



CaseCore PIPE SPACER RACI

Ø 55.4–309.6 MM



Ultimate Solutions.
Intelligent Delivery.

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PRODUCT INFORMATION

The **CaseCore Pipe Spacer Raci** range is a modular, screwless pipe spacer system designed to accurately centralise carrier pipes within casing pipes while providing outstanding load distribution and long-term protection. The innovative ball-shaped skid design reduces friction during installation, delivers excellent abrasion resistance, and helps protect both the carrier pipe and casing.

Manufactured from **100% recyclable polyethylene (PE)**, the metal-free system is ideal for **cathodically protected steel pipelines**, offering high mechanical strength, flexibility and corrosion-free performance. The integrated tooth connection enables fast, secure assembly without bolts or screws, reducing installation time on site.

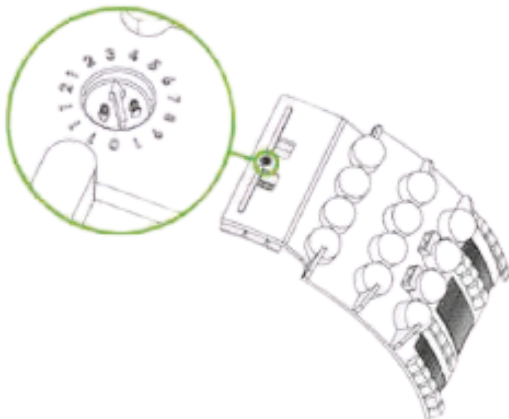
With just **seven modular spacer series**, the CaseCore Pipe Spacer Raci range accommodates carrier pipe outside diameters from 38 mm to 2,500 mm, simplifying product selection and inventory while providing a reliable solution for water, wastewater, gas, industrial and utility pipeline crossings. Heavy-duty skid options and high-temperature materials are also available for specialised applications.



N = Short Element
M = Long Element

M element + N element = example M/N spacer ring

Each type of spacer can be assembled from long and short elements, here e.g. „M“ and „N“.



Batch number is marked to ensure traceability.

The **right type of spacer** depends on pipe sizes and the expected forces. A recommended distance between the rings and the necessary number of elements per ring can be determined using the following tables.

KEY PROPERTIES

YIELD STRENGTH

>25 N/mm²(test acc. to UNI EN ISO 527-2)

ELONGATION AT BREAK

>200% (test acc. to UNI EN ISO 527-2)

HARDNESS SHORE D

64° - ASTM D 2240

OPERATING TEMPERATURE

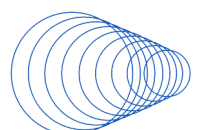
- 20°C up to + 40°C

DIELECTRIC STRENGTH

> 37 kV/mm - ASTM D 149/64

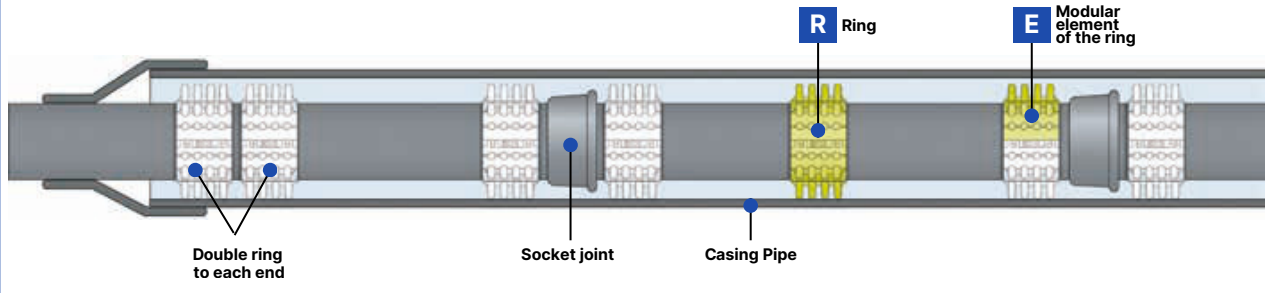
UV STABILIZATION

Good

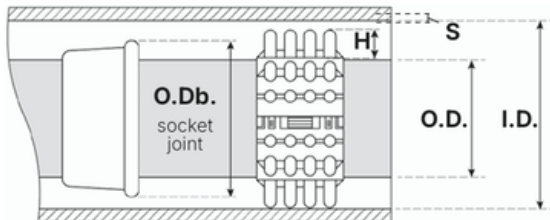


SELECTING THE CORRECT PIPE SPACER

Select the right spacer



- **Choose** possible types of spacers.
- When there are various choices, **select the spacer according to the expected load**. In case of doubt, choose the more stable type.
- **Select skid height:**
 - **OD:** Outside diameter carrier pipe
 - **ID:** Inside diameter casing pipes
 - **O.Db :** Outside diameter bell



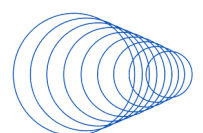
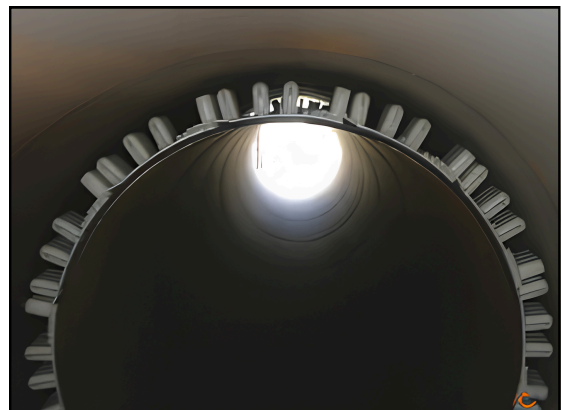
Consider a clearance of height min. 12-15 mm when selecting the maximum skid height.

Skids should be min. 15 mm higher than the OD of a bell.

Number of spacers = Length of the crossing/recommended distance +3



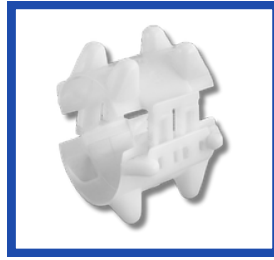
Rollers for CaseCore Pipe Spacer Raci



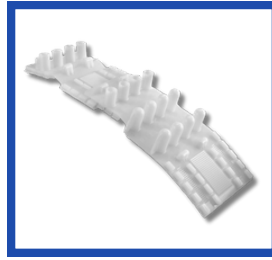
● CASECORE PIPE SPACER RACI SERIES



A/B TYPE SPACERS



S/T TYPE SPACERS



F/G TYPE SPACERS



ICD TYPE SPACERS



M/N TYPE SPACERS



E/H TYPE SPACERS



L TYPE SPACERS

● PLASTIC ROLLERS



E41 ROLLER TYPE SPACERS



ROLLERS FOR PIPE SPACER RACI

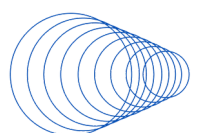
● ACCESSORIES



FASTENING CLAMPS



TIGHTENING LEVER FOR F/G SPACERS



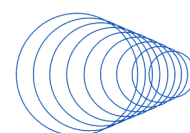
A/B TYPE SPACERS

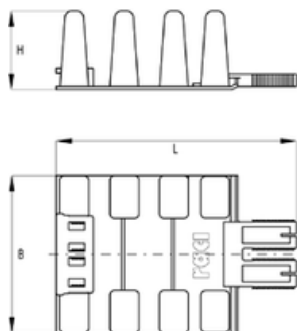
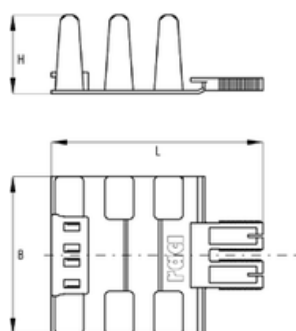
	MAX. LOAD CAPACITY 180 kg/ring
	SKID HEIGHTS 19, 36 and 50mm
	LENGTH OF ELEMENTS Type A: 105-122mm Type B: 87-103mm
	WIDTH 100 mm

OD Pipe in MM		No. of Elements per Ring		Skid Height in mm			Distance recommended in m
Min.	Max.	A	B	19	36	50	Max. Static Capacity 180 kg/ring
55.4	65.6 *		2	CCPS-17140	CCPS-17140	CCPS-17185	1.5 m
61.3	71.5 *	1	2	CCPS-17141	CCPS-17171	CCPS-17186	1.5 m
67.3	77.4 *	2		CCPS-17142	CCPS-17172	CCPS-17187	1.5 m
82.9	94.4		3	CCPS-17143	CCPS-17173	CCPS-17188	1.5 m
89.1	104.3	1	2	CCPS-17144	CCPS-17174	CCPS-17189	1.5 m
101.1	116	3		CCPS-17145	CCPS-17175	CCPS-17190	1.5 m
110.8	131.2		4	CCPS-17146	CCPS-17176	CCPS-17191	1.5 m
116.6	137.1	1	3	CCPS-17147	CCPS-17177	CCPS-17192	1.5 m
134.7	154.8	4		CCPS-17148	CCPS-17178	CCPS-17193	1.5 m
150.3	175.8	2	3	CCPS-17149	CCPS-17179	CCPS-17194	1.5 m
168.5	193.5	5		CCPS-17150	CCPS-17180	CCPS-17195	1.5 m
193.5**	229.6 **		7	CCPS-17151	CCPS-17181	CCPS-17196	1.0 m
202.2**	232.2**	6		CCPS-17152	CCPS-17182	CCPS-17197	1.0 m
230**	254 **	6	1	CCPS-17153	CCPS-17183	CCPS-17198	1.0 m
255**	279 **	7	1	CCPS-17155	CCPS-17138	CCPS-17139	1.0 m
280**	309.6 **	8		CCPS-17154	CCPS-17184	CCPS-17199	1.0 m

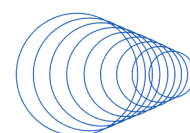
**S/T spacers are preferred for these sizes*

***M/N spacers are recommended for these sizes*

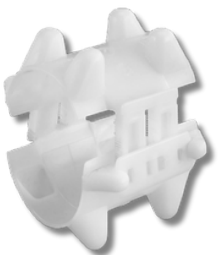


A TYPE SPACERS

B TYPE SPACERS

A/B TYPE SPACERS PRODUCT GROUP

Type	Product Code	Skid Height	PU
A	CCPS-17010	19 mm	140
	CCPS- 17011	36 mm	110
	CCPS- 17012	50 mm	80
B	CCPS-17015	19 mm	140
	CCPS- 17016	36 mm	110
	CCPS- 17017	50 mm	80

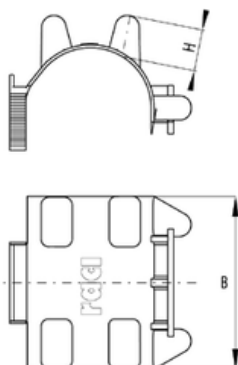


● S/T TYPE SPACERS

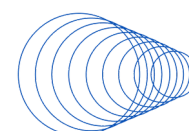
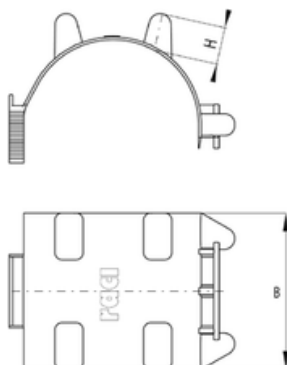
	MAX. LOAD CAPACITY 110 kg/ring
	SKID HEIGHTS 19 mm
	LENGTH OF ELEMENTS Type S: 92-109 mm Type T: 117-132 mm
	WIDTH 85 mm

OD Pipe in MM		No. of Elements / Ring		Skid height in mm	Max. Distance recommended in m
Min.	Max.	S	T	19	Max. static capacity 110 kg/ring
59	68	2		CCPS-17120	1.5 m
69	75	1	1	CCPS-17121	1.5 m
76	84		2	CCPS-17122	1.5 m
88	102	3		CCPS-17123	1.5 m
103	107	2	1	CCPS-17124	1.5 m
108	114	1	2	CCPS-17125	1.5 m
115	120	1	2	CCPS-17126	1.5 m
121	132	4		CCPS-17127	1.5 m
133	140	3	1	CCPS-17128	1.5 m
141	146	2	2	CCPS-17129	1.5 m
147	152	1	3	CCPS-17130	1.5 m
153	168		4	CCPS-17131	1.5 m

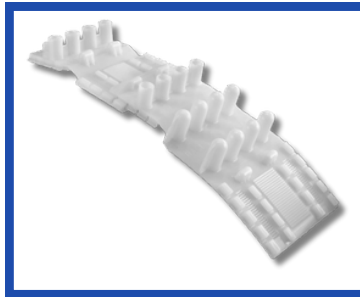
S TYPE SPACERS



T TYPE SPACERS



F/G TYPE SPACERS



MAX. LOAD CAPACITY
500 kg/ring

SKID HEIGHTS
25, 41, AND 60 mm

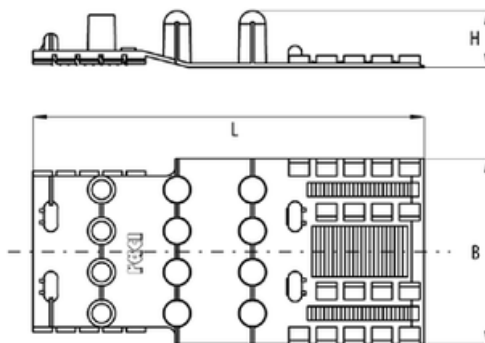
LENGTH OF ELEMENTS
Type F: 198-228 mm
Type G: 95-121 mm

WIDTH
130 mm

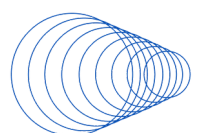
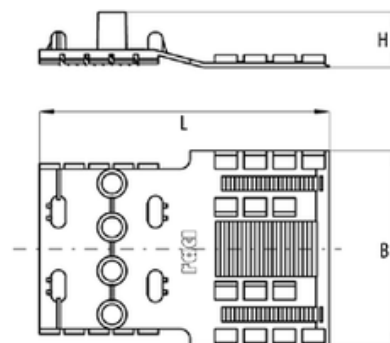
OD Pipe in MM		No. of Elements / Ring		Skid Height in mm			Max. Distance recommended
Min.	Max.	F	G	25	41	60	
116*	145*	2		CCPS-17200	CCPS-17220	CCPS-17240	2 m
124*	150*	1	2	CCPS-17201	CCPS-17221	CCPS-17241	2 m
154	182	2	1	CCPS-17202	CCPS-17222	CCPS-17242	2 m
189	217	3		CCPS-17203	CCPS-17223	CCPS-17243	2 m
219	256	3	1	CCPS-17204	CCPS-17224	CCPS-17244	1.5 m
254	282	4		CCPS-17205	CCPS-17225	CCPS-17245	1.5 m
283	315	4	1	CCPS-17206	CCPS-17226	CCPS-17246	1.5 m
316	345	5		CCPS-17207	CCPS-17227	CCPS-17247	1.5 m

**S/T or A/B spacers are recommended for these pipe sizes*

F TYPE SPACERS



G TYPE SPACERS



ICD TYPE SPACERS



MAX. LOAD CAPACITY
200 kg/ring

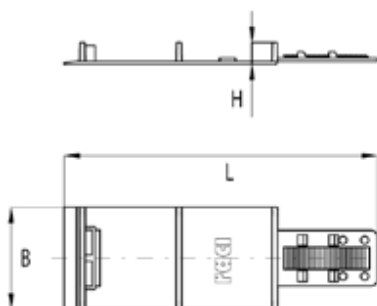
SKID HEIGHTS
15 mm

LENGTH OF ELEMENTS
Type I: 130-160 mm
Type C: 180-250 mm
Type D: 240-310 mm

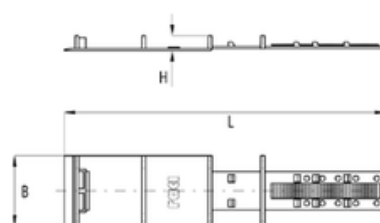
WIDTH
63 mm

OD Pipe in MM		No. of Elements / Ring			Skid Height in mm	Max. Distance recommended
Min.	Max.	I	C	D	15	
42	52	1			CCPS-17100	1 m
58	79		1		CCPS-17101	1 m
80	93			1	CCPS-17102	1 m
94	100	2			CCPS-17103	1 m
101	120	1	1		CCPS-17104	1 m
121	145		2		CCPS-17105	1 m
146	165		1	1	CCPS-17106	1 m
166	197			2	CCPS-17107	1 m

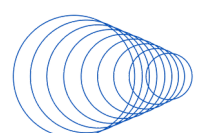
I TYPE SPACERS



C TYPE SPACERS



D TYPE SPACERS



M/N TYPE SPACERS



MAX. LOAD CAPACITY
1,000 kg/ring

SKID HEIGHTS
18, 36, 50, 75 and 90 mm

LENGTH OF ELEMENTS
Type M: 265-320 mm
Type N: 185-240 mm

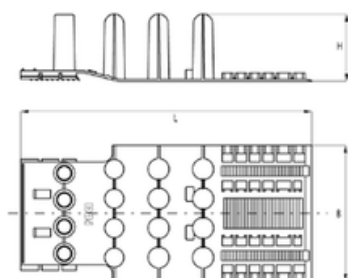
WIDTH
180 mm

OD Pipe in MM		No. of Elements / Ring		Skid Height in mm					Max. Distance recommended
Min.	Max.	M	N	18	36	50	75	90	Max. Static Capacity 1000kg/ring
160*	201	2		CCPS-17260	CCPS-17280	CCPS-17300	CCPS-17320	CCPS-17340	2 m
202	227	1	2	CCPS-17261	CCPS-17281	CCPS-17301	CCPS-17321	CCPS-17341	2 m
228	252	2	1	CCPS-17262	CCPS-17280	CCPS-17302	CCPS-17322	CCPS-17342	2 m
253	286	3		CCPS-17263	CCPS-17282	CCPS-17303	CCPS-17323	CCPS-17343	2 m
287	311	2	2	CCPS-17264	CCPS-17283	CCPS-17304	CCPS-17324	CCPS-17344	2 m
312	337	3	1	CCPS-17265	CCPS-17284	CCPS-17305	CCPS-17325	CCPS-17345	2 m
338	395	4		CCPS-17266	CCPS-17285	CCPS-17306	CCPS-17326	CCPS-17346	2 m
396	421	4	1	CCPS-17267	CCPS-17286	CCPS-17307	CCPS-17327	CCPS-17347	2 m
422	505	5		CCPS-17268	CCPS-17287	CCPS-17308	CCPS-17328	CCPS-17348	2 m
506	590	6		CCPS-17269	CCPS-17288	CCPS-17309	CCPS-17329	CCPS-17349	1.5 m
591	674	7		CCPS-17270	CCPS-17290	CCPS-17310	CCPS-17330	CCPS-17350	1.5 m
675	759	8		CCPS-17271	CCPS-17291	CCPS-17311	CCPS-17331	CCPS-17351	1.5m

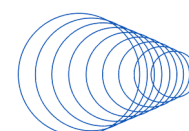
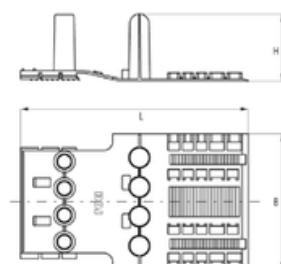
Use tightening clamp Type F/G, M/N, L

***F/G spacers are recommended for these pipe sizes**

M TYPE SPACERS



N TYPE SPACERS



E/H TYPE SPACERS



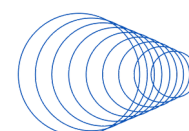
MAX. LOAD CAPACITY
2,700 kg/ring

SKID HEIGHTS
25, 41, 60, 90, 110, 130 mm

LENGTH OF ELEMENTS
Type E: 280-320 mm
Type H: 130-170 mm

WIDTH
225 mm

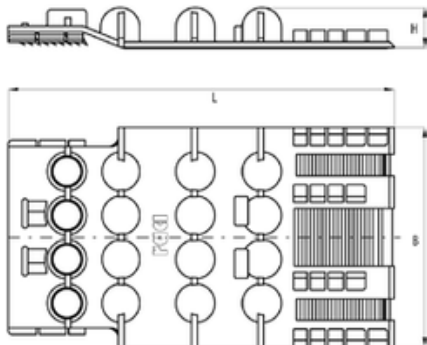
OD Pipe in MM		No. of Elements / Ring		Skid height in mm						Max. Distance recommended
Min.	Max.	E	H	25	41	60	90	110	130	Max. Static Capacity 2700 kg/ring
306*	354	3	1	CCPS-17362	CCPS-17402	CCPS-17442	CCPS-17482	CCPS-17522	CCPS-17562	2 m
355	397	4		CCPS-17363	CCPS-17403	CCPS-17443	CCPS-17483	CCPS-17523	CCPS-17563	2 m
398	457	4	1	CCPS-17364	CCPS-17404	CCPS-17444	CCPS-17484	CCPS-17524	CCPS-17564	2 m
458	489	5		CCPS-17365	CCPS-17445	CCPS-17485	CCPS-17485	CCPS-17525	CCPS-17565	2 m
490	549	5	1	CCPS-17366	CCPS-17406	CCPS-17446	CCPS-17486	CCPS-17525	CCPS-17566	2 m
550	580	6		CCPS-17367	CCPS-17407	CCPS-17447	CCPS-17487	CCPS-17527	CCPS-17567	2 m
581	641	6	1	CCPS-17368	CCPS-17408	CCPS-17448	CCPS-17488	CCPS-17528	CCPS-17568	2 m
642	732	7		CCPS-17469	CCPS-17409	CCPS-17449	CCPS-17489	CCPS-17529	CCPS-17569	2 m
733	800	8		CCPS-17370	CCPS-17410	CCPS-17450	CCPS-17490	CCPS-17530	CCPS-17570	1.8 m
801	900	9		CCPS-17371	CCPS-17411	CCPS-17451	CCPS-17491	CCPS-17531	CCPS-17571	1.8 m
901	1000	10		CCPS-17372	CCPS-17412	CCPS-17452	CCPS-17492	CCPS-17532	CCPS-17572	1.8 m
1001	1099	11		CCPS-17373	CCPS-17413	CCPS-17453	CCPS-17493	CCPS-17533	CCPS-17573	1.8m
1100	1191	12		CCPS-17374	CCPS-17414	CCPS-17454	CCPS-17494	CCPS-17534	CCPS-17574	1.8 m
1192	1283	13		CCPS-17375	CCPS-17415	CCPS-17455	CCPS-17495	CCPS-17535	CCPS-17575	1.5 m
1294	1374	14		CCPS-17376	CCPS-17416	CCPS-17456	CCPS-17496	CCPS-17536	CCPS-17576	1.5 m
1375	1466	15		CCPS-17377	CCPS-17417	CCPS-17457	CCPS-17497	CCPS-17537	CCPS-17577	1.2 m
1467	1558	16		CCPS-17378	CCPS-17418	CCPS-17458	CCPS-17498	CCPS-175378	CCPS-17578	1.2 m



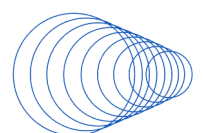
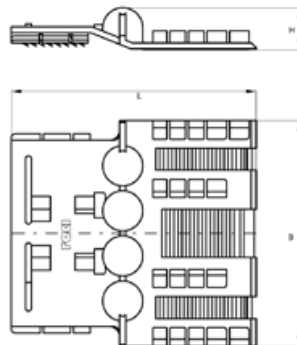
OD Pipe in MM		No. of Elements / Ring		Skid height in mm						Max. Distance recommended
Min.	Max.	E	H	25	41	60	90	110	130	Max. Static Capacity 2700 kg/ring
1559	1650	17		CCPS-17379	CCPS-17419	CCPS-17459	CCPS-17499	CCPS-17539	CCPS-17579	1.2 m
1651	1741	18		CCPS-17380	CCPS-17420	CCPS-17460	CCPS-17500	CCPS-17540	CCPS-17580	1 m
1742	1833	19		CCPS-17381	CCPS-17421	CCPS-17461	CCPS-17501	CCPS-17541	CCPS-17581	1 m
1834	1925	20		CCPS-17382	CCPS-17422	CCPS-17462	CCPS-17502	CCPS-17542	CCPS-17582	0.8 m
1926	2108	21		CCPS-17383	CCPS-17423	CCPS-17463	CCPS-17503	CCPS-17543	CCPS-17583	0.7 m
2109	2200	23		CCPS-17384	CCPS-17424	CCPS-17464	CCPS-17504	CCPS-17544	CCPS-17584	0.7 m
2201	2292	24		CCPS-17385	CCPS-17425	CCPS-17465	CCPS-17505	CCPS-17545	CCPS-17585	0.7 m

***M/N spacers are recommended for these sizes**

E TYPE SPACERS



H TYPE SPACERS



L TYPE SPACERS



MAX. LOAD CAPACITY
1750 kg/ring

SKID HEIGHTS
25,50,75,100,125,150,175,
and 200mm

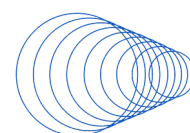
LENGTH OF ELEMENTS
Type L: 280-325mm

WIDTH
100 mm

OD Pipe in MM		No. of Elements / Ring	Skid height in mm				Max. Distance recommended
Min.	Max.		25	50	75	100	
355	397	4	CCPS-17587	CCPS-17602	CCPS-17619	CCPS-17634	2.5 m
450	510	5	CCPS-17588	CCPS-17603	CCPS-17620	CCPS-17635	2.5 m
540	610	6	CCPS-17589	CCPS-17604	CCPS-17621	CCPS-17636	2.5 m
625	715	7	CCPS-17590	CCPS-17605	CCPS-17622	CCPS-17637	2.5 m
715	805	8	CCPS-17591	CCPS-17606	CCPS-17623	CCPS-17638	2.5 m
805	895	9	CCPS-17592	CCPS-17607	CCPS-17624	CCPS-17639	2 m
895	985	10	CCPS-17593	CCPS-17608	CCPS-17625	CCPS-17640	2 m
985	1075	11	CCPS-17594	CCPS-17609	CCPS-17626	CCPS-17641	1.5 m
1075	1160	12	CCPS-17595	CCPS-17610	CCPS-17627	CCPS-17642	1 m
1160	1250	13	CCPS-17596	CCPS-17611	CCPS-17628	CCPS-17643	1 m
1250	1340	14	CCPS-17597	CCPS-17612	CCPS-17629	CCPS-17644	1 m
1340	1430	15	CCPS-17598	CCPS-17613	CCPS-17630	CCPS-17645	0.8 m
1430	1520	16	CCPS-17599	CCPS-17614	CCPS-17631	CCPS-17646	0.8 m
1520	1610	17	CCPS-17600	CCPS-17615	CCPS-17632	CCPS-17647	0.5 m
1610	1750	18	CCPS-17601	CCPS-17616	CCPS-17633	CCPS-17618	0.5 m

***Skid height 25 and 100 mm: max. static capacity 3000kg/ring**

***Skid height 75 and 100 mm: max. static capacity 2500kg/ring**



L TYPE SPACERS



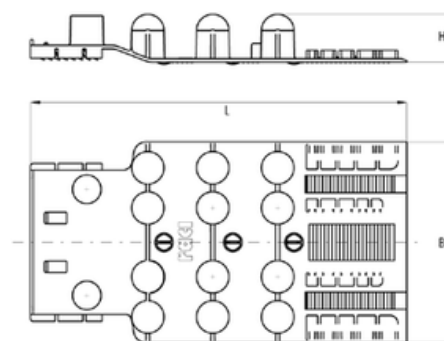
MAX. LOAD CAPACITY
1750 kg/ring

SKID HEIGHTS
25,50,75,100,125,150,175,
and 200mm

LENGTH OF ELEMENTS
Type A: 105-122mm
Type B: 87-103mm

WIDTH
100 mm

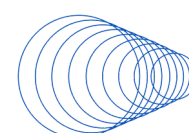
L TYPE SPACERS



OD Pipe in MM		No. of Elements / Ring	Skid height in mm				Max. Distance recommended
Min.	Max.		125	150	175	200	
355	397	4	CCPS-17648	CCPS-17663	CCPS-17678	CCPS-17840	2.5 m
450	510	5	CCPS-17649	CCPS-17664	CCPS-17679	CCPS-17841	2.5 m
540	610	6	CCPS-17650	CCPS-17665	CCPS-17680	CCPS-17842	2.5 m
625	715	7	CCPS-17651	CCPS-17666	CCPS-17681	CCPS-17843	2.5 m
715	805	8	CCPS-17652	CCPS-17667	CCPS-17682	CCPS-17844	2.5 m
805	895	9	CCPS-17653	CCPS-17668	CCPS-17683	CCPS-17845	2 m
895	985	10	CCPS-17654	CCPS-17669	CCPS-17684	CCPS-17846	2 m
985	1075	11	CCPS-17655	CCPS-17670	CCPS-17685	CCPS-17847	1.5 m
1075	1160	12	CCPS-17656	CCPS-17671	CCPS-17686	CCPS-17848	1 m
1160	1250	13	CCPS-17657	CCPS-17672	CCPS-17687	CCPS-17649	1 m
1250	1340	14	CCPS-17658	CCPS-17673	CCPS-17688	CCPS-17650	1 m
1340	1430	15	CCPS-17659	CCPS-17674	CCPS-17689	CCPS-17651	0.8 m
1430	1520	16	CCPS-17660	CCPS-17675	CCPS-17690	CCPS-17852	0.8 m
1520	1610	17	CCPS-17661	CCPS-17676	CCPS-17691	CCPS-17853	0.5 m
1610	1750	18	CCPS-17662	CCPS-17677	CCPS-17692	CCPS-17854	0.5 m

***Skid height 125 and 150 mm: max. static capacity 2000kg/ring**

***Skid height 175 and 200 mm: max. static capacity 1500kg/ring**

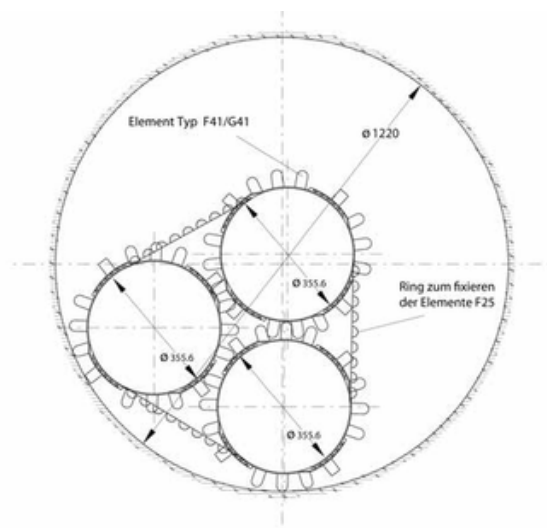


CUSTOM MULTI-PIPE SOLUTIONS

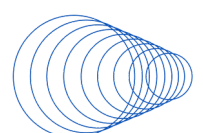
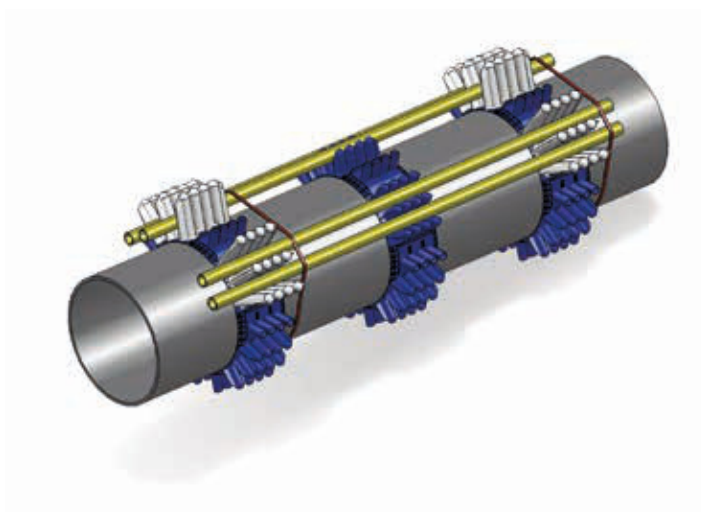
Need to install multiple carrier pipes within a single casing? Our team can design the optimal pipe bundle configuration or develop a customised solution tailored to your project requirements, ensuring reliable performance, efficient installation and long-term durability.



EXAMPLE BUNDLING



EXAMPLE CABLE CASING PIPES



● E41 ROLLER TYPER SPACERS: HIGH-PERFORMANCE PLASTIC ROLLERS

	MAX. LOAD CAPACITY 2,000 kg/ring
	SKID HEIGHT 41 mm
	LENGTH OF ELEMENTS 280-320 mm
	WIDTH 225 mm

These plastic spacer rings are a combination of the tried and trusted spacers in the series E/H with additional rollers **made from glass-fibre-reinforced high-performance plastic (PA30)**.

The roller elements have a ball shape that ensures a **particularly high load capacity**. The combination of materials and the stability of the roller axles mean that **frictional force is reduced** by up to 54% **during feedthrough**, in comparison to a feedthrough without rollers.

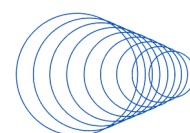
As this product does not contain any metallic connecting pieces, it is absolutely suitable for deployment with cathodically-protected steel pipeline constructions.

ADVANTAGES

- Rollers pre-installed by supplier
- Frictional force reduced by up to 54% during feedthrough
- Low roller height means they are suitable for use in tight spaces
- Completely metal-free design
- Fast and easy installation
- Our modular system ensures that this product is fully compatible with existing spacers and tools

Use tightening clamp Type E/H

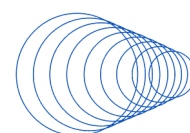
OD Pipe in MM		No. of Elements / Ring		Max. Distance recommended in mm
Min.	Max.	E41 Roller	H41*	
355	397	4		2
398	457	4	1	2
458	489	5		2
490	549	5	1	2
550	580	6		2
581	641	6	1	2
642	732	7		2
733	800	8		1.8
801	900	9		1.8



901	1000	10		1.8
1001	1099	11		1.8
1100	1191	12		1.8
1192	1283	13		1.5
1284	1374	14		1.5
1375	1466	15		1.2
1467	1558	16		1.2
1559	1650	17		1.2
1651	1741	18		1
1742	1833	19		1
1834	1925	20		0.8
2109	2200	23		0.7
2201	2292	24		0.7

***Type H41 is a connecting piece with only one row of skids without rollers**

Type	Length	Width (B)	Height (H)	Max. Load
	mm	mm	mm	kg
E41 Roller	280-320	225	41	2000



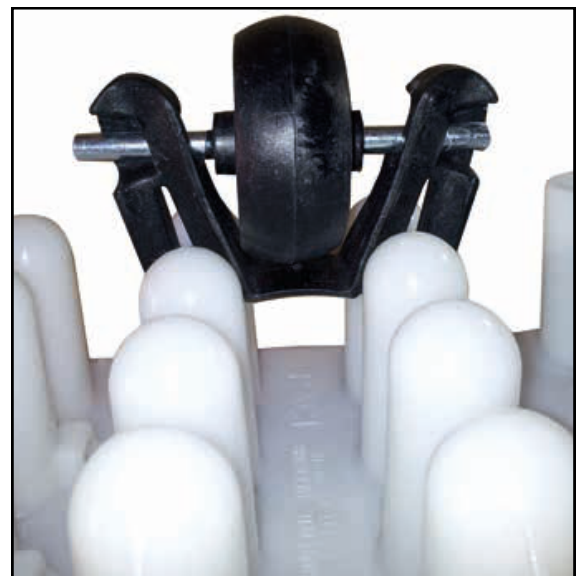
● M75 & E90 CASECORE PIPE SPACER ROLLERS



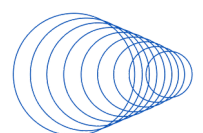
ROLLERS FOR SPACERS M75 AND E90

- Rollers pre-installed by supplier
- Frictional force reduced by up to 54% during feedthrough
- Low roller height means they are suitable for use in tight spaces
- Completely metal-free design
- Fast and easy installation
- Our modular system ensures that this product is fully compatible with existing spacers and tools

	M75	E90
Max. Load	300kg/Roller at vertical load	300kg/Roller at vertical load
Height	85mm overall	110mm overall



Plug rollers into the flat spacer before fastening onto pipe



● INSTALLATION GUIDE

Before installation, select the appropriate CaseCore Pipe Spacer Raci type and determine the correct number of spacer elements required for each ring using the recommended selection tables. For optimum carrier pipe support and alignment, install double spacer rings at both the entry and exit points of the casing pipe.

Step 1 – Pre-Assemble the Spacer Ring

Partially assemble the required number of spacer elements by engaging each connection with **two or three locking teeth**. **Do not fully close the ring at this stage.**

Position each spacer ring at the specified location on the carrier pipe and apply PE-reinforced anti-slip tape beneath each ring to prevent movement during installation.

Step 2 – Position the Spacer Ring

Wrap the partially assembled spacer ring around the carrier pipe and complete the ring by engaging the remaining locking teeth. Ensure all elements are correctly aligned before tightening.

Step 3 – Secure the Spacer Ring

Tighten each connection evenly around the ring until the spacer is firmly secured to the carrier pipe. Apply uniform pressure to every connection to ensure the ring is centred correctly and the load is distributed evenly. Avoid over-tightening individual connections before the entire ring has been secured.

Step 4 – Final Inspection

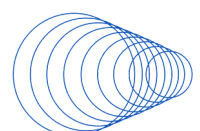
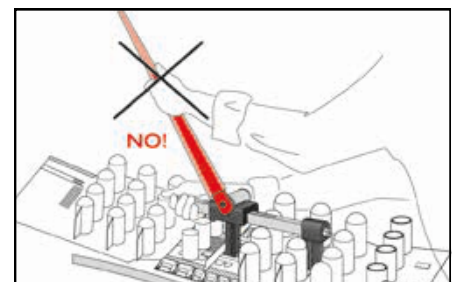
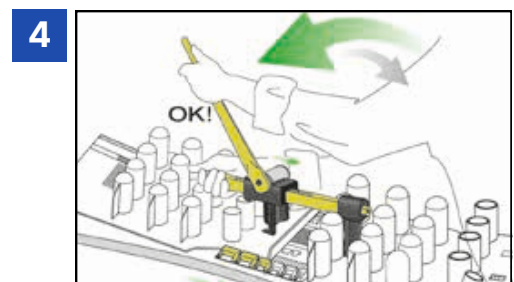
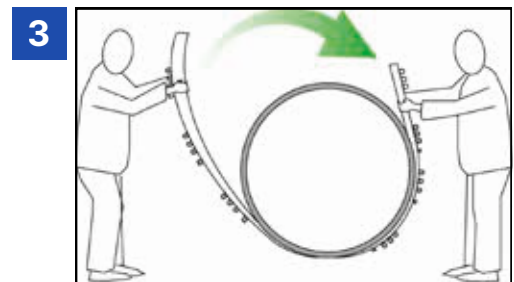
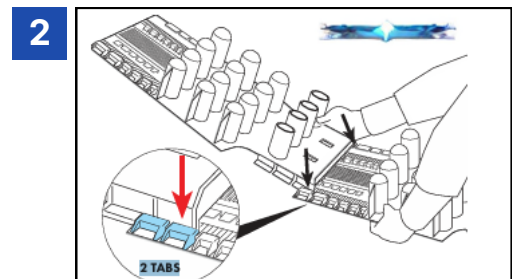
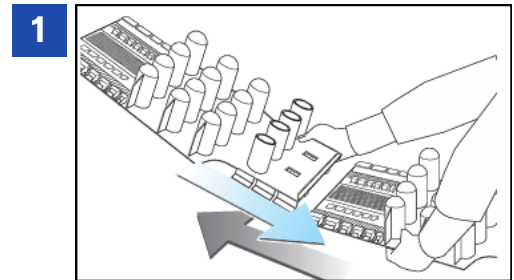
Check that all spacer element connections have a minimum engagement of 50%, with approximately two-thirds overlap recommended for optimum performance and long-term stability.

Position each spacer ring at the specified location on the carrier pipe and apply PE-reinforced anti-slip tape beneath each ring to prevent movement during installation.

NO Special clamp for type A/B, S/T and I/C/D

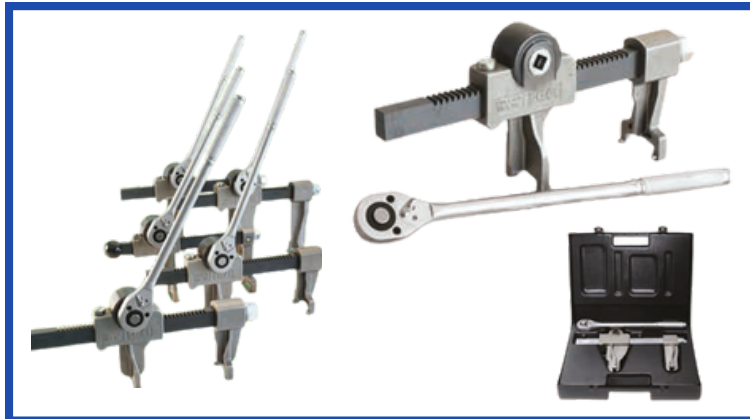


Assembly with F/G tightening lever



● ACCESSORIES

FASTENING CLAMPS



- Screwless and easy fixing tool
- High quality steel lever
- Long lever allows easy application
- Hardened main steel bar
- Usable in both directions
- Left and right hand use possible
- Supplied in high quality tool box

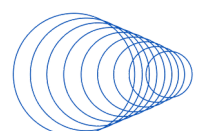
Specifications	Skid Height	Product Code
Fastening clamp for Type M/N, F/G and L	90 mm	CCPS-17070
Fastening clamp for Type M/N and L	200 mm	
Fastening clamp for Type E/H		
Rent Fastening clamp M/N: 10% per month		CCPS-17077

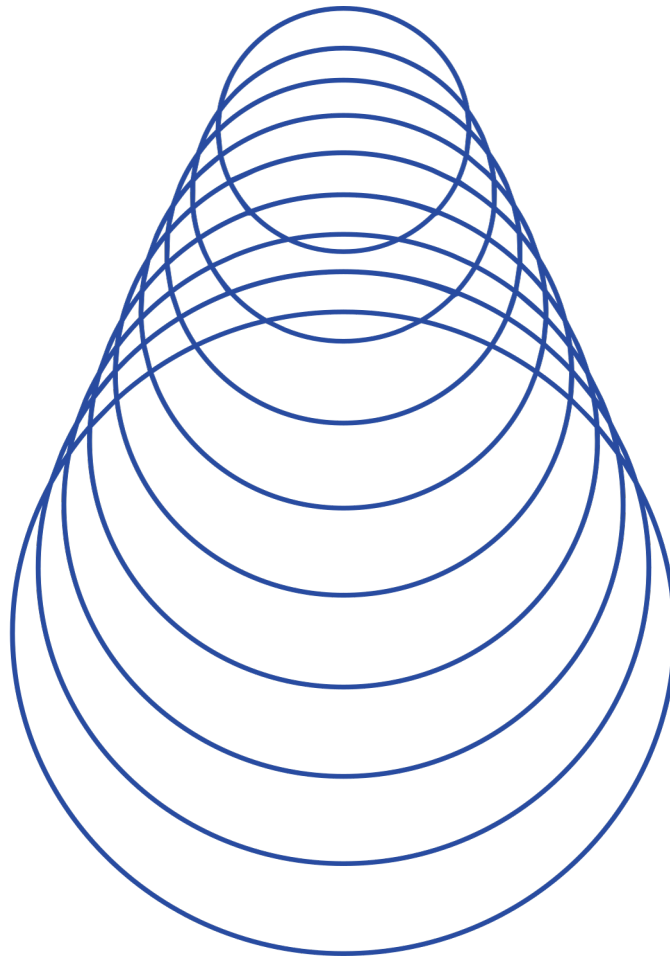
TIGHTENING LEVER FOR F/G SPACERS



- Screwless and easy fixing tool
- High quality steel lever
- Long lever allows easy application
- Hardened main steel bar
- Usable in both directions
- Left and right hand use possible
- Supplied in high quality tool box

Specifications	Product Code
Fastening clamp for Type F/G*	CCPS-17076





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