

Model 825YA Angle Pattern Reduced Pressure Assembly (3/4"-2")

FEATURES

- Installation versatility simplifies new and retrofit installations.
- Eliminates pipe elbows, nipples and unions from the installation.
- Reduces installation time, labor costs and materials.
- Compact design simplifies retrofit.
- Integral flanged union connections allow assembly to be removed from the line for freeze protection or maintenance without the danger of spool substitution.
- Modular relief valve and check valve internal components for ease of maintenance. Smaller, less costly protective enclosures can be used to provide freeze protection and vandalism protection due to compact size of valve.
- Field tested design for reliability and performance.
- Replaceable relief valve seat ring for longer valve life.
- Low head loss for optimum performance.

SPECIFICATION

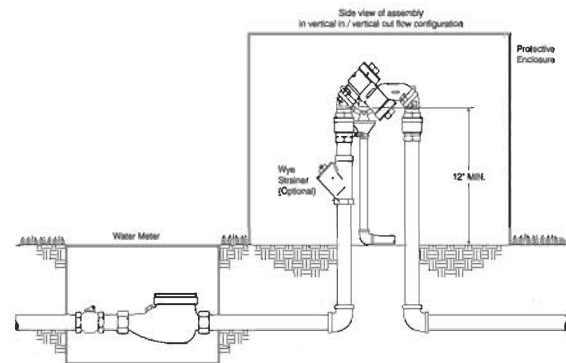
The reduced pressure backflow preventer shall consist of two independently operating, spring loaded, "Y" pattern check valves and one hydraulically dependent differential relief valve. Should the differential between the upstream and the zone of the unit drop to 2 PSI, the differential relief valve shall open and maintain the proper differential.

Mainline valve body and caps including relief valve body and cover shall be bronze. Check valve moving members shall be center stem guided. Relief valve shall have a removable seat ring. Check valve and relief valve components shall be constructed so they may be serviced without removing the valve body from the line. All seat discs shall be reversible.

The assembly shall include flanged unions located between the mainline valve body and the ball valve shut-offs to allow for field removal for freeze protection or maintenance without danger of spool replacement.

APPLICATIONS

Reduced Pressure assemblies are used to protect against toxic fluids in water services to industrial plants, hospitals, morgues, mortuaries, and chemical plants. They are also used in irrigation systems, boiler feed, water lines and other installations requiring the highest level of mechanical protection.



INSTALLATION

Model 825YA can be installed in any of four configurations. Below shows the most typical installation. With the integral flanged union connections the assembly can be removed from the line without a spool substitution. However, the flanged union connection mounted at 45 degrees provides assurance that a spool cross connection can be substituted.

Model 825YA is a compact, integral assembly in which labor and material savings may be achieved. All internal components are interchangeable with Febco Model 825Y.

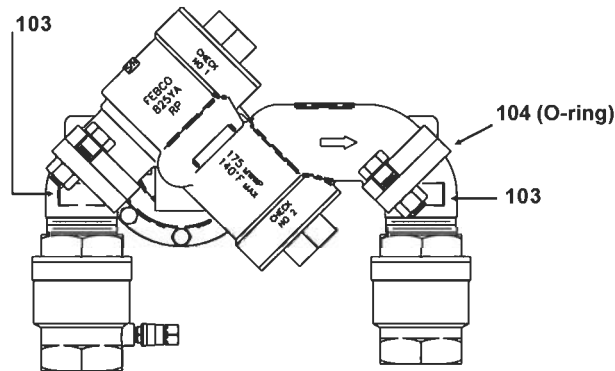
The RP should be installed with a minimum clearance of 12" between port and floor grade. Installation must be where discharge will not be objectionable and can be positively drained away. Installation should also provide for easy testing and maintenance. Thermal water expansion and/or water hammer situations should be eliminated to avoid possible damage to the system and device.

COMPLIANCE

- FCCC & HR
- ANSI/AWWA C511-89 Conformance
- ASSE Listed (Std 1013)
- CAN/CSA B64.4 Certified

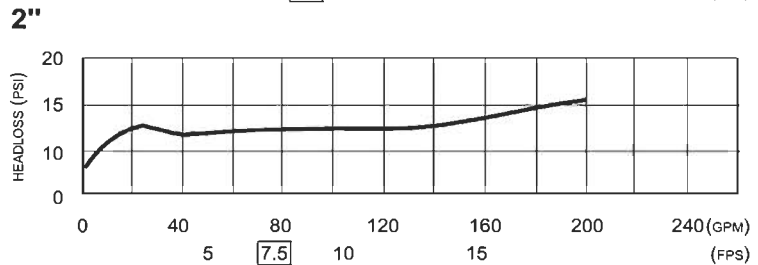
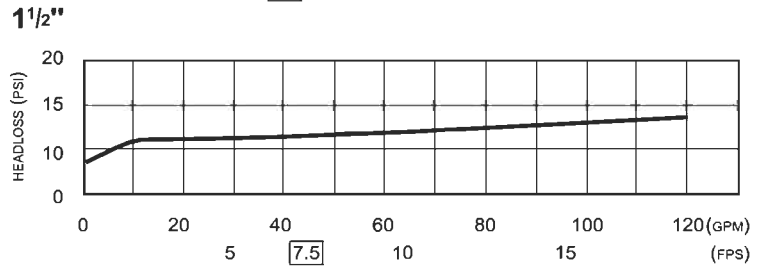
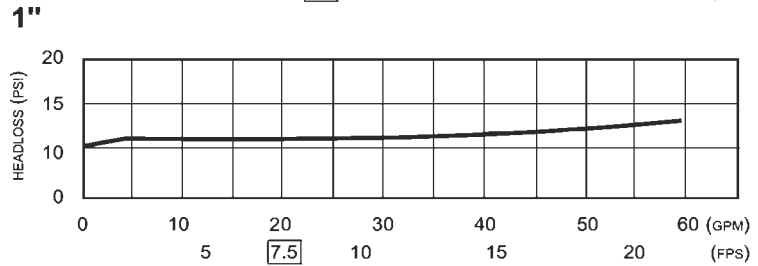
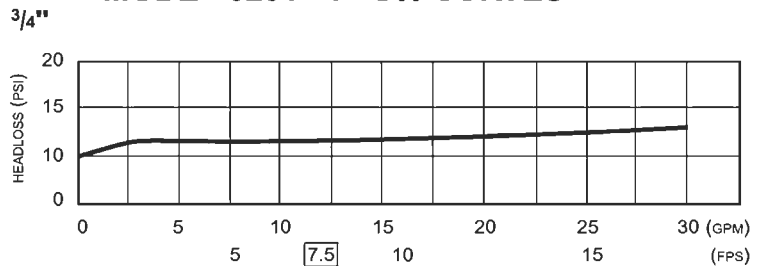
CHARACTERISTICS

Maximum working pressure	175 PSI (1200 KPa)
Hydrostatic test pressure	350 PSI (2400 KPa)
Temperature range	32°F to 140°F (0° to 60°)
Fluid	Water
End Detail	Threaded ANSI/ASME B1.20.1
Main valve body	Bronze
Relief valve body	Bronze
Elastomers	Seat Disc: Nitrile Diaphragms: Nitrile, fabric reinforced.
Springs	Stainless Steel

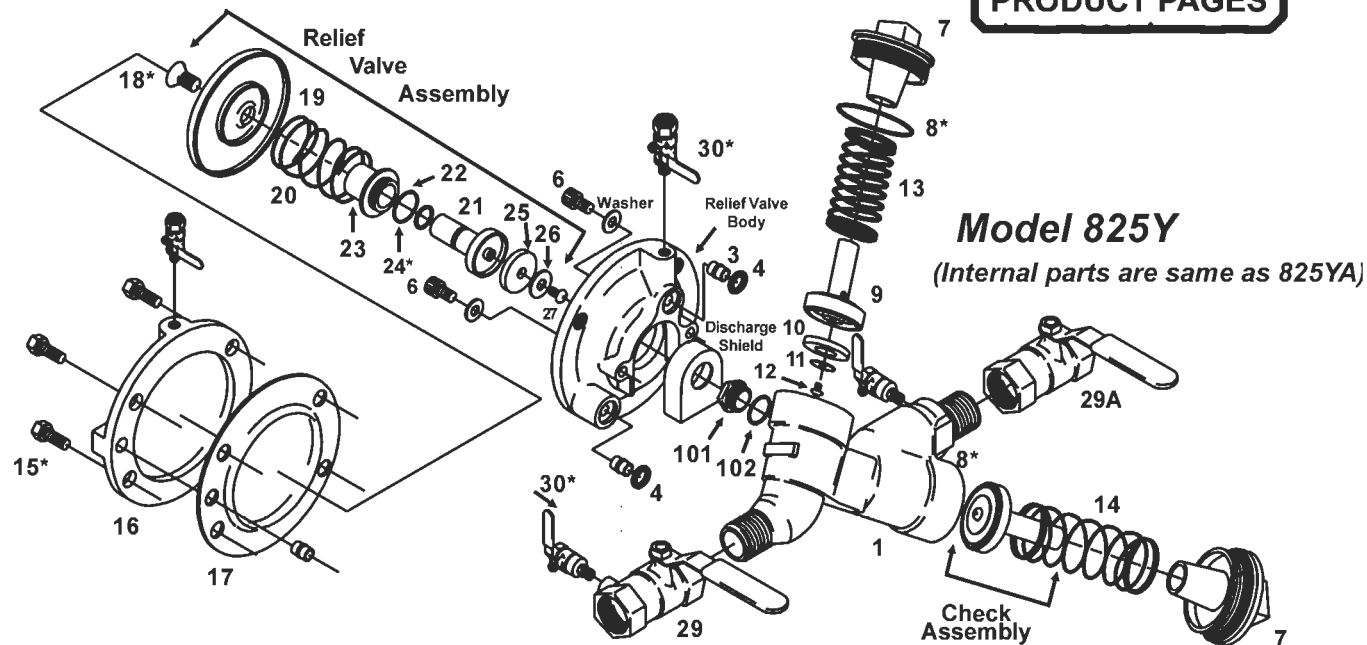


Model 825YA (3/4" -2")

VERTICAL FLOW IN/VERTICAL FLOW OUT MODEL 825YA FLOW CURVES



REPAIR KITS & PARTS FOR THIS MODEL CAN BE FOUND ON 825Y PRODUCT PAGES



Model 825Y

(Internal parts are same as 825YA)

American Backflow Specialties

www.americanbackflow.com

(800) 66-BKFLO

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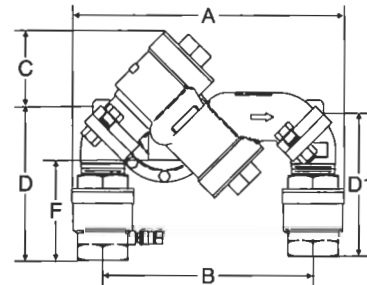
MODEL 825YA

DIMENSIONS & WEIGHTS

VERTICAL FLOW IN / VERTICAL FLOW OUT

(U.S. - Inches)

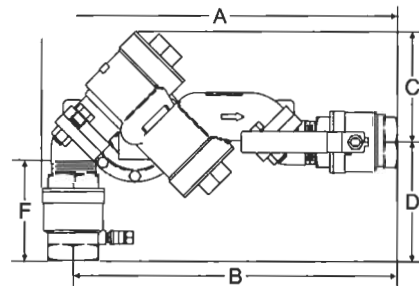
Size	A	B	C	D	D1	E	F	G**	(Lbs.)
3/4"	10	8 1/2	3 1/4	4 7/8	4 5/8	4 1/8	3 1/2	1 5/8	15.0
1"	10 1/4	8 1/2	3 1/4	5 1/4	5	4 1/8	3 7/8	1 5/8	16.5
1 1/2"	14 1/4	11 1/2	4 1/2	6 7/8	6 1/2	5	4 5/8	2 5/8	38.0
2"	14 7/8	11 1/2	4 1/2	7 1/2	7 1/8	5	5 1/4	2 5/8	41.0



VERTICAL FLOW IN / HORIZONTAL FLOW OUT

(U.S. - Inches)

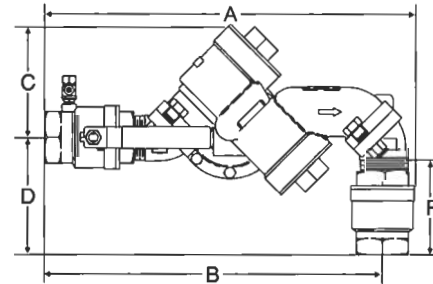
Size	A	B	C	D	D1	E	F	G**	(Lbs.)
3/4"	12 5/8	11 7/8	4 1/2	3 5/8	N/A	4 1/8	3 1/2	1 5/8	15.0
1"	13 1/3	12 1/4	4 1/2	4	N/A	4 1/8	3 7/8	1 5/8	16.5
1 1/2"	18	16 5/8	6	5 1/4	N/A	5	4 5/8	2 5/8	38.0
2"	19	17 1/4	6	5 7/8	N/A	5	5 1/4	2 5/8	41.0



HORIZONTAL FLOW IN / VERTICAL FLOW OUT

(U.S. - Inches)

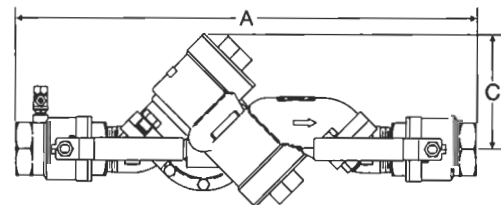
Size	A	B	C	D	D1	E	F	G**	(Lbs.)
3/4"	12 7/8	12 1/8	4 1/2	3 5/8	N/A	4 1/8	3 1/4	1 5/8	15.0
1"	13 3/8	12 1/2	4 1/2	3 3/4	N/A	4 1/8	3 1/2	1 5/8	16.5
1 1/2"	18 3/8	17	6	4 7/8	N/A	5	4 1/4	2 5/8	38.0
2"	19 3/8	17 5/8	6	5 1/2	N/A	5	4 7/8	2 5/8	41.0



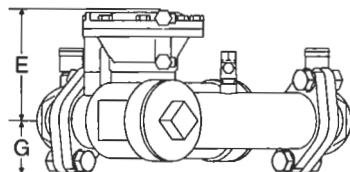
HORIZONTAL FLOW IN / HORIZONTAL FLOW OUT

(U.S. - Inches)

Size	A	B	C	D	D1	E	F	G**	(Lbs.)
3/4"	15 1/2	N/A	4 1/2	N/A	N/A	4 1/8	N/A	1 5/8	15.0
1"	16 1/4	N/A	4 1/2	N/A	N/A	4 1/8	N/A	1 5/8	16.5
1 1/2"	22	N/A	6	N/A	N/A	5	N/A	2 5/8	38.0
2"	23 3/8	N/A	6	N/A	N/A	5	N/A	2 5/8	41.0



TOP VIEW



* All dimensions are approximate. Allowances must be made for normal manufacturing tolerances.

** Dimensions are based on standard vertical flow in / vertical flow out configuration