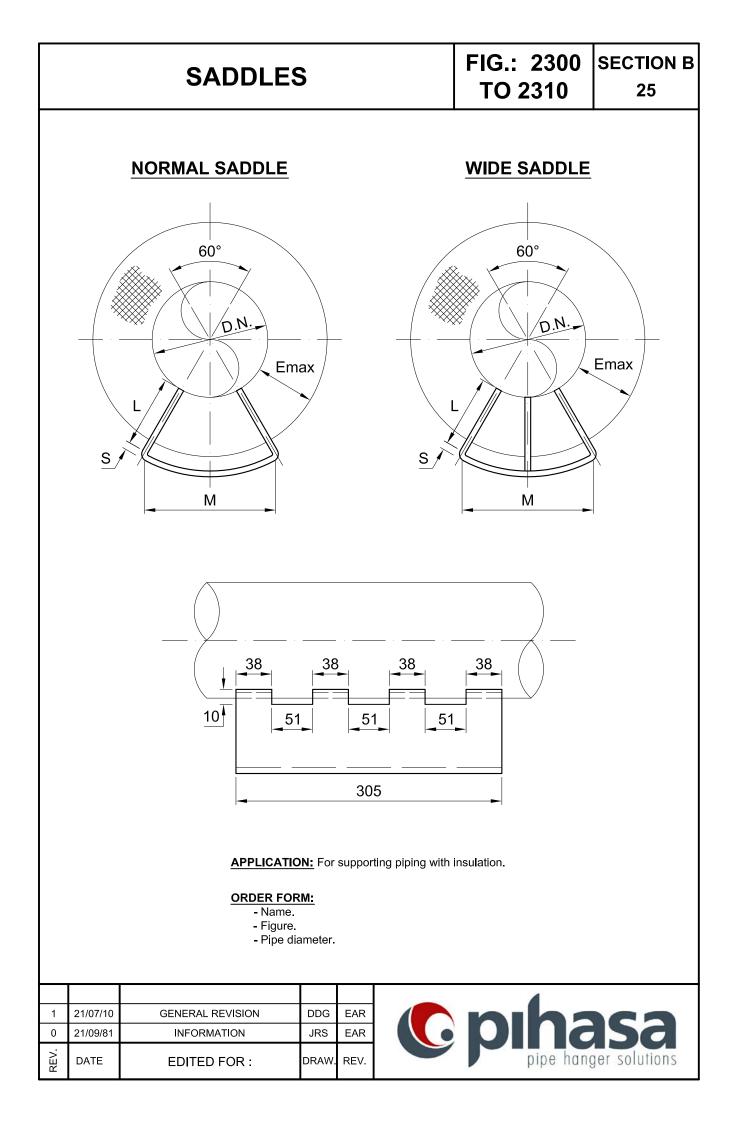
- Name.
- Figure
- Pipe diameter.

<u>N.B.</u> Can be manufactured in dimensions other than those indicated.

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<u></u>								
No.	D.N.	Emax. (mm)	L (mm)	M (mm)	S (mm)	MAX. REC. LOAD (Kg)		
1	3/4"	25	26	40	4	525		
2	1"	25	28	45	4	525		
3	1 1/2"	25	28	53	4	525		
4	2"	25	28	59	4	525		
5	2 1/2"	25	28	66	5	525		
6	3"	25	28	75	5	525		
7	4"	25	28	86	6	800		
8	6"	25	32	117	6	800		

FIG. 2300 -NORMAL SADDLE - 25 mm. INSULATION

FIG. 2301 - NORMAL SADDLE - 40 mm. INSULATION

No.	D.N.	Emax. (mm)	L (mm)	M (mm)	S (mm)	MAX. REC. LOAD (Kg)
1	3/4"	40	41	55	4	525
2	1"	40	43	60	4	525
3	1 1/2"	40	43	68	4	525
4	2"	40	43	74	4	525
5	2 1/2"	40	43	81	6	525
6	3"	40	43	90	6	800
7	4"	40	43	101	6	800
8	6"	40	43	128	6	800
9	8"	40	44	154	6	800

No.	D.N.	Emax. (mm)	L (mm)	M (mm)	S (mm)	MAX. REC. LOAD (Kg)
1	10"	40	45	182	10	800
2	12"	40	50	213	10	2250
3	14"	40	45	223	12	2250
4	16"	40	50	254	12	2250
5	18"	40	46	269	12	2250
6	20"	40	46	301	15	3250
7	24"	40	46	351	15	3250
8	30"	40	46	426	15	3250
9	36"	40	46	503	15	3250

FIG. 2302 - WIDE SADDLE - 40 mm. INSULATION

FIG. 2303 - NORMAL SADDLE - 50 mm. INSULATION

No.	D.N.	Emax. (mm)	L (mm)	M (mm)	S (mm)	MAX. REC. LOAD (Kg)
1	3/4"	50	51	65	4	525
2	1"	50	53	70	4	525
3	1 1/2"	50	53	78	5	800
4	2"	50	53	84	6	800
5	2 1/2"	50	53	91	6	800
6	3"	50	55	100	6	800
7	4"	50	55	114	6	800
8	6"	50	57	142	6	800
9	8"	50	54	164	8	800

FIG. 2304 - WIDE SADDLE - 50 mm. INSULATION

No.	D.N.	Emax. (mm)	L (mm)	M (mm)	S (mm)	MAX. REC. LOAD (Kg)
1	10"	50	55	192	10	2250
2	12"	50	60	223	10	2250
3	14"	50	55	233	12	2250
4	16"	50	60	264	12	2250
5	18"	50	51	276	15	3250
6	20"	50	56	311	15	3250
7	24"	50	56	361	15	3250
8	30"	50	56	436	15	3250
9	36"	50	56	513	20	3250

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SADDLES

FIG.: 2305 SECTION B TO 2310

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FIG. 2305 - NORMAL SADDLE - 65 mm. INSULATION

No.	D.N.	Emax. (mm)	L (mm)	M (mm)	S (mm)	MAX. REC. LOAD (Kg)
1	1 1/2"	65	68	93	5	800
2	2"	65	68	99	5	800
3	2 1/2"	65	68	106	6	800
4	3"	65	68	113	6	800
5	4"	65	68	126	6	800
6	6"	65	70	157	8	800
7	8"	65	70	179	8	800

FIG. 2306 - WIDE SADDLE - 65 mm. INSULATION

No.	D.N.	Emax. (mm)	L (mm)	M (mm)	S (mm)	MAX. REC. LOAD (Kg)
1	10"	65	70	207	12	2250
2	12"	65	76	239	12	2250
3	14"	65	71	250	12	2250
4	16"	65	71	276	15	3250
5	18"	65	66	291	15	3250
6	20"	65	71	326	15	3250
7	24"	65	71	376	15	3250
8	30"	65	71	451	20	3250
9	36"	65	71	528	20	3250

FIG. 2307 - NORMAL SADDLE - 75 mm. INSULATION

No.	D.N.	Emax. (mm)	L (mm)	M (mm)	S (mm)	MAX. REC. LOAD (Kg)	
1	2"	75	78	109	5	800	
2	2 1/2"	75	78	116	5	800	
3	3"	75	80	125	5	800	
4	4"	75	78	136	6	800	
5	6"	75	82	167	8	800	
6	8"	75	79	189	8	800	

FIG. 2308 - WIDE SADDLE - 75 mm. INSULATION

No.	D.N.	Emax. (mm)	L (mm)	M (mm)	S (mm)	MAX. REC. LOAD (Kg)	
1	10"	75	81	218	12	2250	
2	12"	75	86	249	12	2250	
3	14"	75	80	258	12	2250	
4	16"	75	82	286	15	3250	
5	18"	75	76	301	15	3250	
6	20"	75	81	336	15	3250	
7	24"	75	81	386	20	3250	
8	30"	75	81	461	20	3250	
9	36"	75	81	538	20	3250	

FIG. 2309 - NORMAL SADDLE - 100 mm. INSULATION

No.	D.N.	Emax. (mm)	L (mm)	M (mm)	S (mm)	MAX. REC. LOAD (Kg)
1	4"	100	103	161	8	800
2	6"	100	108	193	8	800
3	8"	100	104	214	8	800

FIG. 2310 - WIDE SADDLE - 100 mm. INSULATION

No.	D.N.	Emax. (mm)	L (mm)	M (mm)	S (mm)	MAX. REC. LOAD (Kg)	
1	10"	100	106	243	12	2250	
2	12"	100	111	274	12	2250	
3	14"	100	102	280	15	3250	
4	16"	100	107	311	20	3250	
5	18"	100	101	326	20	3250	
6	20"	100	106	361	20	3250	
7	24"	100	106	411	20	3250	
8	30"	100	106	486	20	3250	
9	36"	100	106	563	20	3250	

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