



DC-4An Series

n STYLE DOUBLE CHECK VALVE ASSEMBLY

The Apollo® MODEL DC-4An Double Check Valves are designed to prevent contamination of the potable water supply due to back-siphonage or backpressure from substances that are objectionable, but non-health hazards. The TriForce™ center stem guided check valves feature replaceable and reversible silicone seat discs. The normally vertical up/vertical down oriented body incorporates an internal swivel connection providing the ability to pivot the second check. The n style flow body is stainless steel from 2-1/2"-8" and FDA epoxy coated ductile iron in the 10" and 12". Available in a wide variety of shut-off valves.

OPERATION

During normal flow conditions, the two check valves are held off their seats, supplying water downstream. Each check valve is designed to maintain a minimum of 1 psi across the valve during normal operation. Should the downstream pressure increase to within 1 psi of supply pressure, both check valves will close to prevent a backflow condition.

FEATURES

- 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 ASSE or USC FCCC&HR backflow preventer approval agencies
- Center stem guided TriForce™ check valves
- 5 year, domestic warranty
- Lead-Free¹ option
- Small installation space required - small footprint
- Chloramine-resistant elastomers
- ASSE 1015 (other approvals pending)*
- UL, ULC Classified
- Maximum working pressure 175 psi
- Temperature range 33°F - 140°F, 180°F intermittent
- Optional valve setters eliminate need for thrust blocks
- US Patent Nos. 6,443,184; 7,025,085; 7,533,699
- Made in the USA

**Contact factory for approval details*



n Flow

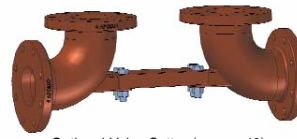
Sizes 2-1/2"-12"

MATERIALS

Body (2-1/2"-8")	304 Stainless Steel
Body (10 & 12")	FDA Epoxy Coated Ductile Iron
Covers (2-1/2"-6")	Glass Filled PPO/SS
Covers (8")	304 Stainless Steel
Covers(10 & 12")	FDA Epoxy Coated Ductile Iron
Relief Valve	Bronze
Check Valves	Bronze/Glass-filled PPO/SS
Springs	Stainless Steel
Seat Discs	Chloramine-resistant Silicone



TriForce™
Check



Optional Valve Setter (see pg 49)

ORDERING CODE - **4An [X] - 1 X X - 0X**

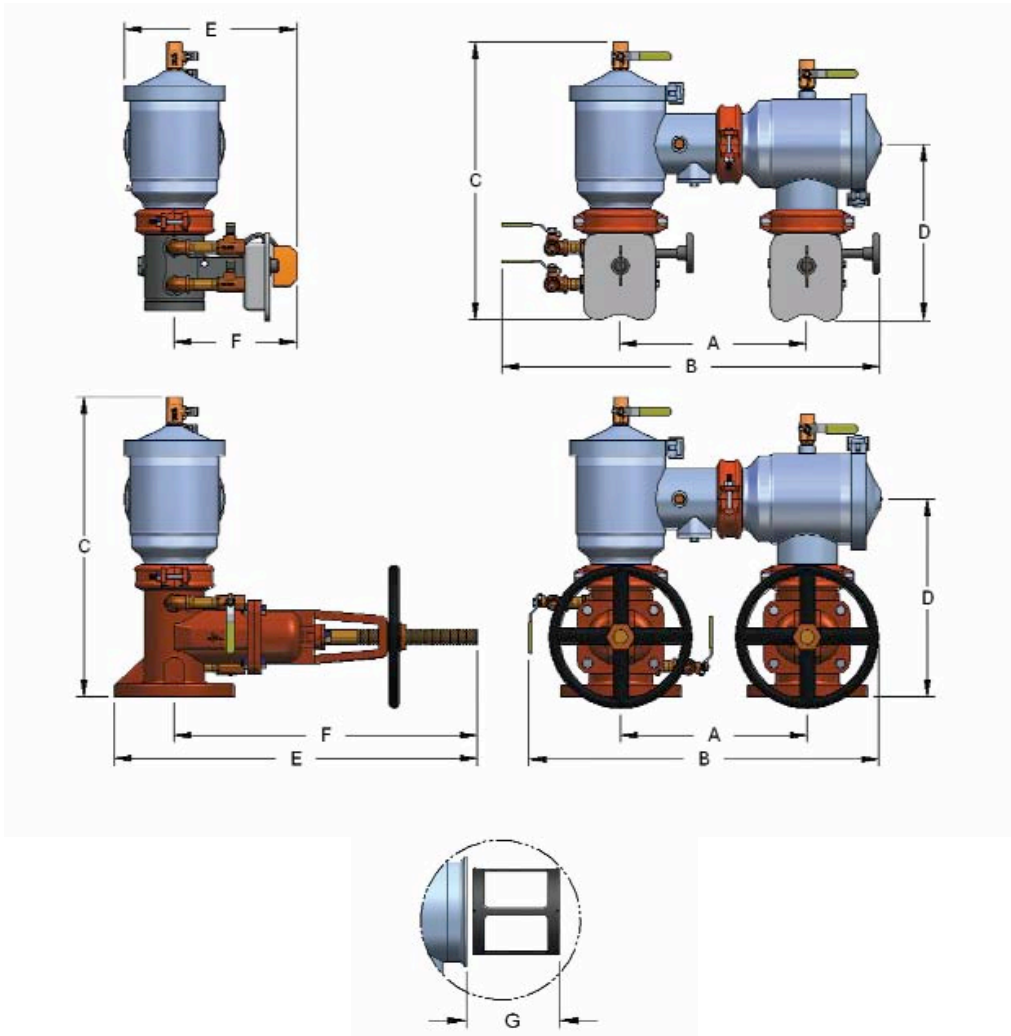
	Y-STRAINER	SIZE	SHUT-OFF VALVES
4An - Standard	0-Standard	9-2-1/2"	1-Less Shut-off Valves
4AnLF - Lead Free ¹	1-w/ Y-strainer (shipped loose)	0-3"	2-NRS Flg x NRS Flg
		A-4"	3-OS&Y Flg x OS&Y Flg
		C-6"	4-OS&Y Flg x Monitored Butterfly Vlv Grv
		E-8"	6-OS&Y Flg x Post indicator Flg**
		G-10"	7-OS&Y Flg x OS&Y Grv
		H-12"	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**
			11-NRS Grv x NRS Grv
			12-NRS Flg x NRS Grv

Example: 4AN-10A-03 = 4" size with OS&Y flanged x flanged shut-off valves (shown above)

** Post indicator with plate & nut option not available in 2-1/2" size.



Double Check Valve Backflow Preventers



Dimensions - in.(mm) – Weights - lbs.(kg)

	2-1/2"	3"	4" (100)	6" (150)	8" (200)	10"	12"
A (Centerline to Centerline)	12-1/2 (318)	12-1/2 (318)	14 (356)	16 (406)	18-1/2 (470)	PENDING	PENDING
B Lay Length Space (Gate Valves)	26 (660)	26 (660)	26-1/4 (667)	32-1/4 (819)	37-7/8 (962)		
B Lay Length Space (Butterfly Valves)	24-1/2 (622)	24-1/2 (622)	28-3/8 (721)	35 (889)	37-3/8 (949)		
C Height (Gate Valves)	19-5/8 (498)	20 (608)	22-1/2 (572)	28-1/4 (718)	32-7/8 (835)		
C Height (Butterfly Valves)	18-1/4 (464)	18-1/2 (470)	20-7/8 (530)	25-5/8 (651)	29-3/8 (746)		
D (Gate Valves)	13 (330)	13-1/2 (343)	14-7/8 (378)	18 (457)	21-3/8 (543)		
D (Butterfly Valves)	11-1/2 (292)	11-3/4 (298)	13-1/4 (337)	15-3/8 (391)	17-7/8 (453)		
E (OS&Y Open)	19-7/8 (505)	22-1/4 (565)	27-1/4 (692)	35-5/8 (905)	44-1/2 (1130)		
E (Butterfly Valves)	11-1/2 (292)	12-1/8 (308)	12-7/8 (327)	15-7/8 (403)	22-1/4 (565)		
E (NRS/PI)	14-7/8 (378)	16-1/8 (410)	19-1/4 (489)	24-1/2 (622)	29-1/4 (743)		
F (OS&Y Open)	16-3/8 (416)	18-7/8 (480)	22-3/4 (578)	30-1/8 (765)	37-3/4 (959)		
F (Butterfly Valves)	8 (703)	8-3/8 (213)	9 (229)	10-7/8 (276)	12-7/8 (327)		
F (NRS/PI)	11-3/8 (289)	12-3/8 (314)	14-3/4 (375)	19 (483)	22-1/2 (572)		
G (Clearance needed for check removal)	6 (152)	6 (152)	6 (152)	8 (203)	8-1/2 (216)		
Test Cocks (NPT)	1/2 (15)	1/2 (15)	1/2 (15)	3/4 (20)	3/4 (20)		
Net Wt. (Less valves)	30 (13.6)	30 (13.6)	39 (17.7)	74 (33.6)	305 (138.3)		
Net Wt. (w/butterfly valves)	57 (25.9)	60 (27.2)	84 (38.1)	142 (64.4)	436 (197.8)		
Net Wt. (w/NRS gate valves)	116 (57.6)	141 (64.0)	188 (85.3)	313 (142.0)	768 (348.4)		
Net Wt. (w/OS&Y gate valves)	126 (57.2)	151 (68.5)	194 (88.0)	323 (146.5)	782 (354.7)		

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

SEE PAGE 55 FOR FLOW CURVES