

Fabricated Fittings

by Radius Systems

Introduction

An extensive range of fabricated fittings is available to complete your pipeline. Widely used to fit and complement PE pipeline designs, Radius Systems' fabricated fittings offer a quick and easy way to connect your pipework around bends and pipeline junctions, or to join your pipe to a flanged pipe or a valve.

Engineered Fitting Solution

Our engineered fitting solution provides improved hydraulic performance while using conventional PE jointing methods to maintain the pipe route, even in complex construction environments. These fittings are constructed in a controlled environment at our ISO 9001:2015 and OHSAS 18001:2015 certified factory in the UK. They are fabricated in-house from our own manufactured pipe range.

Extensive Testing and Compliance

Our fittings undergo extensive testing in dedicated laboratories to meet the requirements of UK and international standards, ensuring high-performance solutions for your pipeline network.

Range of Fabricated Fittings

- Flange Adaptor Kits
- Flange Adaptors
- Hydrant Kits
- Tees
- Reducers
- Mitred Bends
- End Caps

Customisation and Distribution

These fittings come in a range of standard diameters, materials, and SDRs, with bespoke components available on request to suit your pipeline design. We manufacture and supply these fittings directly or through our wide network of UK and worldwide distributors.

Approvals

Our fabricated fittings are tested to the most stringent national and international specifications in our state-of-the-art facility. They have been developed specifically to meet the requirements of our UK and international customers. For individual fitting approval(s), please contact Radius Systems.

Gas:

- GIS/PL2 - 6, Kitemark license 555333

Water and wastewater:

- BS EN 12201-3 PE fittings, Kitemark license 597648
- WRAS approved material

Flanges

Water Flanges

Standard Flanges

Dark Blue

Sizes	SDR11	SDR17
63 x DN50	WR4046	
63 x DN80	WR4050	
75 x DN80		
90 x DN80	WR4064	WR4066
110 x DN100	WR4088	WR4089
125 x DN100	WR4124	WR4126
140 x DN150		
160 x DN150	WR4198	WR4200
180 x DN150	WR4246	WR4248
200 x DN200	WR4282	WR4284
225 x DN200	WR4330	WR4332
250 x DN250	WR4408	WR4410
280 x DN250	WR4456	WR4458
315 x DN300	WR4534	WR4536
355 x DN350	WR4642	WR4644
400 x DN400	WR4737	WR4739

ProFuse®

Sizes	SDR11	SDR17
63 x DN50		
63 x DN80		
75 x DN80		WT4043
90 x DN80	WT5064	WT5066
110 x DN100	WT5088	WT5090
125 x DN100	WT5124	WT5126
140 x DN150		WT4157
160 x DN150	WT5198	WT5200
180 x DN150	WT5246	WT5248
200 x DN200		WT4284
225 x DN200		WT4332
250 x DN250		WT4410
280 x DN250		WT4458
315 x DN300		WT4536
355 x DN350		WT4644
400 x DN400		

Black

Sizes	SDR11	SDR17
63 x DN50		
63 x DN80	WR4051	
75 x DN80		
90 x DN80	WR4065	WR5066
110 x DN100	WR4092	WR4094
125 x DN100	WR4125	WR5126
140 x DN150		
160 x DN150	WR4204	WR4206
180 x DN150	WR4247	WR4245
200 x DN200	WR5282	WR4285
225 x DN200	WR4331	WR5332
250 x DN250	WR5408	WR5410
280 x DN250	WR5456	WR5458
315 x DN300	WR5535	WR5536
355 x DN350	WR5642	WR5644
400 x DN400	WR5738	WR5740

Puriton

Sizes	SDR11	SDR17
63 x DN50		
63 x DN80	XR0290	
75 x DN80		
90 x DN80	XR0291	XR0300
110 x DN100	XR0310	XR0303
125 x DN100	XR0311	XR0301
140 x DN150		
160 x DN150	XR0312	XR0304
180 x DN150	XR0313	XR0302

- Galvanized Ring
- Rilsan Ring

Water Flanges

HP Flanges

Dark Blue

Epoxy coated rings

Sizes	SDR11	SDR17
400 x DN400	WR4738	WR4740
450 x DN450	WR4834	WR4836
500 x DN500	WR4888	WR4889
560 X DN600	WR4895	WR4896
630 X DN600	WR4905	WR4907

ProFuse®

Sizes	SDR17
400 x DN400	WT4740
450 x DN450	WT4836
500 x DN500	WT4889
560 X DN600	WT4896
630 X DN600	WT4907



Water Flanges

SP Flanges

Dark Blue

Epoxy coated rings

Sizes	SDR11	SDR17
250 X DN200	WR4390	WR4392
315 X DN250	WR4516	WR4518
355 X DN300	WR4636	WR4638
400 X DN350	WR4732	WR4734
450 X DN400	WR4828	WR4830
500 X DN450	WR4882	WR4884
560 X DN500	WR4892	WR4893

ProFuse®

Sizes	SDR17
250 X DN200	WT4392
315 X DN250	WT4518
355 X DN300	WT4638
400 X DN350	WT4734
450 X DN400	WT4830
500 X DN450	WT4884
560 X DN500	WT4893

Flange Adaptor Kit

Sizes	SDR17
63 x DN50	WC0034
63 x DN80	WC0037
90 x DN80	WC0048
110 x DN100	WC0056
125 x DN100	WC0071
160 x DN150	WC0091
180 x DN150	WC0103

Contains: Electrofusion fitting, long spigot flange stub, galvanized backing ring

SDR21 available on request

Mitred Bends

Water Mitred Bends

Dark Blue

SDR11

Size (mm)	11.25d	22.5d	45d	90d
90	WR7053	WR7158	WR7422	WR7863
110	WR7056	WR7161	WR7425	WR7866
125	WR7059	WR7164	WR7428	WR7869
160	WR7063	WR7170	WR7434	WR7875
180	WR7068	WR7173	WR7437	WR7878
200	WR7071	WR7176	WR7440	WR7881
225	WR7077	WR7182	WR7446	WR7887
250	WR7080	WR7185	WR7449	WR7890
280	WR7086	WR7191	WR7455	WR7896
315	WR7089	WR7194	WR7458	WR7899
355	WR7092	WR7197	WR7461	WR7902
400	WR7095	WR7200	WR7464	WR7905
450	WR7098	WR7204	WR7468	WR7908
500	WR7104	WR7210	WR7475	WR7914
560	WR7107	WR7213	WR7478	WR7917
630	WR7110	WR7216	WR7481	WR7920

SDR17

Size (mm)	11.25d	22.5d	45d	90d
90	WR7054	WR7159	WR7423	WR7864
110	WR7057	WR7162	WR7426	WR7867
125	WR7060	WR7165	WR7429	WR7870
160	WR7066	WR7171	WR7435	WR7876
180	WR7069	WR7174	WR7438	WR7879
200	WR7072	WR7177	WR7441	WR7882
225	WR7078	WR7183	WR7447	WR7888
250	WR7081	WR7186	WR7450	WR7891
280	WR7087	WR7192	WR7456	WR7897
315	WR7090	WR7195	WR7459	WR7900
355	WR7093	WR7198	WR7462	WR7903
400	WR7096	WR7202	WR7466	WR7906
450	WR7099	WR7205	WR7470	WR7909
500	WR7105	WR7211	WR7476	WR7915
560	WR7108	WR7214	WR7479	WR7918
630	WR7111	WR7217	WR7482	WR7921

Water Mitred Bends

ProFuse®

SDR17

Size (mm)	11.25d	22.5d	45d	90d
90	WT7054	WT7159	WT7423	WT7864
110	WT7057	WT7942	WT7426	WT7867
125	WT7060	WT7165	WT7429	WT7870
140	WT7940	WT7944	WT7947	WT7948
160	WT7063	WT7945	WT7435	WT7876
180	WT7066	WT7174	WT7438	WT7879
200	WT7072	WT7177	WT7441	WT7882
225	WT7078	WT7183	WT7447	WT7888
250	WT7081	WT7186	WT7450	WT7891
280	WT7087	WT7192	WT7456	WT7897
315	WT7090	WT7195	WT7459	WT7900
355	WT7093	WT7198	WT7462	WT7903
400	WT7096	WT7202	WT7466	WT7906
450	WT7099	WT7205	WT7470	WT7909
500	WT7105	WT7211	WT7476	WT7915
560	WT7108	WT7214	WT7479	WT7918
630	WT7111	WT7217	WT7482	WT7921



Water Mitred Bends

Black

SDR11

Size (mm)	11.25d	22.5d	45d	90d
90	WR8053	WR8158	WR8422	WR8863
110	WR8056	WR8161	WR8425	WR8866
125	WR8059	WR8164	WR8428	WR8869
160	WR8065	WR8170	WR8434	WR8875
180	WR8068	WR8173	WR8437	WR8878
200	WR8071	WR8176	WR8440	WR8881
225	WR8077	WR8182	WR8446	WR8887
250	WR8080	WR8185	WR8449	WR8890
280	WR8086	WR8137	WR8455	WR8896
315	WR8089	WR8194	WR8458	WR8899
355	WR8092	WR8197	WR8461	WR8902
400	WR8095	WR8200	WR8464	WR8905
450	WR8098	WR8204	WR8468	WR8908
500	WR8104	WR8210	WR8475	WR8914
560	WR8107	WR8213	WR8480	WR8917
630	WR8110	WR8216	WR8483	WR8920

SDR17

Size (mm)	11.25d	22.5d	45d	90d
90	WR8054	WR8159	WR8423	WR8864
110	WR8057	WR8162	WR8426	WR8867
125	WR8060	WR8165	WR8429	WR8870
160	WR8066	WR8171	WR8435	WR8876
180	WR8069	WR8174	WR8438	WR8879
200	WR8072	WR8177	WR8441	WR8882
225	WR8078	WR8183	WR8447	WR8888
250	WR8081	WR8186	WR8450	WR8891
280	WR8087	WR8192	WR8456	WR8897
315	WR8090	WR8195	WR8459	WR8900
355	WR8093	WR8198	WR8462	WR8903
400	WR8096	WR8202	WR8466	WR8906
450	WR8099	WR8205	WR8470	WR8909
500	WR8105	WR8211	WR8476	WR8915
560	WR8108	WR8214	WR8479	WR8918
630	WR8111	WR8217	WR8484	WR8921

Water Fittings

Get in touch | T: +44 (0)1773 811112

E: sales@radius-systems.com

www.radius-systems.com

Hydrant Fittings

Hydrant Tee Flanged Branch Kit

Hydrant Duckfoot Elbow Kit

Dark Blue (SDR11 & SDR17)

Sizes	Product Code
90 x DN80	WC5797
110 x DN80	WC5803
125 x DN80	WC5817
160 x DN80	WC5835
180 x DN80	WC5845

Contains: Electrofusion tee, electrofusion coupler or reducer, bolt located flange with rilsan backing ring

ProFuse® (SDR11 & SDR17)

Sizes	Product Code
90 x DN80	WC5547
110 x DN80	WC5553
125 x DN80	WC5567
160 x DN80	WC5586
180 x DN80	WC5595

Contains: Electrofusion tee, electrofusion coupler or reducer, bolt located flange with rilsan backing ring

Dark Blue (SDR11 & SDR17)

Sizes	Product Code
63 x DN80	WC5286
90 x DN80	WC5297
110 x DN80	WC5303
125 x DN80	WC5317
160 x DN80	WC5336
180 x DN80	WC5345

Contains: Duckfoot elbow, 2 electrofusion fittings, bolt located flange with rilsan backing ring

ProFuse® (SDR11 & SDR17)

Sizes	Product Code
63 x DN80	WC5036
90 x DN80	WC5047
110 x DN80	WC5053
125 x DN80	WC5067
160 x DN80	WC5086
180 x DN80	WC5095

Contains: Duckfoot elbow, 2 electrofusion fittings, bolt located flange with rilsan backing ring

Water Tees

Flange Tees - Pipped

Dark Blue

Sizes	SDR11	SDR17
90 x DN80	WS9064	WS9066
110 x DN80	WS9084	WS9086
125 x DN80	WS9116	WS9118
160 x DN80	WS9174	WS9176
180 x DN80	WS9216	WS9218
200 x DN80	WS9258	WS9260
225 x DN80	WS9300	WS9302
250 x DN80	WS9354	WS9356
315 x DN80	WS9462	WS9464
355 x DN80	WR9961	WR9967
110 x DN100	WS9088	WS9090
125 x DN100	WS9120	WS9126
160 x DN100	WS9180	WS9182
180 x DN100	WS9222	WS9230

Dark Blue

Sizes	SDR11	SDR17
200 x DN100	WS9264	WS9266
225 x DN100	WS9306	WS9308
250 x DN100	WS9360	WS9362
280 x DN100	WR9960	WR9966
315 x DN100	WS9468	WS9470
355 x DN100	WR9962	WR9968
160 x DN150	WS9200	WS9202
180 x DN150	WS9240	WS9248
200 x DN150	WS9270	WS9272
225 x DN150	WS9318	WS9320
250 x DN150	WS9378	WS9380
315 x DN150	WS9486	WS9488
355 x DN150	WR9963	WR9969

ProFuse®

Sizes	SDR17
90 x DN80	WT9066
125 x DN80	WT9118
180 x DN80	WT9218
125 x DN100	WT9126
180 X DN100	WT9230
180 X DN150	WT9248

Black

Sizes	SDR11	SDR17
355 x DN80	WS9961	WS9967
280 x DN100	WS9960	WS9966
355 x DN100	WS9962	WS9968
355 x DN150	WS9963	WS9969
355 X DN250	WS9617	WS6920

● Kit including fabrication, EF component and flange

Factory welded using spigot and/or EF parts, rilsan backing ring

Water Tees

Equal Tees - Papped

Dark Blue

Sizes	SDR11	SDR17
90	WR1783	
125		WR1797
200	WR1574	WR1576
225	WR1590	WR1592
250	WR1596	WR1598
280	WR1612	WR1614
315	WR1620	WR1622
355	WR1628	WR1630
400	WR1636	WR1638
450	WR1644	WR1646
500	WR1652	WR1654

Black

Sizes	SDR11	SDR17
90	WS1783	
125		WS1797



Water Tees

Reducing Tees - Pipped

Dark Blue

Sizes	SDR11	SDR17
110 x 90	WR3003	WR3006
125 x 90	WR3017	
125 x 110	WR3021	
160 x 90	WR3043	WR3046
160 x 110	WR3049	WR3052
180 x 90	WR3070	WR3073
250 x 90	WR3241	WR3244
315 x 90	WR3344	WR3347
315 x 125	WR3356	WR3359
355 x 90	WR3443	WR3446
355 x 180	WR3380	WR3483
400 x 250	WR3626	WR3630
450 x 315	WR3770	WR3774
560 x 355	WR3943	WR3942
630 x 400	WR3975	WR3964
500 x 315	WR3896	WR3900

Black

Sizes	SDR11	SDR17
110 x 90	WS3003	WS3006
125 x 90	WS3017	
125 x 110	WS3021	
160 x 90	WS3043	WS3046
160 x 110	WS3049	WS3052
180 x 90	WS3070	WS3073
250 x 90	WS3241	WS3244
315 x 90	WS3344	WS3347
315 x 125	WS3356	WS3359
355 x 90	WS3443	WS3446
355 x 180	WS3380	WS3483
400 x 250	WS3626	WS3630
450 x 315	WS3770	WS3774
560 x 355	WS3943	WS3942
630 x 400	WS3977	WS3964
500 x 315	WS3896	WS3900

● Kit including fabrication and EF component

Water Reducers

Pupped

Dark Blue

Sizes	SDR11	SDR17
110 x 90	WR0011	WR0013
125 x 90	WR0026	WR0028
125 x 110	WR0029	WR0032
160 x 110	WR0057	WR0059
160 x 125	WR0063	WR0065
180 x 125	WR0090	WR0093
180 x 160	WR0105	WR0108
200 x 160	WR0135	WR0139
200 x 180	WR0144	WR0148

Dark Blue

Sizes	SDR11	SDR17
225 x 180	WS0231	WS0235
250 x 180	WS0286	WS0290
250 x 200	WS0295	WS0299
250 x 225	WS0313	WS0316
280 x 250	WS0340	WS0338
315 x 250	WS0424	WS0428
355 x 180	WR0487	WR0491
355 x 250	WS0523	WS0526
355 x 315	WS0550	WS0553

Black

Sizes	SDR11	SDR17
110 x 90	WR0011	WR0013
125 x 90	WR0026	WR0028
125 x 110	WR0029	WR0032
160 x 110	WR0057	WR0059
160 x 125	WR0063	WR0065
180 x 125	WR0090	WR0093
180 x 160	WR0105	WR0108
200 x 160	WR0135	WR0139
200 x 180	WR0144	WR0148

Black

Sizes	SDR11	SDR17
225 x 180	WS0231	WS0235
250 x 180	WS0286	WS0290
250 x 200	WS0295	WS0299
250 x 225	WS0313	WS0316
280 x 250	WS0340	WS0338
315 x 250	WS0424	WS0428
355 x 180	WS0487	WS0491
355 x 250	WS0523	WS0526
355 x 315	WS0550	WS0553

Gas

Get in touch | T: +44 (0)1773 811112

E: sales@radius-systems.com

www.radius-systems.com

Gas Flanges

Standard Flanges

Yellow

Sizes	SDR11	SDR17.6	SDR21
63 x DN50	GS4001
90 x DN80	GS4002
125 x DN100	GS4003
180 x DN150	...	GT4100	...
250 x DN200	GT4394
250 x DN250	...	GR4410	GT4411
315 x DN250	GT4519
315 x DN300	...	GR4536	GT4538
355 x DN300	GT4640
355 x DN400	GT4652
400 x DN400	GT4742
400 x DN450	GT4748
450 x DN400	GT4832
450 x DN450	GT4838
500 x DN450	GT4884
500 x DN500	GT4891

- SDR21 PF
- ProFuse Pipe
- Reducing Flange

EF Stub Kits

Sizes	SDR11	SDR17
63 x DN50	GC0035	
90 x DN80	GC0048	
90 x DN100	GC0050	
125 x DN100	GC0071	
180 x DN150		GC0103

Contains: Electrofusion fitting, extra long spigot flange stub, galvanized backing ring, stud set and gasket

Gas Reducers

ProFuse PE100

Sizes	SDR21
250 x 225	GT0321
315 x 250	GT0432
355 x 315	GT0558
400 x 315	GT0669
400 x 355	GT0678
450 x 315	GT0723
450 x 400	GT0732
500 x 355	GT0777
500 x 450	GT0795
630 x 500	GT0948

HY100 PE100/80

Sizes	SDR21
250 x 225	GS0321
315 x 250	GS0432
355 x 315	GS0558
400 x 315	GS0669
400 x 355	GS0678
450 x 315	GS0723
450 x 400	GS0732

Gas End Caps

ProFuse PE100

Sizes	SDR21
250	GT1084
280	GT1099
315	GT1107
355	GT1116
400	GT1124
450	GT1132
500	GT1140
630	GT1156

Gas Tees

ProFuse PE100

Sizes	SDR17.6
250	GT1598
315	GT1622
400	GT1638

ProFuse PE100

Sizes	SDR21
250	GT1600
280	GT1616
315	GT1624
355	GT1632
400	GT1640
400 x 315	GT3661
450	GT1647
500	GT1655
500 x 315	GT3903

Gas Mitred Bends

Yellow SDR17.6

Shell Coat (UK)

Sizes	11.25d	22.5d	45d	90d
250	GR7081	GR7186	GR7450	GR7891
315	GR7090	GR7195	GR7459	GR7900

ProFuse®

Sizes	11.25d	22.5d	45d	90d
250		GT7186	GT7450	GT7890
315	GT7090	GT7195	GT7459	GT7900

Gas Mitred Bends

Yellow SDR21

Hybrid

Sizes	11.25d	22.5d	45d	90d
250	GS7082	GS7187	GS7451	GS7892
280	GS7088	GS7193	GS7457	GS7898
315	GS7091	GS7196	GS7460	GS7901
355	GS7094	GS7199	GS7463	GS7904
400	GS7097	GS7203	GS7467	GS7907
450	GS7100	GS7206	GS7471	GS7910

ProFuse

Sizes	11.25d	22.5d	45d	90d
250	GT7082	GT7187	GT7451	GT7892
280	GT7088	GT7193	GT7457	GT7898
315	GT7091	GT7196	GT7460	GT7901
355	GT7094	GT7199	GT7463	GT7904
400	GT7097	GT7203	GT7467	GT7907
450	GT7100	GT7206	GT7471	GT7910
500	GT7106	GT7212	GT7477	GT7916
630	GT7112	GT7218	GT7483	GT7922