"Apollo" Valves
Made In The USA
www.apollovalves.com

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

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

PROUDLY MADE IN USA — ISO 9001:2008 REGISTERED

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 ½"-6")	Glass-Filled Noryl®
Check Valves (8")	Bronze
Springs	Stainless Steel
Seat Discs	Chloramine-resistant EPDM

PERFORMANCE RATING

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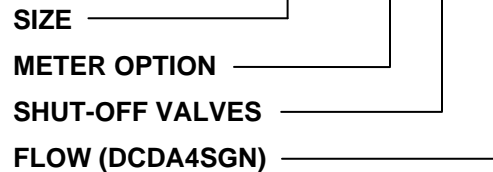Temperature Range 33 ° F – 140 ° F
Hydrostatic Test Pressure 350 psi

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

4 S G – 6 0 X – X X X

SIZE ─────────────
METER OPTION ─────────
SHUT-OFF VALVES ─────────
FLOW (DCDA4SGN) ─────────

SIZE

- **9** – 2 ½"
- **0** – 3"
- **A** – 4"
- **C** – 6"
- **E** – 8"

METER OPTION

C – ft³/min   **E** – gpm   **G** – 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 Vlv 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 Vlv Grv x Mon. Butterfly Vlv 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).

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 ¼	10 ¼	12
C (OS&Y Open)	16 ⅜	18 ⅞	22 ¾	30 ⅛	37 ¾
D (Butterfly Valves)	4 ½	4 ½	4 ½	4 ½	6 ½
D (Gate Valves)	3 ½	3 ¾	4 ½	5 ½	6 ¾
E	9	9	9	9	10 ¾
F (Butterfly Valves)	18 ½	19 ¼	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 ⅜	14 ¾	19	22 ½
Test Cocks (NPT)	½	½	½	¾	¾
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 ½" – 8" sizes.
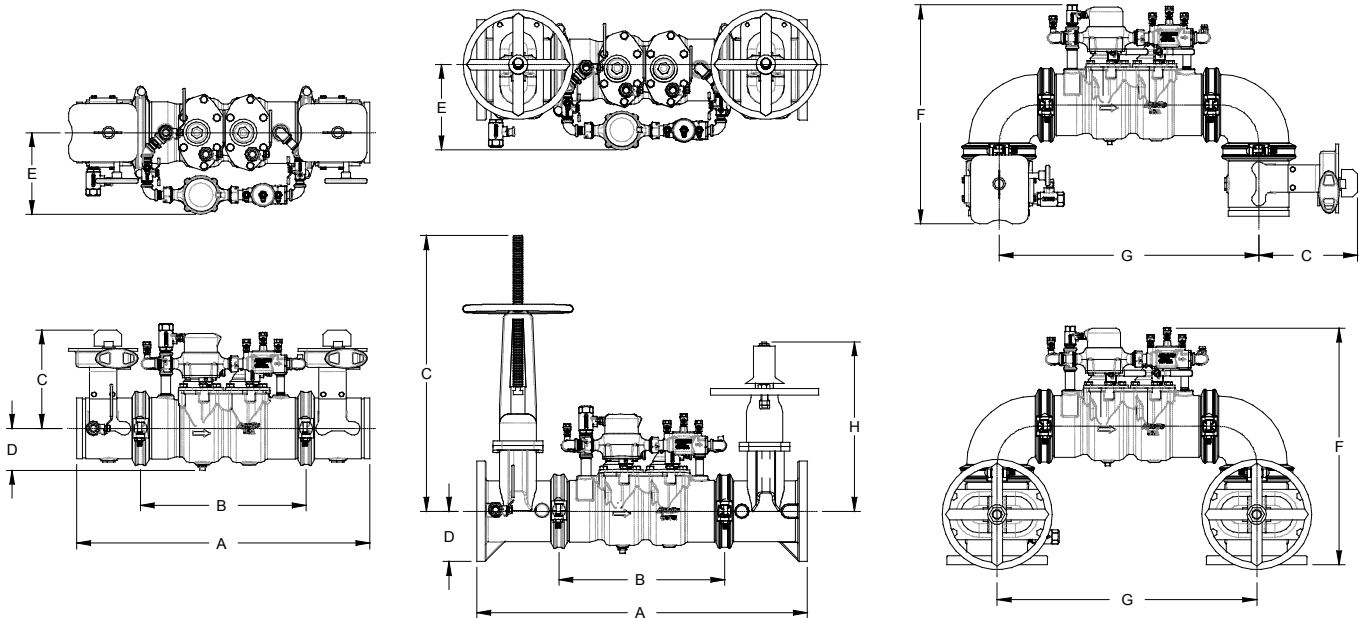
FLOW CURVES

2 1/2"

3"

4"

6"

8"
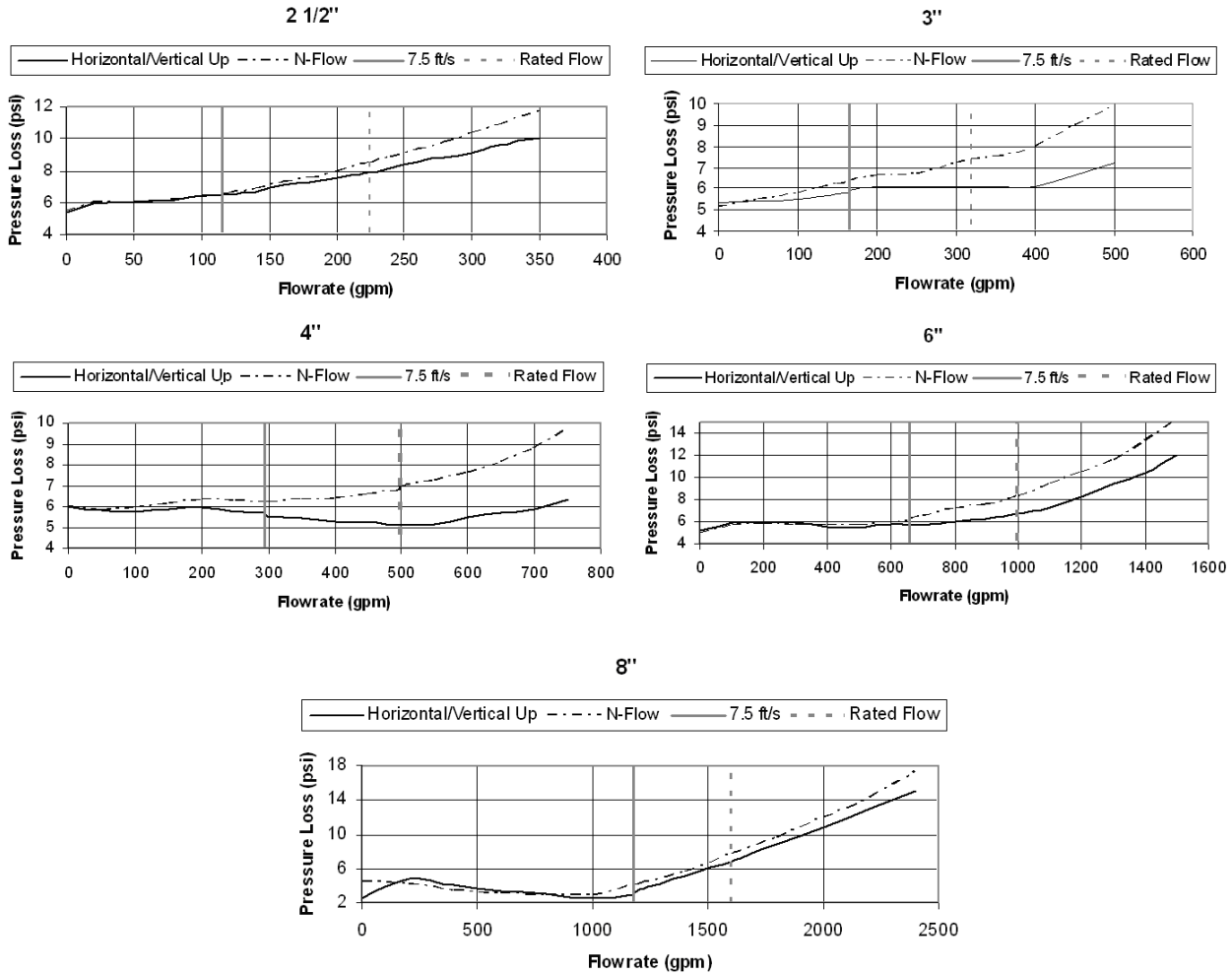
Notes:
1. Flow curves directly reflect data collected by USC's Foundation for Cross-Connection Control and Hydraulic Research Approval curve documents.
2. Flow curves shown were recorded with butterfly shut-off valves.*
3. All data points are based on USC increasing flow data, from zero GPM to rated 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.

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