

AURORA ACCESSORIES

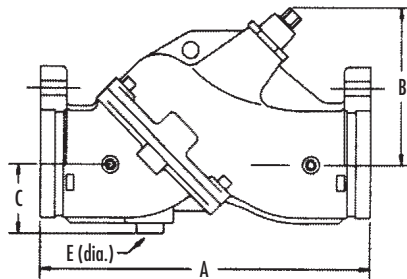
TRIPLE DUTY VALVES

STRAIGHT AND ANGLE – SIZES 2-1/2" – 6"

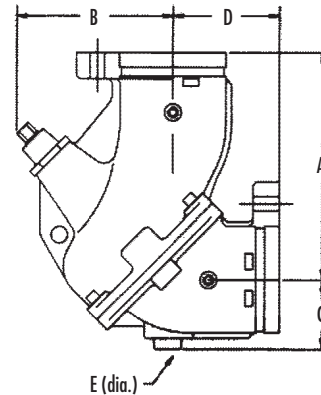
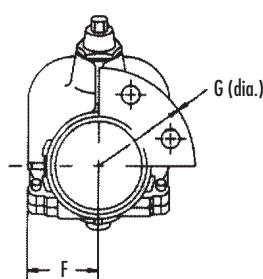
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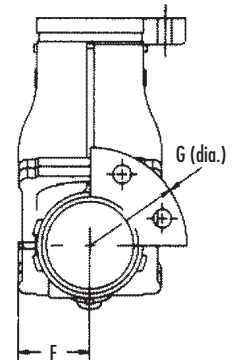
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Model 3DVG-S (Straight)



Model 3DVG-A (Angle)



MODEL	3DVG-S (Straight) in inches (mm)					3DVG-A (Angle) in inches (mm)				
Connection Size	2-1/2	3	4	5	6	2-1/2	3	4	5	6
A	12 (305)	12 (305)	14 (356)	17-1/2 (445)	20-11/16 (525)	7-3/8 (187)	8-3/16 (208)	9-5/8 (244)	12 (305)	14-1/8 (359)
B (fully open)	7 (178)	7-13/16 (198)	8 (203)	10-1/8 (257)	10-3/8 (264)	7 (178)	7-13/16 (198)	8 (203)	10-1/8 (257)	10-3/8 (264)
C	2-3/4 (70)	2-7/16 (62)	3 (76)	3-5/8 (92)	4-7/16 (113)	2-3/4 (70)	2-7/16 (62)	3 (76)	3-5/8 (92)	4-7/16 (113)
D	—	—	—	—	—	4-5/8 (117)	3-7/8 (98)	4-3/8 (111)	5-1/2 (140)	6-5/8 (168)
E	1 (25)	1 (25)	1-1/4 (32)	1-1/4 (32)	2 (51)	1 (25)	1 (25)	1-1/4 (32)	1-1/4 (32)	2 (51)
F	2-9/16 (65)	3 (76)	3-7/16 (87)	4-15/16 (125)	5-7/8 (149)	2-9/16 (65)	3 (76)	3-7/16 (87)	4-15/16 (125)	5-7/8 (149)
G (Flange 125/150 psi)	7 (178)	7-1/2 (191)	9-1/4 (235)	10 (254)	11 (279)	7 (178)	7-1/2 (191)	9-1/4 (235)	10 (254)	11 (279)
G (Flange 250/300 psi)	7-1/2 (191)	8-1/4 (210)	10 (254)	11 (279)	12-1/2 (318)	7-1/2 (191)	8-1/4 (210)	10 (254)	11 (279)	12-1/2 (318)
Weight lbs. (kg)	19 (9)	24 (11)	42 (19)	81 (37)	120 (54)	19 (9)	24 (11)	42 (19)	81 (37)	120 (54)

Materials of Construction

Body	Ductile Iron – ASTM A536 GR 65-45-12
Disc	Bronze – ASTM B584 C-84400
Seat	High Strength Engineered Resin
Stem	Stainless Steel – ASTM A582 Type 416
Spring	Stainless Steel – ASTM A302
O-Rings	Buna
Metering Ports (2)	NPT Brass Body with EPT Check and Gasketed Cap
Drain Tappings (2)	1/4" with Brass Plug
Flange Adapter	Ductile Iron – ASTM A536 GR 65-45-12 with EPT Gaskets
Insulation	PVC white cover with mineral fiberglass insulation which meets or exceeds ASTM D1784 Class 14253-C, MEA #7-87, ASTM E84 and ASTM E136 and flame rating of 25 or less and smoke rating of 50 or less.

Flange Adapter Details

Valve Size	125 psi/150 psi Ductile Iron			250 psi/300 psi Ductile Iron			Rec'd Bolt Length
	Bolt		Bolt Dia. in inches (mm)	Bolt		Bolt Dia. in inches (mm)	
	No.	Size		No.	Size		
2-1/2	4	5/8	5-1/2 (140)	8	3/4	5-7/8 (149)	2-1/2
3	4	5/8	6 (152)	8	3/4	6-5/8 (168)	2-1/2
4	8	5/8	7-1/2 (191)	8	3/4	7-7/8 (200)	3
5	8	3/4	8-1/2 (216)	8	3/4	9-1/4 (235)	3
6	8	3/4	9-1/2 (241)	12	3/4	10-5/8 (270)	3-1/4

Optional Feature: Viton® Elastomers for temperatures above 230°F.

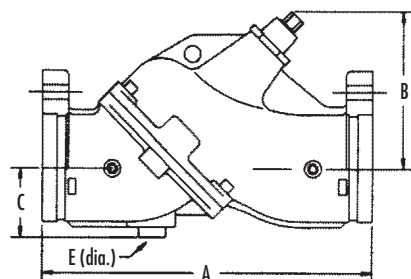
Note: EPT Elastomers are not suitable for oil service.

AURORA ACCESSORIES
TRIPLE DUTY VALVES
 STRAIGHT AND ANGLE – SIZES 8" – 12"

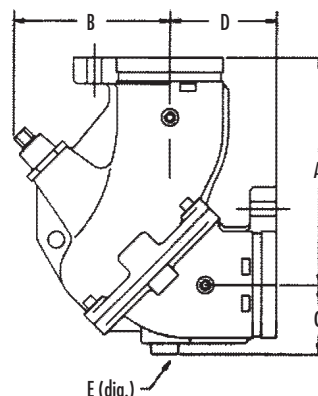
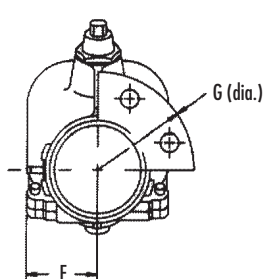
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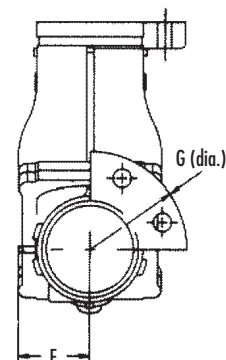
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 Dated May 2010



Model 3DVG-S (Straight)



Model 3DVG-A (Angle)



MODEL	3DVG-S (Straight) in inches (mm)			3DVG-A (Angle) in inches (mm)		
Connection Size	8	10	12	8	10	12
A	28-3/16 (716)	30 (762)	38-1/16 (967)	18-15/16 (481)	20-5/16 (516)	24-1/16 (611)
B (open)	22-13/16 (579)	28-5/8 (727)	32-5/8 (829)	18-3/4 (476)	24 (610)	26-1/4 (667)
C	5-11/16 (144)	6-9/16 (167)	7-5/8 (194)	5-11/16 (144)	6-9/16 (167)	7-5/8 (194)
D	—	—	—	9-3/16 (233)	9-3/4 (248)	14 (356)
E	2-1/4 (57)	2-1/4 (57)	2-1/4 (57)	2-1/4 (57)	2-1/4 (57)	2-1/4 (57)
F	7-7/8 (200)	9-15/32 (241)	12-5/8 (321)	7-7/8 (200)	9-15/32 (241)	12-5/8 (321)
G (Flange 125")	13-1/2 (343)	16 (406)	19 (483)	13-1/2 (343)	16 (406)	19 (483)
G (Flange 250")	15 (381)	17-1/2 (445)	20-1/2 (521)	15 (381)	17-1/2 (445)	20-1/2 (521)
Weight lbs. (kg)	310 (141)	460 (209)	870 (395)	310 (141)	460 (209)	870 (395)

Materials of Construction

Body	Ductile Iron – ASTM A536 GR 65-45-12
Disc	Bronze – ASTM B584 C-84400
Seat	EPDM
Stem	Stainless Steel
Memory Lock	Brass – ASTM B-16
O-Rings	Buna N.
Metering Ports	NPT Brass Body with EPT Check
Drain Tappings	1/4" Quantity 2 with Brass Plug
Flange Adapters	Ductile Iron
Flange Gaskets	EPDM
Insulation	Fiberglass

Optional Feature: Viton® Elastomers for temperatures above 230°F.

Note: EPT Elastomers are not suitable for oil service.

AURORA ACCESSORIES

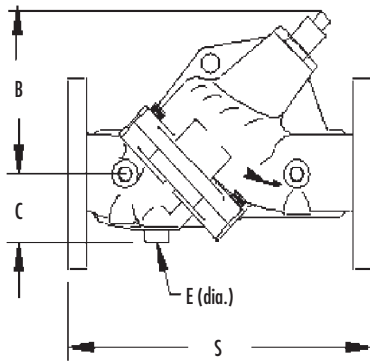
TRIPLE DUTY VALVES

ANSI FLANGED – 125/250 PSIG

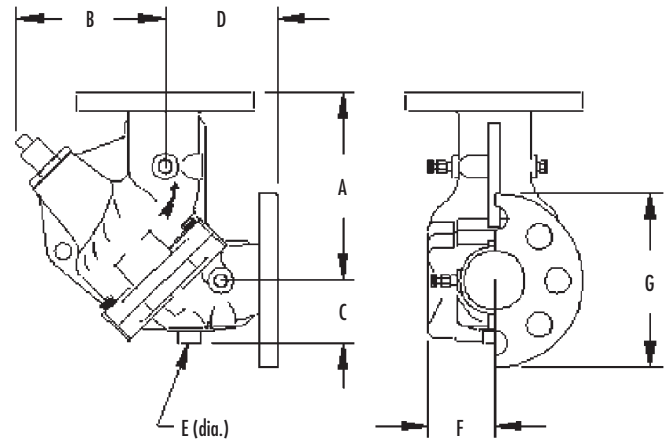
STRAIGHT AND ANGLE – SIZES 2-1/2" – 12"

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Straight – Model 3DV



Angle – Model 3DV

125 psig	DIMENSIONS in inches (mm)							
Connection Size	2-1/2	3	4	5	6	8	10	12
A	7.38 (187)	8.19 (208)	9.63 (245)	12.00 (305)	14.13 (359)	19.00 (483)	20.30 (516)	24.07 (611)
B (fully open)	7.00 (178)	7.81 (198)	8.00 (203)	10.13 (257)	10.38 (264)	18.75 (476)	24.00 (610)	26.25 (667)
C	2.75 (70)	2.44 (62)	3.00 (76)	3.63 (92)	4.44 (113)	5.69 (145)	6.56 (167)	7.63 (194)
D	4.63 (118)	3.88 (99)	4.38 (111)	5.50 (140)	6.63 (168)	9.19 (233)	9.78 (248)	14.05 (357)
E	1.00 (25)	1.00 (25)	1.25 (32)	1.25 (32)	2.00 (51)	2.25 (57)	2.25 (57)	2.25 (57)
F	2.56 (65)	3.00 (76)	3.44 (87)	4.94 (125)	5.88 (149)	7.88 (200)	9.47 (241)	12.63 (321)
G	7.00 (178)	7.50 (191)	9.00 (229)	10.00 (254)	11.00 (279)	13.50 (343)	16.00 (406)	19.00 (483)
S	12.00 (305)	12.00 (305)	14.00 (356)	17.50 (445)	20.69 (526)	28.00 (711)	30.01 (762)	38.09 (967)
Weight lbs. (kg)	33 (15.0)	39 (17.7)	59 (26.8)	108 (49.0)	167 (75.7)	344 (156.0)	603 (273)	1006 (456)

250 psig	DIMENSIONS in inches (mm)		
Connection Size	8	10	12
A	19.11 (485)	20.33 (516)	24.05 (611)
B (fully open)	18.75 (476)	24.00 (610)	26.25 (667)
C	5.69 (145)	6.56 (167)	7.63 (194)
D	9.69 (246)	9.80 (249)	14.03 (356)
E	2.25 (57)	2.25 (57)	2.25 (57)
F	7.88 (200)	9.47 (241)	12.63 (321)
G	15.00 (380)	17.50 (445)	20.50 (521)
S	28.20 (716)	30.01 (762)	38.05 (966)
Weight lbs. (kg)	396 (180.0)	712 (323.6)	1163 (528.6)

Notes: Dimensional Tolerance up to +/- 0.125 in (3mm).

Materials of Construction

ANSI Flange Rating	125 psi	250 psi
Body	Cast Iron – ASTM A48 Class 30	Ductile Iron – ASTM A536 GR 65-45-12
Disc	Bronze – ASTM B584-C84400	
Seat	EPDM*	
Stem	Stainless Steel – ASTM A582 Type 416	
Spring	Stainless Steel – ASTM A313 Type 302	
O-Rings	Buna (STEM) Elastomers & EPDM	
Metering Ports (2)	Brass Body with EPDM Check and Gasketed Cap	
Drain Tappings (2)	1/4" NPT with Brass Plug	
Insulation (Optional)	PVC white cover with mineral fiberglass insulation which meets or exceeds ASTM D1784 Class 14253-C, MEA #7-87, ASTM E84 and ASTM E136 and flame rating of 25 or less and smoke rating of 50 or less.	

ANSI Flange Rating	125 psi	250 psi
Max. Working Pressure	250 psi (17 bars)	375 psi (25 bars)

Optional Feature: Viton® Elastomers for temperatures to 300°F (150°C).

*EPDM Elastomers are not suitable for oil service.