

BACKFLOW PREVENTERS

Selection Guide

TYPE OF DEVICE	SERIES	**Apollo Recommended		APPLICATION		
		BACK SIPHONAGE	BACK PRESSURE	CONTINUOUS PRESSURE	AESTHETIC HAZARD	HEALTH HAZARD
DOUBLE CHECK VALVE	DCLF 4A DCLF 4An DC 45G	✓	✓	✓	✓	
DOUBLE CHECK DETECTOR ASSEMBLY	DCDALF 4A DCDALF 4An DCDA 45G	✓	✓	✓	✓	
REDUCED PRESSURE PRINCIPLE	RPLF 4A	✓	✓	✓	✓	✓
REDUCED PRESSURE PRINCIPLE (n & V Flow)	RPLF 4An	✓	✓	✓	✓	✓
REDUCED PRESSURE PRINCIPLE (Stainless Steel)	RP 40-S	✓	✓	✓	✓	✓
REDUCED PRESSURE DETECTOR ASSEMBLY	RPDALF 4A RPDALF 4An	✓	✓	✓	✓	✓
ATMOSPHERIC VACUUM BREAKER	AVB1, AVB1LF AVB2	✓			✓	✓
PRESSURE VACUUM BREAKER	PVB 4A, PVBLF 4A	✓		✓	✓	✓
SPILL RESISTANT PRESSURE VACUUM BREAKER	SVB 4W, SVBLF 4W	✓		✓	✓	✓
DUAL CHECK	DUC 4N, DUCLF 4N DUC 4FP DUC40, DUCLF40	✓	✓	✓	✓	
DUAL CHECK W/ ATMOS. PORT	DCAP, DCAPLF	✓	✓	✓	✓	
CARBONATED BEVERAGE BACKFLOW PREVENTER	CBBP	✓	✓	✓	✓	
HOSE CONNECTION VACUUM BREAKER	HBV2, HBV2LF	✓	✓*		✓	✓
ANTI FREEZE HOSE CONN. VACUUM BREAKER	HBVAF2, HBVAF2LF	✓	✓*		✓	✓
HOSE CONNECTION BACKFLOW PREVENTER	HBDUC, HBDUCLF	✓	✓*		✓	✓
LAB FAUCET VACUUM BREAKER	LFDUCLF	✓	✓		✓	

* Limited back pressure to 10' head

** Check with local authorities having jurisdiction

Double Check Valve Backflow Preventers

DC-4A SERIES



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

TOP ENTRY 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 modular check valve captured spring cartridges have replaceable seats and reversible silicone seat discs. Ball valve shut-offs with stainless steel handles and nuts are standard.

FEATURES

- Low pressure loss
- Captured spring cartridge check valves
- Compact yet easy to maintain
- Shut-off ball valves w/ SS handles & nuts standard
- Top access for fast testing and maintenance
- Threaded testcock protectors
- Corrosion resistant
- No special tools required
- 5 year, domestic warranty
- **Lead-Free** option (DCLF 4A)
- Available with factory installed APOLLOXPRESS press connections
- UL, ULC Classified
- ASSE 1015
- IAPMO
- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California
- 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



See Backflow Prevention Catalog (BFCA9000) for more detailed information about the products in this section.

Customer Service (704) 841-6000

COMMERCIAL PRODUCTS CATALOG

Double Check Valve Assemblies

DCLF 4A AND DCLF 4An SERIES



DCLF 4A Series
Sizes 2-1/2"-12"

DCLF 4An Series
Sizes 2-1/2"-12"



Optional Valve Setter



TriForce™ Check

DOUBLE CHECK VALVE ASSEMBLIES

The Apollo® DCLF 4A and DCLF 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 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. The DCLF 4An normally vertical up/vertical down oriented body incorporates an internal swivel connection providing the ability to pivot the second check.

FEATURES

- Stainless steel body: 2-1/2"-8"
- FDA epoxy coated ductile iron body: 10" & 12"
- Easy maintenance - no special tools required
- Low pressure loss as documented by an independent laboratory
- **Lead-Free**
- Chloramine-resistant elastomers
- ASSE 1015
- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California (DCLF 4A: 2-1/2" - 8") (DCLF 4AN: 2-1/2" - 8")
- UL, ULC Classified
- FM approved
- 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
- 4A- Approved for horizontal and vertical up flow*
- 4An - Small installation space required - small footprint

* Contact factory for approval details

DC 4SG SERIES



DC 4SG Series
Sizes 2-1/2", 3", 4", 6"

DOUBLE CHECK VALVE ASSEMBLY

The Apollo® DC 4SG Series Double Check Valve is designed to prevent contamination of the potable water supply due to back-siphonage or backpressure from substances that are non-health hazards. The modular check valves have replaceable seats and reversible EPDM seat discs. Grooved connections on an epoxy-coated ductile iron body allow for easy connection to butterfly valves or gate valves.

FEATURES

- Short lay length
- Low pressure loss
- Modular check valves
- Reversible/replaceable seat discs
- Approved for vertical (up) and horizontal installations
- Gate valves epoxy coated (FDA)
- Corrosion resistant epoxy-coated ductile iron body
- ASSE 1015
- CSA
- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California
- AWWA C-510
- UL Classified
- FM approved
- US Patents #5,711,341 and #6,343,618

BACKFLOW PREVENTERS

Double Check Detector Assemblies

DCDALF 4A AND DCDALF 4An SERIES



DCDALF 4A Series
Sizes 2-1/2"-12"



DCDALF 4An Series
Sizes 2-1/2"-12"



Optional Valve Setter



TriForce™ Check

DOUBLE CHECK DETECTOR ASSEMBLY

The Apollo® DCDALF 4A and DCDALF 4An Double Check Detector Assemblies 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 by-pass assembly serves to accurately measure water use of up to 2 GPM. Available in a wide variety of shut-off options. The DCDALF 4An normally vertical up/vertical down oriented body incorporates an internal swivel connection providing the ability to pivot the second check. The grooved connections on the bodies from 2-1/2" to 10" allow for easy connection to butterfly or gate shut-off valves. The 12" DCDALF 4An has flanged connections for gate shut-off valves.

FEATURES

- Stainless steel body: 2-1/2"-8"
- FDA epoxy coated ductile iron body: 10" & 12"
- Easy maintenance - no special tools required
- Low pressure loss as documented by an independent laboratory
- **Lead-Free**
- Chloramine-resistant elastomers
- ASSE 1048
- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California (DCDALF 4A: 2-1/2" - 8") (DCDALF 4AN: 2-1/2" - 8")
- UL, ULC Classified
- FM approved
- DCDA 4A - CSA 864.5 (6" Type 1)
- 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
- Optional mounting of bypass on either side for ease of installation
- DCDALF 4An - Small installation space required - small footprint
- DCDALF 4An - Optional valve setters eliminate need for thrust blocks below grade

DCDA 4SG SERIES



DCDA 4SG Series
Sizes 2-1/2", 3", 4", 6", 8", 10"

DCDA 4SG SERIES DOUBLE CHECK DETECTOR ASSEMBLY

The Apollo® DCDA 4SG Series Double Check Detector Assembly is designed to prevent contamination of the potable water supply due to back-siphonage or backpressure from substances that are non-health hazards. The device consists of a mainline double check valve with resilient seated shut-off valves. The by-pass serves to accurately measure water use of up to 3 gpm. Grooved connections on an epoxy-coated ductile iron body allow for easy connection to butterfly valves or gate valves.

FEATURES

- Short lay length
- Low pressure loss
- Reversible/replaceable seat discs
- Approved for vertical and horizontal installations
- **Lead-Free** (2-1/2" - 6" only)
- Gate valves epoxy coated (FDA)
- Corrosion resistant FDA epoxy-coated ductile iron body
- UL Classified
- FM approved
- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California (Non-Lead Free)
- ASSE 1048
- CSA
- US Patents #5,711,341 and #6,343,618

COMMERCIAL PRODUCTS CATALOG

Reduced Pressure Backflow Preventers

RP 4A SERIES



RPLF 4A Series (shown)
Sizes 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"

REDUCED PRESSURE PRINCIPLE

The Apollo Series RP 4A Reduced Pressure Principle Backflow Preventer is designed to give maximum protection against backflow caused by either back-pressure or back-siphonage from substances that are hazardous. The durable but economical device is easily maintained in the line with modular check cartridge assemblies that require no special tools. It consists of two independently acting spring-loaded check valves with an automatic differential relief valve located between the check valves. All testcocks are mounted at the top of the unit to assure easy access during repair and maintenance when unit is installed in tight places.

FEATURES

- Maximum protection against back-pressure/back-siphonage
- Modular check valve cartridges w/easily replaced parts
- Reversible/removable chloramine-resistant silicone seat discs
- Low head pressure loss
- Top mounted test cocks
- Threaded testcock protectors
- Internal sensing passage
- ASSE 1013
- CSA B64.4
- **Lead-Free** option (RPLF 4A)
- Available with factory installed APOLLOPRESS press connections
- UL Classified (less shut-offs)
- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California
- Standard with full port ball valves with stainless steel handles
- Corrosion resistant
- Maximum working pressure 175 psig
- Operating temperature range 33°F-180°F
- Horizontal installation approvals on 1/2" through 2"
- Designed, manufactured, assembled and tested in South Carolina, USA
- 5 year, domestic warranty

RP 40S SERIES



RP 40S Series
Sizes 1/4", 3/8", 1/2", 3/4", 1"

STAINLESS STEEL REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER

The Apollo Series RP 40S Stainless Steel Reduced Pressure Principle Backflow Preventer is designed to give maximum protection against backflow caused by either backpressure or back-siphonage from a cross-connection wherein a contaminant hazard exists (i.e. a health hazard), or a pollutant hazard exists (i.e. a non-hazard). The assembly is composed of two spring-loaded poppet type check valves and a mechanically independent, hydraulically dependent pressure differential relief valve set in an integral stainless steel body. Three of the testcocks are mounted at the top to assure easy access during repair and maintenance when unit is installed in tight places.

FEATURES

- Stainless steel body and covers
- Easy to install and repair
- Internal sensing passage
- Low head loss
- Reversible/Removable seat discs
- Replaceable seats
- Comes standard with Apollo® stainless steel full port ball valves with stainless steel handles
- **Lead-Free** (Standard)
- Maximum working pressure 175 psig
- Temperature range 33°F-180°F
- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California
- ASSE 1013
- CSA
- Designed, manufactured, assembled and tested in South Carolina, USA
- 5 year, domestic warranty

BACKFLOW PREVENTERS

Reduced Pressure Backflow Preventers

RPLF 4A AND RPLF 4An SERIES



RPLF 4A Series
Sizes 2-1/2" - 12"

RPLF 4An Series
n Flow



RPLF 4An Series
Vertical Up Flow



Optional Valve Setter



TriForce™ Check

REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTERS

The Apollo® RPLF 4A and RPLF 4An Reduced Pressure Principle Backflow Preventers consist of two independently acting, TriForce™ center stem guided check valves with a differential pressure relief valve located between the check valves. These units are designed to give maximum protection against backflow of health or non-health hazard fluids by either back-pressure or back-siphonage. The durable stainless steel units (2-1/2"-8") and the FDA epoxy coated ductile iron units (10" and 12") are easily maintained in the line without any special tools. The TriForce™ check valves operate with a spring assist in the flowing condition to provide excellent flow rates which are documented by an independent laboratory. The RPLF 4An normally vertical up/vertical down oriented body incorporates an internal swivel connection providing the ability to pivot the second check 180° to a vertical up/vertical up flow.

FEATURES

- Stainless steel body: 2-1/2"-8"
- FDA epoxy coated ductile iron body: 10" & 12"
- Easy maintenance - no special tools required
- Low pressure loss as documented by an independent laboratory
- RPLF 4A - Approved for horizontal flow
- RPLF 4An - Small installation space required - small footprint
- Chloramine-resistant elastomers
- **Lead-Free** (RPLF 4A, RPLF 4AN)
- ASSE 1013
- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California (RPLF 4A 2-1/2" - 6", RPLF 4AN 4" - 6")
- UL, ULC Classified
- FM approved
- 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
- Optional Air Gap Drains
- Optional valve setters eliminate need for thrust blocks between elbows
- 5 year, domestic warranty

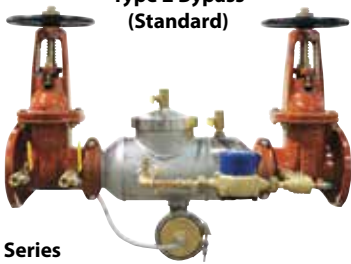
COMMERCIAL PRODUCTS CATALOG

Reduced Pressure Detector Assemblies

RPDALF 4A AND RPDALF 4An SERIES



RPDALF 4A Series
Type 2 Bypass
(Standard)



RPDALF 4An Series



RPDALF 4An Series
Sizes 2-1/2"-12"



Optional Valve Setter



TriForce™ Check

REDUCED PRESSURE DETECTOR ASSEMBLIES

The Apollo® RPDALF 4A and RPDALF 4An Reduced Pressure Detector Assemblies consists of two independently acting, TriForce™ center stem guided check valves with a differential pressure relief valve located between the check valves. These units are designed to give maximum protection against backflow of health or non-health hazard fluids by either back-pressure or back-siphonage and at the same time detect leakage or unauthorized use of water from fire or automatic sprinkler systems. The durable stainless steel units (2-1/2" to 8") and the FDA epoxy coated ductile iron units (10" and 12") are easily maintained in line without any special tools. The TriForce™ check valves operate with a spring assist in the flowing condition to provide low flow rates which are documented by an independent laboratory. The RPDALF 4An normally vertical up/vertical down oriented body incorporates an internal swivel connection providing the ability to pivot the second check 180° to a vertical up/vertical up flow.

FEATURES

- Stainless steel body: 2-1/2"-8"
- FDA epoxy coated ductile iron body: 10" & 12"
- Easy maintenance - no special tools required
- Low pressure loss as documented by an independent laboratory
- ASSE 1047
- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California (RPDALF 4A 2-1/2" - 6", RPDALF 4AN 4")
- RPDALF 4An - Small installation space required - small footprint
- **Lead-Free** (RPDALF 4A)
- UL, ULC Classified
- FM approved
- Maximum working pressure 175 psi
- Temperature range 33°F - 140°F, 180°F intermittent
- Optional air gap drains
- US Patent Nos. 6,443,184; 7,025,085; 7,533,699
- Made in the USA
- 5 year, domestic warranty
- Optional mounting of bypass on either side for ease of installation