

UltraGrip

High tolerance product range with end restraint

Dimensions - UltraGrip 50mm to 300mm Technical Data Sheet

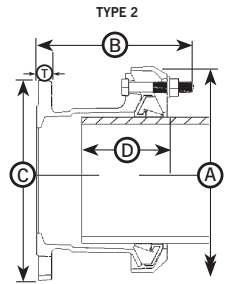
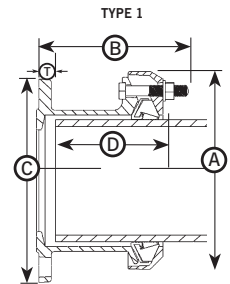
Flange Adaptors

Nom Size	OD Range		Flange Details			Insertion Depth (D)				Dimensions				Bolt Details		Working Pressure (bar)				Weight (Kg)
	Min	Max	Nom	Drilling	Type	Non-liner		Liner		C	A	B	T	Size	Type	Water		Gas		
						Min	Max	Min	Max							Flex	Gripping	Flex	Gripping	
40	43.5	63.5	50	PN10/16	1	70	105	70	95	165	168	154.0	18	3-M12x60	HRH	16	16	4	4	4.4
50	48	71	50	PN10/16	1	70	95	70	95	165	177.5	154	18	3-M12x60	HRH	16	16	4	4	4.6
65	63	83.7	65	PN10/16	1	70	105	70	95	185	189	154.0	18	3-M12x60	HRH	16	16	4	4	5.4
80	85.7	107	80	PN10/16	1	70	105	70	105	200	211	154.0	20	3-M12x60	HRH	16	16	4	4	7
100	107.2	133.2	100	PN10/16	2	90	125	90	120	220	277	198.0	22	3-M16x80	HRH	16	16	4	4	10.2
125	132.2	160.2	125	PN10/16	1	90	125	90	125	250	304	198.0	22	3-M16x80	HRH	16	16	4	4	11.2
150	158.2	192.2	150	PN10/16	2	95	140	95	140	285	336	218.0	22	4-M16x80	HRH	16	16	4	4	14.9
175	192.2	226.9	200	PN10/16	1	105	150	105	145	340	374	204.0	19	4-M16x80	HRH	16	10	4	4	16.4
200	218.1	256	200	PN10/16	2	120	185	120	155	340	417	252.0	19	4-M16x80	HRH	16	10	4	4	22.3
250	266.2	310	250	PN10/16	2	150	220	150	180	405	476	313.0	21	6-M16x110	HRH	16	10	4	4	34.4
300	315	356	300	PN10/16	2	150	220	150	185	470	519	313.0	22.5	8-M16x110	HRH	16	10	4	4	42.2

Non-Liner = Installation on pipe which does not require a Stainless Steel Support Liner - e.g. Steel, Cast Iron, Ductile Iron

Liner = Installation on pipe which requires a Stainless Steel Support Liner - e.g. PE, thin walled PVC

Flange Drilling - All flanges are drilled to BS EN 1092 (formerly BS 4504) 7005 with the rating as per table

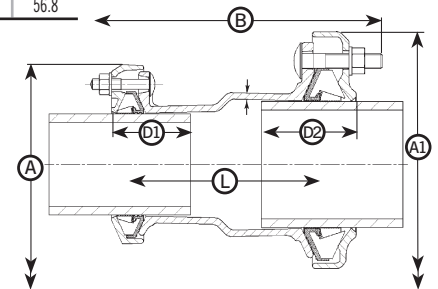
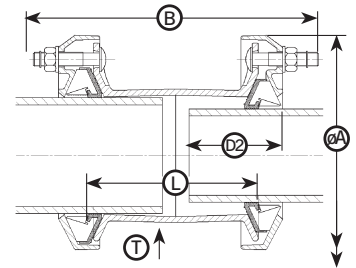


Couplings

Nom Size	OD Range		Insertion Depth (D2)				Dimensions				Bolt Details		Working Pressure (Bar)				Weight (Kg)
	Min	Max	Non-liner		Liner		Overall		Sleeve		Size	Type	Water		Gas		
			Min	Max	Min	Max	A	B	L	T			Flex	Gripping	Flex	Gripping	
40	43.5	63.5	70	95	70	95	168	242	144	7	6-M12x60	HRH	16	16	4	4	5.0
50	48	71	70	95	70	95	177.5	276	180	5	6-M12x60	HRH	16	16	4	4	5.5
65	63	83.7	70	95	70	95	189	242	144	7	6-M12x60	HRH	16	16	4	4	5.9
80	85.7	107	70	105	70	105	211	267	170	7	6-M12x60	HRH	16	16	4	4	7.6
100	107.2	133.2	90	125	90	120	277	326	180	7	6-M16x85	CSX	16	16	4	4	13.3
125	132.2	160.2	90	125	90	125	304	316	180	6	6-M16x85	CSX	16	16	4	4	14.2
150	158.2	192.2	95	140	95	140	336	352	213	7	8-M16x85	CSX	16	16	4	4	19.7
175	192.2	226.9	105	150	105	145	374	357	213	7	8-M16x85	CSX	16	10	4	4	21.4
200	218.1	256	120	165	120	155	417	364	220	7	8-M16x85	CSX	16	10	4	4	26.6
250	266.2	310	150	220	150	180	476	504	300	8	12-M16x115	CSX	16	10	4	4	49.7
300	315	356	150	220	150	185	519	504	300	7	16-M16x115	CSX	16	10	4	4	56.8

Non-Liner = Installation on pipe which does not require a Stainless Steel Support Liner - e.g. Steel, Cast Iron, Ductile Iron

Liner = Installation on pipe which requires a Stainless Steel Support Liner - e.g. PE, thin walled PVC



Reducers

Nom Size	OD Range				Insertion Depth - (Non-Liner)				Insertion Depth - (Liner)				Dimensions				Bolt Details			Working Pressure (bar)				Weight (kg)	
	Small End		Large End		Small End (D1)		Large End (D2)		Small End (D1)		Large End (D2)		Overall		Sleeve		Small End	Large End	Type	Water		Gas			
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	A	A1	B	L				T	Flex	Gripping	Flex		Gripping
32 x 40	36	46	43.5	63.5	70	95	70	95	70	95	70	95	152	168	256	150	5	3-M12x165	3-M12x165	CSX	16	16	4	4	4.7
80 x 100	85.7	107	107.2	133.2	70	105	90	125	70	105	90	120	211	280	313	185	7	3-M12x65	3-M16x85	CSX	16	16	4	4	10.8
100 x 125	107.2	133.2	132.2	160.2	90	125	90	125	90	120	90	125	280	305	336	190	7	3-M16x85	3-M16x85	CSX	16	16	4	4	14.5
100 x 150	107.2	133.2	158.2	192.2	90	125	95	140	90	120	95	140	280	339	359	217	7	3-M16x85	4-M16x85	CSX	16	16	4	4	17.5
125 x 150	132.2	160.2	158.2	192.2	90	125	95	140	90	125	95	140	305	339	350	207	7	3-M16x85	4-M16x85	CSX	16	16	4	4	17.9
150 x 175	158.2	192.2	192.2	226.9	95	140	105	150	95	140	105	145	339	374	372	233	7	4-M16x85	4-M16x85	CSX	16	10	4	4	22.6
175 x 200	192.2	226.9	218.1	256	105	150	120	165	105	145	120	155	374	417	373	230	7	4-M16x85	4-M16x85	CSX	16	10	4	4	25.1
200 x 250	218.1	256	266.2	310	120	165	150	220	120	155	150	180	417	476	457	280	8	4-M16x85	6-M16x115	CSX	16	10	4	4	43

Non-Liner = Installation on pipe which does not require a Stainless Steel Support Liner - e.g. Steel, Cast Iron, Ductile Iron

Liner = Installation on pipe which requires a Stainless Steel Support Liner - e.g. PE, thin walled PVC

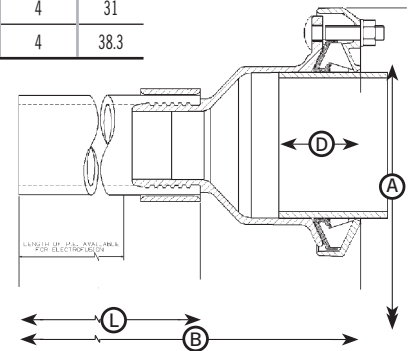
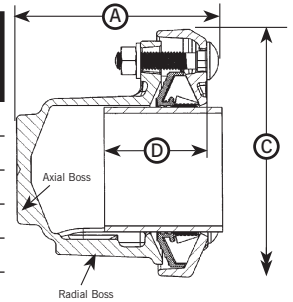
UltraGrip

High tolerance product range with end restraint

End Caps

Nom Size	OD Range		Insertion Depth (D)				Outlet Details - BSP Drilling				Dimensions		Bolt Details		Working Pressure (bar)				Weight (kg)
			Non-Liner		Liner		Radial		Axial				Size	Type	Water		Gas		
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	A	C			Flex	Gripping	Flex	Gripping	
40	43.5	63.5	70	105	70	95	1/2"	3/4"	1/2"	2"	129	168	3-M12x65	CSX	16	16	4	4	3
65	63	83.7	70	105	70	95	1/2"	3/4"	1/2"	2"	129	189	3-M12x65	CSX	16	16	4	4	3.6
80	85.7	107	70	105	70	105	1/2"	3/4"	1/2"	2"	142	212	3-M12x65	CSX	16	16	4	4	4.4
100	107.2	133.2	90	125	90	120	1/2"	1"	1/2"	2"	163	280	3-M16x85	CSX	16	16	4	4	8.3
125	132.2	160.2	90	125	90	125	1/2"	1"	1/2"	2"	181	305	3-M16x85	CSX	16	16	4	4	9.9
150	158.2	192.2	95	140	95	140	1/2"	1"	1/2"	2"	187	339	4-M16x85	CSX	16	16	4	4	12.3
175	192.2	226.9	105	150	105	145	1/2"	1"	1/2"	2"	190	374	4-M16x85	CSX	16	10	4	4	14.4
200	218.1	256	120	185	120	155	1/2"	1 1/2"	1/2"	2"	197	417	4-M16x85	CSX	16	10	4	4	19.3
250	266.2	310	150	220	150	180	1/2"	2"	1/2"	2"	247	476	6-M16x115	CSX	16	10	4	4	31
300	315	356	150	220	150	185	1/2"	2"	1/2"	2"	245	522	8-M16x115	CSX	16	10	4	4	38.3

Non-Liner = Installation on pipe which does not require a Stainless Steel Support Liner - e.g. Steel, Cast Iron, Ductile Iron
 Liner = Installation on pipe which requires a Stainless Steel Support Liner - e.g. PE, thin walled PVC



Pecat

Nom Size	UltraGrip End		PE Pipe End		Insertion Depth (D)				Dimensions				Bolt Details		Working Pressure (bar)				Weight (kg)
	OD Range		OD	SDR	Non-Liner		Liner		Overall		PE Pipe End		Size	Type	Water		Gas		
	Min	Max			Min	Max	Min	Max	A	B	L	Length Available For Electrofusion			Flex	Gripping	Flex	Gripping	
DN80 x 90	85.7	107.7	90	11	70	105	70	105	211	670	496	420	3-M12x60	HRH	16	16	4	4	6.8
DN100 x 110	107.2	133.2	110	11	90	125	90	120	280	698	496	400	3-M16x85	CSX	16	16	4	4	11.7
DN100 x 125	107.2	133.2	125	11	90	125	90	120	280	691	496	400	3-M16x85	CSX	16	16	4	4	12.4
DN125 x 110	132.2	160.2	110	11	90	125	90	125	305	717	496	390	3-M16x85	CSX	16	16	4	4	13.3
DN125 x 125	132.2	160.2	125	11	90	125	90	125	305	711	496	390	3-M16x85	CSX	16	16	4	4	14
DN150 x 160	158.2	192.2	160	11	95	140	95	140	339	720	496	380	4-M16x85	CSX	16	16	4	4	19.9
DN150 x 180	158.2	192.2	180	11	95	140	95	140	339	717	496	380	4-M16x85	CSX	16	16	4	4	22.4
DN200 x 225	218.1	256	225	11	120	185	120	155	417	749	496	370	4-M16x85	CSX	16	10	4	4	31.7

Material Specification and Standards

Flange Adaptors / Couplings / Reducing Couplings / End Caps / Pecatadaptors

End Ring and Centre Sleeve

S.G. Iron to BS EN 1563:1997 Symbol EN-GJS-450-10

Flange Adaptor Body

S.G. Iron to BE EN 1563:1997 Symbol EN-GJS-450-10

Gripper and Carrier

Acetal Copolymer Grade M25 or equivalent

Gaskets

EPDM Compound Grade E to BS EN 681-1:1996 WA, WBS listed

Nitrile Compound to DIN 3535 Part3, KTW and DVGW approved

Note: Pipe used for Pecatadaptor is black PE100 SDR 11.

Bolts and Nuts

Stainless steel to BS EN 3506-1:Grade A2 Property Class 80 or 70

Washer

Stainless steel - BS1449:PT2:1983 Grade 304 S15

Coating

End Ring and Centre Sleeve: Rilsan Nylon 11 (Black)

Bolts: Neolube

Nuts: Dacromet coated

UltraGrip is designed and manufactured under Quality Management Systems certified to BS EN ISO 9001:2000 and the requirements of ISO 14001.

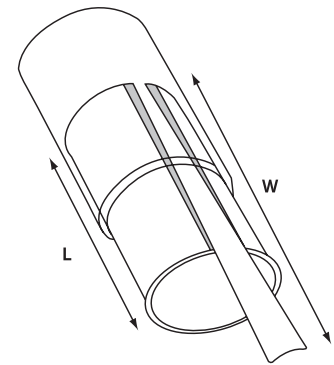
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Standard - 1mm Thickness

Pipe OD	Insert length L (mm)	SDR Rating	Wedge Length W (mm)
63	130	SDR 13,6	220
75	130	SDR 11	220
90	130	SDR 17	220
90	130	SDR 13,6	220
90	130	SDR 11	220
110	150	SDR 41	220
110	150	SDR 17	220
110	150	SDR 13,6	220
110	150	SDR 11	220
125	150	SDR 17	220
125	150	SDR 11	220
140	150	SDR 11	220
160	175	SDR 41	220
160	175	SDR 17	220
160	175	SDR 13,6	220
160	175	SDR 11	220
180	175	SDR 17	220
180	175	SDR 11	220

Material Spec

Stainless steel to:
ASTM AISI 304

Standard - 2mm Thickness

Pipe OD	Insert Length L (mm)	SDR Rating	Wedge Length W (mm)
200	180	SDR 41	220
200	180	SDR 17	220
200	180	SDR 11	220
225	180	SDR 17	220
225	180	SDR 11	220
250	180	SDR 11	220
280	200	SDR 17	220
280	200	SDR 13,6	220
280	200	SDR 11	220
315	200	SDR 17	220
315	200	SDR 11	220
355	200	SDR 17	220
355	200	SDR 11	220

Material Spec

Stainless steel to:
ASTM AISI 304

