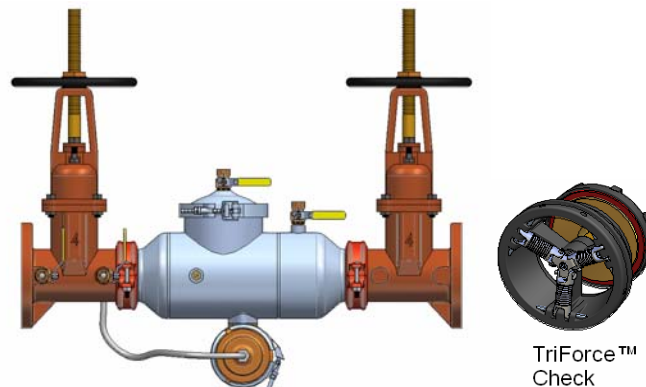


Job Name:	Contractor:
Job Location:	P.O. Number:
Engineer:	Representative:
Tag:	Wholesale Distributor:

### **SPECIFICATIONS**

The 2 1/2" – 12" Reduced Pressure Principle Backflow Preventer shall be an Apollo® Model RP4A. The assembly shall be manufactured in America and carry a **5-year** Apollo® factory warranty. The TriForce™ center-stem guided check valves shall feature reversible silicone rubber seat discs. The check valves shall be held in place by SS snap-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.



### **ORDERING INFORMATION**

**4 A – 2 X X – 0 X**

Y-STRAINER      SIZE      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
  - Snap-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
- Approved for horizontal flow
- 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

### **Y-STRAINER**

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

### **SIZE**

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

### **AIR GAP DRAIN (Optional – See SS1176 for details)**

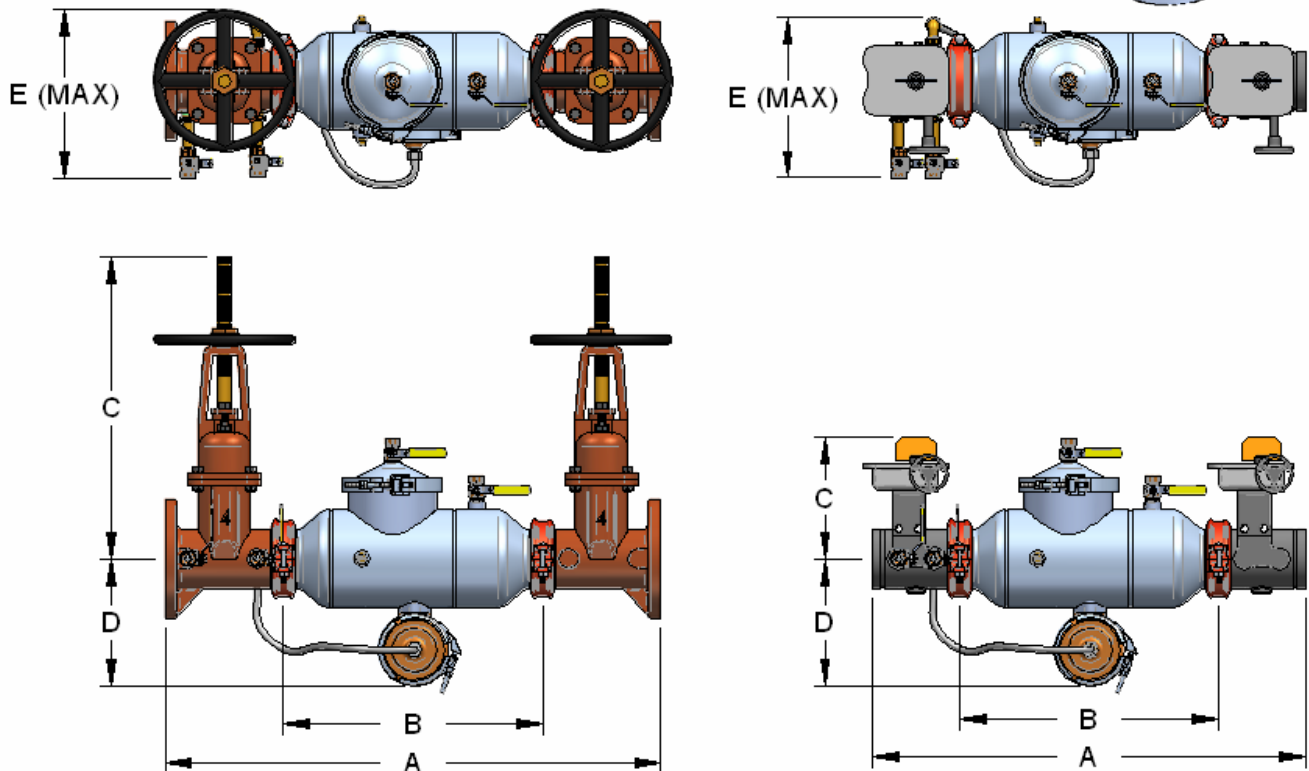
- ☐ AGD4A6 (Fits 2 1/2" – 6")
- ☐ AGD4A8 (Fits 8")
- ☐ AGD4A12IN (Fits 10" & 12")

**DIMENSIONS (in.) – WEIGHTS (lbs.)**

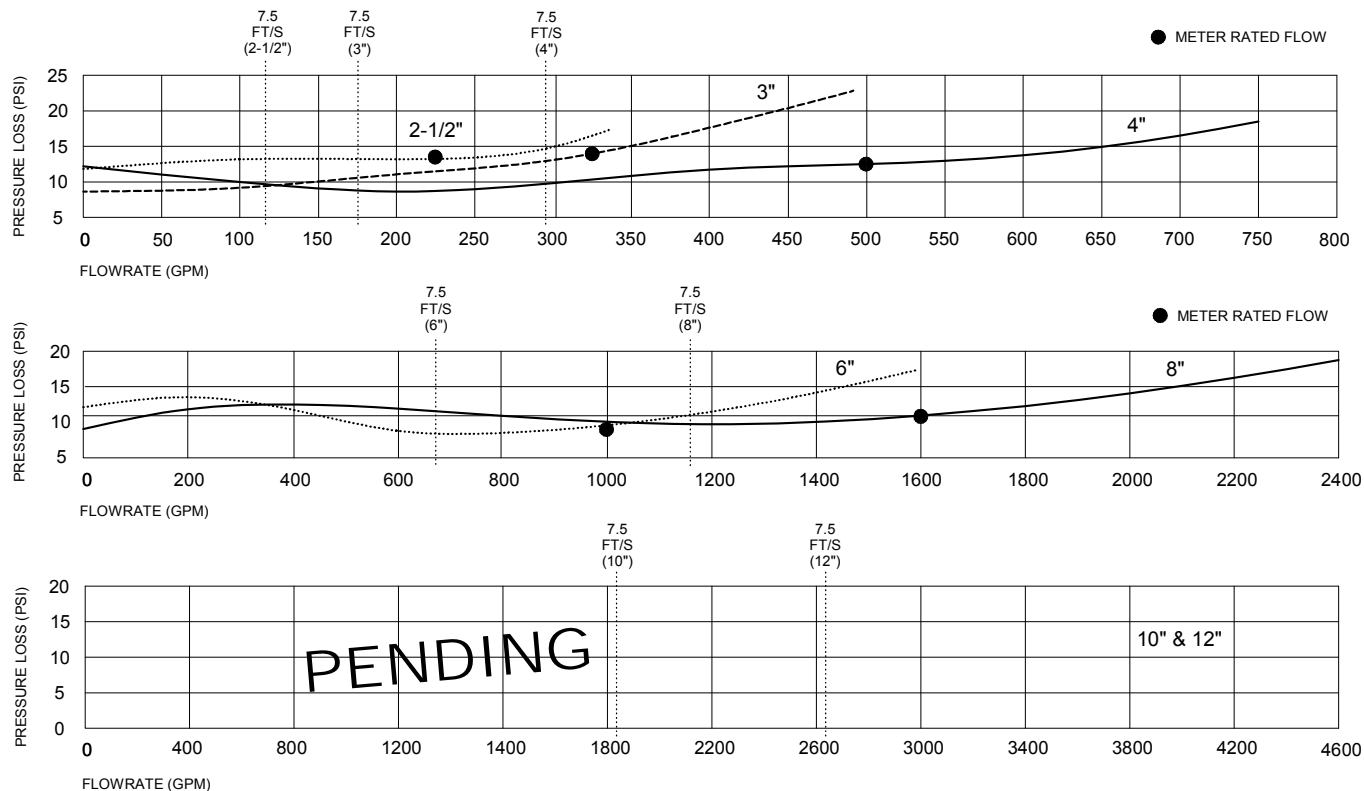
Size	2 ½"	3"	4"	6"	8"	10"	12"
A (Butterfly Valves)	27 ½	28 ½	33 ½	39	47	PENDING	PENDING
A (Gate Valves)	31 ¼	32 ¼	38 ⅞	45 ⅞	53 ½		
B (Less Shut-off Valves)	15 ⅞	15 ⅞	19 ⅝	24 ½	30		
C (Butterfly Valves)	8	8 ⅜	9 ⅞	10 ⅞	12		
C (NRS/PI Gate Valves)	11 ⅜	12 ⅜	14 ¾	19	22 ½		
C (OS&Y Open)	16 ⅜	18 ⅞	22 ¾	30 ⅞	37 ¾		
D	9 ⅝	9 ⅝	10 ⅜	11 ⅝	15 ⅝		
E (MAX)	11 ½	12	12 ½	14 ⅜	17 ⅝		
F (Check Removal Clearance)	4 ¾	4 ¾	6 ½	7 ½	7 ½		
Test Cocks (NPT)	½"	½"	½"	¾"	¾"		
Net Wt. (Less Valves)	31	32	48	84	228		
Net Wt. (w/ Butterfly Valves)	58	62	92	152	359		
Net Wt. (w/ NRS Gate Valves)	117	143	197	323	691		
Net Wt. (w/ OS&Y Gate Valves)	127	153	203	333	705		

**Notes:**

1. Nominal dimensions are shown. Allowances must be made for manufacturers' tolerances (⅛" per joint).
2. Internal body connections are grooved on 2 ½" – 10" sizes.
3. Internal body connections are flanged on 12" size.



### FLOW CURVES



### Notes:

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

### RP4A MATERIAL SPECIFICATIONS

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

