

Job Name:	Contractor:
Job Location:	P.O. Number:
Engineer:	Representative:
Tag:	Wholesale Distributor:

SPECIFICATIONS

The 2 1/2" – 12" Reduced Pressure Principle Backflow Preventer shall be an Apollo® Model RP4AN. The assembly shall be manufactured in America and carry a **5-year** Apollo® factory warranty. The normally vertical up / vertical down (n-shape) oriented body shall incorporate an internal swivel connection providing the ability to pivot the second check 180°, producing a vertical up RP assembly. The TriForce™ center-stem guided check valves shall feature reversible silicone rubber seat discs. The check valves shall be held in place by drop-in retainers (2 1/2" – 6") or SS studs & nuts (8" – 12"). Access to the check valves and relief valve internals shall be by an Apollo quick-connect SS coupling (2 1/2" – 6") or grooved couplings (covers) and SS bolts (relief valves) (8" – 12"). The bodies shall be SS in 2 1/2" – 8" sizes and FDA epoxy coated ductile iron in 10" & 12" sizes. The Apollo® domestic ball valve test cocks shall have SS handles. The assembly shall prevent contamination of the potable water supply due to back-siphonage or backpressure from substances that are health or non-health hazards. The pressure drop across the assembly shall be documented by ASSE or USC FCCC&HR Approval curves.

FEATURES

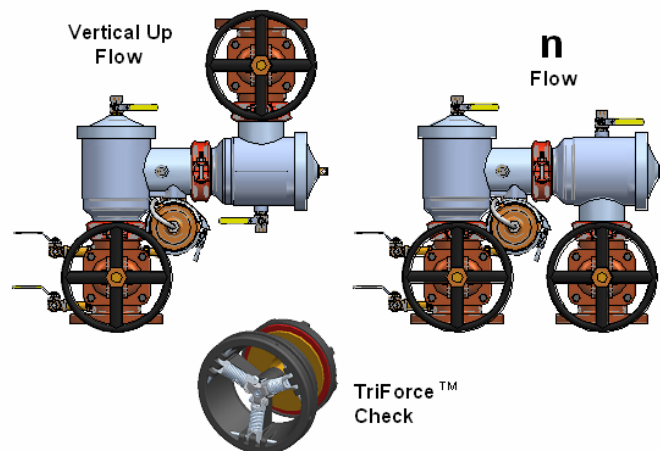
- Stainless steel body: 2 1/2" – 8"
- FDA epoxy coated ductile iron body: 10" & 12"
- Easy maintenance – no special tools required
 - Drop-in check retainers: 2 1/2" – 6"
 - Bolted-in checks: 8" – 12"
- Low pressure loss as documented by ASSE or USC FCCC&HR Backflow Preventer approval agencies
- Center-stem guided TriForce™ check valves
- Small installation space required – small footprint
- Approved for n-flow and vertical flow up
- US Patent Nos. 6,443,184; 7,025,085; 7,533,699
- MADE IN THE USA

PERFORMANCE RATING

Maximum Working Pressure 175 psi
Temperature Range 33 ° F – 140 ° F
Hydrostatic Test Pressure 350 psi

APPROVALS

Sizes 2 1/2" – 8": ASSE 1013, CSA B64.4, IAPMO, UL, cUL, and FM



ORDERING INFORMATION

4AN – 2 X X – 0 X

Y-STRAINER SIZE SHUT-OFF VALVES

Y-STRAINER

- ☐ 0 – None (Standard)
☐ 1 – With Y-Strainer (Flanged only, shipped loose)

SIZE

- ☐ 9 – 2 1/2" ☐ A – 4" ☐ E – 8" ☐ H – 12"
☐ 0 – 3" ☐ C – 6" ☐ G – 10"

SHUT-OFF VALVES (Inlet x Outlet)

- ☐ 1 – Less Shut-off Valves (see notes)
☐ 2 – NRS Flg x NRS Flg
☐ 3 – OS&Y Flg x OS&Y Flg
☐ 4 – OS&Y Flg x Monitored (Mon.) Butterfly Vlv Grv
☐ 6 – OS&Y Flg x Post Indicator Flg (Not in 2 1/2" size)
☐ 7 – OS&Y Flg x OS&Y Grv
☐ 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 (Not in 2 1/2" size)
☐ 11 – NRS Grv x NRS Grv
☐ 12 – NRS Flg x NRS Grv

VALVE SETTER (Optional - See SS1174 for details)

- ☐ FS – Flange x Flange Setter
☐ MJFS – Mech. Joint x Flange Setter
☐ MJS – Mech. Joint x Mech. Joint Setter

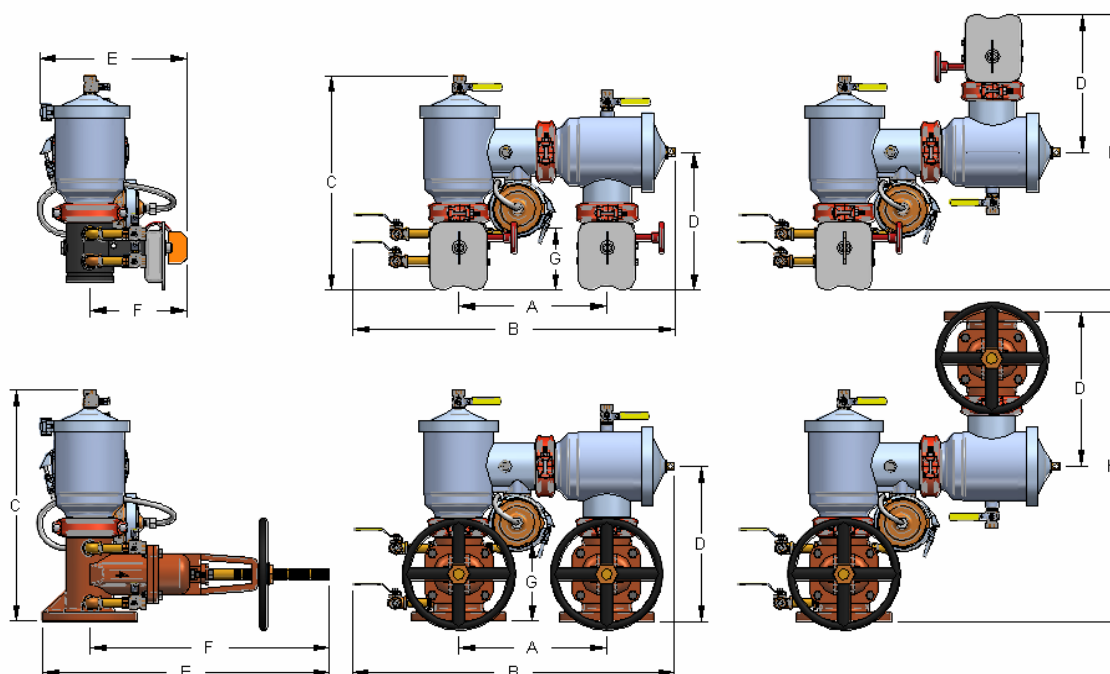
AIR GAP DRAIN (Optional - See SS1176 for details)

- ☐ AGD4A6 (Fits 2 1/2" – 6")
☐ AGD4A8 (Fits 8")
☐ AGD4A12IN (Fits 10" & 12")

Model RP4AN

DIMENSIONS (in.) – WEIGHTS (lbs.)

Size	2 1/2"	3"	4"	6"	8"	10"	12"
A (Centerline to Centerline)	12 1/2	12 1/2	14	16	18 1/2	P E N D I N G	P E N D I N G
B (Gate Valves)	24 1/2	24 1/2	27	32	36 1/2		
B (Butterfly Valves)	27 1/2	27 1/2	30 3/4	36	37 3/8		
C (Gate Valves)	19 5/8	20	22 1/2	27 3/4	32 1/8		
C (Butterfly Valves)	18 1/4	18 1/2	20	24 3/4	28 1/2		
D (Gate Valves)	13	13 1/2	14 7/8	18	21 3/8		
D (Butterfly Valves)	11 1/2	11 3/4	12 1/2	14 1/2	17 7/8		
E (OS&Y Open)	24 1/8	26 5/8	27 1/4	35 5/8	44 1/2		
E (Butterfly Valves)	15 3/4	16 1/8	12 7/8	15 7/8	22 1/4		
E (NRS/PI)	19 1/8	20 1/8	19 1/4	24 1/2	29 1/4		
F (OS&Y Open)	16 3/8	18 7/8	22 3/4	30 1/8	37 3/4		
F (Butterfly Valves)	8	8 3/8	9	10 7/8	12 7/8		
F (NRS/PI)	11 3/8	12 3/8	14 3/4	19	22 1/2		
G (Gate Valves)	5 1/2	6	6	9	9		
G (Butterfly Valves)	4 1/8	4 1/2	4 3/8	6 1/2	5 1/4		
H (Gate Valves)	26	27	29 3/4	36	42 3/4		
H (Butterfly Valves)	23	23 1/2	25	29	35 3/4		
I (Clearance needed for check removal)	6	6	6	8	8 1/2		
Test Cocks (NPT)	1/2"	1/2"	1/2"	3/4"	3/4"		
Net Wt. (Less Valves)	39	39	48	83	325		
Net Wt. (w/ Butterfly Valves)	66	69	92	151	456		
Net Wt. (w/ NRS Gate Valves)	125	150	197	322	788		
Net Wt. (w/ OS&Y Gate Valves)	135	160	203	332	802		

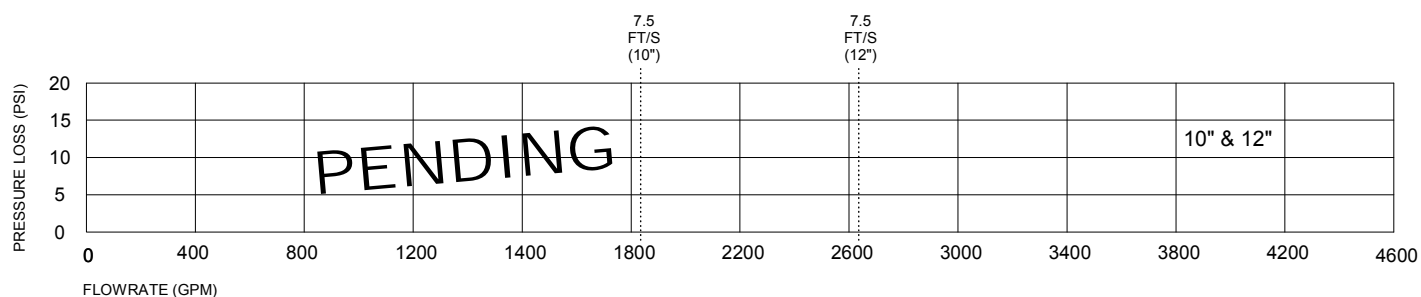
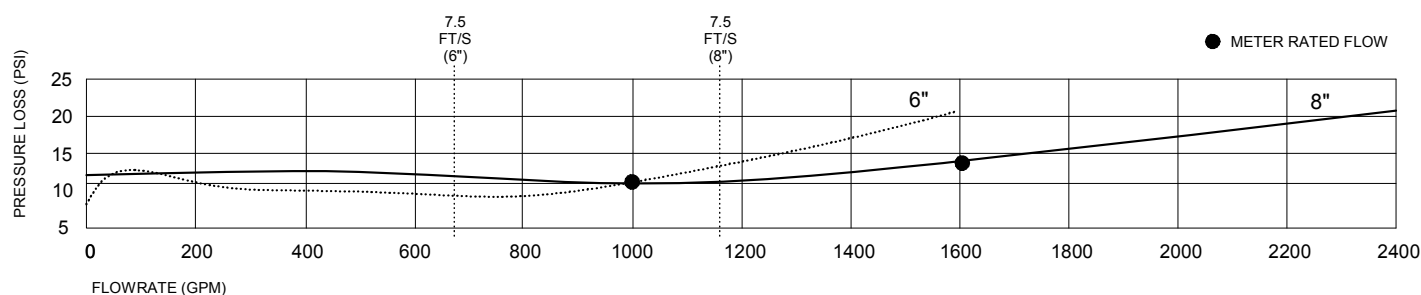
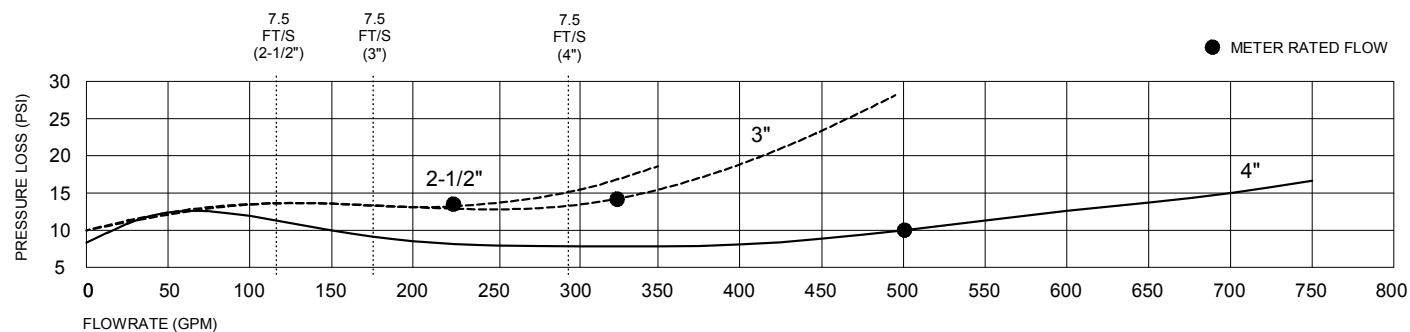


Notes:

1. Nominal dimensions are shown. Allowances must be made for manufacturers' tolerances.
2. Internal body connections are grooved on 2 1/2" – 10" sizes.
3. Internal body connections are flanged on 12" size.

Model RP4AN

FLOW CURVES



Notes:

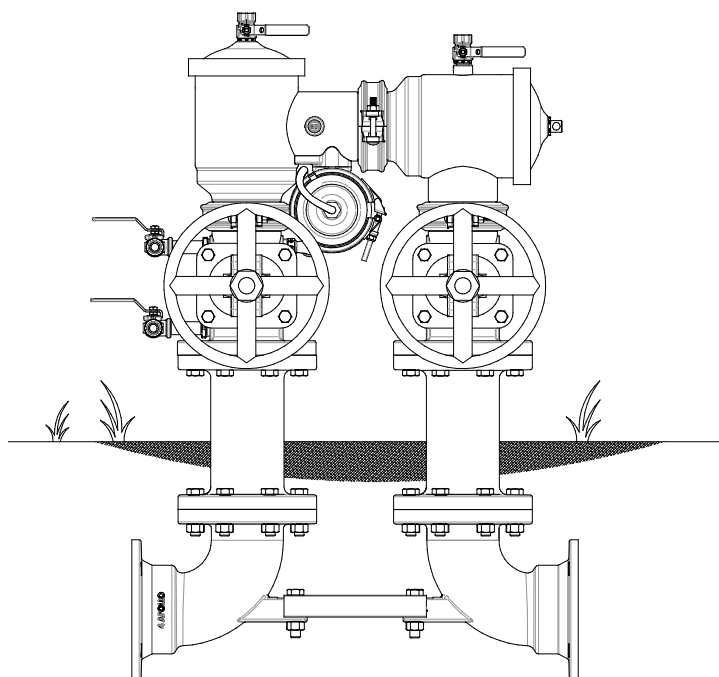
1. Flow curves directly reflect data collected by an ASSE approved laboratory.
2. Flow curves shown were recorded with butterfly shut-off valves. Flow curves with gate valves are slightly lower. Contact factory for more information.
3. All data points are based on ASSE increasing flow data, from zero GPM to rated flow (opening curve).
4. For high flow rates/pressure loss information – contact factory.

RP4AN MATERIAL SPECIFICATIONS

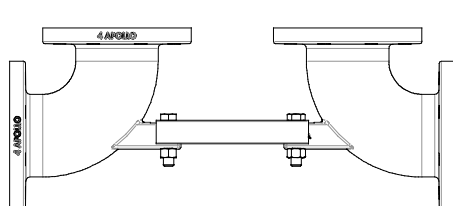
Part Name	Material
Body (2 1/2" – 8")	Stainless Steel
Body (10" & 12")	FDA Epoxy Coated Ductile Iron
Relief Valve (2 1/2" – 12")	Bronze
Covers (2 1/2" – 6")	Glass-filled PPO/Stainless steel
Cover (8")	Stainless Steel
Covers (10" & 12")	FDA Epoxy Coated Ductile Iron
Check Valves (2 1/2" – 12")	Glass-filled PPO/Bronze/SS
Springs	Stainless Steel
Seat Discs	Chloramine-resistant Silicone

OPTIONAL VALVE SETTERS

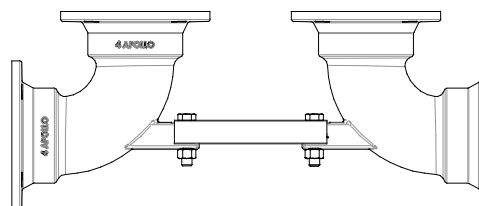
See SS1174 Submittal Sheet for details



Mechanical Joint X Flange Setter (MJFS)



Flange X Flange Setter (FS)



Mechanical Joint X Mechanical Joint Setter (MJS)



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