

Engineering Specification

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series 3000SS

Double Check Detector Assembly

2½" – 12"

Series 3000SS Double Check Detector assembly is designed for use in accordance with water utility non-health hazard containment requirements. It is mandatory to prevent the reverse flow of fire protection system substances, such as glycerin wetting agents, stagnant water, and water of non-potable quality from being pumped or siphoned into the potable water supply. The OS&Y model includes an option for an integrated supervisory switch on each gate valve.

Features

- Cam-Check Assembly valve provides low head loss
- Short lay length is ideally suited for retrofit installations
- Stainless steel body is half the weight of competitive designs reducing installation and shipping cost
- Stainless steel construction provides long term corrosion protection and maximum strength
- Single top access cover with two-bolt grooved style coupling for ease of maintenance
- No special tools required for servicing
- Compact construction allows for smaller vaults and enclosures
- Furnished with ⅝" x ¾" bronze meter (gpm or cfm)
- Detects underground leaks and unauthorized water use
- May be installed horizontal or vertical "flow up" position (ASSE Only)
- Includes an integrated supervisory switch as an option on each gate valve of the OS&Y model

Standards

ASSE 1048, AWWA C510-92, CSA B64.5, UL 1469



3000SS-OSY FxF with supervisory switches

Approvals

UL Classified (OSY only), FM Approved (sizes 2½" – 10", OSY only)

USC Foundation for Cross-Connection Control and Hydraulic Research



For 12" assembly approvals, consult factory.

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Inquire with governing authorities for local installation requirements.

⚠ WARNING

It is illegal to use this product in any plumbing system providing water for human consumption, such as drinking or dishwashing, in the United States. Before installing standard material product, consult your local water authority, building and plumbing codes.

*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

Ames Fire & Waterworks product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Ames Fire & Waterworks Technical Service. Ames Fire & Waterworks reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Ames Fire & Waterworks products previously or subsequently sold.



Specification

A Double Check Detector assembly shall be installed on fire protection systems when connected to a drinking water supply. Degree of hazard present is determined by the local authority having jurisdiction. The main valve body shall be manufactured from 300 Series stainless steel to provide corrosion resistance, 100% lead free* through the waterway. The double check detector assembly consists of two independently operating, spring loaded check valves, two UL, FM, OSY resilient seated gate valves, and bypass assembly. The bypass assembly consists of a meter (cubic ft. or gallons), a double check including shutoff valves and required test cocks. Each cam-check shall be internally loaded and provide a positive drip tight closure against reverse flow. Cam-check includes a stainless steel cam arm and spring, rubber faced disc and a replaceable seat. There shall be no brass or bronze parts used within the cam-check valve assembly.

The check valve seats shall be of molded thermoplastic construction. The use of seat screws as a retention method is prohibited. All internal parts shall be accessible through a single cover on the valve assembly. The valve cover shall be held in place through the use of a single grooved style two-bolt coupling. The bypass line shall be hydraulically sized to accurately measure low flow. The bypass line shall consist of a meter, a small diameter double check assembly with test cocks and isolation valves. The bypass line double check valve shall have two independently operating modular poppet check valves, and top mounted test cocks.

The integrated supervisory tamper switch, an option on the OS&Y model, shall have continuity with the valve fully open and activate within two (2) turns from open. The device consists of two SPDT switches and is designed to send a tamper signal when the valve is closed and when the switch is removed from the valve. In the neutral position, the switch indicates the valve is fully open. Closing the valve causes the switch rod to come out of the valve stem groove, activating the switch. Removing the tamper switch also activates the switch. The assembly shall be an Ames Fire & Waterworks 3000SS.

Materials

Internal metal parts	300 Series stainless steel
Main valve body	300 Series stainless steel
Check assembly	Noryl® Flange dimension in accordance with AWWA Class D

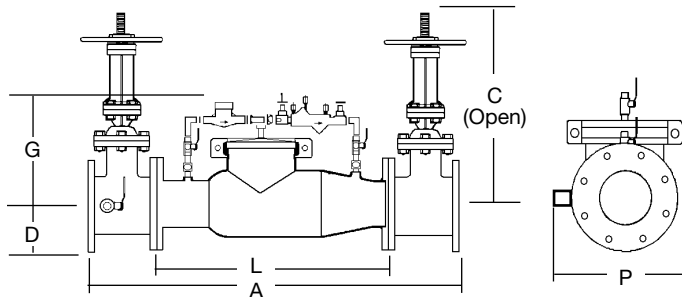
Model/Option

LG	Less shutoff valves
OSY	UL Classified and FM Approved outside stem and yoke resilient seated gate valve
TS-OSY	Integrated supervisory switch (UL Certified, Safety Signaling, Control No. 3L38) on outside stem and yoke resilient seated gate valve
OSY FxG**	Flanged inlet gate connection and grooved outlet gate connection
OSY FxF**	Flanged inlet gate connection and flanged outlet gate connection
OSY GxF**	Grooved inlet gate connection and flanged outlet gate connection
OSY GxG**	Grooved inlet gate connection and grooved outlet gate connection
CFM	Cubic feet per minute
GPM	Gallons per minute meter

Pressure — Temperature

Temperature Range: 33°F – 110°F (0.5°C – 43°C)
Maximum Working Pressure: 175 psi (12 bar)

Dimensions – Weights



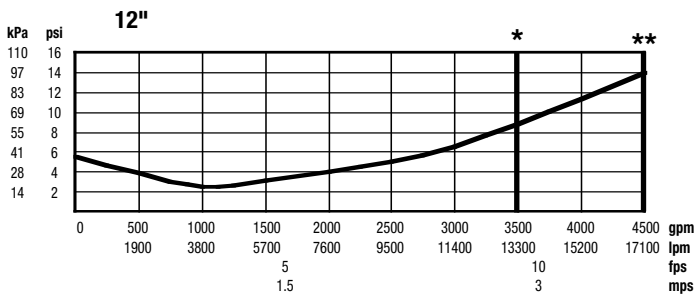
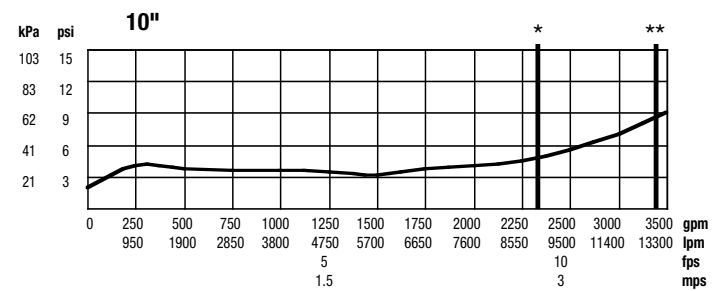
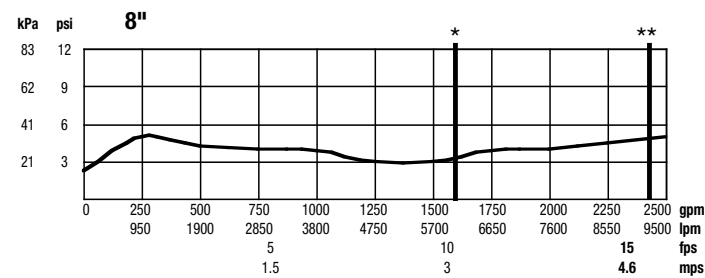
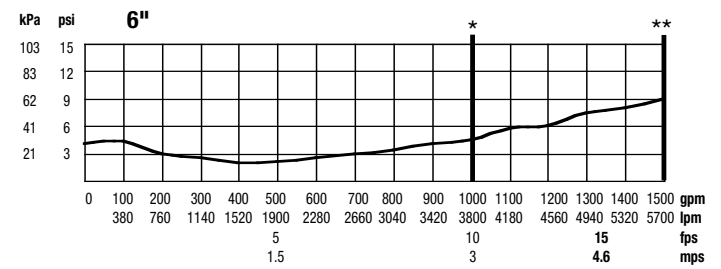
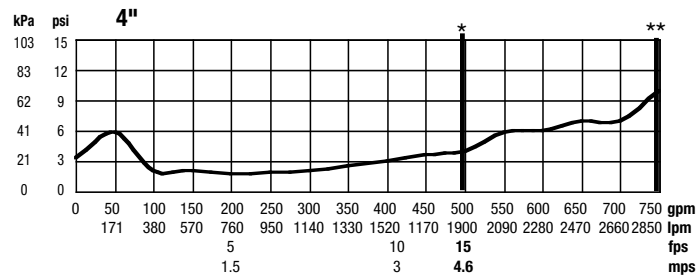
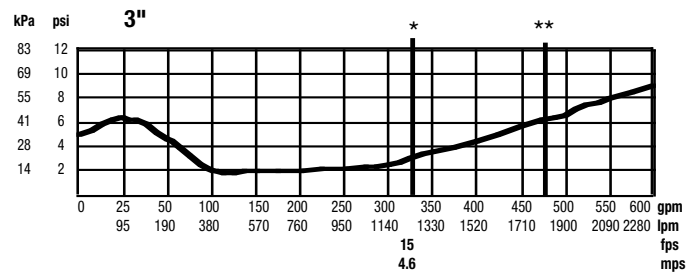
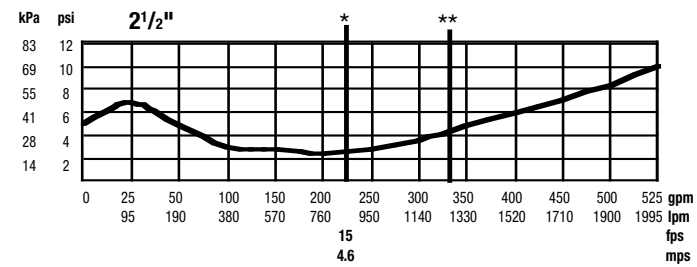
SIZE		DIMENSIONS										NET WEIGHT		NET WEIGHT	
	A	C (OSY)		D		G		L		P		With Gates		Without Gates	
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	lb	kg	lb	kg
2½	37	965	16¾	416	3½	89	10	250	22	559	12½	160	72	68	31
3	38	965	18¾	479	3¾	95	10	250	22	559	13	235	106	70	32
4	40	1016	22¾	578	4½	114	10	250	22	559	14½	245	111	73	33
6	48½	1232	30¾	765	5½	140	15	381	27½	699	15½	395	179	120	54
8	52½	1334	37¾	959	6¾	171	15	381	29½	749	18½	577	261	180	82
10	55½	1410	45¾	1162	8	200	15	381	29½	749	19½	779	353	190	86
12	57½	1461	53¾	1349	9½	241	15	381	29½	749	21	1049	476	220	100

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** Consult factory for the following: Grooved NRS gate valves, post indicator plate and operating nut, dimensions

Capacity

Flow curves as tested by Underwriters Laboratory per UL 1469, 1996. * Rated flow **UL Tested



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