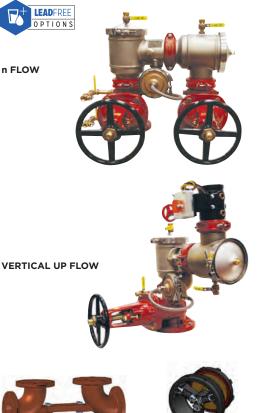
BACKFLOW PREVENTION

RPLF 4An SERIES

"Apollo" COMMERCIAL

n STYLE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER ASSEMBLY



OPTIONAL VALVE SETTER



The Apollo® RPLF 4An Reduced Pressure Principle Backflow Preventer consists of two independently acting, TriForce™ center stem guided check valves with a differential pressure relief valve located between the check valves. The unit is designed to give maximum protection against backflow of health or nonhealth hazard fluids by either back-pressure or back-siphonage. The 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. The durable domestic stainless steel units (2-1/2° to 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.

OPERATION

During normal flow conditions, the two check valves are held off their seats, supplying water downstream. The relief valve is held shut by supply pressure acting through the sensing tube on the relief valve diaphragm. In the area between the check valves, called the zone, the pressure is maintained approximately 7 psi lower than supply pressure. Should a back-pressure or back-siphonage condition occur, the second check valve will seal, prohibiting the backflow of water. Should the second check become fouled, the pressure in the zone will increase causing the differential relief valve to open to atmosphere. This will maintain the pressure in the zone at least 2 psi lower than supply pressure.

PERFORMANCE RATING

Maximum Working Pressure; 175 psi

Approved by the Foundation for Cross-

Connection Control and Hydraulic Research at the

University of Southern California (2-1/2" - 8")

Temperature Range; 33° to 140°F,

180°F Intermittent

APPROVALS

ASSE 1013

CSA B64.4

AWWA C-511

FM Approved

UL, ULC Classified

• NSF/ANSI 372 Lead Free

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 Approval Laboratory
 - Center Stem Guided TriForce™ Check Valves Modular Captured Spring Relief Valve
- **Optional Air Gap Drains**
- Small Installation Space Required/Footprint Approved for n-Flow and Vertical Up Flow
- **Chloramine-Resistant Elastomers**
- Lead Free Standard
- **Optional Valve Setters**
- US Patent Nos.: 6,443,184; 7,025,085; 7,533,699
- Designed, Fabricated, Assembled and Tested in
- the USA
- 5 Year Warranty

STANDARD MATERIALS LIST

Bronze (C84400/LF C89836) 304 Stainless Steel BODY (2-1/2" - 8") RELIEF VALVE CHECK VALVES BODY (10" & 12") FDA Epoxy Coated Ductile Iron Bronze/Glass-Filled PPO/SS Glass Filled PPO/SS SPRINGS COVERS (2-1/2" - 6") Stainless Steel Chloramine-Resistant Silicone COVERS (8") 304 Stainless Steel SEAT DISCS COVERS (10" & 12") FDA Epoxy Coated Ductile Iron

PART NUMBER MATRIX

4ANLF	2 X	Х	XX	X
	Y-STRAINER	SIZE	SHUT-OFF VALVES	OPTIONS
4ANLF - LEAD FREE	0 - STANDARD	9 - 2-1/2"	01 - LESS SHUT-OFF VALVES	D - DOMESTIC ASSEMBLY
	1 - W/ Y-STRAINER (SHIPPED LOOSE)	0 - 3"	02 - NRS FLANGE X NRS FLANGE	
		A - 4"	03 - OS&Y FLANGE X OS&Y FLANGE	
		C - 6"	04 - OS&Y FLANGE X MONITORED (MON.) BUTTERFLY VALVE GROOVE†	
		E - 8"	06 - OS&Y FLANGE X POST INDICATOR FLANGE	
		G - 10"	07 - OS&Y FLANGE X OS&Y GROOVE	
		H - 12"	08 - OS&Y GROOVE X OS&Y GROOVE	
			09 - MON. BUTTERFLY VALVE GROOVE X MON. BUTTERFLY VALVE GROOVE†	
			10 - OS&Y FLANGE X POST INDICATOR GROOVE	
			11 - NRS GROOVE X NRS GROOVE	
			12 - NRS FLANGE X NRS GROOVE	
			13 - POST INDICATOR FLANGE X MON. BUTTERFLY VALVE GROOVE [†]	
			14 - POST INDICATOR FLANGE X POST INDICATOR FLANGE	
			16 - MON BUTTERFLY VALVE GROOVE X POST INDICATOR FLANGE*	
			17 - POST INDICATOR FLANGE X OS&Y GROOVE	
EXAMPLE: 4A 215 A4LL = 4" size Reduced Pressure		18 - OS&Y GROOVE X POST INDICATOR GROOVE		
Assembly with OS&Y flanged inlet x OS&Y grooved		19 - MON. BUTTERFLY VALVE GROOVE X POST INDICATOR GROOVE		
outlet shut-off valves		20 - POST INDICATOR FLANGE X OS&Y FLANGE		
EXAMPLE: 4AN 20A 03 = 4" size reduced pressure assembly with			21 - POST INDICATOR GROOVE X OS&Y GROOVE	
OS&Y flanged inlet x OS&Y flanged outlet shut-off valves			22 - POST INDICATOR GROOVE X MON. BUTTERFLY VALVE GROOVE*	
		aives	23 - MON. BUTTERFLY VALVE GROOVE X OS&Y FLANGE	

