SPECIFICATION SHEET MODEL 850



DOUBLE CHECK ASSEMBLY

Characteristics

Physical Properties

Size of Mainline Max. Working Pressure Hydrostatic Test Press. Temperature Range **End Connections**

21/2", 3, 4", 6", 8", 10" 175 PSI (1200 KPa) 350 PSI (2400 KPa) 32° F to 140° F (0° C to 60° C) Flanged ANSI B16.1 Class 125

Materials

Main Valve Body Coating

Shut Off Valves

AWWA C509

Trim Elastomer Discs

Spring

Ductile iron Grade 65-45-12 Fusion epoxy coated internal and external, AWWA C550-90 NRS resilient wedge gate valves

Bronze **EPDM**

Stainless steel

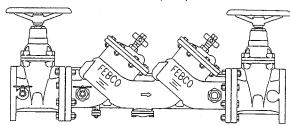
Application

Non-Health Hazard

Options

- ☐ UL/FM OS&Y RW Gate Valves
- ☐ Wye Strainer

U.S. Patent No. 4,989,635

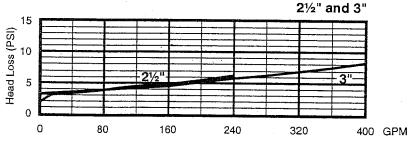


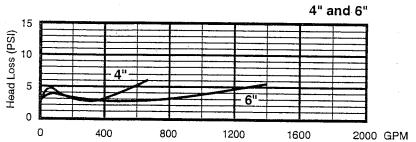
MODEL 850 DOUBLE CHECK ASSEMBLY

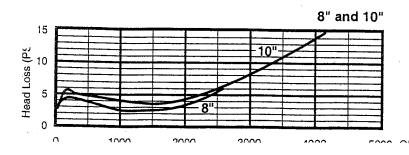
Agency Compliance

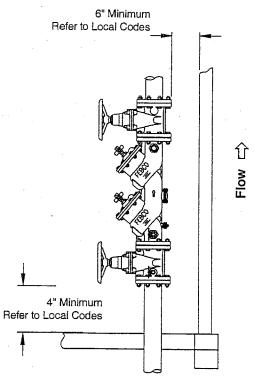
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California. - 21/2" - 8" (Horizontal & Vertical Up)
- ASSE (Std. 1015) 21/2" 8" (Horizontal & Vertical Up), 10" (Horizontal)
- ANSI/AWWA (C510-89) 21/2" 8" (Horizontal & Vertical Up), 10" (Horizontal)
- CAN/CSA (B64.5) 21/2" 8" (Horizontal & Vertical Up)
- cUL 21/2" 8" (Horizontal & Vertical Up)
- FM Approved* 21/2" 8" (Horizontal & Vertical Up)
- UL Listed* 21/2" 8" (Horizontal & Vertical Up)
- Less gates not FM approved. Less gates not UL listed unless installed with UL listed gate valves.

Model 850 Flow Curves





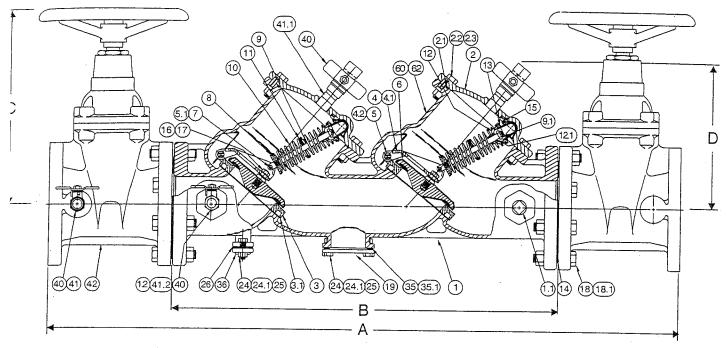




MODEL 850 VERTICAL INSTALLATION



Model 850



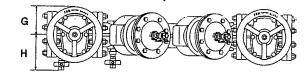
NET

NET

Dimensions and Weights (U.S. - Inches)

							(lbs.)	(lbs.)
ZE	A	B	C*	D	G	Н	NRS	OS&Y
1/2"	403/4	251/2	12 ⁵ / ₈	101/4	41/2	71/8	199	203
3"	41 ⁷ /a	25 ⁵ / ₈	12 ⁷ / ₈	101/4	41/2	7³/8	211	213
1"	461/4	28	14³/₅	101/4	51/2	81/a	288	312
3"	3	34³/₄	18 ⁷ / ₈	. 13	61/2	97/8	450	494
,		413/4	231/2	15⁵/ ₈	7	111/ ₈	711	773
	_ ≃ీ/8	46³/ ₈	271/2	155/8	9	$12^{3}/_{8}$	980	1080
			(1)	Metric - Mi	И)		NET	NET
			(1)	Metric - MI	M)			
ZE	Α	В	C* (I	Metric - MI D	M) G	<u>H</u>	NET (kg) NRS	NET (kg) OS&Y
i5	A 1035.05	B 647.70	,		,	<u>H</u> 180.98	(kg)	(kg)
			C*	D	, 		(kg) NRS	(kg) OS&Y
i5 i0)0	1035.05 1063.63 1174.75	647.70	C* 320.68	D 260.35	G 114.30	180.98	(kg) NRS 90	(kg) OS&Y 92
i5 i0 00 50	1035.05 1063.63	647.70 650.88	C* 320.68 327.03	D 260.35 260.35	G 114.30 114.30	180.98 187.33	(kg) NRS 90 96	(kg) OS&Y 92 97
i5 i0)0	1035.05 1063.63 1174.75	647.70 650.88 711.20	C* 320.68 327.03 365.13	D 260.35 260.35 260.35	G 114.30 114.30 139.70	180.98 187.33 206.38	(kg) NRS 90 96 131	(kg) OS&Y 92 97 142





ith NRS Gate Valves

Materials of Construction

TEM DESCRIP	TION MATERIALS	ITEM	DESCRIPTION	MATERIALS	ITEM	DESCRIPTION	MATERIALS
Body Pipe Plug Bushing (2 Cover O-Ring Cap Screw Hex Nut Seat Ring Gasket Arm Bushing-Si Ving Pin ining (3 xk Disk	A536 GR 65-45-12 EPDM ASTM D200 Plated Steel Plated Steel B584 Alloy C83600 EPDM ASTM D200 B584 Alloy C83600 wing Pin Acetal Resin 304 SS Dip 302 SS	8 9 9.1 10 11 12 12.1 13 14 15 16 17 18 18.1	Load Pin Lwr Spring Retnr Spring Stem Elastic Stop Jam Nut Spring Spring Guide Upr Spring Retnr Bushing-Spr. Stem Pivot Bearing Flange Gasket Bearing Socket Hex Jam Nut Washer Flange Nut Flange Nut Cover Bolt	304 SS B584 Alloy C83600 304 SS 18-8 SS A313 Type 631 SS B130 Alloy C22000 B584 Alloy C83600 Acetal Resin B585 Alloy C83600 Rubber/Fabric Acetal Resin 18-8 SS 302 SS Plated Steel Plated Steel A36 Stl Epoxy Coated Plated Steel	24.1 25 26 35 35.1 36 40 41 41.1 41.2 42 60 62	Washer Bolt Gasket O-Ring Back-Up Ring Cover Ball Valve Nipple Nipple Nipple Gate Valve Id Plate Drive Screw	Plated Steel Plated Steel Plated Steel EPDM ASTM D2000 ACETAL Resin B584 Alloy C83600 B584 Alloy C84400 Brass Brass Brass Brass AWWA C509 B36 Alloy C26000 SS

CO Backflow Prevention

Box 8070 • Fresno, CA 93747-8070

252-0791 • Fax: 559 453-9030 • www.cmb-ind.com

CMB Industries, Inc.
A United Dominion Company

^{9:} Dimensions are nominal. Allowances must be made for normal manufacturing tolerances.