



DC-4A Series



Sizes 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"

MATERIALS

Body	Bronze
Caps	Cast Bronze C84400
Check Valves	Glass-Filled PPO
Springs	300 Series Stainless Steel
Seat Discs	Chloramine-resistant Silicone
O-rings	Chloramine-resistant EPDM
Ball Valve Handles	Stainless Steel

TOP ENTRY DOUBLE CHECK VALVE ASSEMBLY

The Apollo MODEL DC4A 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 modular check valve captured spring cartridges have replaceable seats and reversible silicone seat discs. Apollo ball valve shut-offs with stainless steel handles and nuts are standard.

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

- Low pressure loss
- Captured spring cartridge check valves
- Compact yet easy to maintain
- Apollo ball valves w/ SS handles & nuts standard
- Top access for fast testing and maintenance
- Corrosion resistant
- No special tools required
- 5 year, domestic warranty
- Lead-Free¹ option
- UL - Pending
- ASSE 1015 (other approvals pending*)
- CSA
- Chloramine-resistant elastomers
- Patent pending
- Horizontal and vertical up approvals*
- Maximum working pressure 175 psi
- Temperature range 33°F - 180°F
- Designed, manufactured, assembled and tested in South Carolina, USA



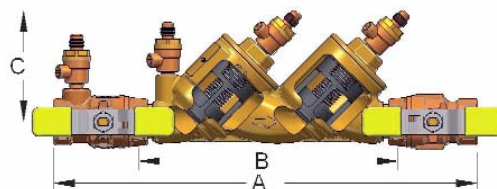
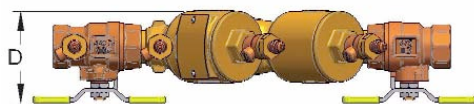
*Contact factory for approval details

ORDERING CODE - 4A [X] - 1 X X - TXX

4A		Y-STRAINER	SIZE	SHUT-OFF VALVES	OPTIONS (CAN BE COMBINED)
4A - Standard	0-Standard	0-Standard	3-1/2"	1-less ball valves	F-SAE threaded test cocks (standard 1/2" 3/4", 1")
4ALF - Lead Free ¹	1-w/ Y-strainer (shipped loose)	1-w/ Y-strainer (shipped loose)	4-3/4"	2-w/ball valves (Standard)	LL-locking lever handles (1-1/4", 1-1/2", 2")*
			5-1"	3-w/OS&Y gate valves [#]	LR -Locking round handles (1/2", 3/4", 1")*
			6-1-1/4"	4-w/union ball valves	
			7-1-1/2"		
			8-2"		

Example: 4A-104-T4LR = 3/4" double check valve assembly with union ball valves with round locking lever handles

* Locking handles not available on T3 option
1" to 2" only



Dimensions (in) (mm)								Net
Ordering No.	Model No.	Size	A	B	C	D		Wt. lbs. (kg.)
4A-103-T2	DC4A12	1/2" (15)	11 (279)	7-3/8 (187)	3-1/4 (83)	2-1/2 (64)		4.4 (2.0)
4A-104-T2	DC4A34	3/4" (20)	12-3/4 (324)	8-1/2 (215)	3-1/2 (89)	3 (76)		6.0 (2.7)
4A-105-T2	DC4A1	1" (25)	14-5/8 (341)	9-1/2 (241)	4 (100)	3-1/4 (83)		10 (4.5)
4A-106-T2	DC4A114	1-1/4" (32)	18-5/8 (473)	11-3/4 (298)	4-1/2 (114)	4-3/4 (121)		14 (6.4)
4A-107-T2	DC4A112	1-1/2" (40)	18-3/4 (476)	11-5/8 (295)	4-1/2 (114)	4-3/4 (121)		17 (7.7)
4A-108-T2	DC4A2	2" (50)	21-1/8 (537)	12-3/4 (324)	5 (127)	5-3/8 (136)		25.4 (11.5)

SEE PAGE 53 FOR FLOW CURVES

DC-40 Series



Sizes 3/4", 1", 1-1/4", 1-1/2", 2"

MATERIALS

Body and covers	Bronze
Springs	Stainless Steel
Poppets	Glass-Filled Celcon
Seat discs	Silicone Rubber
Replaceable seats	Glass-Filled PPO
Fasteners	Stainless Steel
Ball valve handles	Stainless Steel

TOP ENTRY DOUBLE CHECK VALVE ASSEMBLY

The Apollo DC-40 Series Top Entry Double Check Valve Assembly is designed to protect against backflow from a cross-connection of non-health hazard pollutant. Within the assembly are two mechanically independent, spring-loaded poppet type check valves set in an integral cast bronze body. Both check valves are designed at an inclined angle upward from horizontal centerline of the assembly, and all test cocks are mounted at the top to assure easy access during repair and maintenance when unit is installed in a pit or tight places.

OPERATION

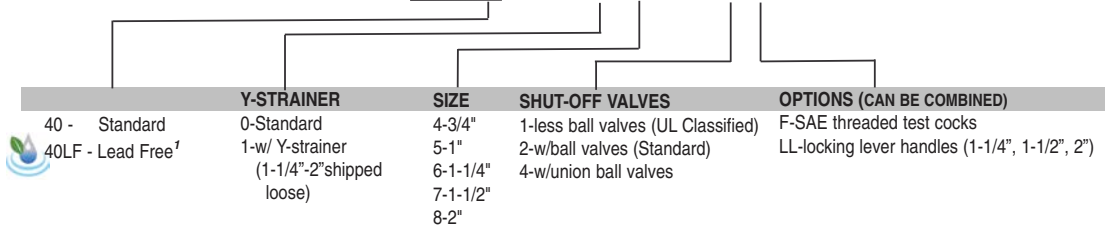
During normal flow conditions, the two poppet check valves are held off their seats, supplying water downstream. Each check valve is designed to maintain a minimum of 1 psi across the valve during normal operation. Should the downstream pressure increase to within 1 psi of supply pressure, both check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

FEATURES

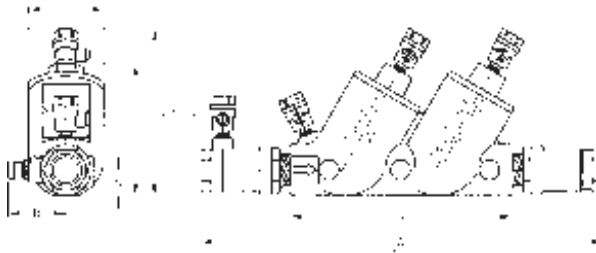
- Top access for fast testing, and maintenance
- Corrosion resistant
- Low head loss
- Interchangeable poppets and springs
- Replaceable seats & Reversible Seat Discs
- Approved for horizontal installations
- 5 year, domestic warranty
- Lead-Free¹ option
- CSA
- USC FCCCHR
- AWWA C-510
- ASSE 1015
- Comes standard with Apollo® full port ball valves with stainless steel handles
- Maximum working pressure 175 psig
- Temperature range 33°F-180°F
- Designed, manufactured, assembled and tested in South Carolina, USA



ORDERING CODE - 40 [X] - 1 X X - TXX



Example: 40-104-T4LL = 3/4" double check valve assembly with union ball valves with locking lever handles



Dimensions - in(mm) - Weights - lbs.(kg)					
Model No.	DC4034	DC401	DC40114	DC40112	DC402
Ordering No.	40-104-T	40-105-T	40-106-T	40-107-T	40-108-T
Body Size	3/4" (20)	1" (25)	1-1/4" (32)	1-1/2" (40)	2" (50)
A	13 (330)	14-3/4 (375)	20-3/4 (525)	21-3/8 (545)	23-1/8 (590)
B	7-1/4 (185)	7-1/4 (185)	12-3/8 (315)	12-3/8 (315)	12-3/8 (315)
C	4-5/16 (110)	4-5/16 (110)	6-1/8 (155)	6-1/8 (155)	6-1/8 (155)
D	1-5/8 (41)	1-7/8 (48)	2-3/16 (56)	2-5/8 (67)	3 (75)
E	2-7/16 (62)	2-7/16 (62)	3-13/16 (97)	3-13/16 (97)	3-13/16 (97)
F	5-7/16 (138)	5-7/16 (138)	6-3/8 (162)	6-3/8 (162)	6-3/8 (162)
G	13/16 (20)	13/16 (20)	1-3/8 (35)	1-3/8 (35)	1-3/8 (35)
Test Cocks	1/8 x 1/4 NPT	1/8 x 1/4 NPT	1/4 x 1/4 NPT	1/4 x 1/4 NPT	1/4 x 1/4 NPT
Net Weight	8.8 (4.0)	9.5 (4.3)	23.2 (10.5)	25.7 (11.7)	31.5 (14.3)
Shipping Weight	10.1 (4.6)	10.8 (4.9)	25.9 (12.0)	28.8 (13.1)	35.5 (16.1)

SEE PAGE 53 FOR FLOW CURVES

Double Check Valve Backflow Preventers



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

DC-4A Series

DOUBLE CHECK VALVE ASSEMBLY

The Apollo® MODEL DC-4A 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 body is stainless steel from 2-1/2"-8" and FDA epoxy coated ductile iron in the 10" and 12". Available with a wide variety of shutoff valve options.

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
- Lead-Free¹ option
- Approved for horizontal and vertical up flow*
- 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
- US Patent Nos. 6,443,184; 7,025,085; 7,533,699
- Made in the USA
- 5 year, domestic warranty

*Contact factory for approval details

ORDERING CODE - 4A [X] - 1 X X - 0X

	Y-STRAINER	SIZE	SHUT-OFF VALVES
4A - Standard	0-Standard	9-2-1/2"	1-Less Shut-off Valves
4ALF - 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: 4A-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.