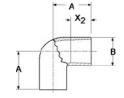
Dualoy® 3000/L Fittings Dimensions Product Data

Units	All dimensions are in U.S. Customary units (inches). Diametric dimensions are maximums. Insertion depths (X1, X2) are typical. All weights (lb) are approximate.					
Tolerances	Tolerance for centerline-to-face dimen inch.	sions on fittings with bell-end configuration is $\pm 1/16$				
Listings	Dualoy 3000/L is Listed in the U.S. with Underwriters Laboratories for nonmetallic underground piping for motor vehicle (MV), high blend (HB), concentrated (CT) and aviation and marine (A&M) fuels (File MH9162). Dualoy 3000/L pipe and fittings are also listed with Underwriters Laboratories of Canada (File CMH 715). In Great Britain the Dualoy 3000/L system has been tested and accepted by the London Fire and Civil Defence Authority. Dualoy 3000/L has been issued a Certificate of Compliance to the Institute of Petroleum (IP) Specification by ERA Technology, Ltd.					
End Configurations	Bell end is standard.					
Taper Angle	The taper angle on all bell and spigot	end configurations is 1¾°.				
Pressure Ratings	Individual system components may r	See publication Dualoy 3000/L Fiberglass Pipe and Fittings, FP265, for pressure ratings. Individual system components may not have the same ratings as the pipe. Refer to the detailed product information for the specific components to determine the pressure rating for the system as a whole.				
Manufacturing Methods	The fiberglass-reinforced epoxy resin f filament winding or compression mole Adapters: bell x NPT female Adapters: bell x NPT male Adapters: isolation Adapters: spigot x NPT female Adapters: spigot x NPT male 45° Elbows 90° Elbows End caps	fittings shown in this document are manufactured by ding. Flange rings Flange stub ends Nipples Reducer bushings Repair couplings Sleeve couplings Sump penetration pieces Tees				

Fittings Dimensions

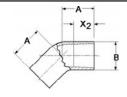
Nominal		Bell	Bell	Bell	Weight
Pipe Size		A	B	X ₂	
(in)	(mm)	(in)	(in)	(in)	(lb)

90° Elbows (Molded)



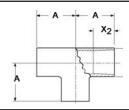
2	50	3.82	2.78	2.05	1.0
3	80	4.42	3.99	3.32	1.5
4	100	5.50	5.00	3.15	3.0
6	150	7.50	7.34	4.00	8.5

45° Elbows (Molded)



2	50	3.18	2.78	2.05	0.9
3	80	3.43	3.99	2.32	1.5
4	100	4.23	5.00	3.15	2.5
6	150	5.56	7.34	4.00	7.0

Tees (Molded)



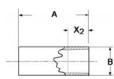
2	50	3.82	2.78	2.05	1.3
3	80	4.50	3.99	2.40	2.5
4	100	5.50	5.00	3.15	4.0
6	150	7.50	7.34	4.00	12.0

End Caps (Molded)



2	50 3.25		2.93	2.00	0.6
3	80	3.38	4.05	2.25	1.0
4	100	3.38	5.05	2.25	1.4
6	150	4.63	7.44	3.30	4.5

Sleeve Couplings (Filament Wound)

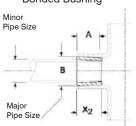


2	2 50		2.80	2.13	0.5
3	80	6.50	4.05	2.19	1.1
4*	100	5.45	5.10	2.38	2.1
6*	150	7.00	7.30	3.13	4.6

 $^{^{\}star}$ 4" & 6" are wound-on tooling couplings.

Reducer Bushings (Molded)

Bonded Bushing



	ominal e Size	Length A	OD B	Thread Size C	D	Е	X ₁	Insertion X ₂	Wt
(in)	(mm)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(lb)
3 x 2	80 x 50	1.88	3.51	_		_	_	1.75	0.7
4 x 3	100 x 80	1.96	4.51	_				2.00	0.9
6 x 4	150 x 100	2.86	6.65	_	_	_	_	2.20	4.1

1) Reducer bushings with tapered minor NPS are generally used in the bell ends of elbows and tees.

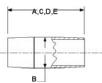
	x ₂	•	•
· · · / ·		Press	
ţ ţ		-	4

	ominal e Size	Length A	OD B	Thread Size C	D	Е	X ₁	Insertion X ₂	Wt
(in)	(mm)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(lb)
2 x 1½	50 x 40	1.80	2.40	1½ x 11½	_	_	_	0.7	0.3

¹⁾ Outlet NPS x outlet NPT threads per inch. Reducer bushing with BSP threads available. Outlet sizes smaller than 1½ inch are obtained by using galvanized steel bushings in the fiberglass bushing.

Fittings Dimensions

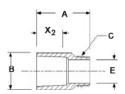
Nipples (filament wound)



	ominal pe Size	Length A	OD B	С	D	Е	X,	Insertion X ₂	Wt
(in)	(mm)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(lb)
2	50	6.00	2.38	8.00	10.00	12.00		_	0.5(1)
3	80	_	3.50	8.00	10.00	12.00	_	_	0.7
4	100	_	4.50	_	10.00	12.00	_	_	1.0
6	150	_	6.63	_	_	12.00	_	_	1.7

(1) Lb/ft.

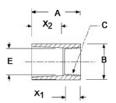
Adaptors: Bell x NPT male (molded)



2	50	4.16	2.92	2 x 11½ ⁽¹⁾		1.90		2.00	0.4
3	80	5.00	3.92	3 x 8		2.80		2.05	0.7
4	100	5.19	4.88	4 x 8	_	3.90	_	2.05	0.9
6	150	6.00	7.40	6 x 8		5.90		3.20	2.1

(1) Nominal pipe size x NPT threads per inch. BSP threads available.

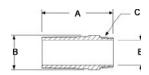
Adapters: Bell x NPT female (filament wound)



2 x 1½(1)	50 x 40	6.00	2.80	1½ x 11½ ⁽²⁾	_	2.29	0.70	2.31	0.8
2 x 2	50 x 50	4.75	2.50	2 x 11½ ⁽²⁾		2.29	1.13	2.31	0.4
3 x 3	80 x 80	5.38	3.65	3 x 8	_	3.00	1.00	2.00	0.7
4 x 4	100 x 100	5.38	4.65	4 x 8	_	4.00	1.10	2.25	0.9
6 x 6	150 x 150	6.75	6.90	6 x 8	_	6.00	1.20	3.48	2.1

- (1) Consists of a 2-inch filament-wound sleeve coupling with a factory-bonded 2 x 1½ NPT molded bushing. The end of the sleeve coupling containing the bushing has been reduced in length to facilitate thread make-up in the field.
- (2) Nominal pipe size x NPT threads per inch. BSP threads available.

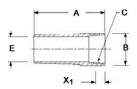
Adaptors: Spigot x NPT male (filament wound)



2	50	4.38	2.55	2 x 11½ ⁽¹⁾	_	2.00	_	_	0.5
3	80	5.50	3.65	3 x 8		3.00	_	_	1.3
4	100	6.00	4.65	4 x 8	_	4.00	_	_	1.7
6	150	6.00	6.90	6 x 8	_	6.00	_	_	4.2

(1) Nominal pipe size x NPT threads per inch. BSP threads available

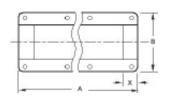
Adaptors: Spigot x NPT female(filament wound)



2	50	4.38	2.55	2 x 11½ ⁽¹⁾	_	2.00	0.70	_	0.5
3	80	5.50	3.65	3 x 8		3.00	1.00	_	1.3
4	100	6.00	4.65	4 x 8	_	4.00	1.20	_	1.7
6	150	6.00	6.90	6 x 8	_	6.00	1.00	_	4.2

(1) Nominal pipe size x NPT threads per inch. BSP threads available

Repair Couplings (molded)

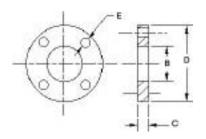


2(1)	50	14.00	4.00	_	_	_	8(2)	1.50	1.3
3	80	14.00	6.00	_	_	_	8	1.50	1.7
4	100	14.00	7.00	_	_	_	8	1.50	2.0

- (1) Repair coupling inside diameters match pipe inside diameters of the same nominal pipe size.
- (2) Number of bolt holes.

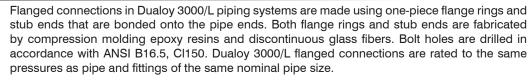
Fittings Dimensions

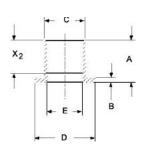
Flange Rings (molded)



Nominal Pipe Size		А	В	С	D	E	Number of Bolt Holes ₂	X_2	Wt
(in)	(mm)	(in)	(in)	(in)	(in)	(in)		(in)	(lb)
2	50	_	2.78	0.82	6.00	0.75	4	_	1.0
3	80	_	3.90	1.10	7.50	0.75	4	_	1.6
4	100	_	4.90	1.10	9.00	0.75	8	_	2.5
6	150	_	7.26	1.25	11.00	0.88	8	_	4.9

Flange Stub Ends⁽¹⁾ (molded)

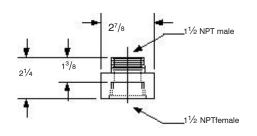




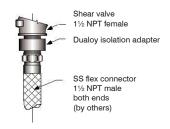
	Nominal Pipe Size		А	В	С	D	Е	Number of Bolt Holes ₂	X ₂	Wt
	(in)	(mm)	(in)	(in)	(in)	(in)	(in)		(in)	(lb)
l	2	50	275	0.27	2.65	3.91	2.26		2.15	0.5
	3	80	2.88	0.28	3.75	5.16	3.38		2.40	0.7
	4	100	2.88	0.28	4.75	6.66	4.38	_	3.25	1.0
	6	150	3.88	0.39	7.10	8.53	6.46	_	3.25	2.4

(1) For use with flange rings shown in previous table.

Isolation Adapter (molded)



The Dualoy isolation adapter provides electrical isolation from the dispenser for flex connectors that are directly buried and which must be cathodically protected. The adapter is fabricated of compression-molded fiberglass reinforced epoxy resins.



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