

## DCDA 4SG SERIES

### DOUBLE CHECK DETECTOR BACKFLOW PREVENTER ASSEMBLY



The Apollo DCDA 4SG Series Double Check Detector Assembly is designed to prevent contamination of the potable water supply due to back-siphonage or backpressure from substances that are non-health hazards. The device consists of a mainline double check valve with resilient seated shut-off valves. The by-pass serves to measure water use of up to 3 gpm. Grooved connections on an epoxy-coated ductile iron body allow for easy connection to butterfly valves or gate valves. (2-1/2" - 8")

#### FEATURES

- Lightweight
- Short Lay Length
- Low Pressure Loss
- Modular Check Valves
- Individual Access to Check Calves
- Reversible/Replaceable Seat Discs
- Approved for Vertical and Horizontal Installations
- Gate Valves Epoxy Coated (FDA)
- Corrosion Resistant FDA Epoxy Coated Ductile Iron Body
- US Patents Nos.: 5,711,341 and 6,343,618
- 5 Year Warranty
- Assembled and Tested in the USA

#### PERFORMANCE RATING

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

#### APPROVALS

- UL Classified
- FM Approved
- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California (2-1/2" - 10" Non Lead Free Only)
- ASSE 1048 (with Meter)
- CSA

#### STANDARD MATERIALS LIST

<b>BODY (MAINLINE)</b>	FDA Epoxy Coated Ductile Iron
<b>BYPASS DC</b>	Bronze (C84400/LF C89836)
<b>COVERS (2-1/2" - 6")</b>	FDA Epoxy Coated Steel
<b>COVERS (8")</b>	FDA Epoxy Coated Ductile Iron
<b>CHECK VALVES (2-1/2" - 6")</b>	Glass-Filled PPO
<b>CHECK VALVES (8" - 10")</b>	Bronze (C8440)
<b>SPRINGS</b>	Stainless Steel
<b>SEAT DISCS</b>	Chloramine-Resistant EPDM
<b>TEST COCK HANDLES</b>	Stainless Steel

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#### PART NUMBER MATRIX

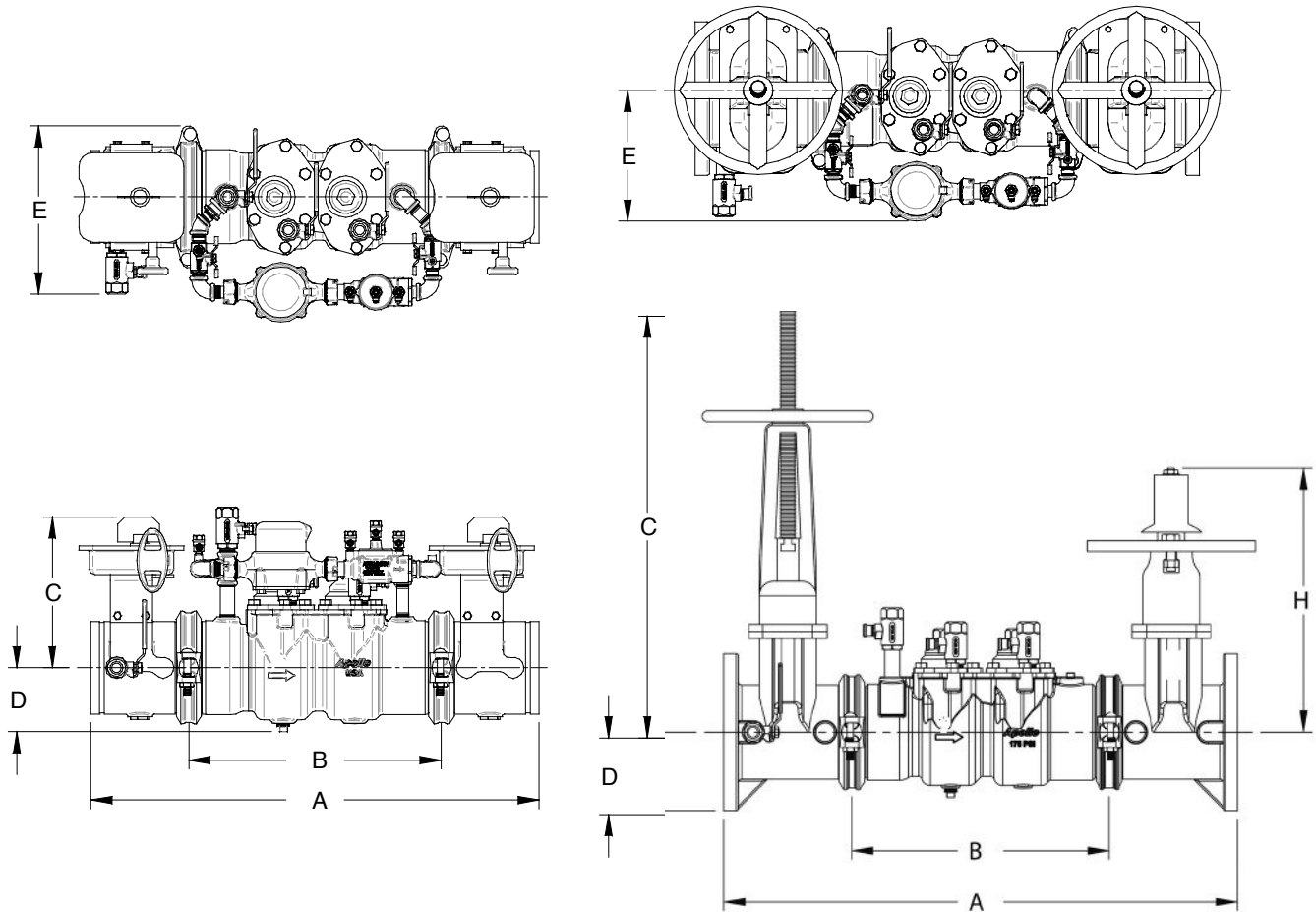
4S X	60 X	X	XX	X
	SIZE	METER OPTION	SHUT-OFF VALVES (INLET X OUTLET)	OPTION
4SG - Standard (2-1/2" - 8" Only)	9 - 2-1/2"	C - Cubic ft/min	03 - OS&Y Flange x OS&Y Flange	D - Domestic Assembly
4S - 10" Only	0 - 3"	E - Gallons/min	04 - OS&Y Flange x Monitored Butterfly Valve Groove	
	A - 4"	G - Less Meter	06 - OS&Y Flange x Flange Post Indicator	
	C - 6"		07 - OS&Y Flange x OS&Y Groove	
	E - 8"		08 - OS&Y Groove x OS&Y Groove	
	G - 10**		09 - Mon. Butterfly Valve Groove x Mon. Butterfly Valve Groove	
			10 - OS&Y Flange x Groove Post Indicator	

EXAMPLE: 4SG 60A E7 = 4" size double check detector assembly with meter in GPM and OS&Y flanged inlet x OS&Y grooved outlet shut-off valves

\*\*10" body is flanged internal connections only (Model 4S)

## DCDA 4SG SERIES

### DOUBLE CHECK DETECTOR BACKFLOW PREVENTER ASSEMBLY



## DIMENSIONS

MODEL NUMBER PART NUMBER SIZE	DC4SG212 4SG-109 2 1/2"	DC4SG212 4SG-109 65 MM	DC4SG3 4SG-100 3"	DC4SG3 4SG-100 80 MM	DC4SG4 4SG-10A 4"	DC4SG4 4SG-10A 100 MM	DC4SG6 4SG-10C 6"	DC4SG6 4SG-10C 150 MM	DC4SG8 4SG-10E 8"	DC4SG8 4SG-10E 200 MM	DC4S10 4S-10G 10"	DC4S10 4S-10G 250 MM
A (Butterfly Valves)*	29	737	29-1/2	749	29-3/4	756	32-1/2	815	43	1092	N/A	N/A
A (Gate Valves)*	32	813	33	838	34-1/2	876	39	991	50-1/4	1276	55-3/4	1416
B (Grooved End Body)	17	432	17	432	16-1/2	419	18	457	27	686	29-1/2	750
C (Butterfly Valves)	8	200	8-1/2	216	9-1/4	235	10-1/4	260	12	300	N/A	N/A
C (OS&Y Open)	18.8	478	20.3	515	22.1	562	29.4	747	37.8	934	45.8	1147
D (Butterfly Valves)	4-1/2	114	4-1/2	114	4-1/2	114	4-1/2	114	6-1/2	165	N/A	N/A
D (Gate Valves)	3-1/2	89	3-3/4	95	4-1/2	114	5-1/2	140	6-3/4	171	8.0	203
E	9	229	9	229	9	229	9	229	10-3/4	273	13.0	330
H (Post Indicator Valve)	14.75	375	14.80	376	14.80	376	18.75	476	24.42	595	11-1/2	292
Test Cocks (NPT)	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4	3/4	3/4
<b>WEIGHTS</b>	<b>LB.</b>	<b>KG.</b>	<b>LB.</b>	<b>KG.</b>	<b>LB.</b>	<b>KG.</b>	<b>LB.</b>	<b>KG.</b>	<b>LB.</b>	<b>KG.</b>	<b>LB.</b>	<b>KG.</b>
Net Wt. (w/ Butterfly Valves)	92	42	95	43	109	50	140	64	523	238	N/A	N/A
Ship Wt. (w/ Butterfly Valves)	175	80	179	81	270	123	304	138	691	314	N/A	N/A
Net Wt. (w/ Post Indicator Valves)	119	54	136	62	160	73	255	116	712	324	997	453
Ship Wt. (w/ Post Indicator Valves)	203	92	220	100	245	111	343	156	860	391	1187	540
Net Wt. (w/ OS&Y Valves)	137	62	152	69	191	87	315	143	787	358	1112	505
Ship Wt. (w/ OS&Y Valves)	221	100	236	107	276	125	403	183	935	425	1302	592

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