



PETROCHEM
GROUP

Bioflo Catalogue 2022



ABOUT THE PETROCHEM GROUP

Since 1978 Petrochem has built partnerships with customers spanning every major industry in Ireland. During this time we have become a leading supplier of stainless pipes, fittings, flanges, fasteners, valves, instrumentation and controls to Irish industry including Pharmaceutical, Petrochemical, Food and Beverage and Biotech.

The reason behind this long term success is ensuring we offer a consistent, reliable service to all of our customers. With extensive stocks held at our facilities in Cork and Meath sourced via our long-term manufacturing partners. Ordering in bulk quantities allows us to ensure that we can pass on any economies of scale achieved to our loyal customers.

Our dedicated sales team provides in-depth knowledge of not only ASME BPE tube and fittings, but also other critical clean technologies such as clamps and sanitary gaskets. If you have any queries about our products our team are on hand to help you in anyway possible.

We are the complete process partner.

**All ASME BPE products held are in TP316/L grade of Stainless Steel
Further options for higher alloys such as AL6XN and C22 Hastalloy are available**

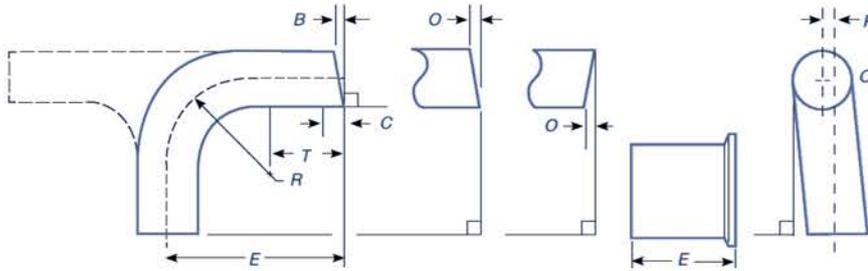
Hygienic classes held ex stock are SF1 and SF4.



FITTINGS

All ASME BPE products held are in TP316/L grade of Stainless Steel. Further options for higher alloys such as AL6XN and C22 Hastalloy are available.

Hygienic classes held ex stock are SF1 and SF4.



Nominal Size, in.	O.D.		Wall Thickness		Squareness Face to Tangent		Off Angles		Equivalent Angel (for O) deg	Off Plane, P		Centerline Radius (CLR), R	
	inch	mm	inch	mm	inch	mm	inch	mm		inch	mm	inch	mm
1/4	±0.005	±0.13	+0.003/-0.004	+0.08/-0.10	0.005	0.13	0.009	0.23	2.1	0.030	0.76	0.563	14.3
3/8	±0.005	±0.13	+0.003/-0.004	+0.08/-0.10	0.005	0.13	0.012	0.30	1.8	0.030	0.76	1.125	28.58
1/2	±0.005	±0.13	+0.005/-0.008	+0.13/-0.20	0.005	0.13	0.014	0.36	1.6	0.030	0.76	1.125	28.58
3/4	±0.005	±0.13	+0.005/-0.008	+0.13/-0.20	0.005	0.13	0.018	0.46	1.4	0.030	0.76	1.125	28.58
1	±0.005	±0.13	+0.005/-0.008	+0.13/-0.20	0.008	0.20	0.025	0.64	1.4	0.030	0.76	1.5	38.1
1 1/2	±0.008	±0.20	+0.005/-0.008	+0.13/-0.20	0.008	0.20	0.034	0.86	1.3	0.050	1.27	2.25	57.1
2	±0.008	±0.20	+0.005/-0.008	+0.13/-0.20	0.008	0.20	0.043	1.09	1.2	0.050	1.27	3.000	76.2
2 1/2	±0.010	±0.25	+0.005/-0.008	+0.13/-0.20	0.010	0.25	0.054	1.37	1.2	0.050	1.27	3.750	95.25
3	±0.010	±0.25	+0.005/-0.008	+0.13/-0.20	0.016	0.41	0.068	1.73	1.3	0.050	1.27	4.500	114.30
4	±0.015	±0.38	+0.008/-0.010	+0.20/-0.25	0.016	0.41	0.086	2.18	1.2	0.060	1.52	6.000	152.40
6	±0.030	±0.76	+0.015/-0.015	+0.38/-0.38	0.030	0.76	0.135	3.43	1.3	0.060	1.52	9.000	228.60

General Notes:

- (a) Tolerance on end-to-end and center-to-end dimension E is ±0.050" (1.27 mm)
- (b) Tolerance for centerline radius (CLR) is ±10% of the nominal dimension
- (c) The length of the control portion C is fixed for all sizes at 0.75" (19 mm)

Weld End Chemical Compositions (wt.%)

	C	Si	Mn	P	S	Ni	Cr	Mo
Min.	-	-	-	-	0.005	10.000	16.000	2.000
Max.	0.035	1.000	2.000	0.045	0.017	14.000	18.000	3.000

FITTINGS

BPE Process Contact Surface Finish Requirement.

Table SF-2.4-1

Surface Designation	Mechanically Polished Ra Max.	
	μin.	μm
SF0	No finish requirement	No finish requirement
SF1	20	0.51
SF2	25	0.64
SF3	30	0.76
Surface Designation	Electropolished Ra Max.	
	μin.	μm
SF4	15	0.38
SF5	20	0.51
SF6	25	0.64



ACCEPTANCE CRITERIA FOR METALLIC PROCESS CONTACT SURFACE FINISHES

Table SF-2.2-1

Anomaly or Indication	Acceptance Criteria
Pits	If diameter <0.020". (0.51 mm) and bottom is shiny [Notes (1) and (2)]. Pits <0.003" (0.08 mm) diameter is irrelevant and acceptable.
Cluster of pits	No more than 4 pits per each ½" x ½" (13 mm x 13 mm) inspection window. The cumulative total diameter of all relevant pits shall not exceed 0.040" (1.02 mm).
Dents	None accepted [Note (3)].
Finishing marks	If Ra max. is met.
Welds	Welds used in the as-welded condition shall meet the requirements of MJ-8. Welds finished after welding shall be flush with the base metal, and concavity and convexity shall meet the requirements of MJ-8. Such finishing shall meet the Ra requirements of Table SF-2.4-1.
Nicks	None accepted.
Scratches	For tubing, if cumulative length is <12.0' (305 mm) per 20' (6.1 m) tube length or prorated and if depth is <0.003" (0.08 mm). For fittings, valves and other process components, if cumulative length is <0.25" (6.4 mm), depth <0.003" (0.08 mm), and Ra max. is met. For vessels, if length <0.50" (13 mm) at 0.003" (0.08 mm) depth and if <3 per inspection window [Note (4)].
Surface cracks	None accepted.
Surface inclusions	If Ra max. is met.
Surface residuals	None accepted, visual inspection.
Surface roughness (Ra)	See Table SF-2.4-1.
Weld slag	For tubing, up to 3 per 20' (6.1 m) length or prorated, if <75% of the width of the weld bead. For fittings, valves, vessels, and other process components, none accepted (as welded shall meet the requirements of MJ-8 and Table MJ-8.4-1).
Porosity	None open to the surface.
Buffing	None accepted.

General Notes :

- (1) Black bottom pit of any depth is not acceptable.
- (2) Pits in super-austenitic and nickel alloys may exceed this value. Acceptance criteria for pit size shall be established by agreement between owner/user and supplier. All other pit criteria remain the same.
- (3) For vessels, dents in the area covered by and resulting from welding dimple heat transfer jackets are acceptable.
- (4) An inspection window is defined as an area 4" x 4" (100 mm x 100 mm).

ADDITIONAL ACCEPTANCE CRITERIA FOR ELECTROPOLISHED METALLIC PROCESS CONTACT SURFACE FINISHES

Table SF-2.2-2

Anomaly or Indication	Acceptance Criteria
Blistering	None accepted
Buffering	None accepted
Cloudiness	None accepted
End grain effect	Acceptable if Ra max. is met
Fixture marks	Acceptable if electropolished
Haze	None accepted
Orange peel	Acceptable if Ra max. is met
Stringer indication	Acceptable if Ra max. is met
Weld whitening	Acceptable if Ra max. is met
Variance in luster	Acceptable if Ra max. is met

Reference

- American Society of Mechanical Engineers, 2014. 'ASME BPE-2014 Bioprocessing Equipment', Part DT Dimensions and Tolerances for Process Components: 96
- ASTM International, 2015. 'A270/A270M-15', Table 1 Chemical Requirements: 3
- American Society of Mechanical Engineers, 2014. 'ASME BPE-2014 Bioprocessing Equipment', Part SF Process Contact Surface Finishes: 141, 142



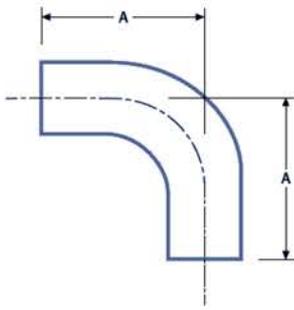
TUBE FITTINGS

BPE DT-4-1 (DT-1) Stainless Steel Tube

Nominal Size		Tube Wall		Thickness	SF1	SF4
Inch	mm	Inch	mm		##=F1	##=F4
1/4	6.35	0.035	0.89			DT1B025089-##
3/8	9.53	0.035	0.89			DT1B038089-##
1/2	12.70	0.065	1.65			DT1B050165-##
3/4	19.05	0.065	1.65			DT1B075165-##
1	25.40	0.065	1.65			DT1B100165-##
1 1/2	38.10	0.065	1.65			DT1B150165-##
2	50.80	0.065	1.65			DT1B200165-##
2 1/2	63.50	0.065	1.65			DT1B250165-##
3	76.20	0.065	1.65			DT1B300165-##
4	101.60	0.083	2.11			DT1B400211-##
6	152.40	0.109	2.77			DT1B600277-##

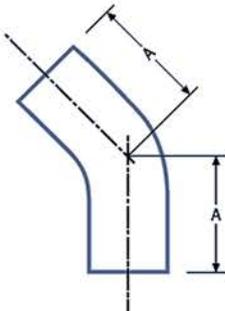
■ BPE TUBE FITTINGS

DT-7 DT-4.1.1-1 90° Elbow WW



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
1/4	6.35	2.625	66.70		DT790B025-##
3/8	9.53	2.625	66.70		DT790B038-##
1/2	12.70	3.000	76.20		DT790B050-##
3/4	19.05	3.000	76.20		DT790B075-##
1	25.40	3.000	76.20		DT790B100-##
1 1/2	38.10	3.750	95.30		DT790B150-##
2	50.80	4.750	120.70		DT790B200-##
2 1/2	63.50	5.500	139.70		DT790B250-##
3	76.20	6.250	158.80		DT790B300-##
4	101.60	8.000	203.20		DT790B400-##
6	152.40	11.500	292.10		DT790B600-##

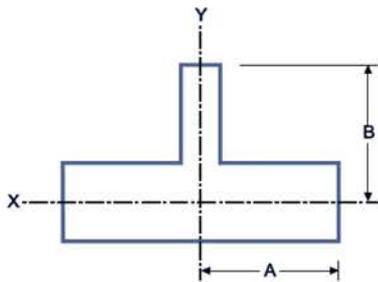
DT-8 DT-4.1.1-4 45° Elbow WW



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
1/4	6.35	2.000	50.80		DT845B025-##
3/8	9.53	2.000	50.80		DT845B038-##
1/2	12.70	2.250	57.20		DT845B050-##
3/4	19.05	2.250	57.20		DT845B075-##
1	25.40	2.250	57.20		DT845B100-##
1 1/2	38.10	2.500	63.50		DT845B150-##
2	50.80	3.000	76.20		DT845B200-##
2 1/2	63.50	3.375	85.70		DT845B250-##
3	76.20	3.625	92.10		DT845B300-##
4	101.60	4.500	114.30		DT845B400-##
6	152.40	6.250	158.80		DT845B600-##

■ BPE TUBE FITTINGS

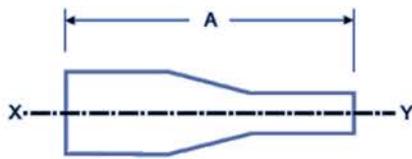
DT-10 DT-4.1.2-6 Reducing Tee WWW



Nominal Size		A		B		SF1	SF4
Inch	mm	Inch	mm	Inch	mm	##=F1	##=F4
3/8 x 1/4	9.53 x 6.35	1.750	44.50	1.750	44.50	DT10RTB038025-##	
1/2 x 1/4	12.70 x 6.35	1.875	47.60	1.875	47.60	DT10RTB050025-##	
1/2 x 3/8	12.70 x 9.53	1.875	47.60	1.875	47.60	DT10RTB050038-##	
3/4 x 1/4	19.05 x 6.35	2.000	50.80	2.000	50.80	DT10RTB075025-##	
3/4 x 3/8	19.05 x 9.53	2.000	50.80	2.000	50.80	DT10RTB075038-##	
3/4 x 1/2	19.05 x 12.70	2.000	50.80	2.000	50.80	DT10RTB075050-##	
1 x 1/4	25.40 x 6.35	2.125	54.00	2.125	54.00	DT10RTB100025-##	
1 x 3/8	25.40 x 9.53	2.125	54.00	2.125	54.00	DT10RTB100038-##	
1 x 1/2	25.40 x 12.70	2.125	54.00	2.125	54.00	DT10RTB100050-##	
1 x 3/4	25.40 x 19.05	2.125	54.00	2.125	54.00	DT10RTB100075-##	
1 1/2 x 1/2	38.10 x 12.70	2.375	60.30	2.375	60.30	DT10RTB150050-##	
1 1/2 x 3/4	38.10 x 19.05	2.375	60.30	2.375	60.30	DT10RTB150075-##	
1 1/2 x 1	38.10 x 25.40	2.375	60.30	2.375	60.30	DT10RTB150100-##	
2 x 1/2	50.80 x 12.70	2.875	73.00	2.625	66.70	DT10RTB200050-##	
2 x 3/4	50.80 x 19.05	2.875	73.00	2.625	66.70	DT10RTB200075-##	
2 x 1	50.80 x 25.40	2.875	73.00	2.625	66.70	DT10RTB200100-##	
2 x 1 1/2	50.80 x 38.10	2.875	73.00	2.625	66.70	DT10RTB200150-##	
2 1/2 x 1/2	63.50 x 12.70	3.125	79.40	2.875	73.00	DT10RTB250050-##	
2 1/2 x 3/4	63.50 x 19.05	3.125	79.40	2.875	73.00	DT10RTB250075-##	
2 1/2 x 1	63.50 x 25.40	3.125	79.40	2.875	73.00	DT10RTB250100-##	
2 1/2 x 1 1/2	63.50 x 38.10	3.125	79.40	2.875	73.00	DT10RTB250150-##	
2 1/2 x 2	63.50 x 50.80	3.125	79.40	2.875	73.00	DT10RTB250200-##	
3 x 1/2	76.20 x 12.70	3.375	85.70	3.125	79.40	DT10RTB300050-##	
3 x 3/4	76.20 x 19.05	3.375	85.70	3.125	79.40	DT10RTB300075-##	
3 x 1	76.20 x 25.40	3.375	85.70	3.125	79.40	DT10RTB300100-##	
3 x 1 1/2	76.20 x 38.10	3.375	85.70	3.125	79.40	DT10RTB300150-##	
3 x 2	76.20 x 50.80	3.375	85.70	3.125	79.40	DT10RTB300200-##	
3 x 2 1/2	76.20 x 63.50	3.375	85.70	3.125	79.40	DT10RTB300250-##	
4 x 1/2	101.60 x 12.70	4.125	104.80	3.625	92.10	DT10RTB400050-##	
4 x 3/4	101.60 x 19.05	4.125	104.80	3.625	92.10	DT10RTB400075-##	
4 x 1	101.60 x 25.40	4.125	104.80	3.625	92.10	DT10RTB400100-##	
4 x 1 1/2	101.60 x 38.10	4.125	104.80	3.625	92.10	DT10RTB400150-##	
4 x 2	101.60 x 50.80	4.125	104.80	3.875	98.40	DT10RTB400200-##	
4 x 2 1/2	101.60 x 63.50	4.125	104.80	3.875	98.40	DT10RTB400250-##	
4 x 3	101.60 x 76.20	4.125	104.80	3.875	98.40	DT10RTB400300-##	
6 x 3	152.40 x 76.20	5.625	142.90	4.875	123.80	DT10RTB600300-##	
6 x 4	152.40 x 101.60	5.625	142.90	5.125	130.20	DT10RTB600400-##	

■ BPE TUBE FITTINGS

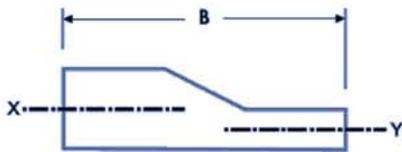
DT – 11C(a) Concentric Reducer WW



Nominal size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
3/8x1/4	9.53 x 6.35	3.250	82.60	DT11CB038025-##	
1/2x1/4	12.70 x 6.35	3.250	82.60	DT11CB050025-##	
1/2x3/8	12.70 x 9.53	3.250	82.60	DT11CB050038-##	
3/4x1/4	19.05 x 6.35	3.250	82.60	DT11CB075025-##	
3/4x3/8	19.05 x 9.53	3.250	82.60	DT11CB075038-##	
3/4x1/2	19.05 x 12.70	4.000	101.60	DT11CB075050-##	
1 x 1/4	25.40 x 6.35	4.500	114.30	DT11CB100025-##	
1 x 3/8	25.40 x 9.53	4.500	114.30	DT11CB100038-##	
1 x 1/2	25.40 x 12.70	4.500	114.30	DT11CB100050-##	
1 x 3/4	25.40 x 19.05	4.000	101.60	DT11CB100075-##	
1 1/2x1/2	38.10 x 12.70	5.500	139.70	DT11CB150050-##	
1 1/2x3/4	38.10 x 19.05	5.000	127.00	DT11CB150075-##	
1 1/2x 1	38.10 x 25.40	5.000	127.00	DT11CB150100-##	
2 x 1/2	50.80 x 12.70	7.750	196.90	DT11CB200050-##	
2 x 3/4	50.80 x 19.05	7.250	184.20	DT11CB200075-##	
2 x 1	50.80 x 25.40	7.250	184.20	DT11CB200100-##	
2 x 1 1/2	50.80 x 38.10	5.250	133.40	DT11CB200150-##	
2 1/2x1/2	63.50 x 12.70	9.750	247.70	DT11CB250050-##	
2 1/2x3/4	63.50 x 19.05	9.250	235.00	DT11CB250075-##	
2 1/2x 1	63.50 x 25.40	9.250	235.00	DT11CB250100-##	
2 1/2x 1 1/2	63.50 x 38.10	7.250	184.20	DT11CB250150-##	
2 1/2x 2	63.50 x 50.80	5.500	139.70	DT11CB250200-##	
3 x 1	76.20 x 25.40	11.250	285.80	DT11CB300100-##	
3 x 1 1/2	76.20 x 38.10	9.250	235.00	DT11CB300150-##	
3 x 2	76.20 x 50.80	7.500	190.50	DT11CB300200-##	
3 x 2 1/2	76.20 x 63.50	5.500	139.70	DT11CB300250-##	
4 x 1	101.60 x 25.40	15.500	393.70	DT11CB400100-##	
4 x 1 1/2	101.60 x 38.10	13.500	342.90	DT11CB400150-##	
4 x 2	101.60 x 50.80	11.750	298.50	DT11CB400200-##	
4 x 2 1/2	101.60 x 63.50	9.750	247.70	DT11CB400250-##	
4 x 3	101.60 x 76.20	7.750	196.90	DT11CB400300-##	
6 x 3	152.40 x 76.20	10.000	254.00	DT11CB600300-##	
6 x 4	152.40 x 101.60	10.000	254.00	DT11CB600400-##	

■ BPE TUBE FITTINGS

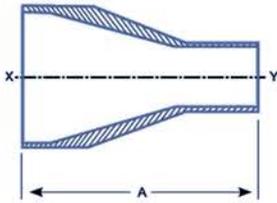
DT – 11C(a) Concentric Reducer WW



Nominal size		B		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
3/8x1/4	9.53 x 6.35	4.000	101.60	DT11EB038025-##	
1/2x1/4	12.70 x 6.35	4.000	101.60	DT11EB050025-##	
1/2x3/8	12.70 x 9.53	4.000	101.60	DT11EB050038-##	
3/4x1/4	19.05 x 6.35	4.000	101.60	DT11EB038025-##	
3/4x3/8	19.05 x 9.53	4.000	101.60	DT11EB075038-##	
3/4x1/2	19.05 x 12.70	4.000	101.60	DT11EB075050-##	
1 x 1/4	25.40 x 6.35	4.500	114.30	DT11EB100025-##	
1 x 3/8	25.40 x 9.53	4.500	114.30	DT11EB100038-##	
1 x 1/2	25.40 x 12.70	4.500	114.30	DT11EB100050-##	
1 x 3/4	25.40 x 19.05	4.000	101.60	DT11EB100075-##	
1 1/2 x 1/2	38.10 x 12.70	5.500	139.70	DT11EB150050-##	
1 1/2 x 3/4	38.10 x 19.05	5.000	127.00	DT11EB150075-##	
1 1/2 x 1	38.10 x 25.40	5.000	127.00	DT11EB150075-##	
2 x 1/2	50.80 x 12.70	7.750	196.90	DT11EB200050-##	
2 x 3/4	50.80 x 19.05	7.250	184.20	DT11EB200075-##	
2 x 1	50.80 x 25.40	7.250	184.20	DT11EB200100-##	
2 x 1 1/2	50.80 x 38.10	5.250	133.40	DT11EB200150-##	
2 1/2 x 1/2	63.50 x 12.70	9.750	247.70	DT11EB250050-##	
2 1/2 x 3/4	63.50 x 19.05	9.250	235.00	DT11EB250075-##	
2 1/2 x 1	63.50 x 25.40	9.250	235.00	DT11EB250100-##	
2 1/2 x 1 1/2	63.50 x 38.10	7.250	184.20	DT11EB250150-##	
2 1/2 x 2	63.50 x 50.80	5.500	139.70	DT11EB250200-##	
3 x 1	76.20 x 25.40	11.250	285.80	DT11EB300100-##	
3 x 1 1/2	76.20 x 38.10	9.250	235.00	DT11EB300150-##	
3 x 2	76.20 x 50.80	7.500	190.50	DT11EB300200-##	
3 x 2 1/2	76.20 x 63.50	5.500	139.70	DT11EB300250-##	
4 x 1	101.60 x 25.40	15.500	393.70	DT11EB400100-##	
4 x 1 1/2	101.60 x 38.10	13.500	342.90	DT11EB400150-##	
4 x 2	101.60 x 50.80	11.750	298.50	DT11EB400200-##	
4 x 2 1/2	101.60 x 63.50	9.750	247.70	DT11EB400250-##	
4 x 3	101.60 x 76.20	7.750	196.90	DT11EB400300-##	
6 x 3	152.40 x 76.20	9.750	247.70	DT11EB600300-##	
6 x 4	152.40 x 101.60	10.000	254.00	DT11EB600400-##	

■ BPE TUBE FITTINGS

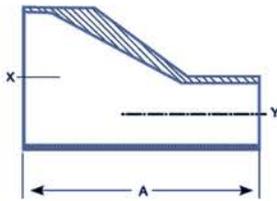
DT – 11C(b) BPE DT -4.1.3-1 Concentric Reducer WW



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
3/8x1/4	9.53 x 6.35	1.625	41.30	DT11CBB038025-##	
1/2x1/4	12.70 x 6.35	1.875	47.60	DT11CBB050025-##	
1/2x3/8	12.70 x 9.53	1.875	47.60	DT11CBB050038-##	
3/4x3/8	19.05 x 9.53	2.000	50.80	DT11CBB075038-##	
3/4x1/2	19.05 x 12.70	2.125	54.00	DT11CBB075050-##	
1 x 1/2	25.40 x 12.70	2.500	63.50	DT11CBB100050-##	
1 x 3/4	25.40 x 19.05	2.125	54.00	DT11CBB100075-##	
1 1/2 x 3/4	38.10 x 19.05	3.000	76.20	DT11CBB150075-##	
1 1/2 x 1	38.10 x 25.40	2.500	63.50	DT11CBB150100-##	
2 x 1	50.80 x 25.40	3.375	85.70	DT11CBB200100-##	
2 x 1 1/2	50.80 x 38.10	2.500	63.50	DT11CBB200150-##	
2 1/2 x 1 1/2	63.50 x 38.10	3.375	85.70	DT11CBB250150-##	
2 1/2 x 2	63.50 x 50.80	2.500	63.50	DT11CBB250200-##	
3 x 1 1/2	76.20 x 38.10	4.250	108.00	DT11CBB300150-##	
3 x 2	76.20 x 50.80	3.375	85.70	DT11CBB300200-##	
3 x 2 1/2	76.20 x 63.50	2.625	66.70	DT11CBB300250-##	
4 x 2	101.60 x 50.80	5.125	130.20	DT11CBB400200-##	
4 x 2 1/2	101.60 x 63.50	4.250	108.00	DT11CBB400250-##	
4 x 3	101.60 x 76.20	3.875	98.40	DT11CBB400300-##	
6 x 3	152.40 x 76.20	7.250	184.20	DT11CBB600300-##	
6 x 4	152.40 x 101.60	5.625	142.90	DT11CBB600400-##	

■ BPE TUBE FITTINGS

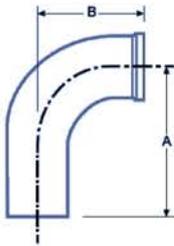
DT – 11E(b) BPE DT -4.1.3-1 Eccentric Reducer WW



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##= F4
3/8x1/4	9.53 x 6.35	1.625	41.30	DT11EBB038025-##	
1/2x1/4	12.70 x 6.35	1.875	47.60	DT11EBB050025-##	
1/2x3/8	12.70 x 9.53	1.875	47.60	DT11EBB050038-##	
3/4x3/8	19.05 x 9.53	2.000	50.80	DT11EBB075038-##	
3/4x1/2	19.05 x 12.70	2.125	54.00	DT11EBB075050-##	
1 x 1/2	25.40 x 12.70	2.500	63.50	DT11EBB100050-##	
1 x 3/4	25.40 x 19.05	2.125	54.00	DT11EBB100075-##	
1 1/2 x 3/4	38.10 x 19.05	3.000	76.20	DT11EBB150075-##	
1 1/2 x 1	38.10 x 25.40	2.500	63.50	DT11EBB150100-##	
2 x 1	50.80 x 25.40	3.375	85.70	DT11EBB200100-##	
2 x 1 1/2	50.80 x 38.10	2.500	63.50	DT11EBB200150-##	
2 1/2 x 1 1/2	63.50 x 38.10	3.375	85.70	DT11EBB250150-##	
2 1/2 x 2	63.50 x 50.80	2.500	63.50	DT11EBB250200-##	
3 x 1 1/2	76.20 x 38.10	4.250	108.00	DT11EBB300150-##	
3 x 2	76.20 x 50.80	3.375	85.70	DT11EBB300200-##	
3 x 2 1/2	76.20 x 63.50	2.625	66.70	DT11EBB300250-##	
4 x 2	101.60 x 50.80	5.125	130.20	DT11EBB400200-##	
4 x 2 1/2	101.60 x 63.50	4.250	108.00	DT11EBB400250-##	
4 x 3	101.60 x 76.20	3.875	98.40	DT11EBB400300-##	
6 x 3	152.40 x 76.20	7.250	184.20	DT11EBB600300-##	
6 x 4	152.40 x 101.60	5.625	142.90	DT11EBB600400-##	

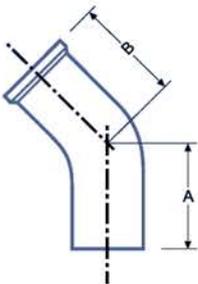
■ BPE TUBE FITTINGS

DT-12 DT-4.1.1-2 90° Elbow CW



Nominal Size		A		B		SF1	SF4
Inch	mm	Inch	mm	Inch	mm	##=F1	##=F4
1/4	6.35	2.625	66.70	1.625	41.30	DT1290B025-##	
3/8	9.53	2.625	66.70	1.625	41.30	DT1290B038-##	
1/2	12.70	3.000	76.20	1.625	41.30	DT1290B050-##	
3/4	19.05	3.000	76.20	1.625	41.30	DT1290B075-##	
1	25.40	3.000	76.20	2.000	50.80	DT1290B100-##	
1 1/2	38.10	3.750	95.30	2.750	69.90	DT1290B150-##	
2	50.80	4.750	120.70	3.500	88.90	DT1290B200-##	
2 1/2	63.50	5.500	139.70	4.250	108.00	DT1290B250-##	
3	76.20	6.250	158.80	5.000	127.00	DT1290B300-##	
4	101.60	8.000	203.20	6.625	168.20	DT1290B400-##	
6	152.40	11.500	292.10	10.500	266.70	DT1290B600-##	

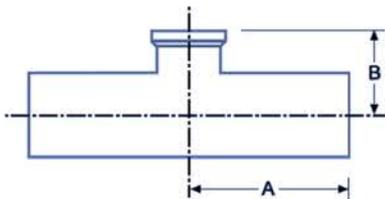
DT-13 DT-4.1.1-5 1/4 45° Elbow CW



Nominal Size		A		B		SF1	SF4
Inch	mm	Inch	mm	Inch	mm	##=F1	##=F4
1/4	6.35	2.000	50.80	1.000	25.40	DT1345B025-##	
3/8	9.53	2.000	50.80	1.000	25.40	DT1345B038-##	
1/2	12.70	2.250	57.20	1.000	25.40	DT1345B050-##	
3/4	19.05	2.250	57.20	1.000	25.40	DT1345B075-##	
1	25.40	2.250	57.20	1.125	28.60	DT1345B100-##	
1 1/2	38.10	2.500	63.50	1.438	36.50	DT1345B150-##	
2	50.80	3.000	76.20	1.750	44.50	DT1345B200-##	
2 1/2	63.50	3.375	85.70	2.063	52.40	DT1345B250-##	
3	76.20	3.625	92.10	2.375	60.30	DT1345B300-##	
4	101.60	4.500	114.30	3.125	79.40	DT1345B400-##	
6	152.40	6.250	158.80	5.250	133.40	DT1345B600-##	

BPE TUBE FITTINGS

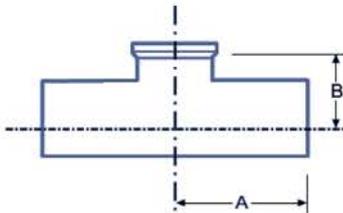
DT-14 DT-4.1.2-7 Short Outlet Reducing Tee WCW



Nominal Size		A		B		SF1	SF4
Inch	mm	Inch	mm	Inch	mm	##=F1	##=F4
3/8 x 1/4	9.53 x 6.35	1.750	44.50	1.000	25.40	DT14RTB038025-##	
1/2 x 1/4	12.70 x 6.35	1.875	47.60	1.000	25.40	DT14RTB050025-##	
1/2 x 3/8	12.70 x 9.53	1.875	47.60	1.000	25.40	DT14RTB050038-##	
3/4 x 3/8	19.05 x 9.53	2.000	50.80	1.000	25.40	DT14RTB075038-##	
3/4 x 1/2	19.05 x 12.70	2.000	50.80	1.000	25.40	DT14RTB075050-##	
1 x 1/4	25.40 x 6.35	2.125	54.00	1.125	28.60	DT14RTB100025-##	
1 x 3/8	25.40 x 9.53	2.125	54.00	1.125	28.60	DT14RTB100038-##	
1 x 1/2	25.40 x 12.70	2.125	54.00	1.125	28.60	DT14RTB100050-##	
1 x 3/4	25.40 x 19.05	2.125	54.00	1.125	28.60	DT14RTB100075-##	
1 1/2 x 1/2	38.10 x 12.70	2.375	60.30	1.375	34.90	DT14RTB150050-##	
1 1/2 x 3/4	38.10 x 19.05	2.375	60.30	1.375	34.90	DT14RTB150075-##	
1 1/2 x 1	38.10 x 25.40	2.375	60.30	1.375	34.90	DT14RTB150100-##	
2 x 1/2	50.80 x 12.70	2.875	73.00	1.625	41.30	DT14RTB200050-##	
2 x 3/4	50.80 x 19.05	2.875	73.00	1.625	41.30	DT14RTB200075-##	
2 x 1	50.80 x 25.40	2.875	73.00	1.625	41.30	DT14RTB200100-##	
2 x 1 1/2	50.80 x 38.10	2.875	73.00	1.625	41.30	DT14RTB200150-##	
2 1/2 x 1/2	63.50 x 12.70	3.125	79.40	1.875	47.60	DT14RTB250050-##	
2 1/2 x 3/4	63.50 x 19.05	3.125	79.40	1.875	47.60	DT14RTB250075-##	
2 1/2 x 1	63.50 x 25.40	3.125	79.40	1.875	47.60	DT14RTB250100-##	
2 1/2 x 1 1/2	63.50 x 38.10	3.125	79.40	1.875	47.60	DT14RTB250150-##	
2 1/2 x 2	63.50 x 50.80	3.125	79.40	1.875	47.60	DT14RTB250200-##	
3 x 1/2	76.20 x 12.70	3.375	85.70	2.125	54.00	DT14RTB300050-##	
3 x 3/4	76.20 x 19.05	3.375	85.70	2.125	54.00	DT14RTB300075-##	
3 x 1	76.20 x 25.40	3.375	85.70	2.125	54.00	DT14RTB300100-##	
3 x 1 1/2	76.20 x 38.10	3.375	85.70	2.125	54.00	DT14RTB300150-##	
3 x 2	76.20 x 50.80	3.375	85.70	2.125	54.00	DT14RTB300200-##	
3 x 2 1/2	76.20 x 63.50	3.375	85.70	2.125	54.00	DT14RTB300250-##	
4 x 1/2	101.60 x 12.70	4.125	104.80	2.625	66.70	DT14RTB400050-##	
4 x 3/4	101.60 x 19.05	4.125	104.80	2.625	66.70	DT14RTB400075-##	
4 x 1	101.60 x 25.40	4.125	104.80	2.625	66.70	DT14RTB400100-##	
4 x 1 1/2	101.60 x 38.10	4.125	104.80	2.625	66.70	DT14RTB400150-##	
4 x 2	101.60 x 50.80	4.125	104.80	2.625	66.70	DT14RTB400200-##	
4 x 2 1/2	101.60 x 63.50	4.125	104.80	2.625	66.70	DT14RTB400250-##	
4 x 3	101.60 x 76.20	4.125	104.80	2.625	66.70	DT14RTB400300-##	
6 x 1/2	152.40 x 12.70	5.625	142.90	3.625	92.10	DT14RTB600050-##	
6 x 3/4	152.40 x 19.05	5.625	142.90	3.625	92.10	DT14RTB600075-##	
6 x 1	152.40 x 25.40	5.625	142.90	3.625	92.10	DT14RTB600100-##	
6 x 1 1/2	152.40 x 38.10	5.625	142.90	3.625	92.10	DT14RTB600150-##	
6 x 2	152.40 x 50.80	5.625	142.90	3.625	92.10	DT14RTB600200-##	
6 x 2 1/2	152.40 x 63.50	5.625	142.90	3.625	92.10	DT14RTB600250-##	
6 x 3	152.40 x 76.20	5.625	142.90	3.625	92.10	DT14RTB600300-##	
6 x 4	152.40 x 101.60	5.625	142.90	3.750	95.30	DT14RTB600400-##	

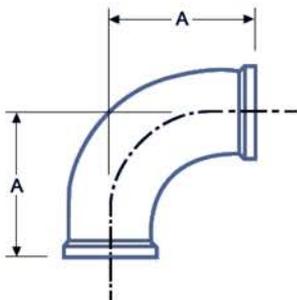
■ BPE TUBE FITTINGS

DT-15 DT-4.1.2-2 Short Outlet Equal Tee WCW



Nominal Size		A		B		SF1	SF4
Inch	mm	Inch	mm	Inch	mm	##=F1	##=F4
1/4	6.35	1.750	44.50	1.000	25.40	DT15ETB025-##	
3/8	9.53	1.750	44.50	1.000	25.40	DT15ETB038-##	
1/2	12.70	1.875	47.60	1.000	25.40	DT15ETB050-##	
3/4	19.05	2.000	50.80	1.125	28.60	DT15ETB075-##	
1	25.40	2.125	54.00	1.125	28.60	DT15ETB100-##	
1 1/2	38.10	2.375	60.30	1.375	34.90	DT15ETB150-##	
2	50.80	2.875	73.00	1.625	41.30	DT15ETB200-##	
2 1/2	63.50	3.125	79.40	1.875	47.60	DT15ETB250-##	
3	76.20	3.375	85.70	2.125	54.00	DT15ETB300-##	
4	101.60	4.125	104.80	2.750	69.90	DT15ETB400-##	
6	152.40	5.625	142.90	4.625	117.50	DT15ETB600-##	

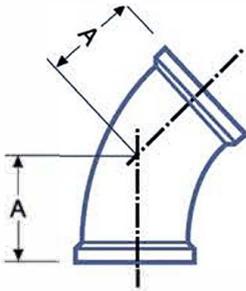
DT-16 DT-4.1.1-3 90° Clamp Elbow CC



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
1/4	6.35	1.625	41.30	DT1690B025-##	
3/8	9.53	1.625	41.30	DT1690B038-##	
1/2	12.70	1.625	41.30	DT1690B050-##	
3/4	19.05	1.625	41.30	DT1690B075-##	
1	25.40	2.000	50.80	DT1690B100-##	
1 1/2	38.10	2.750	69.90	DT1690B150-##	
2	50.80	3.500	88.90	DT1690B200-##	
2 1/2	63.50	4.250	108.00	DT1690B250-##	
3	76.20	5.000	127.00	DT1690B300-##	
4	101.60	6.625	168.30	DT1690B400-##	
6	152.40	10.500	266.70	DT1690B600-##	

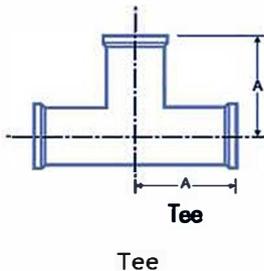
■ BPE TUBE FITTINGS

DT-17 DT-4.1.1-6 45° Clamp Elbow CC



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
1/4	6.35	1.000	25.40	DT1745B025-##	
3/8	9.53	1.000	25.40	DT1745B038-##	
1/2	12.70	1.000	25.40	DT1745B050-##	
3/4	19.05	1.000	25.40	DT1745B075-##	
1	25.40	1.125	28.60	DT1745B100-##	
1 1/2	38.10	1.438	36.50	DT1745B150-##	
2	50.80	1.750	44.50	DT1745B200-##	
2 1/2	63.50	2.063	52.40	DT1745B250-##	
3	76.20	2.375	60.30	DT1745B300-##	
4	101.60	3.125	79.40	DT1745B400-##	
6	152.40	5.250	133.40	DT1745B600-##	

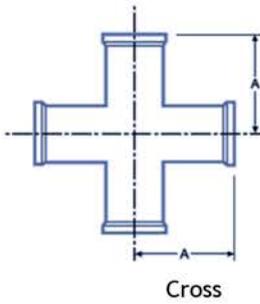
DT-18 DT-4.1.2-4 Clamp Equal Tee CCC



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
1/4	6.35	2.250	57.20	DT18B025-##	
3/8	9.53	2.250	57.20	DT18B038-##	
1/2	12.70	2.250	60.33	DT18B050-##	
3/4	19.05	2.375	63.50	DT18B075-##	
1	25.40	2.625	66.70	DT18B100-##	
1 1/2	38.10	2.875	73.00	DT18B150-##	
2	50.80	3.375	85.70	DT18B200-##	
2 1/2	63.50	3.625	92.10	DT18B250-##	
3	76.20	3.875	98.40	DT18B300-##	
4	101.60	4.750	120.70	DT18B400-##	
6	152.40	7.125	181.00	DT18B600-##	

■ BPE TUBE FITTINGS

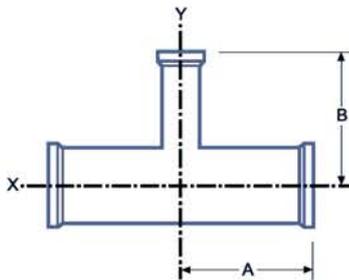
DT-18C DT-4.1.2-4 Clamp Equal Cross



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
1/4	6.35	2.250	57.20		DT18CB025-##
3/8	9.53	2.250	57.20		DT18CB038-##
1/2	12.70	2.250	57.20		DT18CB050-##
3/4	19.05	2.375	60.30		DT18CB075-##
1	25.40	2.625	66.70		DT18CB100-##
1 1/2	38.10	2.875	73.00		DT18CB150-##
2	50.80	3.375	85.70		DT18CB200-##
2 1/2	63.50	3.625	92.10		DT18CB250-##
3	76.20	3.875	98.40		DT18CB300-##
4	101.60	4.750	120.70		DT18CB400-##
6	152.40	7.125	181.00		DT18CB600-##

BPE TUBE FITTINGS

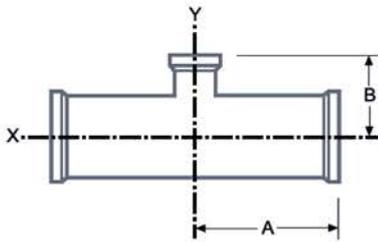
DT-19 DT-4.1.2-8 Clamp Reducing Tee CCC



Nominal Size		A		B		SF1	SF4
Inch	mm	Inch	mm	Inch	mm	##=F1	##=F4
3/8 x 1/4	9.53 x 6.35	2.250	57.20	2.250	57.20	DT19RTB038025-##	
1/2 x 1/4	12.70 x 6.35	2.375	60.30	2.375	60.30	DT19RTB050025-##	
1/2 x 3/8	12.70 x 9.53	2.375	60.30	2.375	60.30	DT19RTB050038-##	
3/4 x 1/4	19.05 x 6.35	2.500	63.50	2.500	63.50	DT19RTB075025-##	
3/4 x 3/8	19.05 x 9.53	2.500	63.50	2.500	63.50	DT19RTB075038-##	
3/4 x 1/2	19.05 x 12.70	2.500	63.50	2.500	63.50	DT19RTB075050-##	
1 x 1/4	25.40 x 6.35	2.625	66.70	2.625	66.70	DT19RTB100025-##	
1 x 3/8	25.40 x 9.53	2.625	66.70	2.625	66.70	DT19RTB100038-##	
1 x 1/2	25.40 x 12.70	2.625	66.70	2.625	66.70	DT19RTB100050-##	
1 x 3/4	25.40 x 19.05	2.625	66.70	2.625	66.70	DT19RTB100075-##	
1 1/2 x 1/2	38.10 x 12.70	2.875	73.00	2.875	73.00	DT19RTB150075-##	
1 1/2 x 3/4	38.10 x 19.05	2.875	73.00	2.875	73.00	DT19RTB150075-##	
1 1/2 x 1	38.10 x 25.40	2.875	73.00	2.875	73.00	DT19RTB150100-##	
2 x 1/2	50.80 x 12.70	3.375	85.70	3.125	79.40	DT19RTB200050-##	
2 x 3/4	50.80 x 19.05	3.375	85.70	3.125	79.40	DT19RTB200075-##	
2 x 1	50.80 x 25.40	3.375	85.70	3.125	79.40	DT19RTB200100-##	
2 x 1 1/2	50.80 x 38.10	3.375	85.70	3.125	79.40	DT19RTB200150-##	
2 1/2 x 1/2	63.50 x 12.70	3.625	92.10	3.375	85.70	DT19RTB250050-##	
2 1/2 x 3/4	63.50 x 19.05	3.625	92.10	3.375	85.70	DT19RTB250075-##	
2 1/2 x 1	63.50 x 25.40	3.625	92.10	3.375	85.70	DT19RTB250100-##	
2 1/2 x 1 1/2	63.50 x 38.10	3.625	92.10	3.375	85.70	DT19RTB250150-##	
2 1/2 x 2	63.50 x 50.80	3.625	92.10	3.375	85.70	DT19RTB250200-##	
3 x 1/2	76.20 x 12.70	3.875	98.40	3.625	92.10	DT19RTB300050-##	
3 x 3/4	76.20 x 19.05	3.875	98.40	3.625	92.10	DT19RTB300075-##	
3 x 1	76.20 x 25.40	3.875	98.40	3.625	92.10	DT19RTB300100-##	
3 x 1 1/2	76.20 x 38.10	3.875	98.40	3.625	92.10	DT19RTB300150-##	
3 x 2	76.20 x 50.80	3.875	98.40	3.625	92.10	DT19RTB300200-##	
3 x 2 1/2	76.20 x 63.50	3.875	98.40	3.625	92.10	DT19RTB300250-##	
4 x 1/2	101.60 x 12.70	4.750	120.70	4.125	104.80	DT19RTB400050-##	
4 x 3/4	101.60 x 19.05	4.750	120.70	4.125	104.80	DT19RTB400075-##	
4 x 1	101.60 x 25.40	4.750	120.70	4.125	104.80	DT19RTB400100-##	
4 x 1 1/2	101.60 x 38.10	4.750	120.70	4.125	104.80	DT19RTB400150-##	
4 x 2	101.60 x 50.80	4.750	120.70	4.375	111.10	DT19RTB400200-##	
4 x 2 1/2	101.60 x 63.50	4.750	120.70	4.375	111.10	DT19RTB400250-##	
4 x 3	101.60 x 76.20	4.750	120.70	4.375	111.10	DT19RTB400300-##	
6 x 3	152.40 x 76.20	7.125	181.00	5.375	136.50	DT19RTB600300-##	
6 x 4	152.40 x 101.60	7.125	181.00	5.750	146.10	DT19RTB600400-##	

BPE TUBE FITTINGS

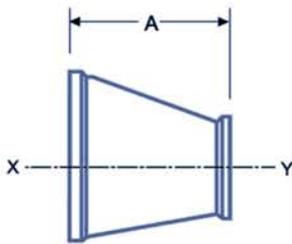
DT-20 DT-4.1.2-9 Short Outlet Reducing Tee CCC



Nominal Size		A		B		SF1	SF4
Inch	mm	Inch	mm	Inch	mm	##-F1	##-F4
3/8 x 1/4	9.53 x 6.35	2.250	57.20	1.000	25.40		DT20RTB038025-##
1/2 x 1/4	12.70 x 6.35	2.375	60.30	1.000	25.40		DT20RTB050025-##
1/2 X 3/8	12.70 X 9.53	2.375	60.30	1.000	25.40		DT20RTB050038-##
3/4 x 1/4	19.05 x 6.35	2.500	63.50	1.000	25.40		DT20RTB075025-##
3/4 x 3/8	19.05 x 9.53	2.500	63.50	1.000	25.40		DT20RTB075038-##
3/4 x 1/2	19.05 x 12.70	2.500	63.50	1.000	25.40		DT20RTB075050-##
1 x 1/4	25.40 x 6.35	2.625	66.70	1.125	28.60		DT20RTB100025-##
1 x 3/8	25.40 x 9.53	2.625	66.70	1.125	28.60		DT20RTB100038-##
1 x 1/2	25.40 x 12.70	2.625	66.70	1.125	28.60		DT20RTB100050-##
1 x 3/4	25.40 x 19.05	2.625	66.70	1.125	28.60		DT20RTB100075-##
1 1/2 x 1/2	38.10 x 12.70	2.875	73.00	1.375	34.90		DT20RTB150050-##
1 1/2 x 3/4	38.10 x 19.05	2.875	73.00	1.375	34.90		DT20RTB150075-##
1 1/2 x 1	38.10 x 25.40	2.875	73.00	1.375	34.90		DT20RTB150100-##
2 x 1/2	50.80 x 12.70	3.375	85.70	1.625	41.30		DT20RTB200050-##
2 x 3/4	50.80 x 19.05	3.375	85.70	1.625	41.30		DT20RTB200075-##
2 x 1	50.80 x 25.40	3.375	85.70	1.625	41.30		DT20RTB200100-##
2 x 1 1/2	50.80 x 38.10	3.375	85.70	1.625	41.30		DT20RTB200150-##
2 1/2 x 1/2	63.50 x 12.70	3.625	92.10	1.875	47.60		DT20RTB250050-##
2 1/2 x 3/4	63.50 x 19.05	3.625	92.10	1.875	47.60		DT20RTB250075-##
2 1/2 x 1	63.50 x 25.40	3.625	92.10	1.875	47.60		DT20RTB250100-##
2 1/2 x 1 1/2	63.50 x 38.10	3.625	92.10	1.875	47.60		DT20RTB250150-##
2 1/2 x 2	63.50 x 50.80	3.625	92.10	1.875	47.60		DT20RTB250200-##
3 x 1/2	76.20 x 12.70	3.875	98.40	2.125	54.00		DT20RTB300050-##
3 x 3/4	76.20 x 19.05	3.875	98.40	2.125	54.00		DT20RTB300075-##
3 x 1	76.20 x 25.40	3.875	98.40	2.125	54.00		DT20RTB300100-##
3 x 1 1/2	76.20 x 38.10	3.875	98.40	2.125	54.00		DT20RTB300250-##
3 x 2	76.20 x 50.80	3.875	98.40	2.125	54.00		DT20RTB300200-##
3 x 2 1/2	76.20 x 63.50	3.875	98.40	2.125	54.00		DT20RTB300250-##
4 x 1/2	101.60 x 12.70	4.750	120.70	2.625	66.70		DT20RTB400050-##
4 x 3/4	101.60 x 19.05	4.750	120.70	2.625	66.70		DT20RTB400075-##
4 x 1	101.60 x 25.40	4.750	120.70	2.625	66.70		DT20RTB400100-##
4 x 1 1/2	101.60 x 38.10	4.750	120.70	2.625	66.70		DT20RTB400150-##
4 x 2	101.60 x 50.80	4.750	120.70	2.625	66.70		DT20RTB400200-##
4 x 2 1/2	101.60 x 63.50	4.750	120.70	2.625	66.70		DT20RTB400250-##
4 x 3	101.60 x 76.20	4.750	120.70	2.625	66.70		DT20RTB400300-##
6 x 1/2	152.40 x 12.70	7.125	181.00	3.625	92.10		DT20RTB600050-##
6 x 3/4	152.40 x 19.05	7.125	181.00	3.625	92.10		DT20RTB600075-##
6 x 1	152.40 x 25.40	7.125	181.00	3.625	92.10		DT20RTB600100-##
6 x 1 1/2	152.40 x 38.40	7.125	181.00	3.625	92.10		DT20RTB600150-##
6 x 2	152.40 x 50.80	7.125	181.00	3.625	92.10		DT20RTB600200-##
6 x 2 1/2	152.40 x 63.50	7.125	181.00	3.625	92.10		DT20RTB600250-##
6 x 3	152.40 x 76.20	7.125	181.00	3.625	92.10		DT20RTB600300-##
6 x 4	152.40 x 101.60	7.125	181.00	3.750	95.30		DT20RTB600400-##

■ BPE TUBE FITTINGS

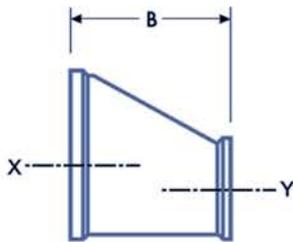
DT-21C(a) Concentric Reducer CC



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
3/4 x 1/2	19.05 x 12.70	2.000	50.80		DT21CB075050-##
1 x 1/2	25.40 x 12.70	2.500	63.50		DT21CB100050-##
1 x 3/4	25.40 x 19.05	2.000	50.80		DT21CB100075-##
1 1/2 x 1/2	38.10 x 12.70	3.500	88.90		DT21CB150050-##
1 1/2 x 3/4	38.10 x 19.05	3.000	76.20		DT21CB150075-##
1 1/2 x 1	38.10 x 25.40	3.000	76.20		DT21CB150100-##
2 x 1/2	50.80 x 12.70	5.500	139.70		DT21CB200050-##
2 x 3/4	50.80 x 19.05	5.000	127.00		DT21CB200075-##
2 x 1	50.80 x 25.40	5.000	127.00		DT21CB200100-##
2 x 1 1/2	50.80 x 38.10	3.000	76.20		DT21CB200150-##
2 1/2 x 1/2	63.50 x 12.70	7.500	190.50		DT21CB250050-##
2 1/2 x 3/4	63.50 x 19.05	7.000	177.80		DT21CB250075-##
2 1/2 x 1	63.50 x 25.40	7.000	177.80		DT21CB250100-##
2 1/2 x 1 1/2	63.50 x 38.10	5.000	127.00		DT21CB250150-##
2 1/2 x 2	63.50 x 50.80	3.000	76.20		DT21CB250200-##
3 x 1	76.20 x 25.40	9.000	228.60		DT12CB300100-##
3 x 1 1/2	76.20 x 38.10	7.000	177.80		DT21CB300150-##
3 x 2	76.20 x 50.80	5.000	127.00		DT21CB300200-##
3 x 2 1/2	76.20 x 63.50	3.000	76.20		DT21CB300250-##
4 x 1	101.60 x 25.40	13.125	333.40		DT21CB400100-##
4 x 1 1/2	101.60 x 38.10	11.125	282.60		DT21CB400150-##
4 x 2	101.60 x 50.80	9.125	231.80		DT21CB400200-##
4 x 2 1/2	101.60 x 63.50	7.125	181.00		DT21CB400250-##
4 x 3	101.60 x 76.20	5.125	130.20		DT21CB400300-##
6 x 3	152.40 x 76.20	7.500	190.50		DT21CB600300-##
6 x 4	152.40 x 101.60	7.625	193.70		DT21CB600400-##

■ BPE TUBE FITTINGS

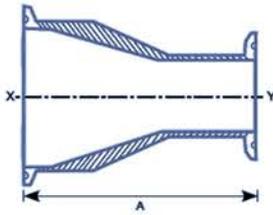
DT-21E(a) Eccentric Reducer CO



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
3/4 x 1/2	19.05 x 12.70	2.000	50.80	DT21EB075050-##	
1 x 1/2	25.40 x 12.70	2.500	63.50	DT21EB100050-##	
1 x 3/4	25.40 x 19.05	2.000	50.80	DT21EB100075-##	
1 1/2 x 1/2	38.10 x 12.70	3.500	88.90	DT21EB150050-##	
1 1/2 x 3/4	38.10 x 19.05	3.000	76.20	DT21EB105075-##	
1 1/2 x 1	38.10 x 25.40	3.000	76.20	DT21EB150100-##	
2 x 1/2	50.80 x 12.70	5.500	139.70	DT21EB200050-##	
2 x 3/4	50.80 x 19.05	5.000	127.00	DT21EB200075-##	
2 x 1	50.80 x 25.40	5.000	127.00	DT21EB200100-##	
2 x 1 1/2	50.80 x 38.10	3.000	76.20	DT21EB200150-##	
2 1/2 x 1/2	63.50 x 12.70	7.500	190.50	DT21EB250050-##	
2 1/2 x 3/4	63.50 x 19.05	7.000	177.80	DT21EB250075-##	
2 1/2 x 1	63.50 x 25.40	7.000	177.80	DT21EB250100-##	
2 1/2 x 1 1/2	63.50 x 38.10	5.000	127.00	DT21EB250150-##	
2 1/2 x 2	63.50 x 50.80	3.000	76.20	DT21EB250200-##	
3 x 1	76.20 x 25.40	9.000	228.60	DT21EB300100-##	
3 x 1 1/2	76.20 x 38.10	7.000	177.80	DT21EB300150-##	
3 x 2	76.20 x 50.80	5.000	127.00	DT21EB300200-##	
3 x 2 1/2	76.20 x 63.50	3.000	76.20	DT21EB300250-##	
4 x 1	101.60 x 25.40	13.125	333.40	DT21EB400100-##	
4 x 1 1/2	101.60 x 38.10	11.125	282.60	DT21EB400150-##	
4 x 2	101.60 x 50.80	9.125	231.80	DT21EB400200-##	
4 x 2 1/2	101.60 x 63.50	7.125	181.00	DT21EB400250-##	
4 x 3	101.60 x 76.20	5.125	130.20	DT21EB400300-##	
6 x 3	152.40 x 76.20	7.625	193.70	DT21EB600300-##	
6 x 4	152.40 x 101.60	7.625	193.70	DT21EB600400-##	

■ BPE TUBE FITTINGS

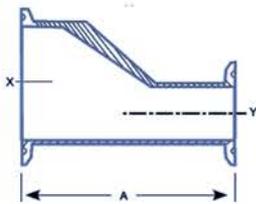
DT-21C(b) DT-4.1.3-3 Concentric Reducer CC



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
3/8 x 1/4	9.53 x 6.35	2.625	66.70	DT21CBB038025-##	
1/2 x 1/4	12.70 x 6.35	2.875	73.00	DT21CBB050024-##	
1/2 x 3/8	12.70 x 9.53	2.875	73.00	DT21CBB050038-##	
3/4 x 3/8	19.05 x 9.53	3.000	76.20	DT21CBB075038-##	
3/4 x 1/2	19.05 x 12.70	3.125	79.40	DT21CBB075050-##	
1 x 1/2	25.40 x 12.70	3.500	88.90	DT21CBB100050-##	
1 x 3/4	25.40 x 19.05	3.125	79.40	DT21CBB100075-##	
1 1/2 x 3/4	38.10 x 19.05	4.000	101.60	DT21CBB150075-##	
1 1/2 x 1	38.10 x 25.40	3.500	88.90	DT21CBB150100-##	
2 x 1	50.80 x 25.40	4.375	111.10	DT21CBB200100-##	
2 x 1 1/2	50.80 x 38.10	3.500	88.90	DT21CBB200150-##	
2 1/2 x 1 1/2	63.50 x 38.10	4.375	111.10	DT21CBB250150-##	
2 1/2 x 2	63.50 x 50.80	3.500	88.90	DT21CBB250200-##	
3 x 1 1/2	76.20 x 38.10	5.250	133.40	DT21CBB300150-##	
3 x 2	76.20 x 50.80	4.375	111.10	DT21CBB300200-##	
3 x 2 1/2	76.20 x 63.50	3.625	92.10	DT21CBB300250-##	
4 x 2	101.60 x 50.80	6.250	158.80	DT21CBB400200-##	
4 x 2 1/2	101.60 x 63.50	5.375	136.50	DT21CBB400250-##	
4 x 3	101.60 x 76.20	5.000	127.00	DT21CBB400300-##	
6 x 3	152.40 x 76.20	8.500	215.90	DT21CBB600300-##	
6 x 4	152.40 x 101.60	7.000	177.80	DT21CBB600400-##	

■ BPE TUBE FITTINGS

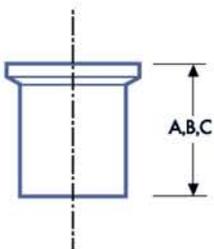
DT-21C(b) DT-4.1.3-3 Concentric Reducer CC



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
3/8 x 1/4	9.53 x 6.35	2.625	66.70	DT21EBB038025-##	
1/2 x 1/4	12.70 x 6.35	2.875	73.00	DT21EBB050024-##	
1/2 x 3/8	12.70 x 9.53	2.875	73.00	DT21EBB050038-##	
3/4 x 3/8	19.05 x 9.53	3.000	76.20	DT21EBB075038-##	
3/4 x 1/2	19.05 x 12.70	3.125	79.40	DT21EBB075050-##	
1 x 1/2	25.40 x 12.70	3.500	88.90	DT21EBB100050-##	
1 x 3/4	25.40 x 19.05	3.125	79.40	DT21EBB100075-##	
1 1/2 x 3/4	38.10 x 19.05	4.000	101.60	DT21EBB150075-##	
1 1/2 x 1	38.10 x 25.40	3.500	88.90	DT21EBB150100-##	
2 x 1	50.80 x 25.40	4.375	111.10	DT21EBB200100-##	
2 x 1 1/2	50.80 x 38.10	3.500	88.90	DT21EBB200150-##	
2 1/2 x 1 1/2	63.50 x 38.10	4.375	111.10	DT21EBB250150-##	
2 1/2 x 2	63.50 x 50.80	3.500	88.90	DT21EBB250200-##	
3 x 1 1/2	76.20 x 38.10	5.250	133.40	DT21EBB300150-##	
3 x 2	76.20 x 50.80	4.375	111.10	DT21EBB300200-##	
3 x 2 1/2	76.20 x 63.50	3.625	92.10	DT21EBB300250-##	
4 x 2	101.60 x 50.80	6.250	158.80	DT21EBB400200-##	
4 x 2 1/2	101.60 x 63.50	5.375	136.50	DT21EBB400250-##	
4 x 3	101.60 x 76.20	5.000	127.00	DT21EBB400300-##	
6 x 3	152.40 x 76.20	8.500	215.90	DT21EBB600300-##	
6 x 4	152.40 x 101.60	7.000	177.80	DT21EBB600400-##	

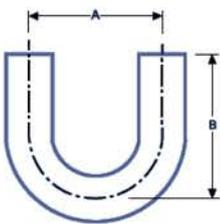
■ BPE TUBE FITTINGS

DT-22A DT-22B DT-22C DT-4.1.4-1 Ferrule



Nominal Size	A				DT-22A		B		DT-22B		C		DT-22C	
	Inch	mm	Inch	mm	SF1 ##=F1	SF4 ##=F4	Inch	mm	SF1 ##=F1	SF4 ##=F4	Inch	mm	SF1 ##=F1	SF4 ##=F4
1/4	6.35	1.750	44.50		DT22AB025-##		1.130	28.70	DT22BB025-##		0.500	12.70		DT22CB025-##
3/8	9.53	1.750	44.50		DT22AB038-##		1.130	28.70	DT22BB038-##		0.500	12.70		DT22CB038-##
1/2	12.70	1.750	44.50		DT22AB050-##		1.130	28.70	DT22BB050-##		0.500	12.70		DT22CB050-##
3/4	19.05	1.750	44.50		DT22AB075-##		1.130	28.70	DT22BB075-##		0.500	12.70		DT22CB075-##
1	25.40	1.750	44.50		DT22AB100-##		1.130	28.70	DT22BB100-##		0.500	12.70		DT22CB100-##
1 1/2	38.10	1.750	44.50		DT22AB150-##		1.130	28.70	DT22BB150-##		0.500	12.70		DT22CB150-##
2	50.80	2.250	57.20		DT22AB200-##		1.130	28.70	DT22BB200-##		0.500	12.70		DT22CB200-##
2 1/2	63.50	2.250	57.20		DT22AB250-##		1.130	28.70	DT22BB250-##		0.500	12.70		DT22CB250-##
3	76.20	2.250	57.20		DT22AB300-##		1.130	28.70	DT22BB300-##		0.500	12.70		DT22CB300-##
4	101.60	2.250	57.20		DT22AB400-##		1.130	28.70	DT22BB400-##		0.625	15.90		DT22CB400-##
6	152.40	3.000	76.20		DT22AB600-##		1.500	38.10	DT22BB600-##		0.750	19.10		DT22CB600-##

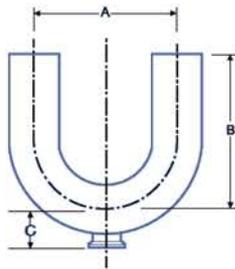
DT-23 DT-4.1.1-7 180° Return Bend WW



Nominal Size	A		B		SF1	SF4
	Inch	mm	Inch	mm	##=F1	##=F4
1/4	6.35	4.500	114.30	2.625	66.70	DT23B025-##
3/8	9.53	4.500	114.30	2.625	66.70	DT23B038-##
1/2	12.70	4.500	114.30	3.000	76.20	DT23B050-##
3/4	19.05	4.500	114.30	3.000	76.20	DT23B075-##
1	25.40	3.000	76.20	3.000	76.20	DT23B100-##
1 1/2	38.10	4.500	114.30	4.500	114.30	DT23B150-##
2	50.80	6.000	152.40	5.000	127.00	DT23B200-##
2 1/2	63.50	7.500	190.50	5.750	146.10	DT23B250-##
3	76.20	9.000	228.60	6.500	165.10	DT23B300-##
4	101.60	12.000	304.80	8.500	215.90	DT23B400-##
6	152.40	18.000	457.20	11.500	292.10	DT23B600-##

■ BPE TUBE FITTINGS

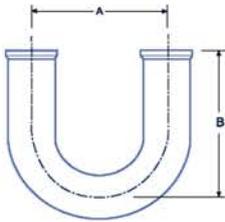
DT-23T 180° Tee Bottom Outlet WCW



Nominal Size		A		B		C		SF1	SF4
Inch	mm	Inch	mm	Inch	mm	Inch	mm	##=F1	##=F4
1 x 1/2	25.40 x 12.70	3.000	76.20	3.000	76.20	1.125	28.58	DT23OB100050-##	
1 x 3/4	25.40 x 19.05	3.000	76.20	3.000	76.20	1.125	28.58	DT23OB100075-##	
1 x 1	25.40 x 25.40	3.000	76.20	3.000	76.20	1.125	28.58	DT23OB100100-##	
1 1/2 x 1/2	38.10 x 12.70	4.500	114.30	4.500	114.30	1.375	34.93	DT23OB150050-##	
1 1/2 x 3/4	38.10 x 19.05	4.500	114.30	4.500	114.30	1.375	34.93	DT23OB150075-##	
1 1/2 x 1	38.10 x 25.40	4.500	114.30	4.500	114.30	1.375	34.93	DT23OB150100-##	
1 1/2 x 1 1/2	38.10 x 38.10	4.500	114.30	4.500	114.30	1.375	34.93	DT23OB150150-##	
2 x 1/2	50.80 x 12.70	6.000	152.40	5.000	127.00	1.625	41.28	DT23OB200050-##	
2 x 3/4	50.80 x 19.05	6.000	152.40	5.000	127.00	1.625	41.28	DT23OB200075-##	
2 x 1	50.80 x 25.40	6.000	152.40	5.000	127.00	1.625	41.28	DT23OB200100-##	
2 x 1 1/2	50.80 x 38.10	6.000	152.40	5.000	127.00	1.625	41.28	DT23OB200150-##	
2 x 2	50.80 x 50.80	6.000	152.40	5.000	127.00	1.625	41.28	DT23OB200200-##	
2 1/2 x 1/2	63.50 x 12.70	7.500	190.50	5.750	146.05	1.875	47.63	DT23OB250050-##	
2 1/2 x 3/4	63.50 x 19.05	7.500	190.50	5.750	146.05	1.875	47.63	DT23OB250075-##	
2 1/2 x 1	63.50 x 25.40	7.500	190.50	5.750	146.05	1.875	47.63	DT23OB250100-##	
2 1/2 x 1 1/2	63.50 x 38.10	7.500	190.50	5.750	146.05	1.875	47.63	DT23OB250150-##	
2 1/2 x 2	63.50 x 50.80	7.500	190.50	5.750	146.05	1.875	47.63	DT23OB250200-##	
2 1/2 x 2 1/2	63.50 x 63.50	7.500	190.50	5.750	146.05	1.875	47.63	DT23OB250250-##	
3 x 1/2	76.20 x 12.70	9.000	228.60	6.500	165.10	2.125	53.98	DT23OB300050-##	
3 x 3/4	76.20 x 19.05	9.000	228.60	6.500	165.10	2.125	53.98	DT23OB300075-##	
3 x 1	76.20 x 25.40	9.000	228.60	6.500	165.10	2.125	53.98	DT23OB300100-##	
3 x 1 1/2	76.20 x 38.10	9.000	228.60	6.500	165.10	2.125	53.98	DT23OB300150-##	
3 x 2	76.20 x 50.80	9.000	228.60	6.500	165.10	2.125	53.98	DT23OB300200-##	
3 x 2 1/2	76.20 x 63.50	9.000	228.60	6.500	165.10	2.125	53.98	DT23OB300250-##	
3 x 3	76.20 x 76.20	9.000	228.60	6.500	165.10	2.125	53.98	DT23OB300300-##	
4 x 1/2	101.60 x 12.70	12.000	304.80	8.500	215.90	2.625	66.68	DT23OB400050-##	
4 x 3/4	101.60 x 19.05	12.000	304.80	8.500	215.90	2.625	66.68	DT23OB400075-##	
4 x 1	101.60 x 25.40	12.000	304.80	8.500	215.90	2.625	66.68	DT23OB400100-##	
4 x 1 1/2	101.60 x 38.10	12.000	304.80	8.500	215.90	2.625	66.68	DT23OB400150-##	
4 x 2	101.60 x 50.80	12.000	304.80	8.500	215.90	2.625	66.68	DT23OB400200-##	
4 x 2 1/2	101.60 x 63.50	12.000	304.80	8.500	215.90	2.625	66.68	DT23OB400250-##	
4 x 3	101.60 x 76.20	12.000	304.80	8.500	215.90	2.625	66.68	DT23OB400300-##	
4 x 4	101.60 x 101.60	12.000	304.80	8.500	215.90	2.625	66.68	DT23OB400400-##	

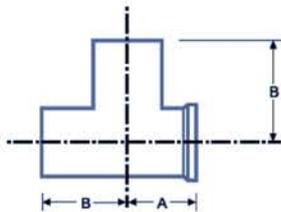
■ BPE TUBE FITTINGS

DT-24 DT-4.1.1-8 180° Return Bend CC



Nominal Size		A		B		SF1	SF4
Inch	mm	Inch	mm	Inch	mm	##=F1	##=F4
1/4	6.35	4.500	114.30	3.125	79.40	DT24OB025-##	
3/8	9.53	4.500	114.30	3.125	79.40	DT24OB038-##	
1/2	12.70	4.500	114.30	3.500	88.90	DT24OB050-##	
3/4	19.05	4.500	114.30	3.500	88.90	DT24OB075-##	
1	25.40	3.000	76.20	3.500	88.90	DT24OB100-##	
1 1/2	38.10	4.500	114.30	5.000	127.00	DT24OB150-##	
2	50.80	6.000	152.40	5.500	139.70	DT24OB200-##	
2 1/2	63.50	7.500	190.50	6.250	158.80	DT24OB250-##	
3	76.20	9.000	228.60	7.000	177.80	DT24OB300-##	
4	101.60	12.000	304.80	9.125	231.80	DT24OB400-##	
6	152.40	18.000	457.20	13.000	330.20	DT24OB600-##	

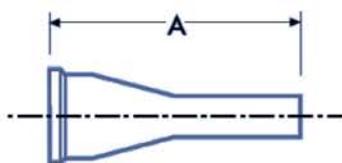
DT-25 DT-4.1.2-3 Short Outlet Run Tee WWC



Nominal Size		A		B		SF1	SF4
Inch	mm	Inch	mm	Inch	mm	##=F1	##=F4
1/4	6.35	0.875	22.20	1.750	44.50	DT25RTB025-##	
3/8	9.53	0.875	22.20	1.750	44.50	DT25RTB038-##	
1/2	12.70	0.875	22.20	1.875	47.60	DT25RTB050-##	
3/4	19.05	1.000	25.40	2.000	50.80	DT25RTB075-##	
1	25.40	1.125	28.60	2.125	54.00	DT25RTB100-##	
1 1/2	38.10	1.375	34.90	2.375	60.30	DT25RTB150-##	
2	50.80	1.625	41.30	2.875	73.00	DT25RTB200-##	
2 1/2	63.50	1.875	47.60	3.125	79.40	DT25RTB250-##	
3	76.20	2.125	54.00	3.375	85.70	DT25RTB300-##	
4	101.60	2.750	69.90	4.125	104.80	DT25RTB400-##	
6	152.40	4.625	117.50	5.625	142.90	DT25RTB600-##	

■ BPE TUBE FITTINGS

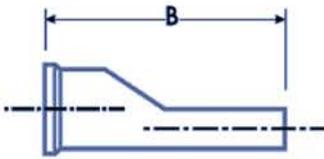
DT-26C(a) Concentric Reducer CW



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=FA
3/4 x 1/2	19.05 x 12.70	3.000	76.20	DT26CB075050-##	
1 x 1/2	25.40 x 12.70	3.500	88.90	DT26CB100050-##	
1 x 3/4	25.40 x 19.05	3.000	76.20	DT26CB100075-##	
1 1/2 x 1/2	38.10 x 12.70	4.500	114.30	DT26CB150050-##	
1 1/2 x 3/4	38.10 x 19.05	4.000	101.60	DT26CB150075-##	
1 1/2 x 1	38.10 x 25.40	4.000	101.60	DT26CB150100-##	
2 x 1/2	50.80 x 12.70	6.500	165.10	DT26CB200050-##	
2 x 3/4	50.80 x 19.05	6.000	152.40	DT26CB200075-##	
2 x 1	50.80 x 25.40	6.000	152.40	DT26CB200100-##	
2 x 1 1/2	50.80 x 38.10	4.000	101.60	DT26CB200150-##	
2 1/2 x 1/2	63.50 x 12.70	8.500	215.90	DT26CB250050-##	
2 1/2 x 3/4	63.50 x 19.05	8.000	203.20	DT26CB250075-##	
2 1/2 x 1	63.50 x 25.40	8.000	203.20	DT26CB250100-##	
2 1/2 x 1 1/2	63.50 x 38.10	6.000	152.40	DT26CB250150-##	
2 1/2 x 2	63.50 x 50.80	4.250	108.00	DT26CB250200-##	
3 x 1	76.20 x 25.40	10.000	254.00	DT26CB300100-##	
3 x 1 1/2	76.20 x 38.10	8.000	203.20	DT26CB300150-##	
3 x 2	76.20 x 50.80	6.250	158.80	DT26CB300200-##	
3 x 2 1/2	76.20 x 63.50	4.250	108.00	DT26CB300250-##	
4 x 1	101.60 x 25.40	14.125	358.80	DT26CB400100-##	
4 x 1 1/2	101.60 x 38.10	12.125	308.00	DT26CB400150-##	
4 x 2	101.60 x 50.80	10.375	263.50	DT26CB400200-##	
4 x 2 1/2	101.60 x 63.50	8.375	212.70	DT26CB400250-##	
4 x 3	101.60 x 76.20	6.375	161.90	DT26CB400300-##	
6 x 3	152.40 x 76.20	9.000	228.60	DT26CB600300-##	
6 x 4	152.40 x 101.60	9.000	228.60	DT26CB600400-##	

■ BPE TUBE FITTINGS

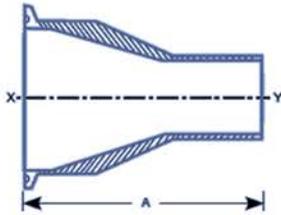
DT-26E(a) Eccentric Reducer CW



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
3/4 x 1/2	19.05 x 12.70	3.000	76.20	DT26EB075050-##	
1 x 1/2	25.40 x 12.70	3.500	88.90	DT26EB100050-##	
1 x 3/4	25.40 x 19.05	3.000	76.20	DT26EB100075-##	
1 1/2 x 1/2	38.10 x 12.70	4.500	114.30	DT26EB150050-##	
1 1/2 x 3/4	38.10 x 19.05	4.000	101.60	DT26EB150075-##	
1 1/2 x 1	38.10 x 25.40	4.000	101.60	DT26EB150100-##	
2 x 1/2	50.80 x 12.70	6.500	165.10	DT26EB200050-##	
2 x 3/4	50.80 x 19.05	6.000	152.40	DT26EB200075-##	
2 x 1	50.80 x 25.40	6.000	152.40	DT26EB200100-##	
2 x 1 1/2	50.80 x 38.10	4.000	101.60	DT26EB200150-##	
2 1/2 x 1/2	63.50 x 12.70	8.500	215.90	DT26EB250050-##	
2 1/2 x 3/4	63.50 x 19.05	8.000	203.20	DT26EB250075-##	
2 1/2 x 1	63.50 x 25.40	8.000	203.20	DT26EB250100-##	
2 1/2 x 1 1/2	63.50 x 38.10	6.000	152.40	DT26EB250150-##	
2 1/2 x 2	63.50 x 50.80	4.250	108.00	DT26EB250200-##	
3 x 1	76.20 x 25.40	10.000	254.00	DT26EB300100-##	
3 x 1 1/2	76.20 x 38.10	8.000	203.20	DT26EB300150-##	
3 x 2	76.20 x 50.80	6.250	158.80	DT26EB300200-##	
3 x 2 1/2	76.20 x 63.50	4.250	108.00	DT26EB300250-##	
4 x 1	101.60 x 25.40	14.125	358.80	DT26EB400100-##	
4 x 1 1/2	101.60 x 38.10	12.125	308.00	DT26EB400150-##	
4 x 2	101.60 x 50.80	10.375	263.50	DT26EB400200-##	
4 x 2 1/2	101.60 x 63.50	8.375	212.70	DT26EB400250-##	
4 x 3	101.60 x 76.20	6.375	161.90	DT26EB400300-##	
6 x 3	152.40 x 76.20	8.750	222.30	DT26EB600300-##	
6 x 4	152.40 x 101.60	9.000	228.60	DT26EB600400-##	

■ BPE TUBE FITTINGS

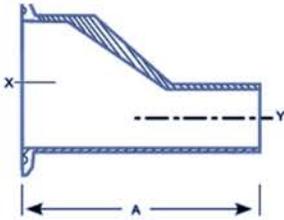
DT-26C(b) DT-4.1.3-2 Concentric Reducer CW



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
3/8 x 1/4	9.53 x 6.35	2.125	54.00	DT26CBB038025-##	
1/2 x 1/4	12.70 x 6.35	2.375	60.30	DT26CBB050024-##	
1/2 x 3/8	12.70 x 9.53	2.375	60.30	DT26CBB050038-##	
3/4 x 3/8	19.05 x 9.53	2.500	63.50	DT26CBB075038-##	
3/4 x 1/2	19.05 x 12.70	2.625	66.70	DT26CBB075050-##	
1 x 1/2	25.40 x 12.70	3.000	76.20	DT26CBB100050-##	
1 x 3/4	25.40 x 19.05	2.625	66.70	DT26CBB100075-##	
1 1/2 x 3/4	38.10 x 19.05	3.500	88.90	DT26CBB150075-##	
1 1/2 x 1	38.10 x 25.40	3.000	76.20	DT26CBB150100-##	
2 x 1	50.80 x 25.40	3.875	98.40	DT26CBB200100-##	
2 x 1 1/2	50.80 x 38.10	3.000	76.20	DT26CBB200150-##	
2 1/2 x 1 1/2	63.50 x 38.10	3.875	98.40	DT26CBB250150-##	
2 1/2 x 2	63.50 x 50.80	3.000	76.20	DT26CBB250200-##	
3 x 1 1/2	76.20 x 38.10	4.750	120.70	DT26CBB300150-##	
3 x 2	76.20 x 50.80	3.875	98.40	DT26CBB300200-##	
3 x 2 1/2	76.20 x 63.50	3.125	79.40	DT26CBB300250-##	
4 x 2	101.60 x 50.80	5.750	146.10	DT26CBB400200-##	
4 x 2 1/2	101.60 x 63.50	4.875	123.80	DT26CBB400250-##	
4 x 3	101.60 x 76.20	4.500	114.30	DT26CBB400300-##	
6 x 3	152.40 x 76.20	8.000	203.20	DT26CBB600300-##	
6 x 4	152.40 x 101.60	6.375	161.90	DT26CBB600400-##	

■ BPE TUBE FITTINGS

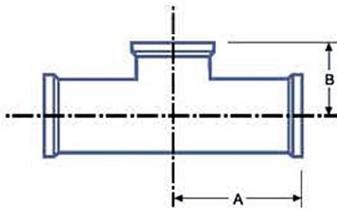
DT-26C(b) DT-4.1.3-2 Concentric Reducer CW



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
3/8 x 1/4	9.53 x 6.35	2.125	54.00	DT26EBB038025-##	
1/2 x 1/4	12.70 x 6.35	2.375	60.30	DT26EBB050024-##	
1/2 x 3/8	12.70 x 9.53	2.375	60.30	DT26EBB050038-##	
3/4 x 3/8	19.05 x 9.53	2.500	63.50	DT26EBB075038-##	
3/4 x 1/2	19.05 x 12.70	2.625	66.70	DT26EBB075050-##	
1 x 1/2	25.40 x 12.70	3.000	76.20	DT26EBB100050-##	
1 x 3/4	25.40 x 19.05	2.625	66.70	DT26EBB100075-##	
1 1/2 x 3/4	38.10 x 19.05	3.500	88.90	DT26EBB150075-##	
1 1/2 x 1	38.10 x 25.40	3.000	76.20	DT26EBB150100-##	
2 x 1	50.80 x 25.40	3.875	98.40	DT26EBB200100-##	
2 x 1 1/2	50.80 x 38.10	3.000	76.20	DT26EBB200150-##	
2 1/2 x 1 1/2	63.50 x 38.10	3.875	98.40	DT26EBB250150-##	
2 1/2 x 2	63.50 x 50.80	3.000	76.20	DT26EBB250200-##	
3 x 1 1/2	76.20 x 38.10	4.750	120.70	DT26EBB300150-##	
3 x 2	76.20 x 50.80	3.875	98.40	DT26EBB300200-##	
3 x 2 1/2	76.20 x 63.50	3.125	79.40	DT26EBB300250-##	
4 x 2	101.60 x 50.80	5.750	146.10	DT26EBB400200-##	
4 x 2 1/2	101.60 x 63.50	4.875	123.80	DT26EBB400250-##	
4 x 3	101.60 x 76.20	4.500	114.30	DT26EBB400300-##	
6 x 3	152.40 x 76.20	8.000	203.20	DT26EBB600300-##	
6 x 4	152.40 x 101.60	6.375	161.90	DT26EBB600400-##	

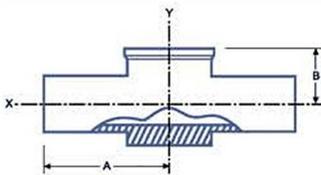
■ BPE TUBE FITTINGS

DT-27 DT-4.1.2-5 Short Outlet Tee CCC



Nominal Size		A		B		SF1	SF4
Inch	mm	Inch	mm	Inch	mm	##-F1	##-F4
1/2	12.70	2.250	60.33	1.000	25.40	DT27STB050-##	
3/4	19.05	2.350	63.50	1.125	28.60	DT27STB075-##	
1	25.40	2.625	66.70	1.125	28.60	DT27STB100-##	
1 1/2	38.10	2.875	73.00	1.375	34.90	DT27STB150-##	
2	50.80	3.375	85.70	1.625	41.30	DT27STB200-##	
2 1/2	63.50	3.625	92.10	1.875	47.60	DT27STB250-##	
3	76.20	3.875	98.40	2.125	54.00	DT27STB300-##	
4	101.60	4.750	120.70	2.750	69.90	DT27STB400-##	
6	152.40	7.125	181.00	4.625	117.50	DT27STB600-##	

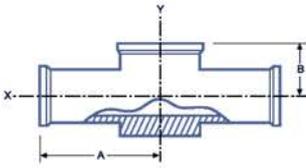
DT-28 DT-4.1.2-10 Instrument Tee WCW



Nominal Size		A		B		SF1	SF4
Inch	mm	Inch	mm	Inch	mm	##-F1	##-F4
1/2 x 1 1/2	12.70 x 38.10	2.500	63.50	0.875	22.20	DT28ITB050150-##	
3/4 x 1 1/2	19.05 x 38.10	2.500	63.50	1.000	25.40	DT28ITB075150-##	
1 x 1 1/2	25.40 x 38.10	2.500	63.50	1.125	28.60	DT28ITB100150-##	
1/2 x 2	12.70 x 50.80	2.750	69.90	1.000	25.40	DT28ITB050200-##	
3/4 x 2	19.05 x 50.80	2.750	69.90	1.125	28.60	DT28ITB075200-##	
1 x 2	25.40 x 50.80	2.750	69.90	1.250	31.80	DT28ITB100200-##	
1 1/2 x 2	38.10 x 50.80	2.750	69.90	1.500	38.10	DT28ITB150200-##	

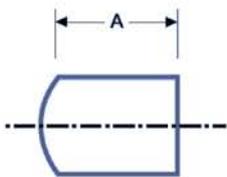
■ BPE TUBE FITTINGS

DT-29 DT-4.1.2-11 Instrument Tee CCC



Nominal Size		A		B		SF1	SF4
Inch	mm	Inch	mm	Inch	mm	##=F1	##=F4
1/2 x 1 1/2	12.70 x 38.10	3.000	76.20	0.875	22.20	DT29ITB050150-##	
3/4 x 1 1/2	19.05 x 38.10	3.000	76.20	1.000	25.40	DT29ITB075150-##	
1 x 1 1/2	25.40 x 38.10	3.000	76.20	1.125	28.60	DT29ITB100150-##	
1/2 x 2	12.70 x 50.80	3.520	82.60	1.000	25.40	DT29ITB050200-##	
3/4 x 2	19.05 x 50.80	3.250	82.60	1.125	28.60	DT29ITB075200-##	
1 x 2	25.40 x 50.80	3.250	82.60	1.250	31.80	DT29ITB100200-##	
1 1/2 x 2	38.10 x 50.80	3.250	82.60	1.500	38.10	DT29ITB150200-##	

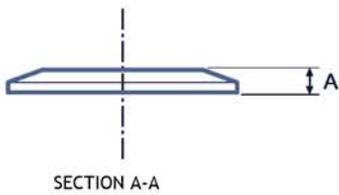
DT-30 DT-4.1.5-1 Tube Weld End Cap



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
1/2	12.70	1.500	38.10	DT30CB050-##	
3/4	19.05	1.500	38.10	DT30CB075-##	
1	25.40	1.500	38.10	DT30CB100-##	
1 1/2	38.10	1.500	38.10	DT30CB150-##	
2	50.80	1.500	38.10	DT30CB200-##	
2 1/2	63.50	1.500	38.10	DT30CB250-##	
3	76.20	1.750	44.50	DT30CB300-##	
4	101.60	2.000	50.80	DT30CB400-##	
6	152.40	2.500	63.50	DT30CB600-##	

■ BPE TUBE FITTINGS

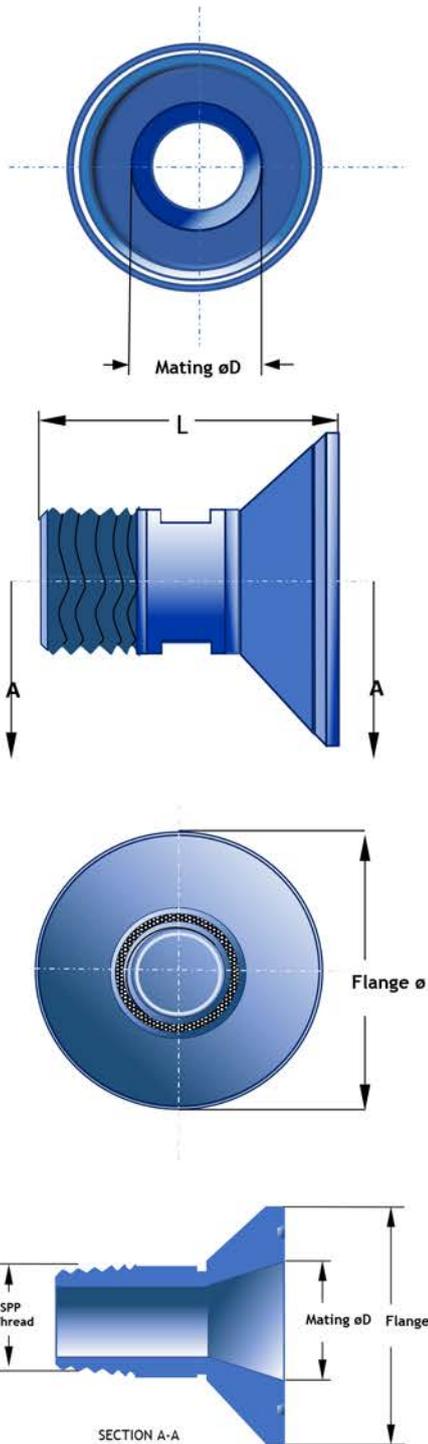
DT-31 DT-4.1.5-2 Solid End Cap



Nominal Size		A		SF1	SF4
Inch	mm	Inch	mm	##=F1	##=F4
1/4	6.35	0.187	4.70	DT31CB025-##	
3/8	9.53	0.187	4.70	DT31CB038-##	
1/2 & 3/4	12.70, 19.05	0.187	4.70	DT31CB050075-##	
1 & 1 1/2	25.40, 38.10	0.250	6.40	DT31CB100150-##	
2	50.80	0.250	6.40	DT31CB200-##	
2 1/2	63.50	0.250	6.40	DT31CB250-##	
3	76.20	0.250	6.40	DT31CB300-##	
4	101.60	0.312	7.90	DT31CB400-##	
6	152.40	0.437	11.10	DT31CB600-##	

BSP ADAPTOR

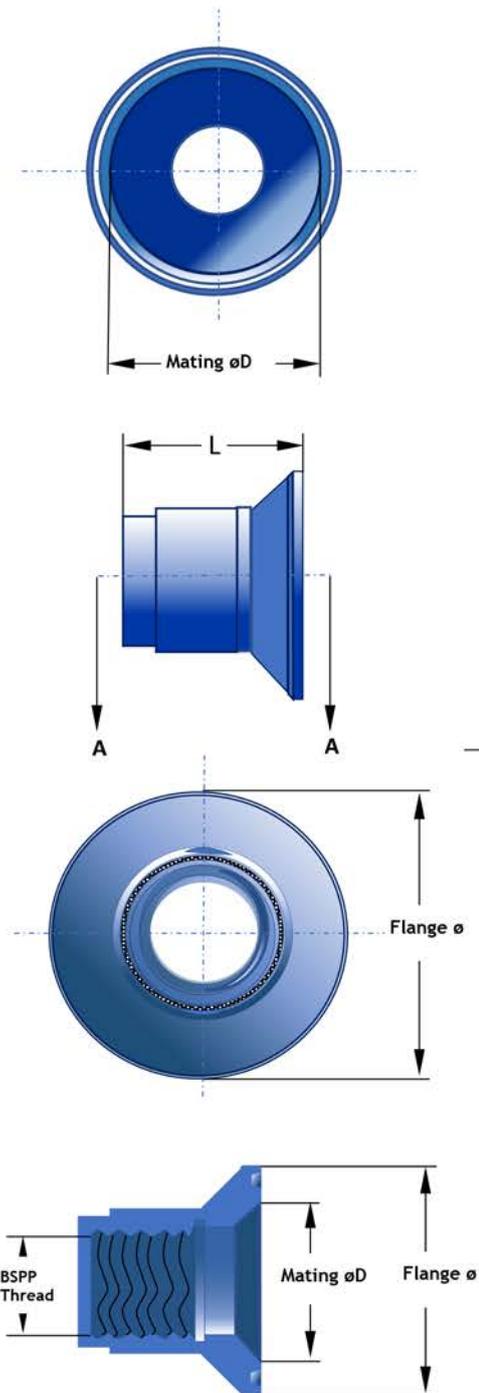
MALE IMPERIAL



Ferrule size	Thread	Flange ø	Mating øD	Length L	Product code
Inch	Inch	mm	mm	mm	SF1
1/2	1/8	25.0	10.0	30	R11K204BSP0500125
1/2	1/4	25.0	10.0	30	R11K204BSP050025
1/2	3/8	25.0	10.0	30	R11K204BSP075038
1/2	1/2	25.0	10.0	32	R11K204BSP050050
1/2	3/4	25.0	10.0	35	R11K204BSP150075
3/4	1/8	25.0	16.0	30	R11K204BSP0750125
3/4	1/4	25.0	16.0	30	R11K204BSP075025
3/4	3/8	25.0	16.0	30	R11K204BSP075038
3/4	1/2	25.0	16.0	32	R11K204BSP075050
3/4	3/4	25.0	16.0	35	R11K204BSP075075
1	1/8	50.5	22.0	30	R11K204BSP1000125
1	1/4	50.5	22.0	30	R11K204BSP100025
1	3/8	50.5	22.0	30	R11K204BSP100038
1	1/2	50.5	22.0	35	R11K204BSP100050
1	3/4	50.5	22.0	35	R11K204BSP100075
1	1	50.5	22.0	35	R11K204BSP100100
1 1/2	1/8	50.5	35.0	35	R11K204BSP1500125
1 1/2	1/4	50.5	35.0	35	R11K204BSP150025
1 1/2	3/8	50.5	35.0	35	R11K204BSP150038
1 1/2	1/2	50.5	35.0	35	R11K204BSP150050
1 1/2	3/4	50.5	35.0	35	R11K204BSP150075
1 1/2	1	50.5	35.0	35	R11K204BSP150100
2	1/2	64.0	47.6	35	R11K204BSP200050
2	3/4	64.0	47.6	40	R11K204BSP200075
2	1	64.0	47.6	40	R11K204BSP200100
2	1 1/2	64.0	47.6	40	R11K204BSP200150
2	2	64.0	47.6	40	R11K204BSP200200

BSP ADAPTOR

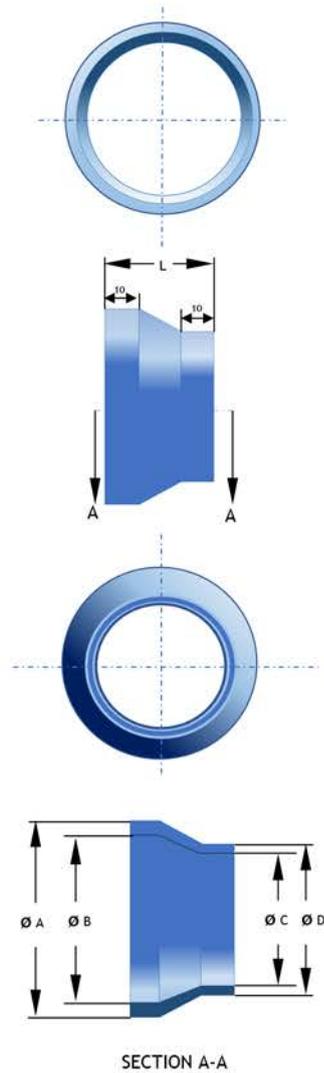
FEMALE IMPERIAL



Ferrule size	Thread	Flange ø	Mating øD	Length L	Product code
Inch	Inch	mm	mm	mm	SFI
1/2	1/8	25.0	10.0	25	R11K205BSP0500125
1/2	1/4	25.0	10.0	25	R11K205BSP075025
1/2	3/8	25.0	10.0	25	R11K205BSP075038
1/2	1/2	25.0	10.0	30	R11K205BSP050050
1/2	3/4	25.0	10.0	30	R11K205BSP150075
3/4	1/8	25.0	16.0	25	R11K205BSP0750125
3/4	1/4	25.0	16.0	25	R11K205BSP075025
3/4	3/8	25.0	16.0	25	R11K205BSP075038
3/4	1/2	25.0	16.0	30	R11K205BSP075050
3/4	3/4	25.0	16.0	30	R11K205BSP075075
1	1/8	50.5	22.0	25	R11K205BSP1000125
1	1/4	50.5	22.0	25	R11K205BSP100025
1	3/8	50.5	22.0	25	R11K205BSP100038
1	1/2	50.5	22.0	25	R11K205BSP100050
1	3/4	50.5	22.0	25	R11K205BSP100075
1	1	50.5	47.6	25	R11K205BSP100100
1 1/2	1/8	50.5	35.0	25	R11K205BSP1500125
1 1/2	1/4	50.5	35.0	25	R11K205BSP150025
1 1/2	3/8	50.5	35.0	25	R11K205BSP150038
1 1/2	1/2	50.5	35.0	25	R11K205BSP150050
1 1/2	3/4	50.5	35.0	25	R11K205BSP150075
1 1/2	1	50.5	35.0	35	R11K205BSP150100
2	1/2	64.0	47.6	25	R11K205BSP200050
2	3/4	64.0	47.6	25	R11K205BSP200075
2	1	64.0	47.6	25	R11K205BSP200100
2	1 1/2	64.0	47.6	25	R11K205BSP200150
2	2	64.0	22.0	25	R11K205BSP200200

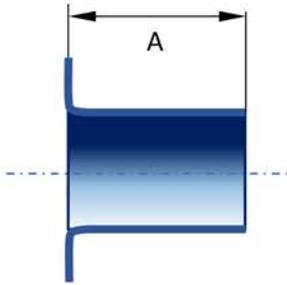
ADAPTOR PIPE TO TUBE

PLAIN ENDED- SCH10



Pipe to Tube size	SCH10 øA	SCH10 øB	OD Tube øC	OD Tube øD	Length	Product code
Inch	mm	mm	mm	mm	mm	SF1
SCH10 1/2" to OD 1/2"	21.34	17.12	9.52	12.70	30	R1100420
SCH10 3/4" to OD 3/4"	26.67	22.45	15.78	19.05	30	R1100421
SCH10 1" to OD 1"	33.40	27.86	22.20	25.65	30	R1100422
SCH10 1 1/2" to OD 1 1/2"	48.26	42.72	34.90	38.35	30	R1100423
SCH10 2" to OD 2"	60.33	54.79	47.60	51.05	30	R1100424
SCH10 2 1/2" to OD 2 1/2"	73.03	66.93	60.30	63.75	30	R1100425
SCH10 3" to OD 3"	88.90	82.80	73.00	76.45	30	R1100426
SCH10 4" to OD 4"	114.30	108.20	97.60	101.85	30	R1100427
SCH10 6" to OD 6"	168.28	161.48	150.00	154.00	30	R1100428

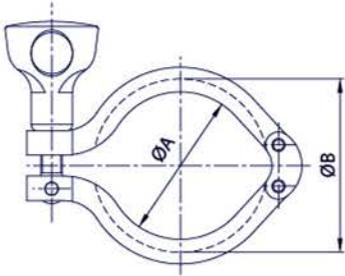
STUB END



Nominal Size		A	Product Code
Inch	mm		SF1
0.5	50.8		R1100680
0.75	50.8		R1100681
1.0	69.8		R1100682
1.5	69.8		R1100683
2.0	69.8		R1100684
2.5	69.8		R1100685
3.0	69.8		R1100686
4.0	69.8		R1100687

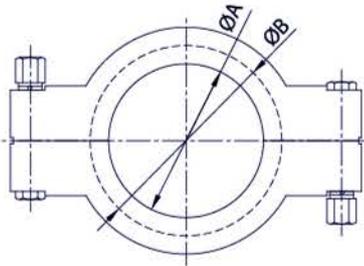
HEAVY DUTY CLAMP RINGS

13 MHHM DOUBLE PIN CLAMP



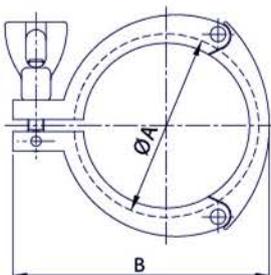
SIZE	ØA	ØB
1/2"~3/4"	20	28
1"~1.5"	43.6	53.6
2"	57	67
2.5"	70.6	80.6
3"	84	94
4"	112	122
6"	155	170
8"	205	220.8

13 MHP HIGH PRESSURE BOLTED CLAMP



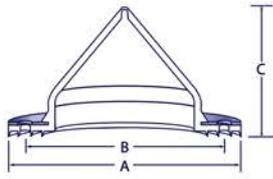
SIZE	ØA	ØB
1/2"~3/4"	20	28
1"~1.5"	43.32	52
2"	56.44	65.5
2.5"	69.54	79
3"	77.56	92.5
4"	108.86	120.5
6"	158	170
6.5"	173	186.2
8"	205	220.8
10"	258.2	276.8
12"	309	327.6

13 MHP HIGH PRESSURE BOLTED CLAMP

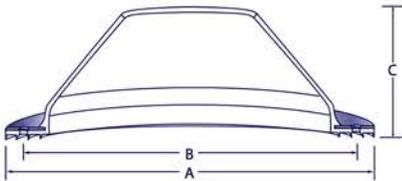


SIZE	ØA	B
1"~1.5"	54	80
2"	67.5	94
2.5"	80.9	109
3"	84.4	126
4"	122.4	154

STANDARD FOR NEW INSTALLATIONS



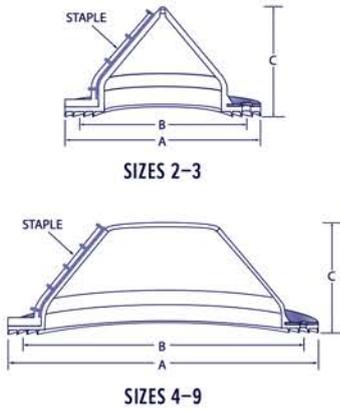
SIZES 1-3



SIZES 4-9

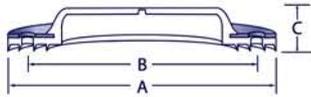
Size	Tube OD	A	B	C	Anchors	Item
1	0.00-1.00	70.1	56.9	52.1	4	PT1-000
1	0.75	70.1	56.9	36.1	4	PT1-075
1	1.00	70.1	56.9	32	4	PT1-100
2	0.00-2.50	105.9	90.9	59.9	4	PT2-000
2	1.00	105.9	90.9	48	4	PT2-100
2	2.00	105.9	90.9	35.1	4	PT2-200
3	0.00-3.74	147.1	128	78	6	PT3-000
3	3.00	147.1	128	40.9	6	PT3-300
4	2.76-5.31	186.9	167.9	64	6	PT4-000
4	4.00	186.9	167.9	52.1	6	PT4-400
5	3.94-7.09	237	213.1	80	10	PT5-000
7	4.92-10.83	337.3	311.2	130	14	PTR7-000
9	6.50-15.00	490.5	467.1	199.9	20	PTR9-000

REBOOT® FOR EXISTING INSTALLATIONS



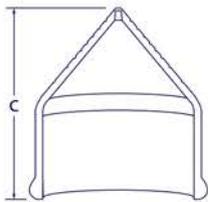
Size	Tube OD	A	B	C	Anchors	Item
2	0.00-2.50	4.17	3.58	2.36	5	PTR2-000
3	0.00-3.74	5.79	5.04	3.07	7	PTR3-000
4	2.76-5.31	7.36	6.61	2.52	7	PTR4-000
5	3.94-7.09	9.33	8.39	3.15	10	PTR5-000
7	4.92-10.83	13.28	12.25	5.12	14	PTR7-000
9	6.50-15.00	19.31	18.39	7.87	20	PTR9-000

FLAT FOR NEW INSTALLATIONS



Size	Tube OD	A	B	C	Anchors	Item	Item-Gray
1	0.00-1.00	2.76	2.24	.37	4	PTF1-000	N/A
2*	0.00-2.50	4.17	3.58	.37	4	PTF2-000	PTF2-GRAY
3*	0.00-3.74	5.79	5.04	.37	6	PTF3-000	PTF3-GRAY
4*	0.00-5.31	7.36	6.61	.37	6	PTF4-000	PTF4-GRAY

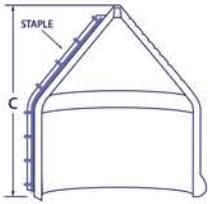
SLEEVE BOOT FOR NEW TUBE-IN-TUBE TRANSITIONS



Size	Sleeve OD	Tube OD	C	Item
1	4	0.0-3.5	4.5	PTS1-000
2	6	0.0-5.5	6.0	PTS2-000
3	8	0.0-7.0	7.5	PTS3-000

PIPETITE

SLEEVE REBOOT® FOR EXISTING TUBE-IN-TUBE TRANSITIONS



Size	Sleeve OD	Tube OD	C	Item
1	4	0.0–3.8	4.6	PTSR1-000

ANCHORS FOR MOUNTING PIPETITE STANDARD, FLAT, MULTI GROMMET, AND REBOOT



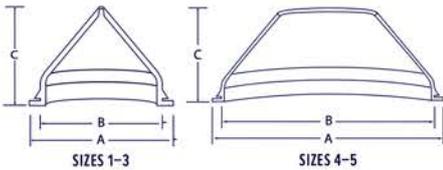
ANCHOR 1



ANCHOR 2

Anchor	Surface Types	Item
1	CONCRETE, BRICK	PTA-1
2	PANEL WALLS, THIN WALLS, CONCRETE, BRICK	PTA-2

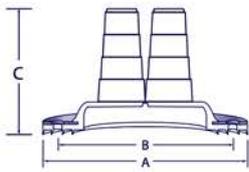
GROMMET FOR CABINETS, PANELS, AND ENCLOSURES



Size	Tube OD	A	B	C	Item
1	0.00–1.00	1.89	1.38	2.12	PTG1-000
2	0.00–2.56	3.23	2.75	2.50	PTG2-000
3	0.00–3.74	4.72	4.00	3.25	PTG3-000
4	2.76–5.31	6.30	5.75	2.50	PTG4-000
5	3.94–7.09	7.95	7.25	3.12	PTG5-000

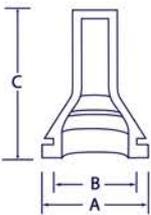
PIPETITE

MULTI GROMMET FOR MULTI-WIRE APPLICATIONS IN CABINETS OR WALLS



Size	Tube OD	A	B	C	Item
1	0.25-0.50	2.81	2.25	1.75	PT1-MG

MINI GROMMET NEMA RATED FOR TYPE 4, TYPE 4X, AND TYPE 6 ENCLOSURES



Size	Tube OD	A	B	C	Item
1	0.25	0.87	0.63	1.31	PTMG-1
2	0.31	0.87	0.63	1.25	PTMG-2
3	0.38	0.87	0.63	1.25	PTMG-3
4	0.50	0.87	0.63	1.12	PTMG-4

■ GASKETS

BASIC GASKET GUIDELINES

	EPDM	FKM	PTFE	PLATINUM CURED SILICONE
Material	<i>Ethylene Propylene, Peroxide Cured</i>	<i>Fluoropropylene, Vinilidene Fluoride</i>	<i>PolyTetraFluorEthylene</i>	
Compound Number	<i>CMD-1004</i>	<i>CMD-1010</i>	<i>CMD-1018</i>	<i>CMD-1012</i>
Colour	<i>Black</i>	<i>Black</i>	<i>White</i>	<i>Transparent</i>
Temperature Range	<i>-40°c / +150°c</i>	<i>-30°c / +170°c</i>	<i>-75°c / +260°c</i>	<i>-60 °C / +200°c</i>
Hardness	<i>70</i>	<i>80</i>	<i>60</i>	<i>0</i>
Tensile (MPA)	<i>7,00min</i>	<i>14,00(min)</i>	<i>3000(min)</i>	<i>7,00(min)</i>
Elongation (%)	<i>150 (min)</i>	<i>150(min)</i>	<i>NA</i>	<i>400(min)</i>
Tear Strength				<i>35(min)</i>
Specific Gravity				
Compression Set 22hrs @ 150°C	<i>20%</i>	<i>20%</i>		<i>10%</i>
SIP	<i>Good, Short Exposure</i>	<i>Good</i>	<i>Very Good</i>	<i>Very Good</i>
CIP	<i>Good</i>	<i>Good</i>	<i>Very Good</i>	<i>Very Good</i>
Mineral Oils & Fats	<i>Poor</i>	<i>Good</i>	<i>Very Good</i>	<i>Poor</i>
WFI	<i>Good</i>	<i>Good</i>	<i>Excellent</i>	<i>Good</i>
Sterilisation	<i>Excellent</i>	<i>Good</i>	<i>Excellent</i>	<i>Excellent</i>
Steam Sterilisation	<i>Good</i>	<i>Good</i>	<i>Excellent</i>	<i>Excellent</i>

RUBBERFAB SANITARY GASKET GUIDELINES

	Tuf-flex	Tuf-Steel	Gylon Bio Pro	Gylon Bio Pro Plus
Continuous Steam	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>
Intermittent Steam	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>
Pure Water Ambient	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>
Pure Water Hot	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>
Process Fluids Ambient	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>
Process Fluids Hot	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>
Process Fluids Variable (<0° - >100°)	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>
Temperature Rating	<i>-20°c + 150° c</i>	<i>-200°c + 260°c</i>	<i>-200° +260°c</i>	<i>-260°c+260° c</i>

QUALITY CERTIFICATES

At Petrochem we are committed to providing customers with service of the highest possible level of quality. In order to achieve this, we are continually striving to improve our processes, products and services.

The implementation of the quality policy is the responsibility of all Petrochem staff members and all staff recognise and accept the philosophy, accepting accountability for their own output to allow the company to meet and exceed customer satisfaction at all times.

Certificate of Registration

This document certifies that the
Environmental Management System of:

Petrochem Pipeline Supply Limited

Location: Little Island, Cork, Ireland.
Has been assessed and approved by

IQS Standards Audits Division

In accordance with the following standard:

ISO 14001:2015

The registered scope of the assessed environmental management system is as follows:

Suppliers to the Pharmaceutical & Allied Industry.

Current Certificate Date: 20 June 2023
Registration Number: 4100715

Certificate Expiry Date: 19 June 2024
Issue: 14

For and on behalf of
IQS Standards Audits Division

Signed..... *[Signature]*.....

Validation 

This is an accredited certificate issued under the auspices of ASCB the summary details of which are listed in the International Register of Quality Assessed Organisations and at www.iqsaudits.com/certificate-authenticity

Interested parties should check the validity of this certificate by going to the address shown above or using the QR Code and entering this certificate number in the space provided and click on SUBMIT

This certificate remains the property of, and must be returned to IQS Standards Audits Division upon reasonable request
IQS Cert Doc Ref: CA4154 Rev: 03/21 Ed: 01 Page: 1 Of: 1

Certificate of Registration

This document certifies that the
Quality Management System of:

Petrochem Pipeline Supply Limited

Location: Little Island, Cork, Ireland.
Has been assessed and approved by

IQS Standards Audits Division

In accordance with the following standard:

ISO 9001:2015

The registered scope of the assessed quality management system is as follows:

Suppliers to the Pharmaceutical & Allied Industry.

Current Certificate Date: 20 June 2023
Registration Number: 4012275

Certificate Expiry Date: 19 June 2024
Issue: 20

For and on behalf of
IQS Standards Audits Division

Signed..... *[Signature]*.....

Validation 

This is an accredited certificate issued under the auspices of ASCB the summary details of which are listed in the International Register of Quality Assessed Organisations and at www.iqsaudits.com/certificate-authenticity

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PETROCHEM
GROUP

PETROCHEM CORK

UNIT 31,EURO BUSINESS PARK

LITTLE ISLAND, CO. CORK

TEL: **+353 21 4351300**

EMAIL: **SALES@PETROCHEM.IE**

PETROCHEM DUNBOYNE

EUROPA HOUSE,DUNBOYNE BUSINESS PARK

DUNBOYNE, CO. MEATH

TEL: **+353 1 8026020**

EMAIL: **DUNBOYNE@PETROCHEM.IE**