

# 'Apollo' Valves

## SUBMITTAL SHEET

### LEAD FREE

## Model RPDALF 4A

## Model RPDA2LF 4A

### Reduced Pressure Detector Assembly



### SPECIFICATIONS

The 2 1/2" – 12" Reduced Pressure Detector Assembly shall be an Apollo® Model RPDALF4A or RPDA2LF4A. 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 assembly is a mainline RP with a Type 2 bypass consisting of a lead free\* single check valve (SCV) and meter bypassing the mainline second check to prevent backflow while accurately measuring all flows up to 2 gpm with the mainline 2nd check remaining closed. Assemblies with the optional Type 1 bypass consist of a lead free\* RP and meter which bypasses both mainline checks and accurately meters all flows up to 2 gpm with both mainline checks closed. The Apollo® domestic ball valve test cocks shall have SS handles. Both RP relief valves shall be positioned at the bottom of their respective assemblies with separate center-access covers. The pressure drop across the assembly shall be documented by an independent laboratory. The assembly shall prevent contamination of the potable water supply due to back-siphonage or back pressure from substances that are health or non-health hazards.



### FEATURES

- Domestic 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 an independent laboratory
- Center-stem guided TriForce™ check valves
- Approved for horizontal flow

- US Patents: 6,443,184; 7,025,085; 7,533,699; 8,240,333
- **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" – 12":
- ASSE 1047\*, CSA B64.4, FM, UL\*, cUL\*
- \*ASSE, UL, and cUL installations must include indicating-type shut-off valves
- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California (Model RPDALF 4A, 2-1/2" - 6")

### FACTORY CODE

4ALF	7 X	X	X	[X]
	BY-PASS SUB-ASSEMBLY OPTIONS	SIZE	METER OPTION	SHUT-OFF VALVES (Inlet x Outlet)
4ALF = Lead Free Standard	<input type="checkbox"/> 0 = Type 1 w/ 1/2" Reduced Pressure <input type="checkbox"/> 2 = Type 2 w/1/2" Single Check (Standard) <input type="checkbox"/> 3 = Type 1 w/ bypass on left* <input type="checkbox"/> 4 = Type 2 w/ bypass on left*	<input type="checkbox"/> 9 = 2-1/2" <input type="checkbox"/> 0 = 3" <input type="checkbox"/> A = 4" <input type="checkbox"/> C = 6" <input type="checkbox"/> E = 8" <input type="checkbox"/> G = 10" <input type="checkbox"/> H = 12"	<input type="checkbox"/> C = Cubic feet/min <input type="checkbox"/> E = Gallons/min <input type="checkbox"/> G = Less meter	<input type="checkbox"/> 1 = Less Shut-off Valves <input type="checkbox"/> 3 = OS&Y Flg x OS&Y Flg <input type="checkbox"/> 4 = OS&Y Flg x Monitored (Mon.) Butterfly Vlv Grv† <input type="checkbox"/> 6 = OS&Y Flg x Post indicator Flg** <input type="checkbox"/> 7 = OS&Y Flg x OS&Y Grv <input type="checkbox"/> 8 = OS&Y Grv x OS&Y Grv <input type="checkbox"/> 9 = Mon. Butterfly Vlv Grv x Mon. Butterfly Vlv Grv† <input type="checkbox"/> 10 = OS&Y Flg x Post Indicator Grv** <input type="checkbox"/> 13 = Post Indicator Flg x Mon. Butterfly Vlv Grv† <input type="checkbox"/> 14 = Post Indicator Flg x Post Indicator Flg <input type="checkbox"/> 16 = Mon Butterfly Vlv Grv x Post Indicator Flg† <input type="checkbox"/> 17 = Post Indicator Flg x OS&Y Grv <input type="checkbox"/> 18 = OS&Y Grv x Post Indicator Grv <input type="checkbox"/> 19 = Mon. Butterfly Vlv Grv x Post Indicator Grv <input type="checkbox"/> 20 = Post Indicator Flg x OS&Y Flg
	<b>OPTIONAL AIR GAP DRAIN</b> <input type="checkbox"/> AGD4A6 (Fits 2 1/2" – 6") <input type="checkbox"/> AGD4A8 (Fits 8") <input type="checkbox"/> AGD4A12IN (Fits 10" & 12") (Optional – See SS1176 for details)			

\* Orientation of bypass looking downstream. Standard is right hand side. Left hand is on opposite side  
 \*\* Post indicator with plate & nut option not available in 2-1/2" size.  
 † Butterfly valves not available in 12" size.

\* LEAD FREE: The wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with Federal Public Law 111-380. ANSI 3rd party approved and listed.

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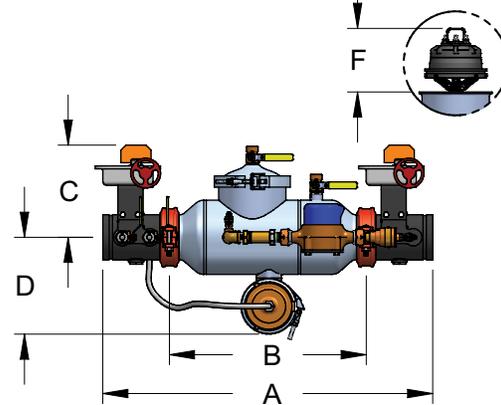
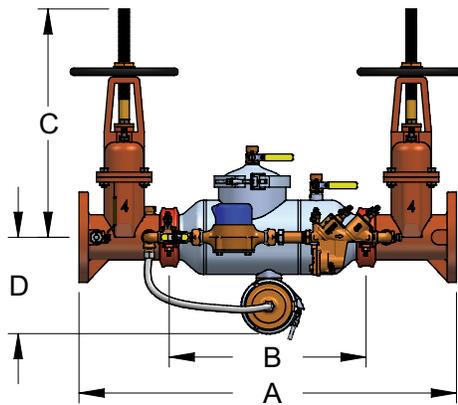
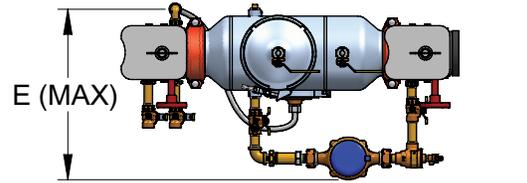
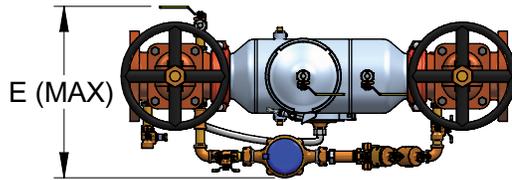
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### Model RPDALF 4A Model RPDA2LF 4A

Reduced Pressure **D**etector **A**ssembly



TYPE 1 BYPASS

TYPE 2 BYPASS

**DIMENSIONS** Nominal dimensions are shown. Allowances must be made for manufacturers' tolerances ( $\pm 1/8"$  (3 mm) per joint)

DIMENSIONS	2-1/2"	60mm	3"	75mm	4"	100mm	6"	150mm	8"	200mm	10"	250mm	12"	300mm
A (Butterfly Valves)	28 ±	711 ±	28-1/2 ±	724 ±	33-1/4 ±	845 ±	38-7/8 ±	987 ±	46-3/8 ±	1178 ±	52-1/4 ±	1327 ±	N/A	N/A
A (Gate Valves)	31 ±	787 ±	32 ±	813 ±	38 ±	965 ±	45-7/8 ±	1165 ±	53-3/8 ±	1356 ±	62-1/4 ±	1581 ±	65-1/2 ±	1664 ±
B (Less Shut-off Valves)	15-7/8 ±	403 ±	15-7/8 ±	403 ±	19-5/8 ±	498 ±	24-1/2 ±	622 ±	30 ±	762 ±	36 ±	914 ±	37 ±	940 ±
C (Butterfly Valves)	8	230	8-3/8	213	9-1/8	232	10-1/8	257	12	305	13-3/8	340	N/A	N/A
C (NRS/PI Gate Valves)	11-3/8	289	12-3/8	314	14-3/4	375	19	483	22-1/2	572	26-1/2	673	30	762
C (OS&Y Open)	16-3/8	41	18-7/8	479	22-3/4	578	30-1/8	765	37-3/4	959	45-3/4	1162	53-1/8	1349
D (Centerline to bottom)	9-5/8	244	9-5/8	244	10-3/8	264	11-5/8	295	15-5/8	397	21	533	21	533
E (Width Max)	17	432	17	432	17	432	20	508	21-1/2	546	26-1/2	673	27-1/2	699
F (Check Removal Clearance)	4-3/4	121	4-3/4	121	6-1/2	165	7-1/2	191	7-1/2	191	10	254	10	254
Test Cocks (NPT)	1/2"	15	1/2"	15	1/2"	15	3/4"	20	3/4"	20	3/4"	20	3/4"	20
<b>WEIGHTS</b>	<b>lb.</b>	<b>kg</b>												
Net Wt. (Less Shut-offs)	48	22	49	22	65	30	101	46	245	111	787	358	890	405
Net Wt. (w/ Butterfly Valves)	75	34	79	36	109	50	169	77	376	171	1005	457	N/A	N/A
Net Wt. (w/ OS&Y Gate Valves)	144	65	170	77	220	100	350	159	722	328	1673	760	2082	946

**Notes:**

- Nominal dimensions are shown. Allowances must be made for manufacturers' tolerances (1/8" per joint).
- Internal body connections are grooved on 2 1/2" - 10" sizes.
- Internal body connections are flanged on 12" size.

\* **LEAD FREE:** The wetted surfaces of this product shall contain no more than 0.25% lead by weighted average. Complies with Federal Public Law 111-380. ANSI 3rd party approved and listed.

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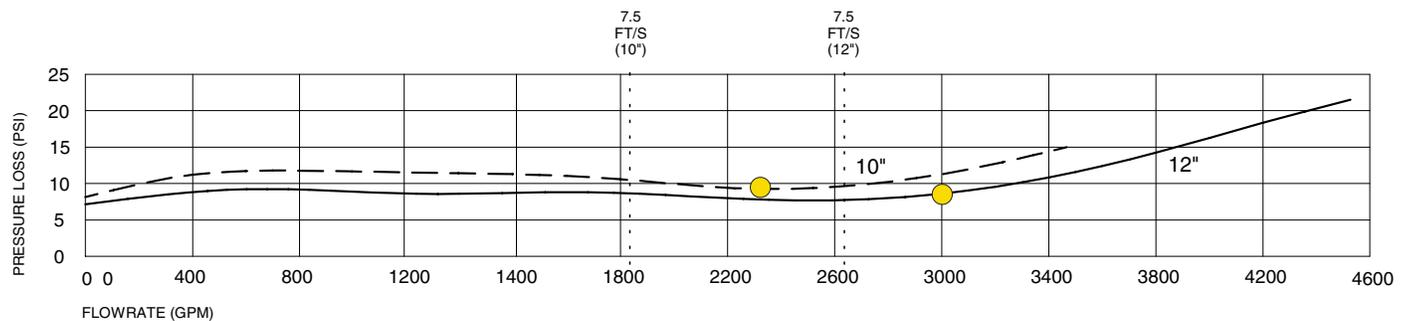
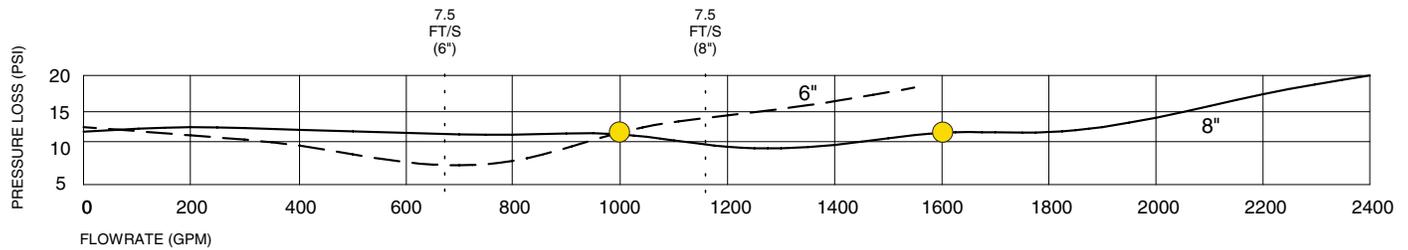
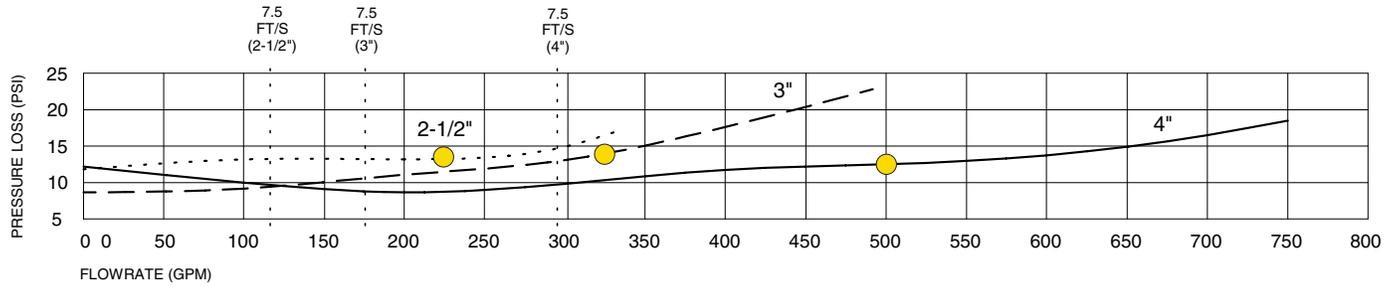
Reduced Pressure **D**etector **A**ssembly

### STANDARD MATERIALS LIST

Part Name	Material
Body (2 1/2" – 8")	Domestic Stainless Steel
Body (10" & 12")	FDA Epoxy-Coated Ductile Iron
Covers (2 1/2" – 6")	Glass-filled PPO/Stainless Steel
Cover (8")	Domestic 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 (C89836 Lead-Free*)/SS
Bypass Valves	Bronze (C89836 Lead-Free*)
Springs	Stainless Steel
Seat Discs	Chloramine-resistant Silicone

### FLOW CURVES

● Meter Rated Flow



#### Notes:

- Flow curves directly reflect data collected by an independent 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 Meter Rated Flow (opening curve).
- For high flow rates/pressure loss information – contact factory.

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