

"Apollo" Valves

SUBMITTAL SHEET

LEAD FREE

Model DCLF 4A

Double Check Valve **Backflow Preventer**



TriForce™ Check

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



SPECIFICATION

The 2 1/2" – 12" Backflow Preventer shall be an Apollo® Model DCLF 4A Lead Free* Double Check Valve. The assembly shall be manufactured in America and carry a 5-year Apollo® factory warranty. The TriForce™ center stem guided check valves shall feature reversible silicone rubber seat discs. The check valves shall be held in place by SS snap-in retainers (2 1/2" – 6") or SS studs & nuts (8" – 12"). Access to the check valves shall be by an Apollo® quick-connect SS coupling (2 1/2" – 6") or grooved couplings (8" – 12"). The bodies shall be domestic SS in 2 1/2" – 8" sizes and FDA epoxy coated ductile iron in 10" & 12" sizes. The Lead Free* 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
- 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 1/2" – 12") and vertical flow up (2 1/2" – 8")
- US Patent Nos. 6,443,184; 7,025,085; 7,533,699
- **Made in the USA – ARRA Compliant (D option)**

PERFORMANCE RATING

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

APPROVALS

- Sizes 2 1/2" - 8": AWWA C510
- Sizes 2 1/2" – 12": ASSE 1015, CSA B64.5, FM, IAPMO, UL*, cUL*

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

- NSF 372 (2 1/2" – 12")
- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California (2-1/2" - 8")

FACTORY CODE

4ALF	1 X	X	OX [X]	XX
	Y-STRAINER	SIZE	SHUT-OFF VALVES	OPTIONS
4ALF = Lead Free	<input type="checkbox"/> 0 = Standard <input type="checkbox"/> 1 = w/Y-strainer (shipped loose)	<input type="checkbox"/> 9 = 2-1/2" <input type="checkbox"/> 0 = 3" <input type="checkbox"/> A = 4" <input type="checkbox"/> C = 6" <input type="checkbox"/> E = 8" <input type="checkbox"/> G = 10" <input type="checkbox"/> H = 12"	<input type="checkbox"/> 1 = Less Shut-off Valves <input type="checkbox"/> 2 = NRS Flg x NRS Flg <input type="checkbox"/> 3 = OS&Y Flg x OS&Y Flg <input type="checkbox"/> 4 = OS&Y Flg x Monitored (Mon.) Butterfly Vlv Grv† <input type="checkbox"/> 6 = OS&Y Flg x Post indicator Flg <input type="checkbox"/> 7 = OS&Y Flg x OS&Y Grv <input type="checkbox"/> 8 = OS&Y Grv x OS&Y Grv <input type="checkbox"/> 9 = Mon. Butterfly Vlv Grv x Mon. Butterfly Vlv Grv† <input type="checkbox"/> 10 = OS&Y Flg x Post Indicator Grv <input type="checkbox"/> 11 = NRS Grv x NRS Grv <input type="checkbox"/> 12 = NRS Flg x NRS Grv <input type="checkbox"/> 13 = Post Indicator Flg x Mon. Butterfly Vlv Grv† <input type="checkbox"/> 14 = Post Indicator Flg x Post Indicator Flg <input type="checkbox"/> 16 = Mon Butterfly Vlv Grv x Post Indicator Flg† <input type="checkbox"/> 17 = Post Indicator Flg x OS&Y Grv <input type="checkbox"/> 18 = OS&Y Grv x Post Indicator Grv <input type="checkbox"/> 19 = Mon. Butterfly Vlv Grv x Post Indicator Grv† <input type="checkbox"/> 20 = Post Indicator Flg x OS&Y Flg <input type="checkbox"/> 21 = Post Indicator Grv x OS&Y Grv <input type="checkbox"/> 22 = Post Indicator Grv x Mon. Butterfly Vlv Grv† <input type="checkbox"/> 23 = Mon. Butterfly Vlv Grv x OS&Y Flg † Butterfly valves not available in 12" size.	<input type="checkbox"/> D = Domestic <input type="checkbox"/> R1 = Retrofit* <input type="checkbox"/> R2 = Retrofit* <input type="checkbox"/> R3 = Retrofit* *Custom length retrofit orders must be accompanied with signed form #OFBFRETRO with exact length required

* LEAD FREE: The wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. NSF 372 ANSI 3rd party approved and listed.

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 701 Matthews Mint-Hill Road, Matthews, NC 28105 USA
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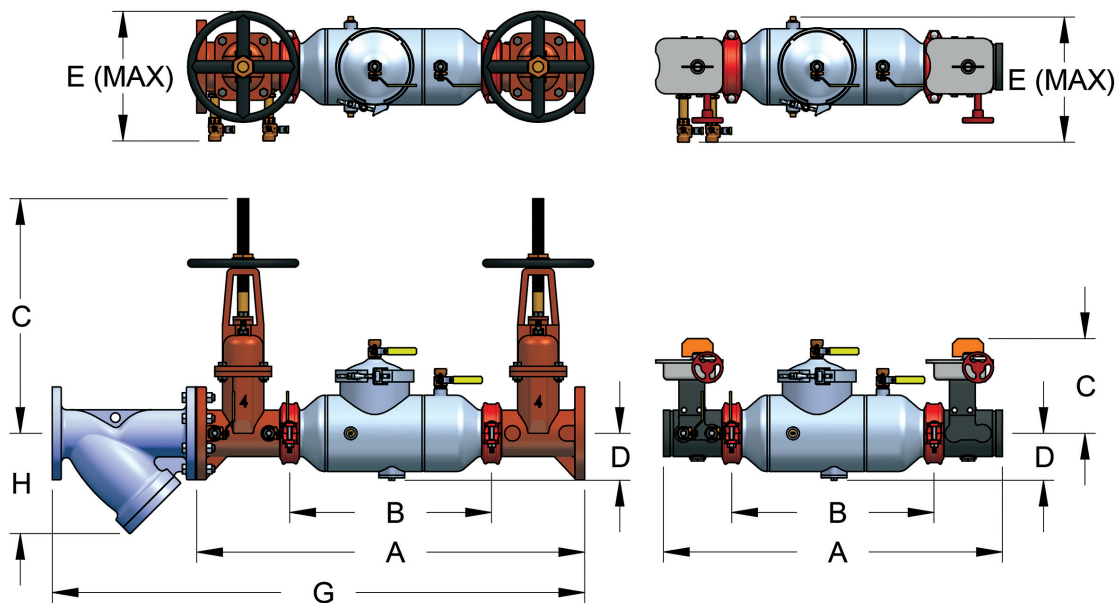
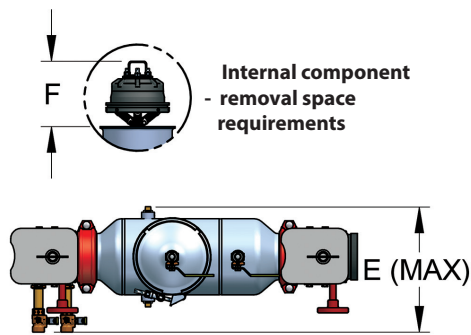
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DIMENSIONS

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

DIMENSIONS	2-1/2"	65mm	3"	80mm	4"	100mm	6"	150mm	8"	200mm	10"	250mm	12"	300mm
A (Butterfly Valves)	28 \pm	711 \pm	28-1/2 \pm	724 \pm	33-1/4 \pm	845 \pm	38-7/8 \pm	987 \pm	46-3/8 \pm	1178 \pm	56-1/4 \pm	1424 \pm	N/A	N/A
A (Gate Valves)	31 \pm	787 \pm	32 \pm	813 \pm	38 \pm	965 \pm	45-7/8 \pm	1165 \pm	53-3/8 \pm	1356 \pm	62-1/4 \pm	1581 \pm	65-1/2 \pm	1664 \pm
B (Less Shut-off Valves)	15-7/8 \pm	403 \pm	15-7/8 \pm	403 \pm	19-5/8 \pm	498 \pm	24-1/2 \pm	622 \pm	30 \pm	762 \pm	36 \pm	914 \pm	37 \pm	940 \pm
C (Butterfly Valves)	8	203	8-3/8	213	9-1/8	233	10-1/8	257	12	306	13-5/8	346	N/A	N/A
C (NRS/PI Gate Valves)	11-3/4	298	13	330	14	356	17-3/4	451	21	573	24-1/2	622	30	762
C (OS&Y Open)	18	457	20	508	21	533	29-1/2	749	37	940	45	1143	53-1/8	1349
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)	10-1/2	267	11	279	12-1/2	318	14-3/8	365	17-5/8	448	21	533	22	559
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
G	41-7/8	1064	43-5/8	1109	52	1321	64-1/2	1638	74-7/8	1902	88-3/8	2245	95-5/8	2429
H	8	203	8-3/4	222	9-1/2	241	12-5/8	321	16-3/8	416	19	483	22	559
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)	22	10	23	10	39	18	75	34	208	94	702	318	805	365
Net Wt. (w/ Butterfly Valves)	49	22	53	24	83	38	143	65	339	154	920	417	N/A	N/A
Net Wt. (w/ NRS Gate Valves)	76	35	94	43	137	62	258	117	525	239	1209	550	1665	757
Net Wt. (w/ OS&Y Gate Valves)	94	43	110	50	165	75	317	144	600	273	1324	602	1780	809

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 1/2" – 10" sizes.
3. Internal body connections are flanged on 12" size.
4. Strainer option only available for flanged-end shut-off options.

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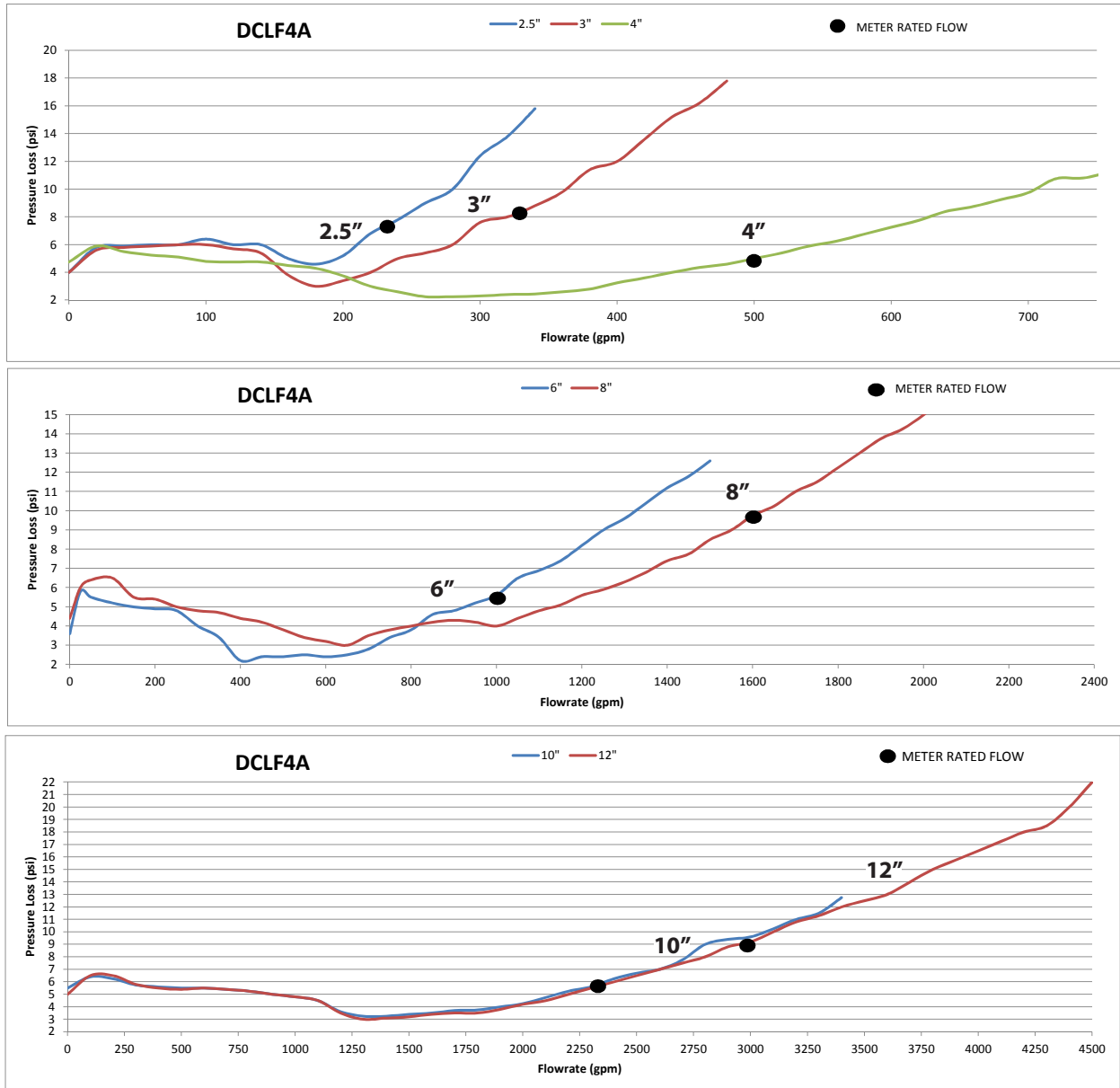
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STANDARD MATERIALS LIST

Part Name	Material
Body (2 1/2" – 8")	304 Stainless Steel
Body (10" & 12")	FDA Epoxy Coated Ductile Iron
Covers (2 1/2" – 6")	Glass-filled PPO/Stainless steel
Cover (8")	304 Stainless Steel
Covers (10" & 12")	FDA Epoxy Coated Ductile Iron
Check Valves (2 1/2" – 12")	Glass-filled PPO/Bronze (C89836 Lead Free*)/Stainless Steel
Springs	Stainless Steel
Seat Discs	Chloramine-resistant Silicone
Test Cocks	Bronze (C89836 Lead Free*) With Stainless Steel handles

FLOW CURVES

● Meter Rated Flow



Notes:

1. Flow curves directly reflect data collected by an independent laboratory.
2. Flow curves shown were recorded with gate shut-off valves. 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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