

Model DCDA4SG Model DCDA4SGN DOUBLE CHECK DETECTOR ASSEMBLY

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

ISO 9001:2008

DESCRIPTION

The Apollo® Model DCDA4SG, DCDA4SGN 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 a by-pass line. The by-pass consists of a water meter and an approved Apollo® double-check valve with Apollo® ball valves as shut-offs. 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. Note: Model DCDA4SG replaces Model 4S-600 (also known as Model DCDA) in all sizes except 10".

FEATURES

- Lightweight
- · Short lay length
- Low pressure loss
- Modular check valves
- · Individual access to check valves
- · Corrosion resistant epoxy-coated ductile iron body
- US Patents #5,711,341 and #6,343,618
- MADE IN THE USA

MATERIAL SPECIFICATIONS

Part Name	Material
Body (mainline)	Epoxy-coated (FDA) Ductile Iron
Bypass DC	Bronze
Covers (2 ½"-6")	Epoxy-coated (FDA) Steel
Covers (8")	Epoxy-coated (FDA) Ductile Iron
Elbows	Epoxy-coated (FDA) Ductile Iron
Check Valves (2 1/2"-6")	Glass-Filled Noryl®
Check Valves (8")	Bronze
Springs	Stainless Steel
Seat Discs	Chloramine-resistant EPDM

PERFORMANCE RATING

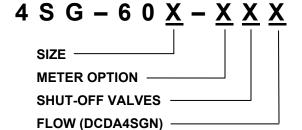
Maximum Working Pressure 175 psi Temperature Range 33 ° F – 140 ° F Hydrostatic Test Pressure 350 psi

APPROVALS

ASSE 1048, CSA B64.5, UL*, FM*, and USC's FCCC&HR. All approvals in horizontal and vertical flow-up configurations. *UL and FM installations must include indicating-type shut-off valves.



ORDERING INFORMATION



SIZ	<u>ZE</u>	
	9 – 2 ½"	C - 6"
	0 – 3"	E – 8"
	$\mathbf{A} - 4$ "	

METER OPTION

 $\overline{\mathbf{C} - \mathrm{ft}^3/\mathrm{min}}$ \square $\mathbf{E} - \mathrm{gpm}$ \square $\mathbf{G} - \mathrm{no}$ meter

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 VIv Grv
- ☐ 6 OS&Y Flg x Post Indicator Flg (Not in 2 ½" size)
- **□ 7** OS&Y Flg x OS&Y Grv
- □ 8 OS&Y Grv x OS&Y Grv
- □ 9 Mon. Butterfly VIv Grv x Mon. Butterfly VIv Grv
- □ 10 OS&Y Flg x Post Indicator Grv (Not in 2 ½" size)
- □ 11 NRS Grv x NRS Grv
- □ 12 NRS Flg x NRS Grv

FLOW (Optional)

■ N - Model DCDA4SGN

Example: 4SG-60A-E7 = 4" size with meter in gpm and OS&Y flanged x grooved shut-off valves (shown above).



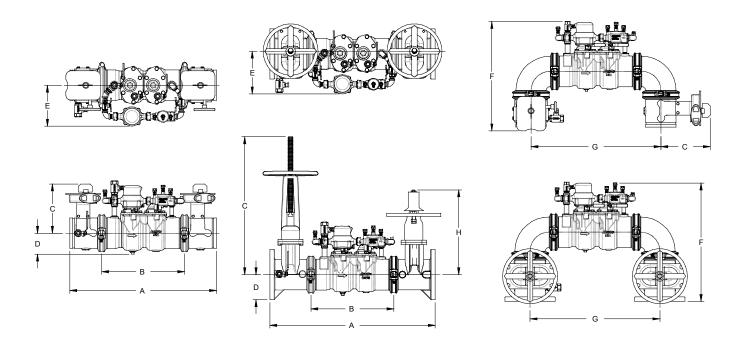
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DIMENSIONS (in.) - WEIGHTS (lbs.)

Size	2 ½"	3"	4"	6"	8"
A (Butterfly Valves)*	29	29 ½	29 ¾	32	43
A (Gate Valves)*	32	33	34 ½	39	50
B (Grooved-end body)	17	17	16 ½	18	27
C (Butterfly Valves)	8	8 ½	9 1/4	10 1/4	12
C (OS&Y Open)	16 3/8	18 ¾	22 ¾	30 1/8	37 ¾
D (Butterfly Valves)	4 ½	4 ½	4 ½	4 1/2	6 ½
D (Gate Valves)	3 ½	3 3/4	4 ½	5 ½	6 3/4
E	9	9	9	9	10 ¾
F (Butterfly Valves)	18 ½	19 1/4	20 ¾	22 ½	31
F (Gate Valves)	20	21	23	26	34 ¾
G	23	23 ¾	24 ½	29	40 ¾
H (Post Indicator)	Not Avail.	12 3/8	14 ¾	19	22 ½
Test Cocks (NPT)	1/2	1/2	1/2	3/4	3/4
Net Wt. (Less Valves)	65	65	65	72	395
Net Wt. (w/ Butterfly Valves)	92	95	109	140	526
Net Wt. (w/ OS&Y Valves)	161	186	220	321	872

Notes:

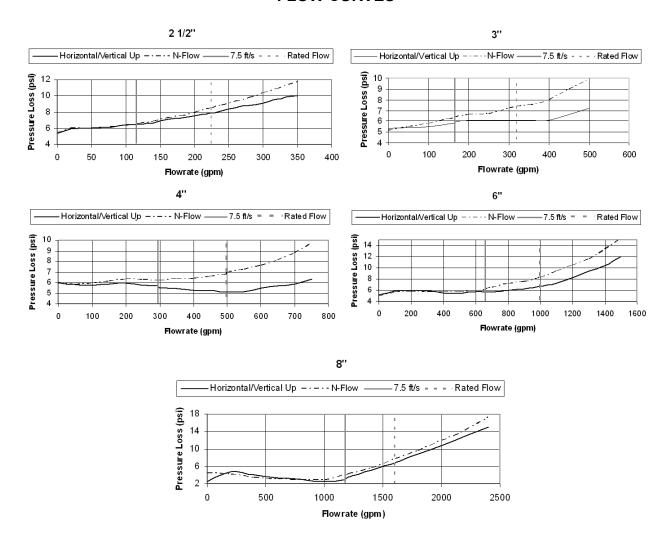
- 1. Nominal dimensions are shown. Allowances must be made for manufacturers' tolerances.
- 2. Internal body connections are grooved on $2 \frac{1}{2}$ " 8" sizes.





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FLOW CURVES



Notes:

- 1. Flow curves directly reflect data collected by USC's Foundation for Cross-Connection Control and Hydraulic Research Approval curve documents.
- Flow curves shown were recorded with butterfly shut-off valves.*
- 3. All data points are based on USC increasing flow data, from zero GPM to rated flow (opening curve).
- 4. Refer to Apollo Model DCDA4S (Formerly 4S-600 Series) for 10" valve information.
 - * Flow curves with gate valves are slightly lower. Contact factory for more information.