



# Model 4SG-100, 4SG-100U DOUBLE CHECK VALVE

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

## DESCRIPTION

The Apollo® Model 4SG-100, 4SG-100U Double Check Valve is designed to prevent contamination of the potable water supply due to back-siphonage or backpressure from substances that are non-health hazards. The modular check valves have replaceable seats and reversible EPDM seat discs. Grooved connections on an epoxy-coated ductile iron body allow for easy connection to butterfly valves or gate valves. *Note: Model 4SG-100 replaces Model 4S-100 (also known as Model DC) 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	Epoxy-coated (FDA) Ductile Iron
Covers (2 1/2"-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

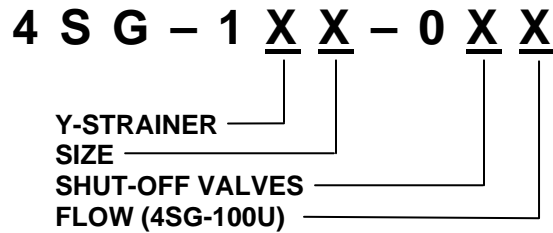
Maximum Working Pressure 175 psi  
 Temperature Range 33 ° F – 140 ° F  
 Hydrostatic Test Pressure 350 psi

## APPROVALS

ASSE 1015, IAPMO, CSA B64.5, UL\*, FM\*, AWWA C-510, 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



## Y-STRAINER

- 0 – None (Standard)
- 1 – With Y-Strainer (Flanged only, shipped loose)

## SIZE

- 9 – 2 1/2"       C – 6"
- 0 – 3"           E – 8"
- A – 4"

## SHUT-OFF VALVES (Inlet x Outlet)

- 1 – Less Shut-off Valves (grooved-end body)
- 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\*\*
- 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\*\*

## FLOW

- U – Model 4SG-100U

*Example: 4SG-10A-07 = 4" size with OS&Y flanged x grooved shut-off valves (shown above).*

\*\*Post Indicator options not available in 2 1/2" size.

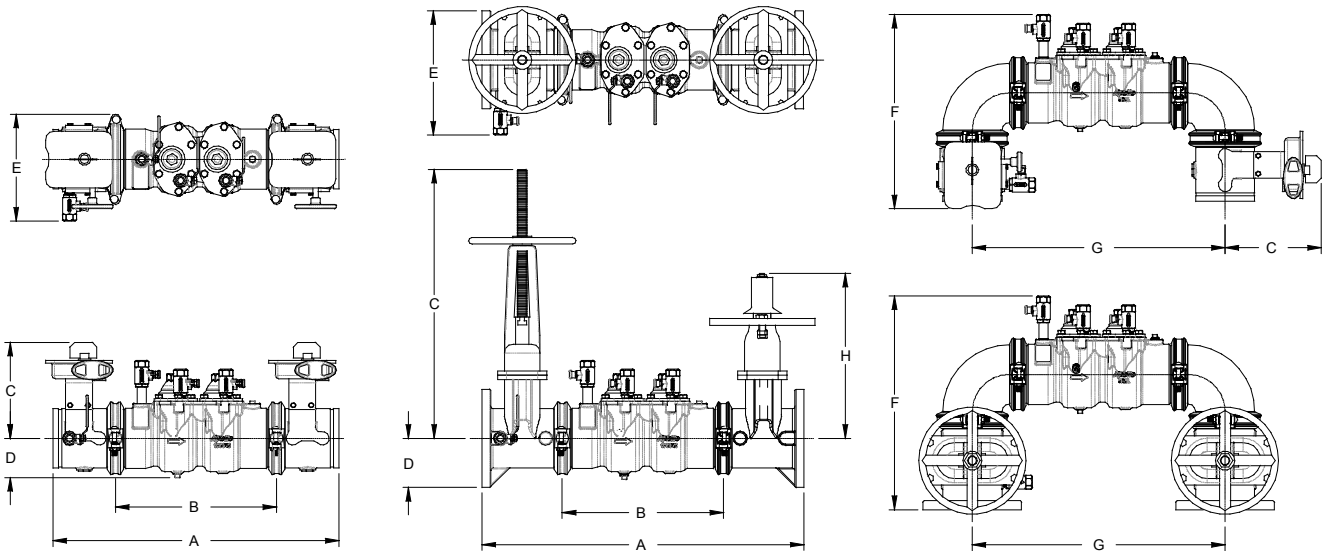


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## DIMENSIONS (in.) – WEIGHTS (lbs.)

Size	2 1/2"	3"	4"	6"	8"
A (Butterfly Valves)*	29	29 1/2	29 3/4	32	43
A (Gate Valves)*	32	33	34 1/2	39	50
B (Grooved-end body)	17	17	16 1/2	18	27
C (Butterfly Valves)	8	8 1/2	9 1/4	10 1/4	12
C (OS&Y Open)	16 3/8	18 7/8	22 3/4	30 1/8	37 3/4
D (Butterfly Valves)	4 1/2	4 1/2	4 1/2	4 1/2	6 1/2
D (Gate Valves)	3 1/2	3 3/4	4 1/2	5 1/2	6 3/4
E (Butterfly Valves)	9	9	9 1/2	12	15
E (Gate Valves)	9 5/8	10 3/8	11 7/8	14 5/8	16 3/4
F (Butterfly Valves)	18 1/2	19 1/4	20 3/4	22 1/2	31
F (Gate Valves)	20	21	23	26	34 3/4
G	23	23 3/4	24 1/2	29	40 3/4
H (Post Indicator)	Not Avail.	12 3/8	14 3/4	19	22 1/2
Test Cocks (NPT)	1/2	1/2	1/2	3/4	3/4
Net Wt. (Less Valves)	53	53	53	60	375
Net Wt. (w/ Butterfly Valves)	80	83	97	128	506
Net Wt. (w/ OS&Y Gate Valves)	149	174	208	309	852

\* Nominal dimensions are shown. Allowances must be made for manufacturers' tolerances.

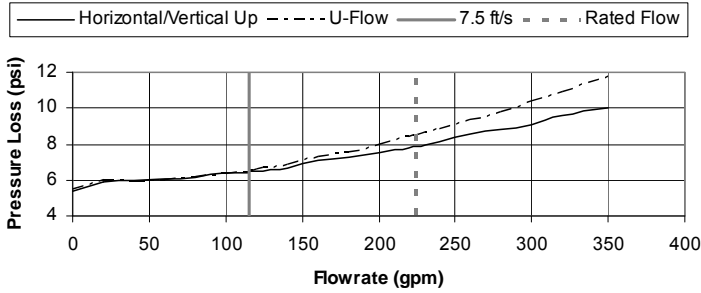




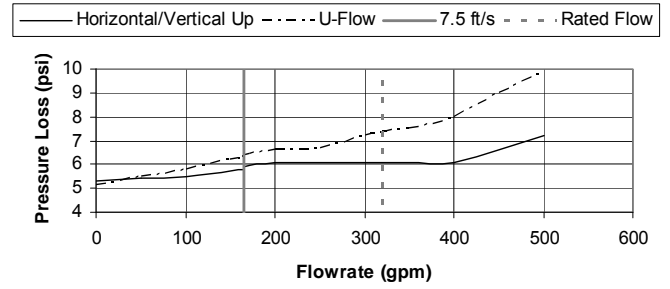
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## FLOW CURVES

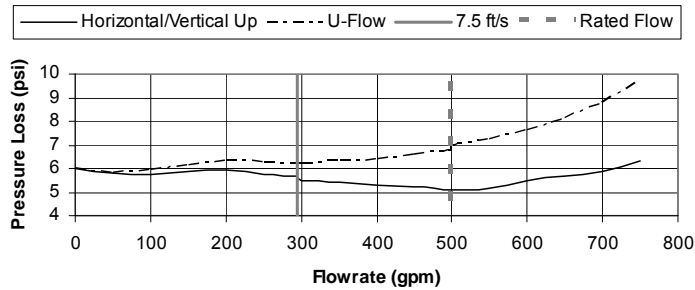
2 1/2"



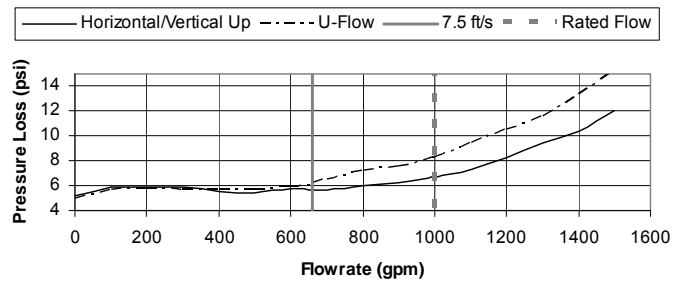
3"



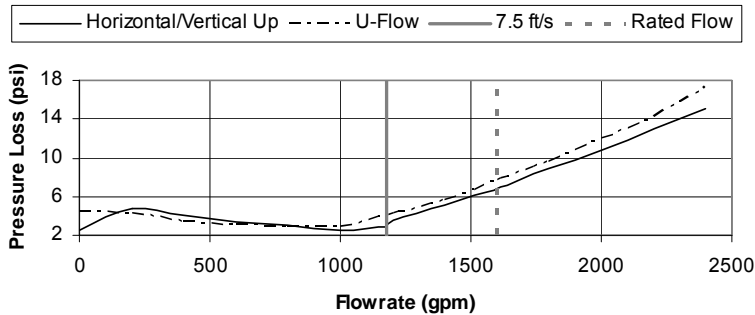
4"



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 DC (4S-100 Series) for 10" valve information.

\* Flow curves with gate valves are slightly lower. Contact factory for more information.