SUBMITTAL SHEET

Model DCDALF 4A -Model DCDA2LF 4A

Double Check Detector Assembly



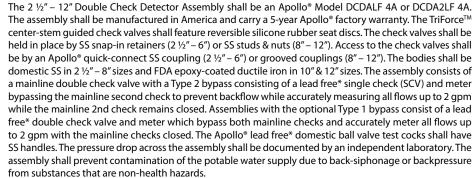
Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO Number:	
Representative:	
Wholesale Distributor:	







SPECIFICATIONS



FEATURES

- Domestic Stainless steel body: 2 ½" 8"
- FDA epoxy-coated ductile iron body: 10" & 12"
- Easy maintenance no special tools required
- Snap-in check retainers: 2 1/2" 6"
- Bolted-in checks: 8" 12"
- Low pressure loss as documented by an independent laboratory
- Center-stem guided TriForce[™] check valves
- Approved for horizontal (2 ½"-12") and vertical flow up (2 ½" - 8")
- US Patent Nos. 6,443,184; 7,025,085; 7,533,699
- · Made in the USA

PERFORMANCE RATING

- Maximum Working Pressure 175 psi
- Temperature Range 33 ° F 140 ° F
- Hydrostatic Test Pressure 350 psi

APPROVALS

- Sizes 2 ½" 12": ASSE 1048*, CSA B64.5, FM, UL*, cUL*
- * ASSE, UL, and cUL installations must include indicating-type shut-off valves
- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California (Model DCDALF 4A, 2-1/2" - 8")

FACTORY CODE

4ALF	6 X	X	X	[X]						
	BY-PASS SUB-ASSEMBLY OPTIONS	SIZE	METER OPTION	SHUT-OFF VALVES (Inlet X Outlet)						
4ALF = Lead Free	hand side. Left ** Post indicator w	□ 9 = 2-1/2" □ 0 = 3" □ A = 4" □ C = 6" □ E = 8" □ G = 10" □ H = 12" Phass looking downstre hand is on opposite sid with plate & nut option into available in 12" size	e not available in 2-1/2" size.	□ 1 = Less Shut-off Valves □ 3 = OS&Y Flg x OS&Y Flg □ 4 = OS&Y Flg x Monitored (Mon.) Butterfly Vlv Grv [†] □ 6 = OS&Y Flg x Post indicator Flg** □ 7 = OS&Y Flg x OS&Y Grv □ 8 = OS&Y Grv x OS&Y Grv □ 9 = Mon. Butterfly Vlv Grv x Mon. Butterfly Vlv Grv [†] □ 10 = OS&Y Flg x Post Indicator Grv** □ 13 = Post Indicator Flg x Mon. Butterfly Vlv Grv [†] □ 14 = Post Indicator Flg x Post Indicator Flg □ 16 = Mon Butterfly Vlv Grv x Post Indicator Flg □ 17 = Post Indicator Flg x OS&Y Grv □ 18 = OS&Y Grv x Post Indicator Grv □ 19 = Mon. Butterfly Vlv Grv x Post Indicator Grv □ 20 = Post Indicator Flg x OS&Y Flg						

* LEAD FREE: The wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with Federal Public Law 111-380. ANSI 3rd party approved and listed. Apollo Valves, Manufactured by **Conbraco Industries, Inc.** 701 Matthews Mint-Hill Road, Matthews, NC 28105 USA www.**apollovalves**.com | (704) 841-6000

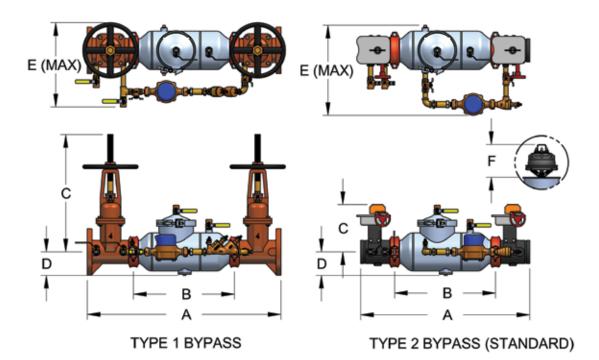
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SUBMITTAL SHEET

— Model DCDALF 4A — Model DCDA2LF 4A

Double Check Detector Assembly



DIMENSIONS

Nominal dimensions are shown. Allowances must be made for manufacturers' tolerances (± 1/8" (3 mm) per joint)

DIMENSIONS	2-1/2"	60mm	3″	75mm	4"	100mm	6"	150mm	8"	200mm	10"	250mm	12″	300mm
A (Butterfly Valves)	28 ±	711 ±	28-1/2 ±	724^{\pm}	33-1/4 [±]	845 ±	38-7/8 ±	987 ±	46-3/8 [±]	1178 ±	52-1/4 ±	1378 ±	N/A	N/A
A (Gate Valves)	31 ±	787 ±	32 ±	813 ±	38 ±	965 ±	45-7/8 ±	1165 ±	53-3/8 [±]	1356 ±	62-1/4 [±]	1581 ±	65-1/2 [±]	1664 ±
B (Less Shut-off Valves)	15-7/8 [±]	403 ±	15-7/8 [±]	403 ±	19-5/8 [±]	498 ±	24-1/2 ±	$622 \pm$	30 ±	762 ±	36 ±	914 ±	37 ±	940 ±
C (Butterfly Valves)	8	203	8-3/8	213	9-1/8	233	10-1/8	257	12	306	13-3/8	340	N/A	N/A
C (NRS/PI Gate Valves)	11-3/8	289	12-3/8	314	14-3/4	375	19	483	22-1/2	572	26-1/2	673	30	762
C (OS&Y Open)	16-3/8	416	18-7/8	479	22-3/4	578	30-1/8	765	37-3/4	959	45-3/4	1162	53-1/8	1348
D (Centerline to bottom)	3-7/8	98	3-7/8	98	4-5/8	117	6	152	8-1/8	206	11-3/4	298	12	305
E (Width Max)	17	432	17	432	17	432	20	508	21-1/2	546	26-1/2	673	26-1/2	673
F (Check Removal Clearance)	4-3/4	121	4-3/4	121	6-1/2	165	7-1/2	191	7-1/2	191	10	254	10	254
Test Cocks (NPT)	1/2"	13	1/2"	13	1/2"	20	3/4"	20	3/4"	20	3/4"	20	3/4"	20
WEIGHTS	lb.	kg	lb.	kg	lb.	kg	lb.	kg	lb.	kg	lb.	kg	lb.	kg
Net Wt. (Less Shut-offs)	37	17	38	17	54	25	90	41	223	101	722	327	825	374
Net Wt. (w/ Butterfly Valves)	64	29	68	31	98	45	158	72	354	161	940	426	N/A	N/A
Net Wt. (w/ OS&Y Gate Valves)	133	60	159	72	209	95	339	154	700	318	1608	729	2017	915

Notes:

- 1. Nominal dimensions are shown. Allowances must be made for manufacturers' tolerances (1/8" per joint).
- 2. Internal body connections are grooved on $2\frac{1}{2}$ " 10" sizes.
- 3. Internal body connections are flanged on 12" size.

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Model DCDALF 4AModel DCDA2LF 4A

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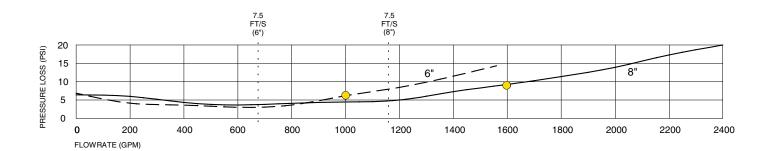
FLOW CURVES

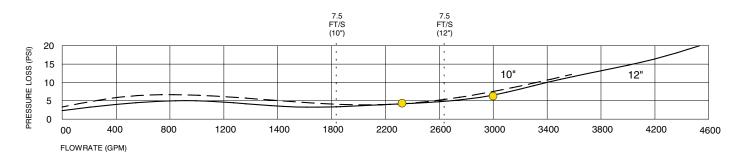
Meter Rated Flow

STANDARD MATERIALS LIST

Part Name	Material
Body (2 ½" – 8")	304 Stainless Steel
Body (10" & 12")	FDA Epoxy Coated Ductile Iron
Covers (2 ½" – 6")	Glass-filled PPO/Stainless Steel
Cover (8")	304 Stainless Steel
Covers (10" & 12")	FDA Epoxy Coated Ductile Iron
Check Valves	Glass-filled PPO/Bronze
(2 ½" – 12")	(C89836 Lead-Free*)/SS
Bypass Valves	Bronze (C89836 Lead-Free*)
Springs	Stainless Steel
Seat Discs	Chloramine-resistant Silicone

			7.5 FT/S (2-1/2")	7.5 FT/S (3")		7.5 FT/S (4")										
(ISA) 1									3"							
SSC			:	:	2-1/2"								4"			
UNE IC				+==												
PRESSURE																
₫	00	50		50 20	00 25	50 300	350	400	450	500	550	600	650	700	750	800
	FLOWF	ATE (GPM)													





Notes:

- 1. Flow curves directly reflect data collected by an independent laboratory.
- 2. Flow curves shown were recorded with butterfly shut-off valves. Flow curves with gate valves are slightly lower. Contact factory for more information.
- 3. All data points are based on ASSE increasing flow data, from zero GPM to rated flow (opening curve).
- 4. For high flow rates/pressure loss information contact factory.

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