

Model DCDALF4 AN-Model DCDA2LF4 AN

Double Check **Detector Assembly**

(7)

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







SPECIFICATIONS

The 2 ½" – 12" Double Check Detector Assembly shall be an Apollo® Model DCDALF4AN or DCDA2LF4AN. The assembly shall be manufactured in America and carry a 5-year Apollo® factory warranty. The TriForce™ centerstem guided check valves shall feature reversible silicone rubber seat discs. The check valves shall be held in place by drop-in retainers (2 ½" – 6") or SS studs & nuts (8" – 12"). Access to the check valves shall be by an Apollo® quick-connect SS coupling (2 ½" – 6") or grooved couplings (8" – 12"). The bodies shall be domestic SS in 2 ½" – 8" sizes and FDA epoxy-coated ductile iron in 10" & 12" sizes. The assembly is a mainline double check valve with a Type 2 bypass consisting of a lead free* single check (SCV) and meter bypassing the mainline second check to prevent backflow while accurately measuring all flows up to 2 gpm with the mainline 2nd check remaining closed. Assemblies with the optional Type 1 bypass consist of a lead free* double check valve and meter which bypasses both mainline checks and accurately meters all flows up to 2 gpm with both mainline checks closed. The Apollo® domestic ball valve test cocks shall have SS handles. The assembly shall prevent contamination of the potable water supply due to back-siphonage or backpressure from substances that are non-health hazards. The pressure drop across the assembly shall be documented by an independent laboratory.

FEATURES

- Domestic Stainless steel body: 2 1/2" 8"
- FDA epoxy-coated ductile iron body: 10" & 12"
- Easy maintenance no special tools required
 - Drop-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
- Small installation space required small footprint
- · Approved for n-flow
- 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

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

*ASSE, UL, and cUL installations must include indicating-type shut-off valves

FACTORY CODE

4AnLF	6 X	X		X [X]
	BY-PASS SUB-ASSEMBLY OPTIONS	SIZE	METER OPTION	SHUT-OFF VALVES (Inlet X Outlet)
4AnLF = Lead Free	□ 0= Type 1 w/ 1/2" Double Check	□ 9= 2-1/2"	☐ C= Cubic feet/min	☐ 1 = Less Shut-off Valves
	☐ 2= Type 2 w/1/2" Single Check (Standard)	□ 0= 3"	☐ E= Gallons/min	\square 3 = OS&Y Flg x OS&Y Flg
	☐ 3= Type 1 w/ bypass on left*	□ A= 4"	☐ G= Less meter	☐ 4 = OS&Y Flg x Monitored (Mon.) Butterfly Vlv Grv [†]
	☐ 4= Type 2 w/ bypass on left*	□ C= 6"		☐ 6 = OS&Y Flg x Post indicator Flg**
		□ E= 8"		\Box 7 = OS&Y Flg x OS&Y Grv
		□ G= 10"		\square 8 = OS&Y Grv x OS&Y Grv
		☐ H= 12"		☐ 9 = Mon. Butterfly VIv Grv x Mon. Butterfly VIv Grv [†]
				☐ 10 = OS&Y Flg x Post Indicator Grv**
				☐ 13 = Post Indicator Flg x Mon. Butterfly VIv Grv [†]
				☐ 14 = Post Indicator Flg x Post Indicator Flg
				☐ 16 = Mon Butterfly VIv Grv x Post Indicator Flg [†]
	* Orientation of bypass looking dow	ı İnstream. Stand	lard is right	☐ 17 = Post Indicator Flg x OS&Y Grv
	hand side. Left hand is on opposi	☐ 18 = OS&Y Grv x Post Indicator Grv		
	** Post indicator with plate & nut op	☐ 19 = Mon. Butterfly VIv Grv x Post Indicator Grv		
	† Butterfly valves not available in 12	?" size.		☐ 20 = Post Indicator Flg x OS&Y Flg

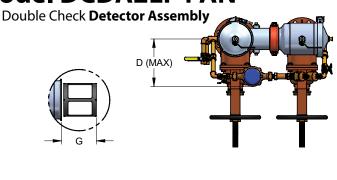
* LEAD FREE: The wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with Federal Public Law 111-380. ANSI 3rd party approved and listed.

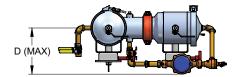
Apollo Valves, Manufactured by **Conbraco Industries, Inc.** 701 Matthews Mint-Hill Road, Matthews, NC 28105 USA www.**apollovalves**.com | (704) 841-6000

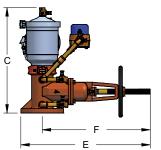
This specification is provided for reference only. Conbraco Industries Inc. reserves the right to change any portion of this specification without notice and without incurring obliqation to make such changes to Conbraco products previously or subsequently sold. Please visit our website @ www.apollovalves.com for the most current information.

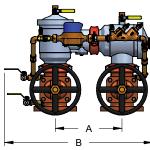


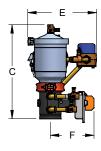
—Model DCDALF4 AN— Model DCDA2LF4 AN

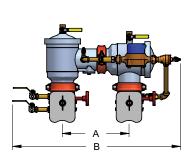












Type 1 Bypass

Type 2 Bypass

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 (Centerline to Centerline)	12-1/2 ±	318 ±	12-1/2 ±	318 ±	14 ±	356 ±	16 ±	406 ±	18-1/2 ±	470 ±	21 ±	533 ±	26-3/4 ±	679 ±
B (Butterfly Valves)	32-3/4 ±	832 ±	32-3/4 ±	832 ±	35-1/4 [±]	895 ±	40 ±	1016 ±	44 ±	1118 ±	54 ±	1372 ±	N/A	N/A
B (Gate Valves)	31 ±	787 $^{\pm}$	31 ±	787 $^{\pm}$	31-3/4 [±]	806 $^{\pm}$	36-1/4 [±]	921 ±	41-1/2 [±]	1054 ±	49 ±	1245 $^{\pm}$	55-3/4 [±]	1416 ±
C (Butterfly Valves)	18-1/4	464	18-1/2	470	20	508	24-3/4	629	28-1/2	724	35	889	N/A	N/A
C (Gate Valves)	19-5/8	498	20	508	22-1/2	572	27-3/4	705	32-1/8	816	40	1016	44	1118
D (Centerline to max bypass)	10	254	10	254	10-1/8	257	11-1/4	286	12-1/2	318	14-3/8	365	15-1/4	387
E (Butterfly Valves)	11-1/2	292	12-1/8	308	12-7/8	327	15-7/8	403	22-1/4	565	23-1/8	591	N/A	N/A
E (OS&Y Open)	19-7/8	505	24-1/4	616	27-1/4	692	32-3/4	832	44-1/2	1130	54	1372	62-3/4	1594
E (NRS/PI)	14-7/8	378	16-1/8	410	19-1/4	489	24-1/2	622	29-1/4	743	36-3/8	924	40	1016
F (0S&Y)	16-3/8	416	20-1/2	521	22-3/4	578	28	711	37-3/4	959	46	1168	53-1/8	1349
F (Butterfly Valves)	8	203	8-3/8	213	9	229	10-7/8	276	12-7/8	327	13-1/2	343	N/A	N/A
F (NRS/PI)	11-3/8	289	12-3/8	314	14-3/4	375	19	483	22-1/2	572	26-1/2	673	30	762
G (Check Removal Clearance)	6	152	6	152	6	152	8	203	8-1/2	206	12	305	12	305
Test Cocks (NPT)	1/2"	13	1/2"	13	1/2"	13	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)	45	20	45	20	54	25	89	40	320	145	805	365	930	422
Net Wt. (w/ Butterfly Valves)	72	33	75	34	99	45	157	71	451	205	983	446	N/A	N/A
Net Wt. (w/ OS&Y Gate Valves)	141	64	166	75	209	95	338	153	797	362	1473	668	2121	962

Notes

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

Apollo Valves, Manufactured by **Conbraco Industries, Inc.** 701 Matthews Mint-Hill Road, Matthews, NC 28105 USA www.**apollovalves**.com | (704) 841-6000

This specification is provided for reference only. Conbraco Industries Inc. reserves the right to change any portion of this specification without notice and without incurring obliqation to make such changes to Conbraco products previously or subsequently sold. Please visit our website @ www.apollovalves.com for the most current information.



^{*} 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.



—Model DCDALF4 AN— Model DCDA2LF4 AN

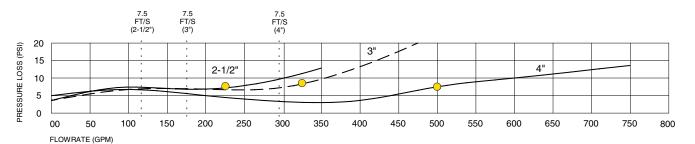
Double Check Detector Assembly

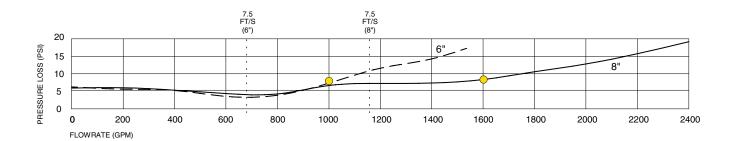
FLOW CURVES

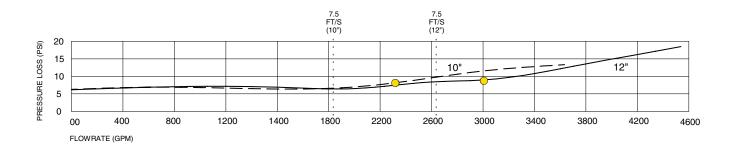
Meter Rated Flow

STANDARD MATERIALS LIST

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







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.

Apollo Valves, Manufactured by **Conbraco Industries, Inc.** 701 Matthews Mint-Hill Road, Matthews, NC 28105 USA www.**apollovalves**.com | (704) 841-6000

This specification is provided for reference only. Conbraco Industries Inc. reserves the right to change any portion of this specification without notice and without incurring obligation to make such changes to Conbraco products previously or subsequently sold. Please visit our website @ www.apollovalves.com for the most current information.





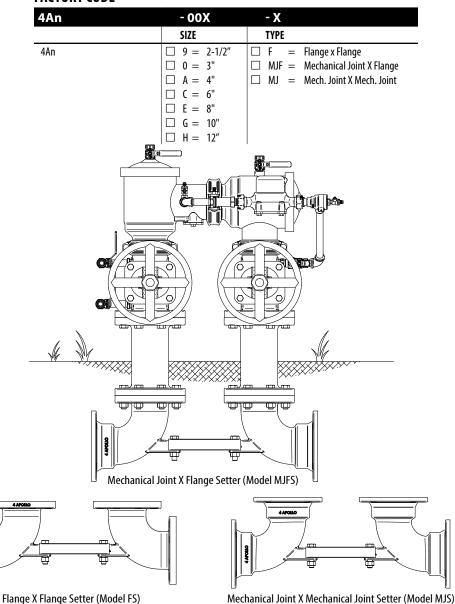
—Model DCDALF4 AN— Model DCDA2LF4 AN

Double Check Detector Assembly

OPTIONAL VALVE SETTERS – Ordered Separately

(See SS1174 Submittal Sheet for details)

FACTORY CODE



Apollo Valves, Manufactured by **Conbraco Industries, Inc.** 701 Matthews Mint-Hill Road, Matthews, NC 28105 USA www.**apollovalves**.com | (704) 841-6000

This specification is provided for reference only. Conbraco Industries Inc. reserves the right to change any portion of this specification without notice and without incurring obligation to make such changes to Conbraco products previously or subsequently sold. Please visit our website @ www.apollovalves.com for the most current information.

