

# RPLF4A series

## reduced pressure principle backflow preventer

### lead free



job name:	
job location:	
engineer:	
contractor:	
tag:	
po#:	
rep:	
wholesale dist.:	

#### description

the Apollo model RPLF 4A lead free reduced pressure principle backflow preventers consist of two independently acting, TriForce™ center stem guided check valves with a differential pressure relief valve located between the check valves. the unit is designed to give maximum protection against backflow of health or non-health hazard fluids by either back-pressure or back-siphonage. the durable domestic stainless steel units (2-1/2"-8") and the FDA epoxy coated ductile iron units (10" and 12") are easily maintained in the line without any special tools. the TriForce™ check valves operate with a spring assist in the flowing condition to provide excellent flow rates which are documented by an independent laboratory.

#### 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** - D option
- 5 year warranty

#### performance rating

- maximum working pressure: 175 psi
- temperature range: 33° F - 140° F
- hydrostatic test pressure: 350 psi

#### approvals

- sizes 2-1/2" - 12": AWWA C511
- sizes 2-1/2" - 12": ASSE 1013-2011, CSA B64.4, FM, IAPMO, UL\*, cUL\*
- NSF/ANSI 61 water quality (2-1/2" - 12")
- NSF/ANSI 372 lead free (2-1/2" - 12")
- approved by the foundation for Cross-connection control and hydraulic research at the university of southern california (2-1/2" - 12")

\*UL and cUL installations must include indicating-type shut-off valves

#### standard materials list

body (2-1/2" - 8")	304 stainless steel
body (10" & 12")	FDA epoxy coated ductile iron
covers (2-1/2" - 6")	glass filled PPO/SS
covers (8")	304 stainless steel
covers (10" & 12")	FDA epoxy coated ductile iron
relief valve	lead free bronze C89836
check valves	bronze/glass-filled PPO/SS
springs	stainless steel
seat discs	chloramine-resistant silicone

#### part number matrix

4ALF	2 X	X	0 X	XX
	Y-STRAINER	SIZE	SHUT-OFF VALVES	OPTIONS
4ALF - LEAD FREE STANDARD	0 - STANDARD	9 - 2-1/2"	2 - NRS FLANGE X NRS FLANGE	D - DOMESTIC ASSEMBLY
	1 - W/ Y-STRAINER	0 - 3"	3 - OS&Y FLANGE X OS&Y FLANGE	
	(SHIPPED LOOSE)	A - 4"	4 - OS&Y FLANGE X MONITORED (MON) BUTTERFLY VALVE GROOVE'	
		C - 6"	6 - OS&Y FLANGE X POST INDICATOR FLANGE	
		E - 8"	7 - OS&Y FLANGE X OS&Y GROOVE	
		G - 10"	8 - OS&Y GROOVE X OS&Y GROOVE	
		H - 12"	9 - MON. BUTTERFLY VALVE GROOVE X MON. BUTTERFLY VALVE GROOVE'	
			10 - OS&Y FLANGE X POST INDICATOR GROOVE	
			11 - NRS GROOVE X NRS GROOVE	
			12 - NRS FLANGE X NRS GROOVE	
			13 - POST INDICATOR FLANGE X MON. BUTTERFLY VALVE GROOVE'	
			14 - POST INDICATOR FLANGE X POST INDICATOR FLANGE	
			16 - MON BUTTERFLY VALVE GROOVE X POST INDICATOR FLANGE'	
			17 - POST INDICATOR FLANGE X OS&Y GROOVE	
			18 - OS&Y GROOVE X POST INDICATOR GROOVE	
			19 - MON. BUTTERFLY VALVE GROOVE X POST INDICATOR GROOVE	
			20 - POST INDICATOR FLANGE X OS&Y FLANGE	
			21 - POST INDICATOR GROOVE X OS&Y GROOVE	
			22 - POST INDICATOR GROOVE X MON. BUTTERFLY VALVE GROOVE'	
			23 - MON. BUTTERFLY VALVE GROOVE X OS&Y FLANGE	

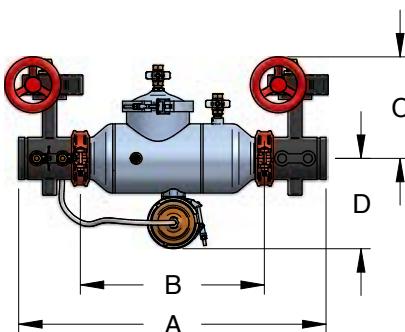
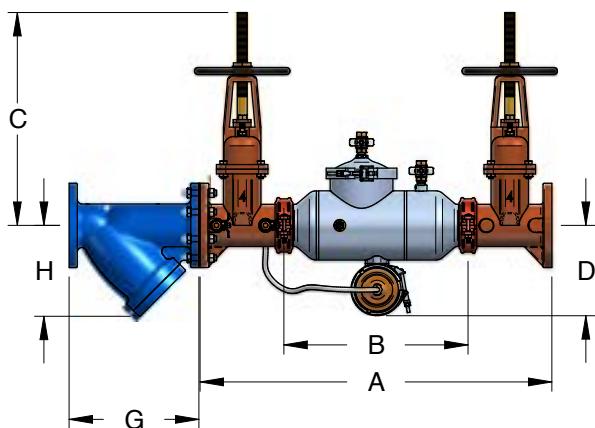
EXAMPLE: 4ALF 20A 07 = 4" size Lead Free Reduced Pressure Assembly with OS&Y flanged inlet x OS&Y grooved outlet shut-off valves.

\*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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### dimensions

nominal dimensions are shown. allowances must be made for manufacturers' tolerances (3 1/8" (3 mm) per joint)

DIMENSIONS	2-1/2"	60 MM.	3"	75 MM.	4"	100 MM.	6"	150 MM.	8"	200 MM.	10"	250 MM.	12"	300 MM.
A (Butterfly Valves)	28	711	28.5	724	33	838	38.5	978	46	1168	N/A	N/A	N/A	N/A
A (Gate Valves)	31	787	32	813	37.6	955	45.5	1156	53.1	1349	62.3	1582	65.4	1661
B (Less Shut-Off Valves)	16	406	16	406	19.8	503	24.5	622	30	762	36	914	37	940
C (Butterfly Valves)	8.6	218	9.6	244	10.9	277	13	330	16.5	419	N/A	N/A	N/A	N/A
C (NRS/PI Gate Valves)	11.8	300	13	330	14	356	17.8	452	21	533	24.5	622	30	762
C (OS&Y Open)	16.4	417	20.5	521	22.8	579	27.3	693	37.8	960	45.8	1163	53.1	1349
D (Centerline to Bottom)	9	229	9	229	9.8	249	11	279	15.8	401	21	533	21.1	536
E (Max w/Gate or Butterfly Valves)	11.9	302	12.5	318	13	330	15.4	391	19.4	493	21.5	546	21.8	554
F (Check Removal Clearance)	4.8	122	4.8	122	6.5	165	7.5	191	7.5	191	10	254	10	254
G (Strainer Length)	10.9	277	11.6	295	14	356	18.6	472	25.5	648	26.1	663	30.1	765
H (Strainer Clearance)	8	203	8.8	224	9.5	241	12.6	320	16.4	417	19	483	22	559
Test Cocks (NPT)	1/2"	15	1/2"	15	1/2"	15	3/4"	20	3/4"	20	3/4"	20	3/4"	20
WEIGHTS	LB.	KG	LB.	KG	LB.	KG	LB.	KG	LB.	KG	LB.	KG	LB.	KG
Net Wt. (Less Valves)	31	14	32	15	48	22	84	38	228	103	762	346	865	392
Net Wt. (w/ Butterfly Valves)	92.6	42	98.6	45	124.6	57	184.6	84	407	185	N/A	N/A	N/A	N/A
Net Wt. (w/ NRS Gate Valves)	85	39	103	47	143	65	267	121	545	247	1269	576	1725	782
Net Wt. (w/ OS&Y Gate Valves)	103	47	119	54	174	79	327	148	620	281	1384	628	1840	835

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.

strainer option only available for flanged-end shut-off options.

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**flow curves**

pressure loss versus flow data as determined by independent approval agencies.

