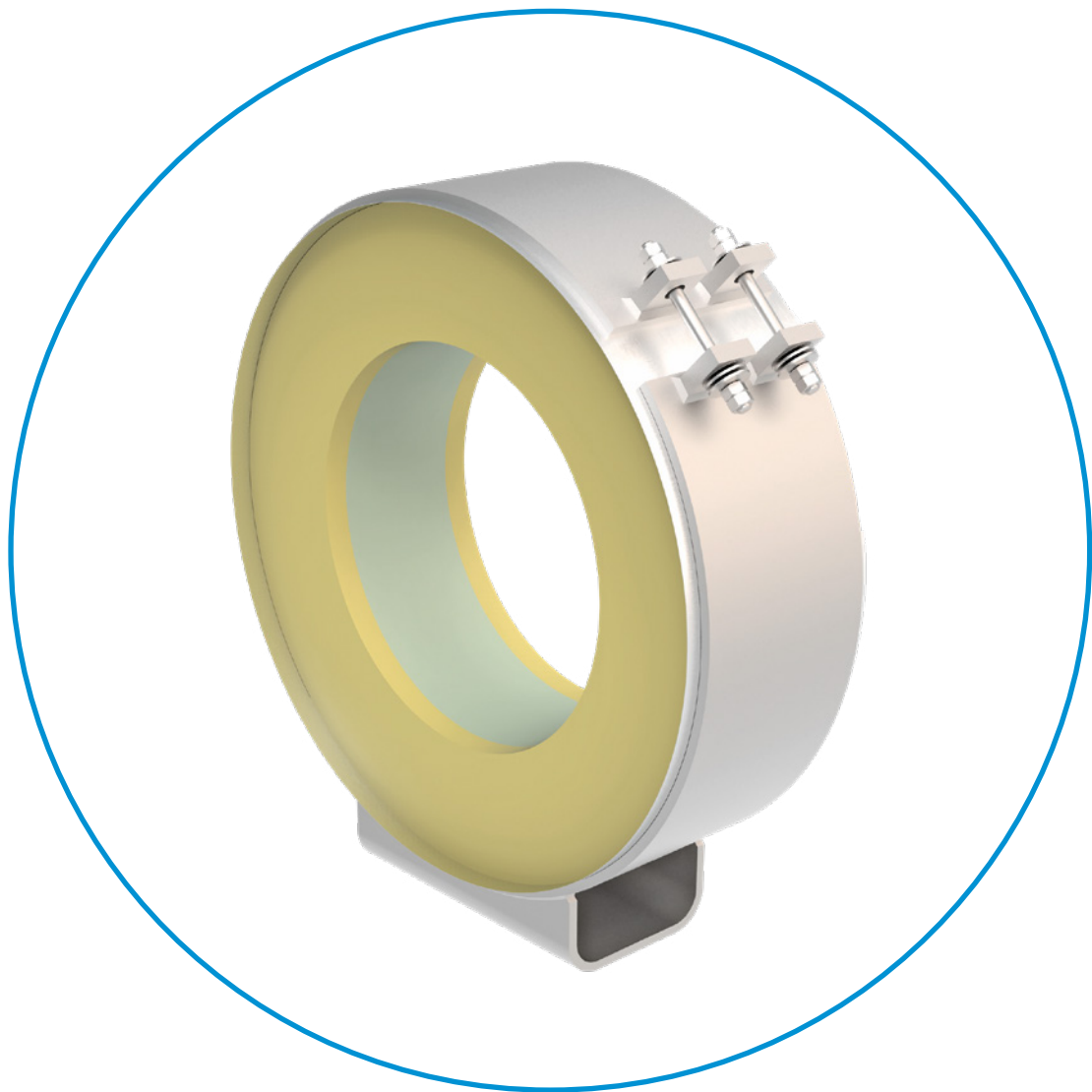


HITEM®

Hot Insulated Pipe Supports



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1 — Hot Insulated Pipe Supports

Applications

LISEGA **HITEM** pipe supports with calcium silicate insulation are used at high process temperatures which allow no or only very limited heat-loss. Considering pre-insulated **HITEM** pipe supports instead of non-insulated high-alloy steel supports can make a significant difference in terms of cost to the project. Applications range from petrochemical and process industries to solar thermal power plants industries.

LISEGA **HITEM** pipe supports are standardized and designed in accordance with recognized international standards and codes. They cover standard pipe diameters from OD ½" (21.3 mm) to 38" (965.2 mm) and insulation thicknesses from 1" (25 mm) to 10" (250 mm). The supports are made of materials suitable for the specified loads and operating temperatures up to 650°C. Market-specific requirements can also be considered and implemented.

Standards and Guidelines

EN13480-3, MSS SP-58, VGB-R510L, ASME B31.1, ASME B31.3	industrial Pipe Supports
CINI and ASTM C585	Insulation and Geometries
ASTM C680, VDI 2055	Heat Transfer

Design Fundamentals



Design Fundamentals

- 1 The insulating segments consist of a combination of high- and low-density calcium silicate and thus meeting the need for high load capacity with the best possible thermal insulation. To protect against moisture, the calcium silicate insulation is impregnated with water repellent. In order to accommodate pipe tolerances, a high-temperature resistant fabric mat is included in the scope of supply to create best possible contact between pipe and insulation.
- 2 The pipe is enclosed by the insulation whereas the insulation is enclosed by the pipe shoe. This allows the use of a hot-dip galvanized low-alloy carbon steel, which offers the most economical design. At the same time this offers excellent corrosion protection for typical industrial applications.
- 3 The defined clamping mechanism ensures a firm connection between the pipeline and the pipe support. This ensures that the pipe shoe follows the thermal movements of the pipeline resulting from different operating phases. The hardware including the disc springs are made of stainless steel.
- 4 In order to maximize protection of the calcium silicate insulation from damage, a corrosion-resistant metal protection shield is inserted between the pipe clamp and the insulation.
- 5 Reduction of the sliding resistance and the resulting reduction of horizontal frictional forces is paramount; therefore, the pipe supports are designed with stainless steel sliding plates to be used in conjunction with PTFE. This ensures the longevity of the calcium silicate insulation of the pipe shoe even in intermittent operation with numerous thermal changes due to frequent plant start-up and shut-down.

Information and selection tables for sliding plates Type 70 can be found in the LISEGA catalog 2020, page 7.10 ff.

Designs

Rest , Guide, and Line Stop Supports

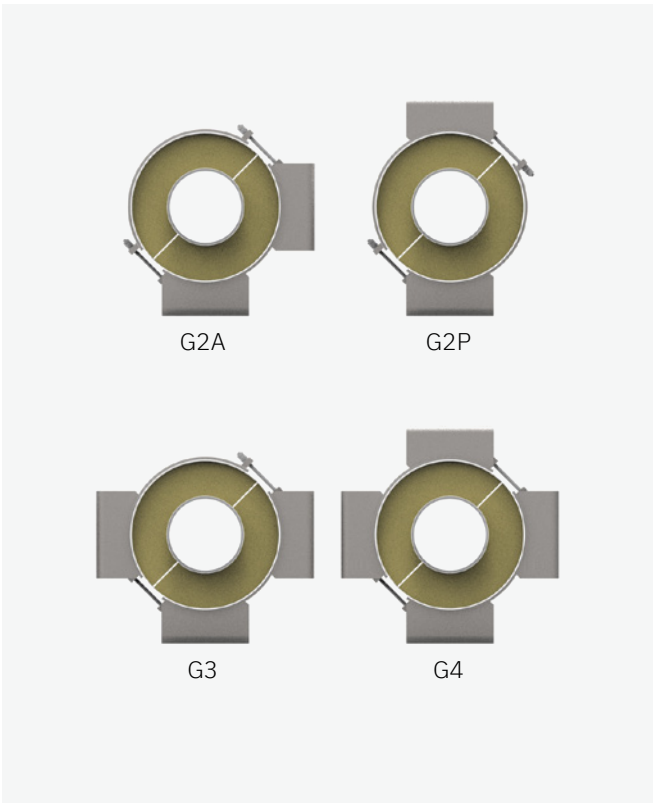
LISEGA Hot Shoe Type 59, is a conventional, thermally insulated pipe support and functions as a rest and guide bearing. Axial stops are available with corresponding requirements on request. Axial stops can be designed by means of additional thrust rings.

Multiple guided Pipe Supports

If there is a need to restrain pipes against sliding in the horizontal, vertical or both directions, the thermally insulated pipe supports can be equipped with multiple guides. Each variant is given an additional number after the 6th digit, which describes the type of guide.

The Type 59 pipe support can be ordered in the following versions:

- G2A Lateral guide angulated
- G2P Double guide parallel
- G3 Triple lateral guide
- G4 Four-sided guide



Type Selection Guide

Type Designation

Hotinsulated pipe supports can be clearly identified by type numbers. The six digits contain all the necessary information. This system enables the unrestricted integration of the LISEGA modular system into the usual CAD and planning programs.

Selection Guide

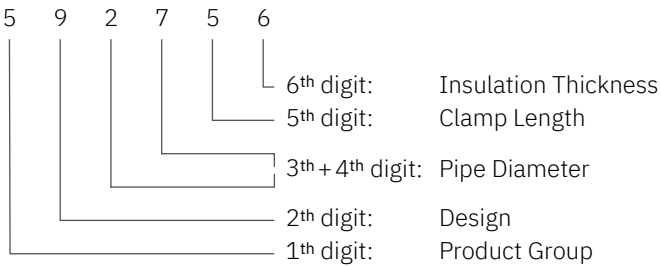


Illustration of type designation:

Product Group	Design	Pipe Diameter	Clamp Length	Insulation Thickness
5	9 Hot Insulated Pipe Support	01 = 21.3 mm	3 = 150 mm	0 = 25 mm
		02 = 26.9 mm	5 = 300 mm	1 = 40 mm
		03 = 33.7 mm	7 = 500 mm	2 = 50 mm
		05 = 48.3 mm		3 = 80 mm
		06 = 60.3 mm		4 = 100 mm
		09 = 88.9 mm		5 = 130 mm
		11 = 114.3 mm		6 = 150 mm
		17 = 168.3 mm		7 = 180 mm
		22 = 219.1 mm		8 = 200 mm
		27 = 273.0 mm		9 = 250 mm
		32 = 323.9 mm		
		36 = 355.6 mm		
		41 = 406.4 mm		
		46 = 457.2 mm		
		51 = 508.0 mm		
		56 = 558.8 mm		
		61 = 609.6 mm		
		66 = 660.6 mm		
		71 = 711.2 mm		
		76 = 762.0 mm		
		81 = 812.8 mm		
		91 = 914.4 mm		
		97 = 965.2 mm		



Market Specific Product Customization

LISEGA's standard **HITEM** pipe supports can be quickly and efficiently customized to market and project-specific requirements. Possible scenarios for customization requirements could be for example:

- Grooves for heat tracing in insulation material
- Additional, vibration-insulating layers made of elastic materials
- Deviating insulation thicknesses
- Deviating pipe support (installation) dimensions, e.g. height, width or length
- Increased load capacity at the same length by using a different insulation material
- Additional vapor barrier foil
- Application temperatures above 650°C
- Possible use as horizontal clamp, e.g. in combination with spring or constant hangers



Installation

LISEGA **HITEM** pipe supports are supplied pre-assembled. Installation is carried out without gluing the components together, the pipe shoe being clamped properly to the pipe is realized by means of disc springs within the hardware.

Note: The metal protection shield protrudes from the clamp to ensure an ideal connection to the pipeline insulation.



Service

LISEGA prides itself on the service it provides to its customers, offering comprehensive technical support from the design stage, during quotation, installation and beyond such as heat transfer or surface temperature estimations

Further information on services can be found on our website or in the LISEGA Catalog 2020, page 9.10.

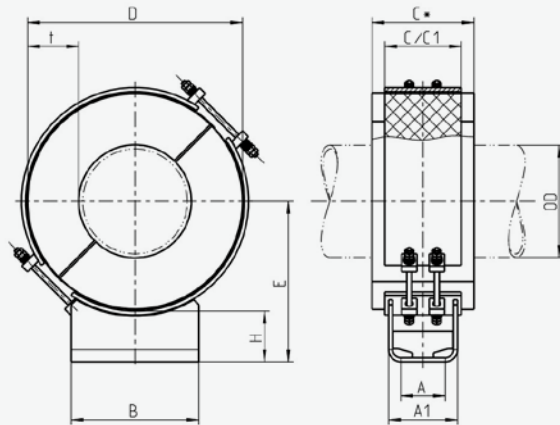


Contact

Would you like to learn more?
Our team of experts will support you with your project:
info@de.lisega.com

The **product catalog for hot insulated pipe supports** is also available online on our website:
www.lisega.com

2 — Types



OD [mm]	Typ	t [mm]	D [mm]	E [mm]	H [mm]	B [mm]	A [mm]	A1 [mm]	C/C1 [mm]	FV [kN]	W [kg]
21.3	590130	25	72	97	60	75	111	135	150	1.0	2.7
21.3	590150	25	72	97	60	75	261	285	300	1.9	4.5
21.3	590131	40	102	112	60	75	111	135	150	1.0	3.6
21.3	590151	40	102	112	60	75	261	285	300	1.9	6.1
21.3	590132	50	122	122	60	100	111	135	150	1.0	4.4
21.3	590152	50	122	122	60	100	261	285	300	1.9	7.5
21.3	590133	80	182	152	60	100	111	135	150	1.0	7.1
21.3	590153	80	182	152	60	100	261	285	300	1.9	12
21.3	590134	100	222	172	60	150	105	135	150	1.0	10
21.3	590154	100	222	172	60	150	255	285	300	1.9	18
26.9	590230	25	77	99	60	75	111	135	150	1.6	2.8
26.9	590250	25	77	99	60	75	261	285	300	2.6	4.8
26.9	590231	40	107	114	60	75	111	135	150	1.6	3.7
26.9	590251	40	107	114	60	75	261	285	300	2.6	6.3
26.9	590232	50	127	124	60	100	111	135	150	1.6	4.5
26.9	590252	50	127	124	60	100	261	285	300	2.6	7.7
26.9	590233	80	187	154	60	100	111	135	150	1.6	7.3
26.9	590253	80	187	154	60	100	261	285	300	2.6	12
26.9	590234	100	227	174	60	150	105	135	150	1.6	11
26.9	590254	100	227	174	60	150	255	285	300	2.6	18
33.7	590330	25	84	103	60	75	111	135	150	1.5	3.0
33.7	590350	25	84	103	60	75	261	285	300	2.7	5.1
33.7	590331	40	114	118	60	75	111	135	150	1.5	3.9
33.7	590351	40	114	118	60	75	261	285	300	2.7	6.7
33.7	590332	50	134	128	60	100	111	135	150	1.5	4.7
33.7	590352	50	134	128	60	100	261	285	300	2.7	8.1
33.7	590333	80	194	158	60	100	111	135	150	1.5	7.5
33.7	590353	80	194	158	60	100	261	285	300	2.7	12
33.7	590334	100	234	178	60	150	105	135	150	1.5	11
33.7	590354	100	234	178	60	150	255	285	300	2.7	18
33.7	590335	130	294	208	60	200	99	135	150	1.5	15
33.7	590355	130	294	208	60	200	249	285	300	2.7	25

OD
Outer Diameter of Pipe

t
Insulation Thickness

D
Outer Diameter
of Insulation

E
Installation Height (incl.
Stainl. Steel Sliding Plate)

H
Height, lower edge
of insulation

B
Support Width

A
Support Length

A1
Shoe Length

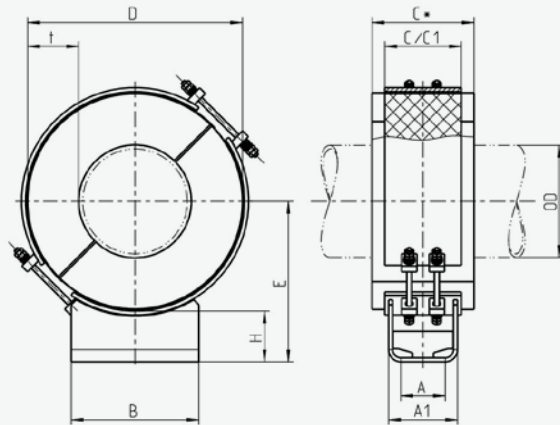
C
Clamp Length

C1
Insulation Length

C*
Length of Metal Protection
Shield (C + 50 mm)

FV
Vertical Load

W
Weight



OD [mm]	Typ	t [mm]	D [mm]	E [mm]	H [mm]	B [mm]	A [mm]	A1 [mm]	C/C1 [mm]	FV [kN]	W [kg]
48.3	590530	25	99	110	60	75	111	135	150	2.5	3.4
48.3	590550	25	99	110	60	75	261	285	300	5.3	5.8
48.3	590531	40	129	125	60	100	111	135	150	2.5	4.5
48.3	590551	40	129	125	60	100	261	285	300	5.3	7.7
48.3	590532	50	149	135	60	100	111	135	150	2.5	5.2
48.3	590552	50	149	135	60	100	261	285	300	5.3	8.9
48.3	590533	80	209	165	60	100	111	135	150	2.5	8.7
48.3	590553	80	209	165	60	100	261	285	300	5.3	15
48.3	590534	100	249	185	60	150	105	135	150	2.5	12
48.3	590554	100	249	185	60	150	255	285	300	5.3	20
48.3	590535	130	309	215	60	200	99	135	150	2.5	17
48.3	590555	130	309	215	60	200	249	285	300	5.3	29
60.3	590630	25	111	116	60	75	111	135	150	2.9	3.6
60.3	590650	25	111	116	60	75	261	285	300	6.0	6.3
60.3	590631	40	141	131	60	100	111	135	150	2.9	4.7
60.3	590651	40	141	131	60	100	261	285	300	6.0	8.3
60.3	590632	50	161	141	60	100	111	135	150	2.9	5.1
60.3	590652	50	161	141	60	100	261	285	300	6.0	9.0
60.3	590633	80	221	171	60	150	105	135	150	2.9	10
60.3	590653	80	221	171	60	150	255	285	300	6.0	17
60.3	590634	100	261	191	60	150	105	135	150	2.9	12
60.3	590654	100	261	191	60	150	255	285	300	6.0	21
60.3	590635	130	321	221	60	200	99	135	150	2.9	17
60.3	590655	130	321	221	60	200	249	285	300	6.0	30
60.3	590636	150	361	241	60	250	87	135	150	2.9	20
60.3	590656	150	361	241	60	250	237	285	300	6.0	36

OD
Outer Diameter of Pipe

t
Insulation Thickness

D
Outer Diameter
of Insulation

E
Installation Height (incl.
Stainl. Steel Sliding Plate)

H
Height, lower edge
of insulation

B
Support Width

A
Support Length

A1
Shoe Length

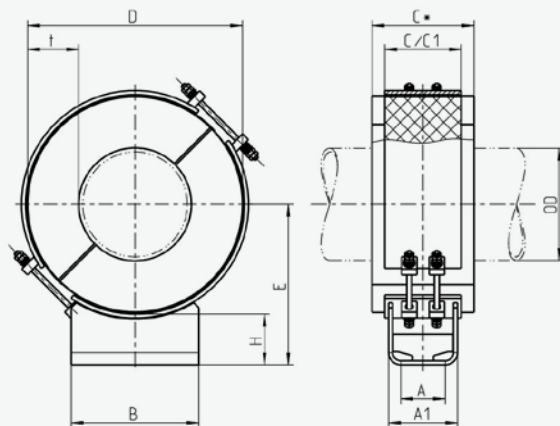
C
Clamp Length

C1
Insulation Length

C*
Length of Metal Protection
Shield (C + 50 mm)

FV
Vertical Load

W
Weight



OD [mm]	Typ	t [mm]	D [mm]	E [mm]	H [mm]	B [mm]	A [mm]	A1 [mm]	C/C1 [mm]	FV [kN]	W [kg]
88.9	590930	25	140	131	60	100	111	135	150	3.1	4.5
88.9	590950	25	140	131	60	100	261	285	300	6.5	7.9
88.9	590931	40	170	146	60	100	111	135	150	3.1	6.3
88.9	590951	40	170	146	60	100	261	285	300	6.5	10
88.9	590932	50	190	156	60	100	111	135	150	3.1	7.0
88.9	590952	50	190	156	60	100	261	285	300	6.5	12
88.9	590933	80	250	186	60	150	105	135	150	3.1	11
88.9	590953	80	250	186	60	150	255	285	300	6.5	19
88.9	590934	100	290	206	60	200	99	135	150	3.1	14
88.9	590954	100	290	206	60	200	249	285	300	6.5	24
88.9	590935	130	350	236	60	200	99	135	150	3.1	19
88.9	590955	130	350	236	60	200	249	285	300	6.5	32
88.9	590936	150	390	296	100	250	87	135	150	3.1	24
88.9	590956	150	390	296	100	250	237	285	300	6.5	41
114.3	591130	25	165	143	60	100	111	135	150	5.9	5.8
114.3	591150	25	165	143	60	100	261	285	300	10	9.4
114.3	591131	40	195	158	60	100	111	135	150	5.9	6.9
114.3	591151	40	195	158	60	100	261	285	300	10	11
114.3	591132	50	215	168	60	150	105	135	150	5.9	9.1
114.3	591152	50	215	168	60	150	255	285	300	10	15
114.3	591133	80	275	198	60	150	105	135	150	5.9	12
114.3	591153	80	275	198	60	150	255	285	300	10	21
114.3	591134	100	315	218	60	200	99	135	150	5.9	16
114.3	591154	100	315	218	60	200	249	285	300	10	28
114.3	591135	130	375	288	100	250	87	135	150	5.9	23
114.3	591155	130	375	288	100	250	237	285	300	10	39
114.3	591136	150	415	308	100	250	87	135	150	5.9	28
114.3	591156	150	415	308	100	250	237	285	300	10	49
114.3	591137	180	475	338	100	300	75	135	150	5.9	38
114.3	591157	180	475	338	100	300	225	285	300	10	64

OD
Outer Diameter of Pipe

t
Insulation Thickness

D
Outer Diameter
of Insulation

E
Installation Height (incl.
Stainl. Steel Sliding Plate)

H
Height, lower edge
of insulation

B
Support Width

A
Support Length

A1
Shoe Length

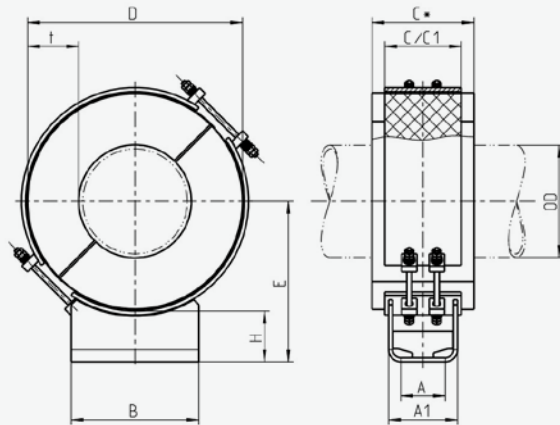
C
Clamp Length

C1
Insulation Length

C*
Length of Metal Protection
Shield (C + 50 mm)

FV
Vertical Load

W
Weight



OD [mm]	Typ	t [mm]	D [mm]	E [mm]	H [mm]	B [mm]	A [mm]	A1 [mm]	C/C1 [mm]	FV [kN]	W [kg]
168.3	591730	25	220	171	60	150	105	135	150	11	8.8
168.3	591750	25	220	171	60	150	249	285	300	17	15
168.3	591731	40	250	186	60	150	105	135	150	11	10
168.3	591751	40	250	186	60	150	249	285	300	17	18
168.3	591732	50	270	196	60	150	105	135	150	11	11
168.3	591752	50	270	196	60	150	249	285	300	17	20
168.3	591733	80	330	226	60	200	99	135	150	11	17
168.3	591753	80	330	226	60	200	249	285	300	17	29
168.3	591734	100	370	286	100	250	87	135	150	11	22
168.3	591754	100	370	286	100	250	237	285	300	17	37
168.3	591735	130	430	316	100	250	87	135	150	11	29
168.3	591755	130	430	316	100	250	237	285	300	17	50
168.3	591736	150	470	336	100	300	75	135	150	11	37
168.3	591756	150	470	336	100	300	225	285	300	17	62
168.3	591737	180	530	366	100	300	75	135	150	11	46
168.3	591757	180	530	366	100	300	225	285	300	17	78
219.1	592230	25	271	196	60	150	105	135	150	13	10
219.1	592250	25	271	196	60	150	249	285	300	19	18
219.1	592231	40	301	211	60	200	99	135	150	13	14
219.1	592251	40	301	211	60	200	249	285	300	19	24
219.1	592232	50	321	221	60	200	99	135	150	13	15
219.1	592252	50	321	221	60	200	249	285	300	19	26
219.1	592233	80	381	291	100	250	87	135	150	13	21
219.1	592253	80	381	291	100	250	237	285	300	19	36
219.1	592234	100	421	311	100	250	87	135	150	13	27
219.1	592254	100	421	311	100	250	237	285	300	19	47
219.1	592235	130	481	341	100	300	75	135	150	13	37
219.1	592255	130	481	341	100	300	225	285	300	19	61
219.1	592236	150	521	361	100	300	75	135	150	13	44
219.1	592256	150	521	361	100	300	225	285	300	19	75
219.1	592237	180	581	391	100	300	75	135	150	13	49
219.1	592257	180	581	391	100	300	225	285	300	19	85

OD
Outer Diameter of Pipe

t
Insulation Thickness

D
Outer Diameter
of Insulation

E
Installation Height (incl.
Stainl. Steel Sliding Plate)

H
Height, lower edge
of insulation

B
Support Width

A
Support Length

A1
Shoe Length

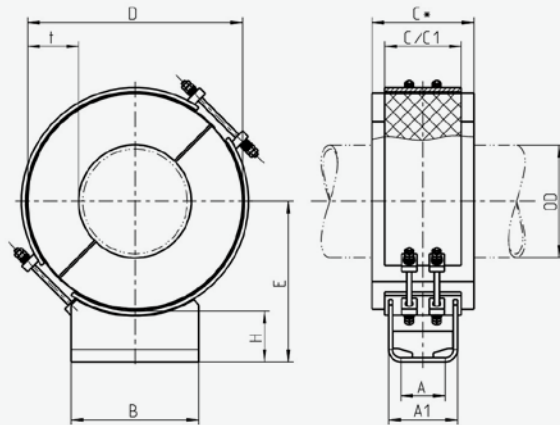
C
Clamp Length

C1
Insulation Length

C*
Length of Metal Protection
Shield (C + 50 mm)

FV
Vertical Load

W
Weight



OD [mm]	Typ	t [mm]	D [mm]	E [mm]	H [mm]	B [mm]	A [mm]	A1 [mm]	C/C1 [mm]	FV [kN]	W [kg]
273	592750	25	325	223	60	200	249	285	300	15	24
273	592770	25	325	223	60	200	449	485	500	26	37
273	592751	40	355	238	60	200	249	285	300	15	26
273	592771	40	355	238	60	200	449	485	500	26	41
273	592752	50	375	288	100	250	237	285	300	15	32
273	592772	50	375	288	100	250	437	485	500	26	50
273	592753	80	435	318	100	250	237	285	300	15	45
273	592773	80	435	318	100	250	437	485	500	26	71
273	592754	100	475	338	100	300	225	285	300	15	57
273	592774	100	475	338	100	300	425	485	500	26	88
273	592755	130	535	368	100	300	225	285	300	15	73
273	592775	130	535	368	100	300	425	485	500	26	114
273	592756	150	575	388	100	300	225	285	300	15	80
273	592776	150	575	388	100	300	425	485	500	26	125
273	592757	180	635	418	100	400	206	280	300	15	97
273	592777	180	635	418	100	400	406	480	500	26	151
273	592758	200	675	438	100	400	206	280	300	15	104
273	592778	200	675	438	100	400	406	480	500	26	163
323.9	593250	25	376	289	100	250	237	285	300	23	30
323.9	593270	25	376	289	100	250	437	485	500	38	47
323.9	593251	40	406	304	100	250	237	285	300	23	39
323.9	593271	40	406	304	100	250	437	485	500	38	62
323.9	593252	50	426	314	100	250	237	285	300	23	42
323.9	593272	50	426	314	100	250	437	485	500	38	66
323.9	593253	80	486	344	100	300	225	285	300	23	56
323.9	593273	80	486	344	100	300	425	485	500	38	88
323.9	593254	100	526	364	100	300	225	285	300	23	69
323.9	593274	100	526	364	100	300	425	485	500	38	110
323.9	593255	130	586	394	100	300	225	285	300	23	79
323.9	593275	130	586	394	100	300	425	485	500	38	126
323.9	593256	150	626	414	100	400	206	280	300	23	93
323.9	593276	150	626	414	100	400	406	480	500	38	148
323.9	593257	180	686	444	100	400	206	280	300	23	104
323.9	593277	180	686	444	100	400	406	480	500	38	166
323.9	593258	200	726	464	100	400	206	280	300	23	130
323.9	593278	200	726	464	100	400	406	480	500	38	204

OD
Outer Diameter of Pipe

t
Insulation Thickness

D
Outer Diameter
of Insulation

E
Installation Height (incl.
Stainl. Steel Sliding Plate)

H
Height, lower edge
of insulation

B
Support Width

A
Support Length

A1
Shoe Length

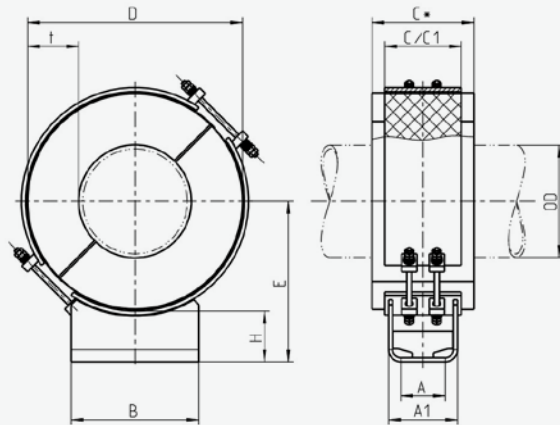
C
Clamp Length

C1
Insulation Length

C*
Length of Metal Protection
Shield (C + 50 mm)

FV
Vertical Load

W
Weight



OD [mm]	Typ	t [mm]	D [mm]	E [mm]	H [mm]	B [mm]	A [mm]	A1 [mm]	C/C1 [mm]	FV [kN]	W [kg]
355.6	593650	25	408	305	100	250	237	285	300	28	38
355.6	593670	25	408	305	100	250	437	485	500	40	59
355.6	593651	40	438	320	100	250	237	285	300	28	42
355.6	593671	40	438	320	100	250	437	485	500	40	66
355.6	593652	50	458	330	100	300	225	285	300	28	51
355.6	593672	50	458	330	100	300	425	485	500	40	78
355.6	593653	80	518	360	100	300	225	285	300	28	67
355.6	593673	80	518	360	100	300	425	485	500	40	104
355.6	593654	100	558	380	100	300	225	285	300	28	74
355.6	593674	100	558	380	100	300	425	485	500	40	115
355.6	593655	130	618	410	100	400	206	280	300	28	92
355.6	593675	130	618	410	100	400	406	480	500	40	142
355.6	593656	150	658	430	100	400	206	280	300	28	100
355.6	593676	150	658	430	100	400	406	480	500	40	154
355.6	593657	180	718	460	100	400	206	280	300	28	130
355.6	593677	180	718	460	100	400	406	480	500	40	198
355.6	593658	200	758	480	100	400	206	280	300	28	139
355.6	593678	200	758	480	100	400	406	480	500	40	212
406.4	594151	40	489	345	100	300	225	285	300	33	52
406.4	594171	40	489	345	100	300	425	485	500	45	80
406.4	594152	50	509	355	100	300	225	285	300	33	62
406.4	594172	50	509	355	100	300	425	485	500	45	97
406.4	594153	80	569	385	100	300	225	285	300	33	73
406.4	594173	80	569	385	100	300	425	485	500	45	113
406.4	594154	100	609	405	100	400	206	280	300	33	87
406.4	594174	100	609	405	100	400	406	480	500	45	134
406.4	594155	130	669	435	100	400	206	280	300	33	98
406.4	594175	130	669	435	100	400	406	480	500	45	153
406.4	594156	150	709	455	100	400	206	280	300	33	124
406.4	594176	150	709	455	100	400	406	480	500	45	190
406.4	594157	180	769	485	100	400	206	280	300	33	138
406.4	594177	180	769	485	100	400	406	480	500	45	211
406.4	594158	200	809	505	100	400	206	280	300	33	147
406.4	594178	200	809	505	100	400	406	480	500	45	225
406.4	594159	250	909	605	150	500	188	280	300	33	187
406.4	594179	250	909	605	150	500	388	480	500	45	284

OD
Outer Diameter of Pipe

t
Insulation Thickness

D
Outer Diameter
of Insulation

E
Installation Height (incl.
Stainl. Steel Sliding Plate)

H
Height, lower edge
of insulation

B
Support Width

A
Support Length

A1
Shoe Length

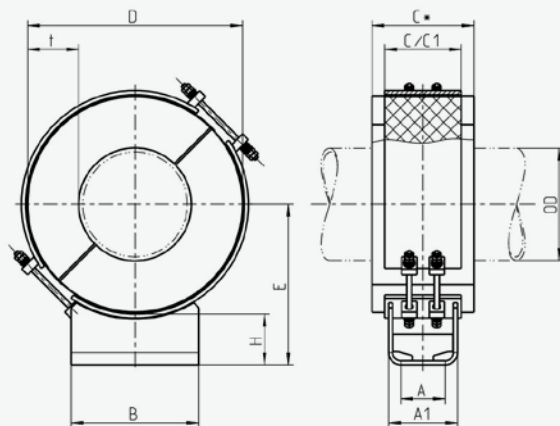
C
Clamp Length

C1
Insulation Length

C*
Length of Metal Protection
Shield (C + 50 mm)

FV
Vertical Load

W
Weight



OD [mm]	Typ	t [mm]	D [mm]	E [mm]	H [mm]	B [mm]	A [mm]	A1 [mm]	C/C1 [mm]	FV [kN]	W [kg]
457.2	594651	40	540	371	100	300	225	285	300	35	64
457.2	594671	40	540	371	100	300	425	485	500	55	99
457.2	594652	50	560	381	100	300	225	285	300	35	67
457.2	594672	50	560	381	100	300	425	485	500	55	105
457.2	594653	80	620	411	100	400	206	280	300	35	85
457.2	594673	80	620	411	100	400	406	480	500	55	132
457.2	594654	100	660	431	100	400	206	280	300	35	93
457.2	594674	100	660	431	100	400	406	480	500	55	144
457.2	594655	130	720	461	100	400	206	280	300	35	123
457.2	594675	130	720	461	100	400	406	480	500	55	188
457.2	594656	150	760	481	100	400	206	280	300	35	132
457.2	594676	150	760	481	100	400	406	480	500	55	202
457.2	594657	180	820	511	100	400	206	280	300	35	146
457.2	594677	180	820	511	100	400	406	480	500	55	224
457.2	594658	200	860	581	150	500	188	280	300	35	171
457.2	594678	200	860	581	150	500	388	480	500	55	259
457.2	594659	250	960	631	150	500	188	280	300	35	196
457.2	594679	250	960	631	150	500	388	480	500	55	298
508	595151	40	591	396	100	300	225	285	300	38	68
508	595171	40	591	396	100	300	425	485	500	58	107
508	595152	50	611	406	100	400	206	280	300	38	79
508	595172	50	611	406	100	400	406	480	500	58	122
508	595153	80	671	436	100	400	206	280	300	38	90
508	595173	80	671	436	100	400	406	480	500	58	141
508	595154	100	711	456	100	400	206	280	300	38	116
508	595174	100	711	456	100	400	406	480	500	58	178
508	595155	130	771	486	100	400	206	280	300	38	130
508	595175	130	771	486	100	400	406	480	500	58	199
508	595156	150	811	506	100	400	206	280	300	38	139
508	595176	150	811	506	100	400	406	480	500	58	214
508	595157	180	871	586	150	500	188	280	300	38	169
508	595177	180	871	586	150	500	388	480	500	58	256
508	595158	200	911	606	150	500	188	280	300	38	179
508	595178	200	911	606	150	500	388	480	500	58	272
508	595159	250	1011	656	150	500	188	280	300	38	219
508	595179	250	1011	656	150	500	388	480	500	58	337

OD
Outer Diameter of Pipe

t
Insulation Thickness

D
Outer Diameter
of Insulation

E
Installation Height (incl.
Stainl. Steel Sliding Plate)

H
Height, lower edge
of insulation

B
Support Width

A
Support Length

A1
Shoe Length

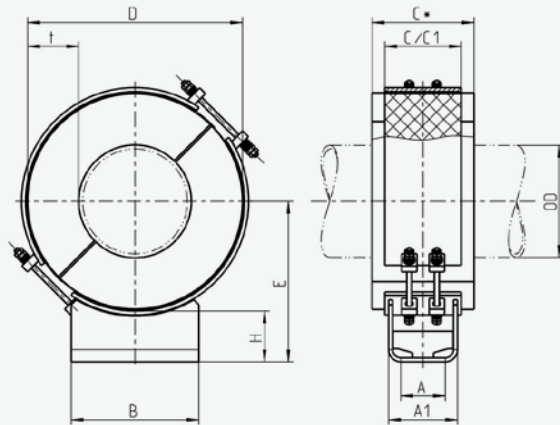
C
Clamp Length

C1
Insulation Length

C*
Length of Metal Protection
Shield (C + 50 mm)

FV
Vertical Load

W
Weight



OD [mm]	Typ	t [mm]	D [mm]	E [mm]	H [mm]	B [mm]	A [mm]	A1 [mm]	C/C1 [mm]	FV [kN]	W [kg]
558.8	595652	50	662	432	100	400	206	280	300	49	84
558.8	595672	50	662	432	100	400	406	480	500	70	131
558.8	595653	80	722	462	100	400	206	280	300	49	114
558.8	595673	80	722	462	100	400	406	480	500	70	174
558.8	595654	100	762	482	100	400	206	280	300	49	123
558.8	595674	100	762	482	100	400	406	480	500	70	188
558.8	595655	130	822	512	100	400	206	280	300	49	137
558.8	595675	130	822	512	100	400	406	480	500	70	211
558.8	595656	150	862	582	150	500	188	280	300	49	162
558.8	595676	150	862	582	150	500	388	480	500	70	246
558.8	595657	180	922	612	150	500	188	280	300	49	177
558.8	595677	180	922	612	150	500	388	480	500	70	269
558.8	595658	200	962	632	150	500	188	280	300	49	187
558.8	595678	200	962	632	150	500	388	480	500	70	285
558.8	595659	250	1062	682	150	500	188	280	300	49	230
558.8	595679	250	1062	682	150	500	388	480	500	70	353
609.6	596152	50	712	457	100	400	206	280	300	54	106
609.6	596172	50	712	457	100	400	406	480	500	77	163
609.6	596153	80	772	487	100	400	206	280	300	54	120
609.6	596173	80	772	487	100	400	406	480	500	77	184
609.6	596154	100	812	507	100	400	206	280	300	54	129
609.6	596174	100	812	507	100	400	406	480	500	77	199
609.6	596155	130	872	587	150	500	188	280	300	54	159
609.6	596175	130	872	587	150	500	388	480	500	77	242
609.6	596156	150	912	607	150	500	188	280	300	54	169
609.6	596176	150	912	607	150	500	388	480	500	77	257
609.6	596157	180	972	637	150	500	188	280	300	54	184
609.6	596177	180	972	637	150	500	388	480	500	77	282
609.6	596158	200	1012	657	150	500	188	280	300	54	210
609.6	596178	200	1012	657	150	500	388	480	500	77	323
609.6	596159	250	1112	707	150	600	176	280	300	54	257
609.6	596179	250	1112	707	150	600	376	480	500	77	390

OD
Outer Diameter of Pipe

t
Insulation Thickness

D
Outer Diameter
of Insulation

E
Installation Height (incl.
Stainl. Steel Sliding Plate)

H
Height, lower edge
of insulation

B
Support Width

A
Support Length

A1
Shoe Length

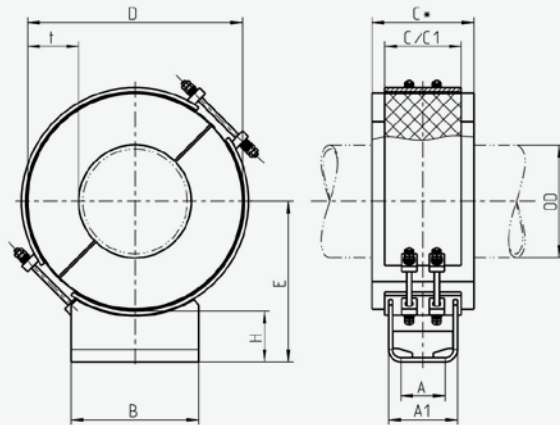
C
Clamp Length

C1
Insulation Length

C*
Length of Metal Protection
Shield (C + 50 mm)

FV
Vertical Load

W
Weight



OD [mm]	Typ	t [mm]	D [mm]	E [mm]	H [mm]	B [mm]	A [mm]	A1 [mm]	C/C1 [mm]	FV [kN]	W [kg]
660.4	596652	50	763	482	100	400	206	280	300	57	112
660.4	596672	50	763	482	100	400	406	480	500	84	172
660.4	596653	80	823	512	100	400	206	280	300	57	126
660.4	596673	80	823	512	100	400	406	480	500	84	194
660.4	596654	100	863	582	150	500	188	280	300	57	151
660.4	596674	100	863	582	150	500	388	480	500	84	229
660.4	596655	130	923	612	150	500	188	280	300	57	166
660.4	596675	130	923	612	150	500	388	480	500	84	253
660.4	596656	150	963	632	150	500	188	280	300	57	176
660.4	596676	150	963	632	150	500	388	480	500	84	269
660.4	596657	180	1023	662	150	500	188	280	300	57	207
660.4	596677	180	1023	662	150	500	388	480	500	84	319
660.4	596658	200	1063	682	150	500	188	280	300	57	219
660.4	596678	200	1063	682	150	500	388	480	500	84	337
660.4	596659	250	1163	732	150	600	176	280	300	57	266
660.4	596679	250	1163	732	150	600	376	480	500	84	406
711.2	597152	50	814	508	100	400	206	280	300	59	117
711.2	597172	50	814	508	100	400	406	480	500	86	181
711.2	597153	80	874	588	150	500	188	280	300	59	147
711.2	597173	80	874	588	150	500	388	480	500	86	224
711.2	597154	100	914	608	150	500	188	280	300	59	157
711.2	597174	100	914	608	150	500	388	480	500	86	240
711.2	597155	130	974	638	150	500	188	280	300	59	173
711.2	597175	130	974	638	150	500	388	480	500	86	264
711.2	597156	150	1014	658	150	500	188	280	300	59	198
711.2	597176	150	1014	658	150	500	388	480	500	86	305
711.2	597157	180	1074	688	150	500	188	280	300	59	216
711.2	597177	180	1074	688	150	500	388	480	500	86	333
711.2	597158	200	1114	708	150	600	176	280	300	59	247
711.2	597178	200	1114	708	150	600	376	480	500	86	375
711.2	597159	250	1214	758	150	600	176	280	300	59	278
711.2	597179	250	1214	758	150	600	376	480	500	86	424

OD
Outer Diameter of Pipe

t
Insulation Thickness

D
Outer Diameter
of Insulation

E
Installation Height (incl.
Stainl. Steel Sliding Plate)

H
Height, lower edge
of insulation

B
Support Width

A
Support Length

A1
Shoe Length

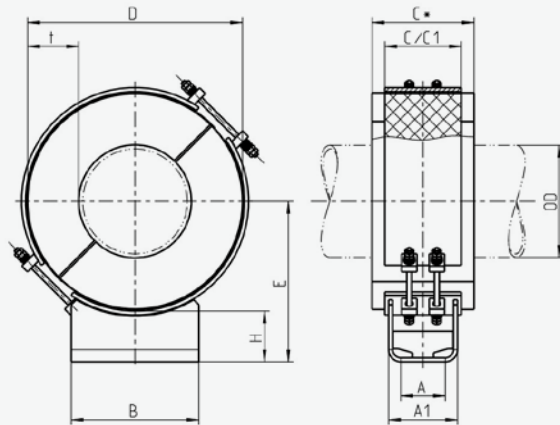
C
Clamp Length

C1
Insulation Length

C*
Length of Metal Protection
Shield (C + 50 mm)

FV
Vertical Load

W
Weight



OD [mm]	Typ	t [mm]	D [mm]	E [mm]	H [mm]	B [mm]	A [mm]	A1 [mm]	C/C1 [mm]	FV [kN]	W [kg]
762	597653	80	925	613	150	500	188	280	300	65	153
762	597673	80	925	613	150	500	388	480	500	93	234
762	597654	100	965	633	150	500	188	280	300	65	164
762	597674	100	965	633	150	500	388	480	500	93	250
762	597655	130	1025	663	150	500	188	280	300	65	195
762	597675	130	1025	663	150	500	388	480	500	93	300
762	597656	150	1065	683	150	500	188	280	300	65	206
762	597676	150	1065	683	150	500	388	480	500	93	318
762	597657	180	1125	713	150	600	176	280	300	65	244
762	597677	180	1125	713	150	600	376	480	500	93	370
762	597658	200	1165	733	150	600	176	280	300	65	256
762	597678	200	1165	733	150	600	376	480	500	93	390
762	597659	250	1265	783	150	600	176	280	300	65	288
762	597679	250	1265	783	150	600	376	480	500	93	440
812.8	598153	80	976	639	150	500	188	280	300	70	160
812.8	598173	80	976	639	150	500	388	480	500	100	244
812.8	598154	100	1016	659	150	500	188	280	300	70	185
812.8	598174	100	1016	659	150	500	388	480	500	100	285
812.8	598155	130	1076	689	150	500	188	280	300	70	203
812.8	598175	130	1076	689	150	500	388	480	500	100	313
812.8	598156	150	1116	709	150	600	176	280	300	70	234
812.8	598176	150	1116	709	150	600	376	480	500	100	355
812.8	598157	180	1176	739	150	600	176	280	300	70	252
812.8	598177	180	1176	739	150	600	376	480	500	100	384
812.8	598158	200	1216	759	150	600	176	280	300	70	265
812.8	598178	200	1216	759	150	600	376	480	500	100	404
812.8	598159	250	1316	809	150	600	176	280	300	70	318
812.8	598179	250	1316	809	150	600	376	480	500	100	488

OD
Outer Diameter of Pipe

t
Insulation Thickness

D
Outer Diameter
of Insulation

E
Installation Height (incl.
Stainl. Steel Sliding Plate)

H
Height, lower edge
of insulation

B
Support Width

A
Support Length

A1
Shoe Length

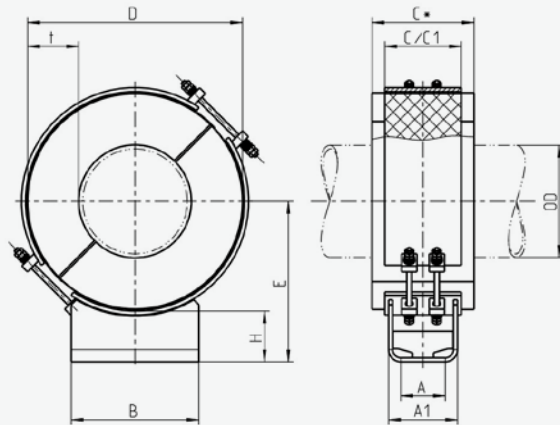
C
Clamp Length

C1
Insulation Length

C*
Length of Metal Protection
Shield (C + 50 mm)

FV
Vertical Load

W
Weight



OD [mm]	Typ	t [mm]	D [mm]	E [mm]	H [mm]	B [mm]	A [mm]	A1 [mm]	C/C1 [mm]	FV [kN]	W [kg]
914.4	599153	80	1078	690	150	500	188	280	300	90	187
914.4	599173	80	1078	690	150	500	388	480	500	122	292
914.4	599154	100	1118	710	150	600	176	280	300	90	219
914.4	599174	100	1118	710	150	600	376	480	500	122	333
914.4	599155	130	1178	740	150	600	176	280	300	90	237
914.4	599175	130	1178	740	150	600	376	480	500	122	362
914.4	599156	150	1218	760	150	600	176	280	300	90	250
914.4	599176	150	1218	760	150	600	376	480	500	122	382
914.4	599157	180	1278	790	150	600	176	280	300	90	270
914.4	599177	180	1278	790	150	600	376	480	500	122	412
914.4	599158	200	1318	810	150	600	176	280	300	90	302
914.4	599178	200	1318	810	150	600	376	480	500	122	465
914.4	599159	250	1418	860	150	700	176	280	300	90	347
914.4	599179	250	1418	860	150	700	354	480	500	122	540
965.2	599753	80	1129	715	150	600	176	280	300	95	213
965.2	599773	80	1129	715	150	600	376	480	500	155	328
965.2	599754	100	1169	735	150	600	176	280	300	95	226
965.2	599774	100	1169	735	150	600	376	480	500	155	348
965.2	599755	130	1229	765	150	600	176	280	300	95	245
965.2	599775	130	1229	765	150	600	376	480	500	155	379
965.2	599756	150	1269	785	150	600	176	280	300	95	258
965.2	599776	150	1269	785	150	600	376	480	500	155	401
965.2	599757	180	1329	815	150	600	176	280	300	95	298
965.2	599777	180	1329	815	150	600	376	480	500	155	466
965.2	599758	200	1369	835	150	600	176	280	300	95	312
965.2	599778	200	1369	835	150	600	376	480	500	155	489
965.2	599759	250	1469	885	150	700	176	280	300	95	358
965.2	599779	250	1469	885	150	700	354	480	500	155	568

OD
Outer Diameter of Pipe

t
Insulation Thickness

D
Outer Diameter
of Insulation

E
Installation Height (incl.
Stainl. Steel Sliding Plate)

H
Height, lower edge
of insulation

B
Support Width

A
Support Length

A1
Shoe Length

C
Clamp Length

C1
Insulation Length

C*
Length of Metal Protection
Shield (C + 50 mm)

FV
Vertical Load

W
Weight



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