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 (Ib) are approximate.					
Tolerances	Tolerance for centerline-to-face dimension inch.	ons on fittings with bell-end configuration is $\pm 1/16$				
Listings	Dualoy 3000/L is Listed in the U.S. underground piping for motor vehicle (M and marine (A&M) fuels (File MH9162). Underwriters Laboratories of Canada (F system has been tested and accepted Dualoy 3000/L has been issued a Certific Specification by ERA Technology, Ltd.	with Underwriters Laboratories for nonmetallic V), high blend (HB), concentrated (CT) and aviation Dualoy 3000/L pipe and fittings are also listed with File CMH 715). In Great Britain the Dualoy 3000/L by the London Fire and Civil Defence Authority. cate of Compliance to the Institute of Petroleum (IP)				
End Configurations	Bell end is standard.					
Taper Angle	The taper angle on all bell and spigot er	nd configurations is 1¾°.				
Pressure Ratings	See publication Dualoy 3000/L Fiberglas Individual system components may no detailed product information for the spe for the system as a whole.	ss Pipe and Fittings, FP265, for pressure ratings. t have the same ratings as the pipe. Refer to the cific components to determine the pressure rating				
Manufacturing Methods	The fiberglass-reinforced epoxy resin fitt filament winding or compression moldin 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	ings shown in this document are manufactured by lg. Flange rings Flange stub ends Nipples Reducer bushings Repair couplings Sleeve couplings Sump penetration pieces Tees				



Fittings Dimensions

y e 2		No Pip	ominal e Size	Bell A	Bell B	Bell X ₂	Weight	
		(in)	(mm)	(in)	(in)	(in)	(lb)	
90° Elbows	• A - •	2	50	3.82	2.78	2.05	1.0	
(Molded)		3	80	4.42	3.99	3.32	1.5	
	. ({ В	4	100	5.50	5.00	3.15	3.0	
		6	150	7.50	7.34	4.00	8.5	
	· · · · · · · · · · · · · · · · · · ·							
45° Elbows		2	50	3.18	2.78	2.05	0.9	
(Molded)	A	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 (Maldad)	• A - • A - •	2	50	3.82	2.78	2.05	1.3	
(Molded)		3	80	4.50	3.99	2.40	2.5	
	·	4	100	5.50	5.00	3.15	4.0	
	A J Zzzzał	6	150	7.50	7.34	4.00	12.0	
	•							
End Caps	-	2	50	3.25	2.93	2.00	0.6	
(Molded)	x ₂	3	80	3.38	4.05	2.25	1.0	
	Comments .	4	100	3.38	5.05	2.25	1.4	
	B	6	150	4.63	7.44	3.30	4.5	
Sleeve	→ A →	2	50	6.25	2.80	2.13	0.5	i
Couplings	+ X2 +	3	80	6.50	4.05	2.19	1.1	
	< 1 1	4*	100	5.45	5.10	2.38	2.1	
	B	0.4	150	7.00	7.00		1 10	1

 * 4" & 6" are wound-on tooling couplings.

150

6*

Reducer Bushings (Molded)





No Pip	ominal be Size	Length A	OD B	OD Thread Size B C D E		E	Х 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

7.00

7.30

3.13

4.6

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

Nc Pip	ominal e Size	Length A	OD B	Thread Size C	D	E	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	Nominal Pipe Size		Length A	OD B	С	D	E	X ₁	Insertion X ₂	Wt
	(in)	(mm)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(lb)
Nipples	2	50	6.00	2.38	8.00	10.00	12.00	_	_	0.5(1)
(filament wound)	3	80	_	3.50	8.00	10.00	12.00			0.7
▲,C,D,E	4	100		4.50	_	10.00	12.00			1.0
T 1 5	6	150		6.63	_		12.00	_		1.7
	(1) Lb/ft.									

Adaptors: Bell x NPT male (molded)



в

2	50	4.16	2.92	2 x 11 ¹ /2 ⁽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 11 ¹ /2 ⁽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 11 ¹ /2 ⁽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)



Nor Pipe	Nominal Pipe Size		В	с	D	Е	Number of Bolt Holes ₂	Х 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)

Flanged connections in Dualoy 3000/L piping systems are made using one-piece flange rings and stub ends that are bonded onto the pipe ends. Both flange rings and stub ends are fabricated by compression molding epoxy resins and discontinuous glass fibers. Bolt holes are drilled in accordance with ANSI B16.5, Cl150. Dualoy 3000/L flanged connections are rated to the same pressures as pipe and fittings of the same nominal pipe size.



Noi Pipe	minal e Size	А	в	с	D	Е	Number of Bolt Holes ₂	X ₂	Wt
(in)	(mm)	(in)	(in)	(in)	(in)	(in)		(in)	(lb)
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.



Shear valve 11/2 NPT female Dualoy isolation adapter

SS flex connector 11/2 NPT male both ends (by others)

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