

EPOXY HUBLESS CAST IRON PIPE & FITTINGS

BS EN 877: 1999 + A1: 2006



Updated on: 2026.07.06

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QUALITY ASSURANCE



- Our CC Brand Cross linking epoxy coated Hubless pipes & fittings are manufactured & tested with strict quality control to meet requirements of EN 877.
- High grade & quality of cast irons are used in all the castings & manufacturing of our CC Brand pipes & fittings.
- Performance, application & integrity of epoxy used for coating our pipes & fittings meet to the stringent tests as complying with EN 877 inclusive of chemical resistance & hot water test.
- Good grade austenitic steel (stainless steel) are used for all our couplings.

BENEFITS OF **CC** CAST IRON PIPE SYSTEM



Non-Combustible

- Cast iron provides unsurpassed fire resistance.
- Cast iron does not burn, does not give off gas when heated to temperatures normally encountered in structure fires.
- The resistance to burning has the added benefit of requiring simple and low-cost fire stopping material for the annular space.



Low Acoustic Noise

- Cast iron is often referred to as the quiet pipe because of its superior noise suppression.
- The lamellar graphite structures in cast iron pipes are good at vibration absorption and noise suppression. The noise from rushing wastewater is 6-10 db lower than PVC pipe and 15 db lower than ABS pipe.
- Cast iron is ideal for condominiums, hotels, healthcare facilities and educational institutions.



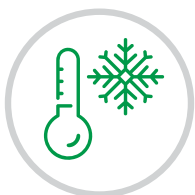
Durability

- Cast iron is an alloy with a high carbon content, making it resistant to corrosion.
- Cast iron pipes have been used since the early days with record going back to 1623 at the Fountains of Versailles in France which is still in function today.



Easy to Install & Service

- Cast iron pipe and fittings are joined together with No-hub couplings consisting of neoprene gaskets and stainless steel shields and bands. These can be assembled or disassembled very easily.
- Cast iron is time and money saving by taking advantage of the simplicity of the No-hub system.
- Cast iron is resistant to quakes, temperature extremes, invasion of roots and rodents biting, making it low maintenance service.



Low Thermal Expansion Rate

- Cast iron has low linear expansion coefficient, which ensures negligible effect of expansion or contraction on it under shifting ambient temperatures.



Environmentally Friendly

- Cast iron does not contain toxic substance and is eco friendly material.
- Cast iron is 100% recyclable and can be recycled an infinite amount of times.

PROJECT REFERENCE

Some of our CC epoxy pipes and fittings are seen in these project references:

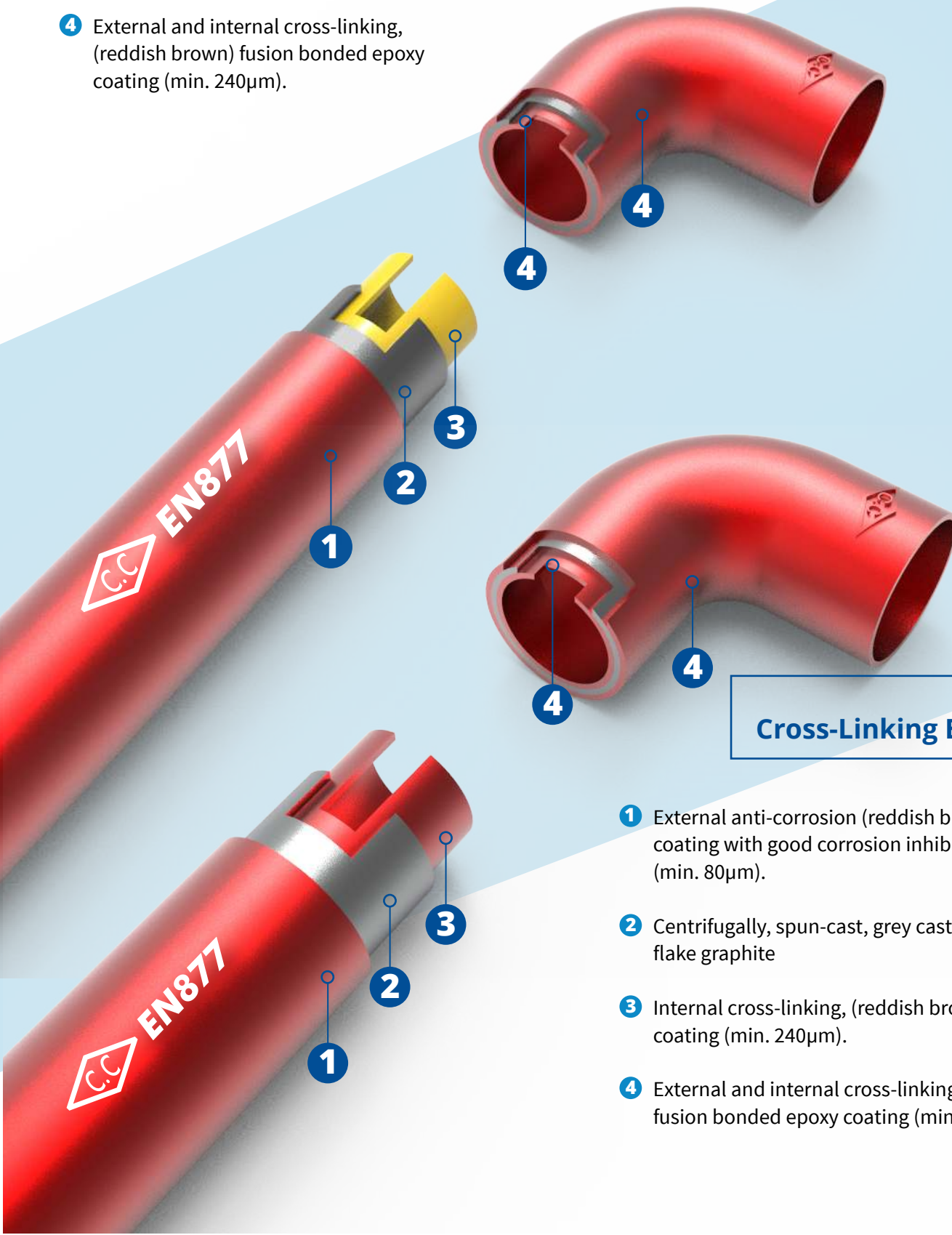


The epoxy coating provides a reinforced protection on the pipes and fittings. This enhanced protection are suitable for use in commercial applications where durability and reliability is required.



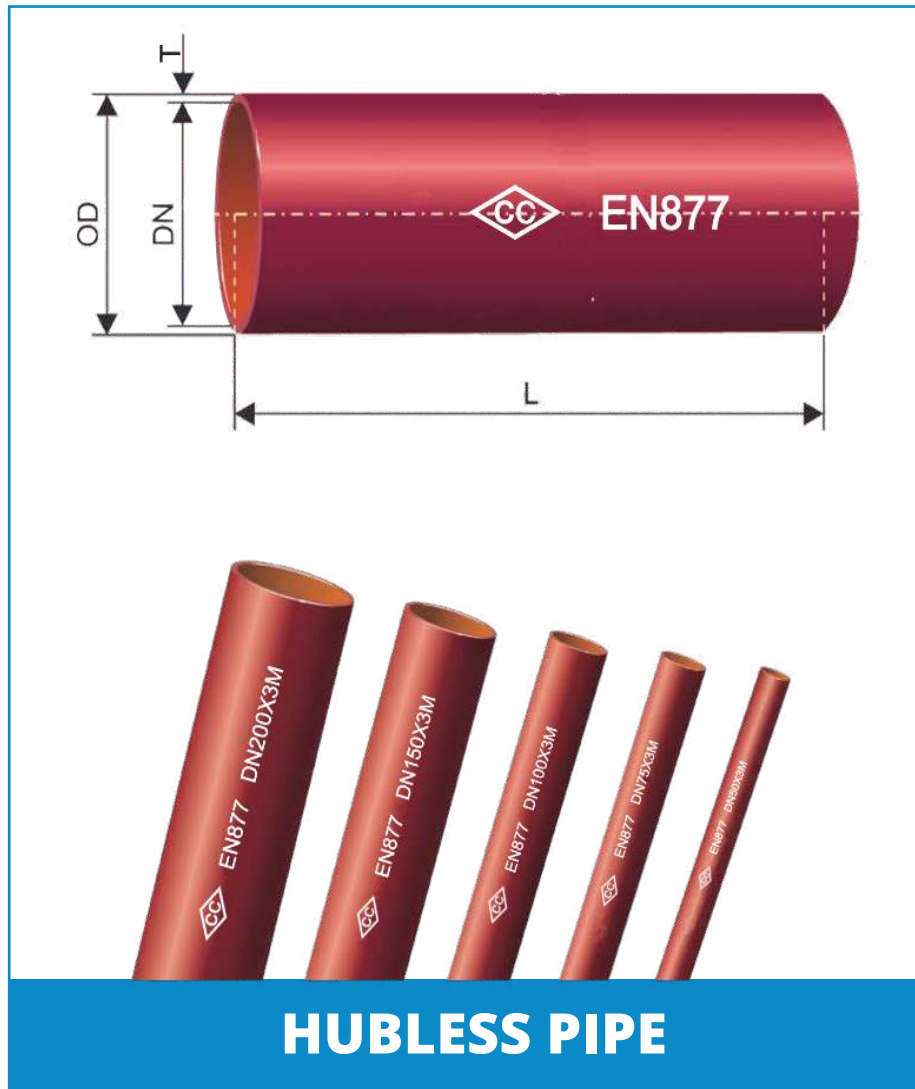
Cross-Linking Epoxy Coating

- 1 External anti-corrosion (reddish brown) protective coating with good corrosion inhibiting properties (min. 80µm).
- 2 Centrifugally, spun-cast, grey cast iron pipe with flake graphite.
- 3 Internal cross-linking, (yellow) epoxy resin coating (min. 120µm).
- 4 External and internal cross-linking, (reddish brown) fusion bonded epoxy coating (min. 240µm).

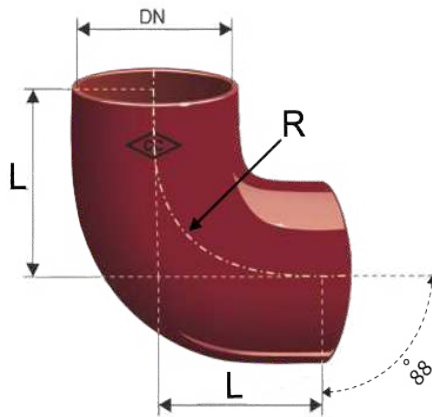


240-MICRON Cross-Linking Epoxy Coating

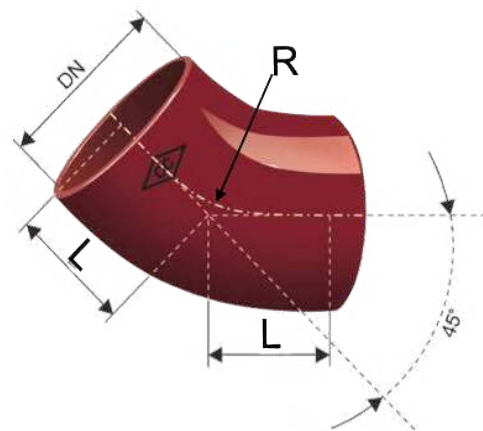
- 1 External anti-corrosion (reddish brown) protective coating with good corrosion inhibiting properties (min. 80µm).
- 2 Centrifugally, spun-cast, grey cast iron pipe with flake graphite
- 3 Internal cross-linking, (reddish brown) epoxy resin coating (min. 240µm).
- 4 External and internal cross-linking, (reddish brown) fusion bonded epoxy coating (min. 240µm).



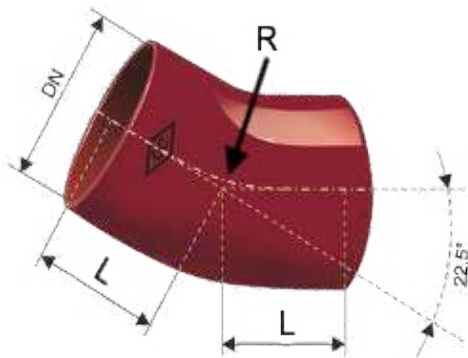
DN	Outer Diameter (D)	Wall Thickness (T)	Length (L)	Weight
	mm	mm	mm	Kg
50	57 - 60	3.0 - 4.0	2990 - 3000	13
75	82 - 85	3.0 - 4.0	2990 - 3000	18.9
100	109 - 112	3.0 - 4.0	2990 - 3000	25.2
150	158 - 162	3.5 - 4.5	2990 - 3000	42.2
200	207.8 - 212.2	4.0 - 5.0	2990 - 3000	69.3
250	271.8 - 276.2	4.5 - 5.5	2990 - 3000	99.8
300	323.8 - 328.2	5.0 - 6.0	2990 - 3000	129.7


88° Bend

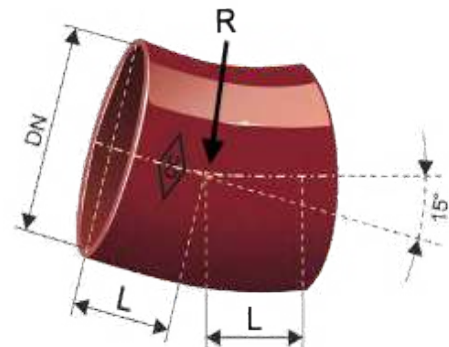
DN	L	R	Weight
Size	mm	mm	kg
50	75	46	0.7
75	95	62	1.2
100	110	72	2.2
150	145	98	4.5
200	175	120	8.4
250	220	155	14
300	260	185	21.6


45° Bend

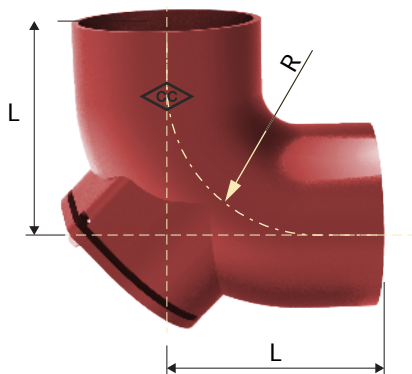
DN	L	R	Weight
Size	mm	mm	kg
50	50	48	0.5
75	60	60	1.0
100	70	72	1.5
150	90	96	3.1
200	110	120	5.9
250	130	145	9.5
300	155	180	15.8


22.5° Bend

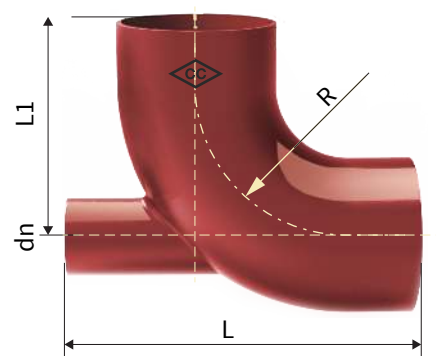
DN	L	R	Weight
Size	mm	mm	kg
75	50	60	0.7
100	55	72	1.4
150	70	96	2.8
200	100	120	4.9
250	120	145	9.1
300	140	170	14.5


15° Bend

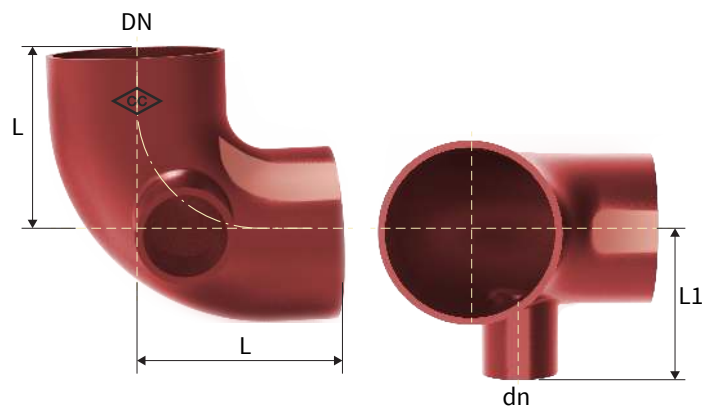
DN	L	R	Weight
Size	mm	mm	kg
50	40	48	0.4
75	50	60	0.6
100	50	72	1.0
150	65	96	2.0
200	80	120	4.0

**88° Bend with Access Door**

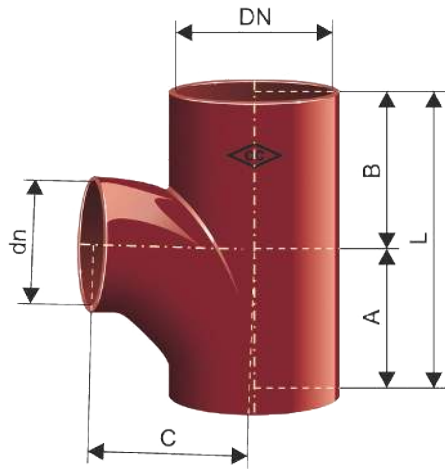
DN	L	R	Weight
Size	mm	mm	kg
50	75	46	1.2
75	95	62	2.0
100	110	72	3.1
150	145	98	6.8
200	175	120	11.0
250	220	145	16.9

**88° Bend with Heel Opening**

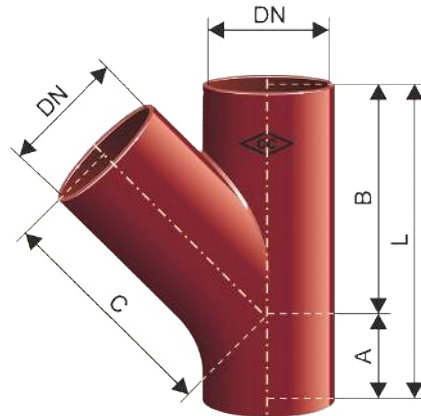
DN	dn	L	L1	R	Weight
Size	size	mm	mm	mm	kg
100	50	225	140	100	2.8

**88° Bend with Side Opening**

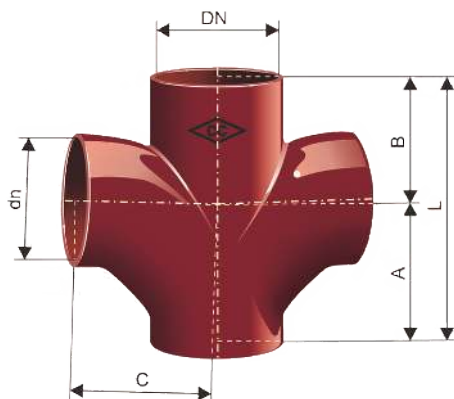
DN	dn	L	L1	Weight
Size	size	mm	mm	kg
100	50	110	95	2.7

**88° Branch (Tee)**

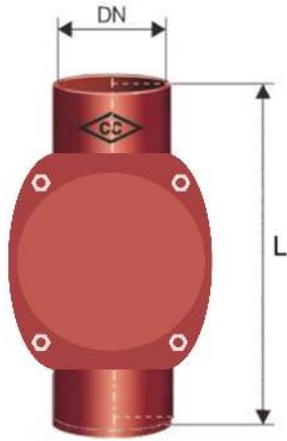
DN	dn	L	A	B	C	Weight
Size	size	mm	mm	mm	mm	kg
50	50	145	79	66	80	1.0
75	50	155	84	71	95	1.5
75	75	180	95	85	95	1.8
100	50	165	88	77	110	2.1
100	75	190	100	90	110	2.4
100	100	220	115	105	115	2.9
150	50	190	103	87	140	3.8
150	75	215	115	100	140	4.6
150	100	245	130	115	145	4.9
150	150	295	153	142	155	6.3
200	100	270	144	126	175	7.8
200	150	320	168	152	185	8.9
200	200	365	173	192	185	11.1
250	100	310	160	150	215	18.2
250	150	340	170	170	230	13.8
250	200	420	224	196	245	17.3
250	250	455	230	225	230	19.0
300	150	370	195	175	255	19.2
300	200	420	220	200	260	23.5
300	250	520	280	240	305	30.4
300	300	530	270	260	270	30.1

**45° Branch (Y-Tee)**

DN	dn	L	A	B	C	Weight
Size	size	mm	mm	mm	mm	kg
50	50	160	45	115	115	1.1
75	50	165	35	130	130	1.6
75	75	205	55	150	150	2.2
100	50	180	30	150	150	2.2
100	75	215	45	170	170	2.9
100	100	255	65	190	190	3.6
150	75	235	30	205	205	4.6
150	100	275	50	225	225	5.7
150	150	350	85	265	265	8.9
200	100	295	35	260	260	8.5
200	150	370	70	300	300	12.0
200	200	450	110	340	340	16.6
250	100	330	15	315	315	13.6
250	150	385	50	335	332	16.4
250	250	560	130	430	430	29.9
300	150	435	52	383	378	23.8
300	300	655	161	494	494	44.2

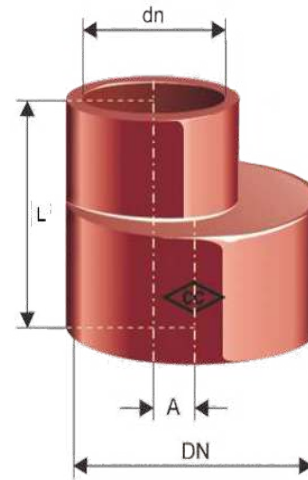
**Double Branch 88° (Cross Tee)**

DN	dn	L	A	B	C	Weight
Size	size	mm	mm	mm	mm	kg
100	50	165	88	77	110	2.2
100	75	190	102	88	107	2.8
100	100	220	115	105	115	2.7
150	100	245	130	115	145	4.9



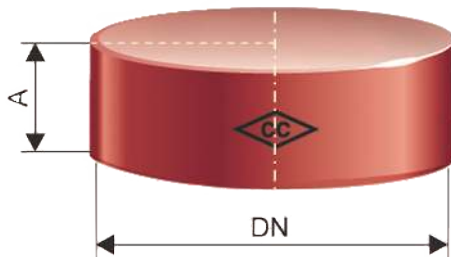
Short Pipe with Access Door

DN	L	Weight
Size	mm	kg
75	200	2.3
100	215	3.0
150	300	8.8
200	320	9.9
250	330	14.9
300	350	20.4



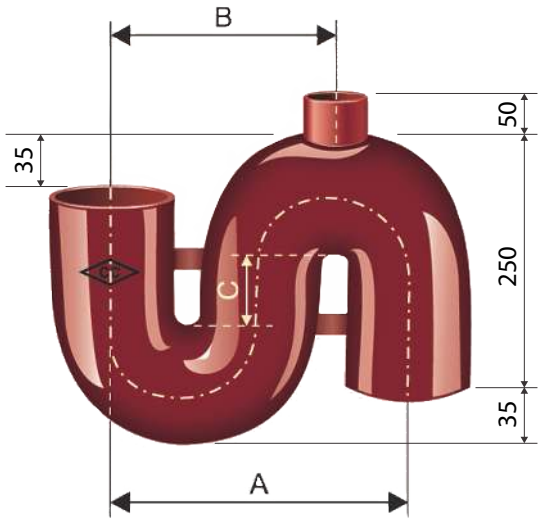
Eccentric Reducer

DN	dn	L	A	Weight
Size	size	mm	mm	kg
75	50	75	12.5	0.7
100	50	80	25	1.0
100	75	85	13.5	1.1
150	100	105	25	2.6
200	100	115	50	4.2
200	150	125	25	4.5
250	100	125	75	5.7
250	150	135	57	6.9
250	200	145	32	7.2
300	150	150	83	10.6
300	200	160	58	11.1



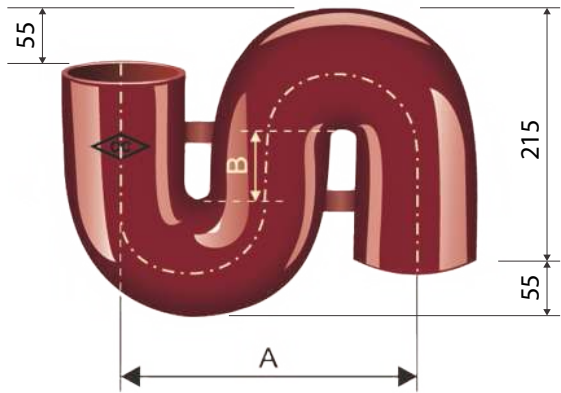
End Caps

DN	L	Weight
Size	mm	kg
50	30	0.2
75	35	0.4
100	40	0.7
150	50	1.6
200	60	3.1
250	70	5.7
300	80	8.1



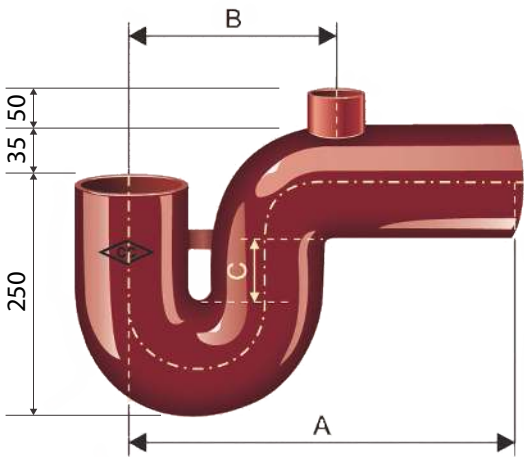
S-Trap with Vent
(DN100 X DN100 X DN50)

A	B	C	Weight
mm	mm	mm	kg
303	228	66	9.4



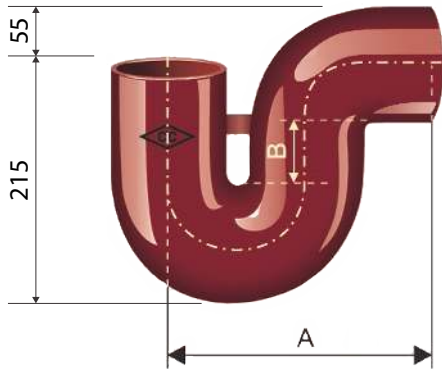
S-Trap
(DN100 X DN100)

A	B	Weight
mm	mm	kg
280	47	7.2



P-Trap with Vent
(DN100 X DN100 X DN50)

A	B	C	Weight
mm	mm	mm	kg
355	223	66	8.0



P-Trap
(DN100 X DN100)

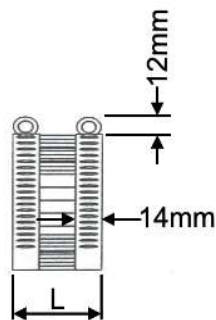
A	B	Weight
Size	mm	kg
250	50	5.7

Stainless Steel Type-A Coupling

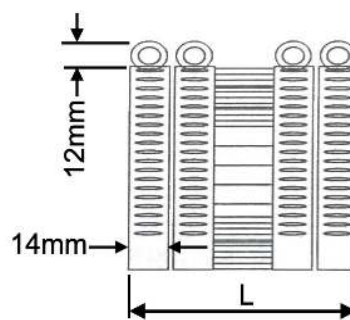
Stainless Steel Clip and Rubber Sleeve for
connecting of Hubless Pipes & Fittings



DN50 ~ DN100

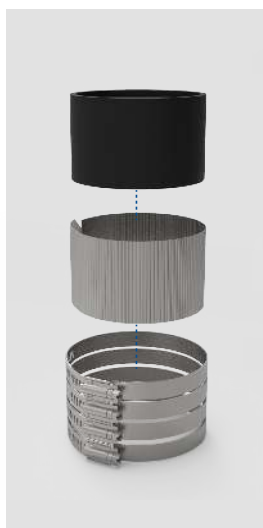
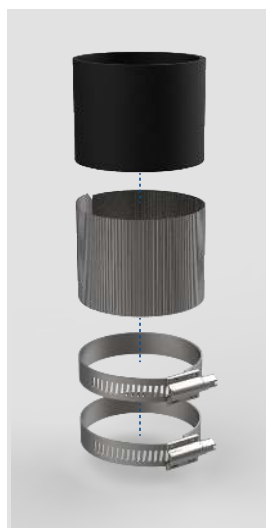


DN150 ~ DN250



No.	Details
1	Worm Screw: SS301 with Zinc Plated
2	Fastening Band: SS304
3	Coupling Shell: SS301
4	Rubber Sleeve

DN	L	Weight	Axial Restraint	Locking Screw	Install Torque	Pcs / Box
Size	mm	kg	bar	Socket Size	Nm	Nos
50	54	0.13	0.5	8	8	100
75	54	0.16	0.5	8	8	100
100	54	0.22	0.5	8	8	100
150	76	0.5	0.5	8	8	25
200	100	1.02	0.5	8	8	15
250	100	1.2	0.5	8	8	15



TYPE A



1

Remove the rubber sleeve collar from the coupling and push the rubber sleeve onto the pipe end so that the inner sealing ring rest on the edge end of the pipe or fitting to be connected.



2

Roll the upper half of the rubber sleeve back over to receive the other end of the pipe or fitting.



3

Insert the fitting or end of the pipe towards the inner sealing ring and fold back the rubber sleeve over the connecting pipe or fitting.



4

Open up the stainless steel band and slide the stainless steel sleeve over the rubber sleeve.



5

Tighten the two bolts on the stainless steel sleeve with a screw driver evenly, ensuring the stainless steel shield closes evenly over the rubber sleeve.

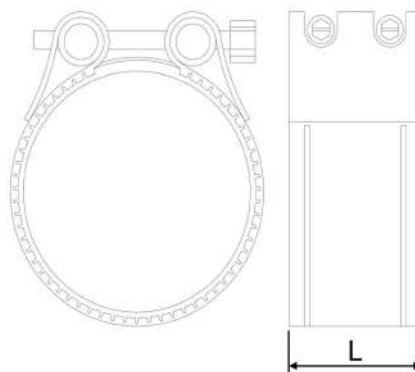


6

Use a torque wrench to complete the installation ensuring even distribution of tightening load on the two bolts for a positive watertight joint.

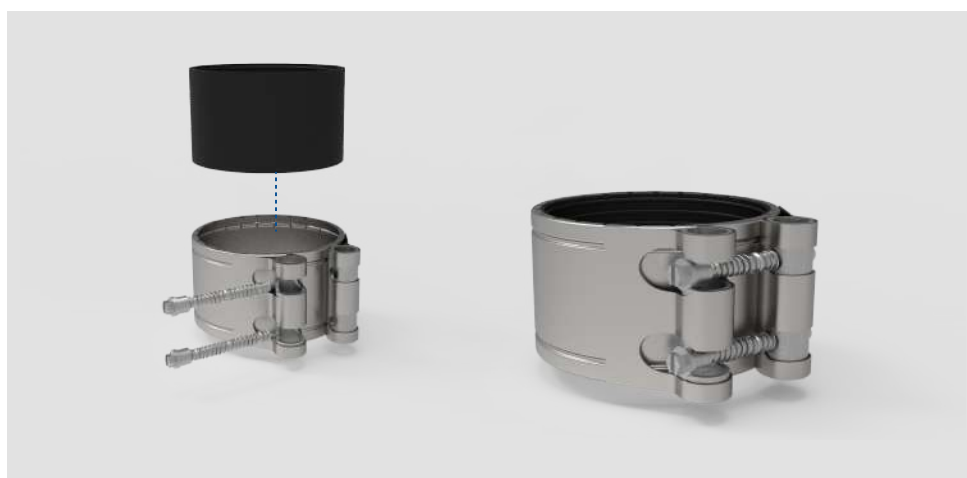
Stainless Steel Type-F Coupling

Stainless Steel Clip and Rubber Sleeve for connecting of Hubless Pipes & Fittings Bolted Type



No.	Details
1	Fastening Parts: Carbon steel with Dacromet Coating
2	Outer Hexagonal Bolts: Carbon steel with Dacromet Coating
3	Coupling Shell: SS304
4	Rubber Sleeve

DN	L	Weight	Axial Restraint	Locking Screw	Install Torque	Pcs / Box
Size	mm	kg	bar	Socket Size	Nm	Nos
50	54	0.23	0.5	10	20-25	100
75	54	0.26	0.5	10	20-25	100
100	54	0.29	0.5	10	20-25	100
150	78	0.58	0.5	10	20-25	50
200	103	1.08	0.5	10	20-25	15



TYPE F



1

Remove the rubber sleeve from the coupling. Push the rubber sleeve onto the pipe end so that the central inner sealing ring rest on the edge end of the pipe or fitting to be connected.



2

Roll the upper half of the rubber sleeve back over to receive the fitting or pipe end to be connected.



3

Place the fitting or the pipe end to the inner sealing ring and fold back the rubber sleeve.



4

Open stainless steel sleeve and locate over the rubber sleeve. Close the bolts over the stainless steel sleeve centrally over the rubber sleeve.



5

Tighten the bolts on the stainless steel sleeve with a screw driver. Tighten the two bolts evenly to ensure the coupling is gripping to form a positive seal between the two joining components.

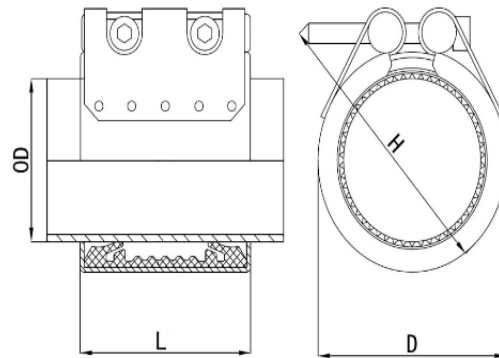
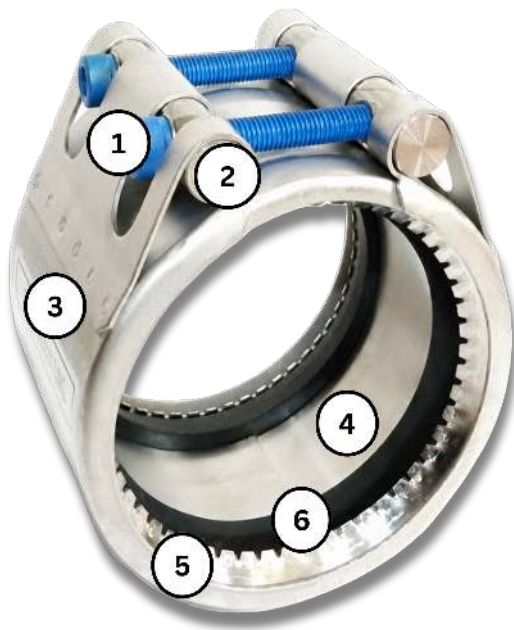


6

Use a torque wrench to complete the installation ensuring even distribution of tightening load on the two bolts for a positive watertight joint.



Stainless Steel Grip-E High Pressure Coupling

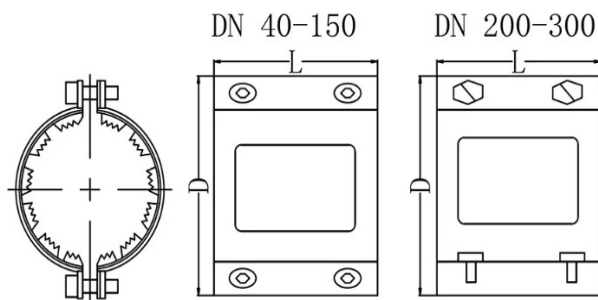
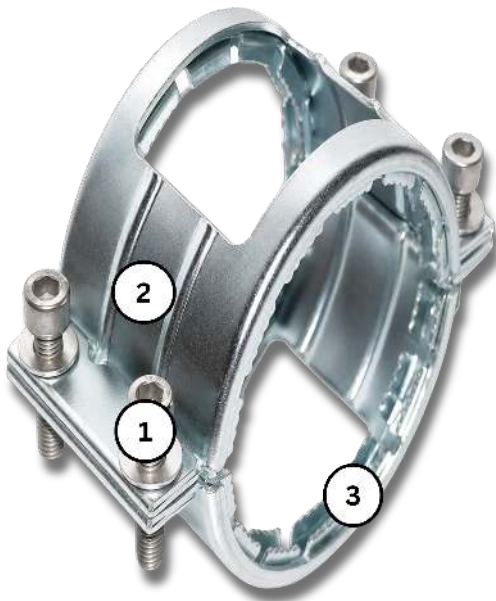


No.	Details
1	Screw: SS304 Cap Screw with Teflon Coated
2	Barrel: Solid Trunnon SS304
3	Coupling Shell: SS304
4	Inner Steel Strip: SS301
5	Grip Teeth Ring: SS301
6	Rubber Sleeve

DN	Pipe OD	L	D	H	Axial Restraint	Locking Cap Screw	Install Torque
Size	mm	mm	mm	mm	bar	Size	Nm
50	57-60	75	80	100	10	M10	20
75	82-85	105	110	130	10	M10	30
100	109-112	120	130	150	10	M10	30
150	158-162	120	185	215	10	M12	60
200	208-212	154	250	280	10	M16	100
250	272-276	154	305	335	10	M16	100

GI Combi Claw

Galvanized Steel Combi Claw is an axial restraint claw. Can be used in combination with Type “A” & “F” coupling.



No.	Details
1	Screw: Cap Screw with Zinc Plated
2	Frame: Carbon Steel with Zinc Plated
3	Grip Teeth Ring: Carbon Steel with Zinc Plated

DN	L	Weight	Axial Restraint	Locking Cap Screw	Install Torque	Pcs / Box
Size	mm	kg	bar	Size	Nm	Nos
50	98	0.74	10	M8×30	18-20	40
75	98	0.73	10	M8×30	20-23	40
100	98	1.13	10	M10×40	30-35	24
150	114	1.63	5	M10×40	33-35	20
200	140	2.53	3	M10×40	40-50	10
250	200	6.10	2	M12×30	50-55	3



Our Custom Services



Welding



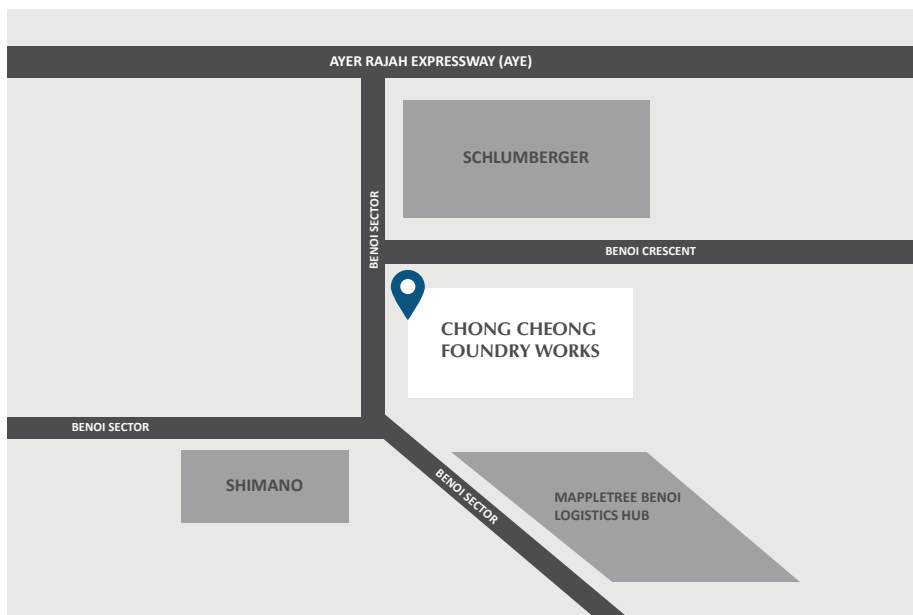
Sawing Machine



CNC Milling Machine



Pipe Threading



**CHONG CHEONG
FOUNDRY WORKS PTE LTD**

Contact Us

Please feel free to contact us via e-mail or phone. We will be glad to answer your questions, concerns and/or feedback.

Address:

2 Benoi Crescent
Singapore 629969

Operating Hour:

Mon - Fri: 8AM - 6.15PM
Sat: 8AM - 5PM
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Tel: +65 6027 9581 / +65 6027 9582
Fax: +65 6261 5638
Email: sales@chongcheong.com.sg / sales.32@chongcheong.com.sg
Web: www.chongcheong.com.sg



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