

# BACKFLOW PREVENTERS RP-40S SERIES

## Reduced Pressure Backflow Preventers RP-40S Series

### 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 back-pressure 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.

#### 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 internal sensing passage, on the relief valve diaphragm. In the area between the check valves, called the zone, the pressure is maintained at 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 valve 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.



Sizes 1/4", 3/8", 1/2", 3/4", 1"

MATERIALS	
Body and Cover	Stainless Steel
Springs	Stainless Steel
Fasteners	Stainless Steel
Poppets	Glass-Filled Celcon®
Seat Discs	Silicone Rubber
Diaphragm and O-Rings	FDA Fluorocarbon
Replaceable Seats	Glass-Filled PPO
Test Cocks & Handles	Stainless Steel

Contact local water authorities for installation/service requirements.

See Backflow Catalog for dimensions and flow curves

#### FEATURES

- Stainless steel body and covers
- Easy to install, repair and maintain
- 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
- Maximum working pressure 175 psig
- Temperature range 33°F-180°F
- USC FCCCHR
- ASSE 1013
- CSA
- Designed, manufactured, assembled and tested in South Carolina, USA
- 5 year, domestic warranty

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Y-Strainer	Size	Shut-Off Valves	Options (can be combined)
0- Standard	1-1/4"	1- less ball valves (UL Classified- 3/4", 1") 2- w/SS ball valves (Standard)	LL-locking lever handles LR-locking round handles
1- w/ SS Y-strainer (shipped loose)	2-3/8"		
	3-1/2"		
	4-3/4"		
	5-1"		