Engineering Specification

Contractor _

Approval ____

Representative _

Contractor's P.O. No. ____

Job Name ___

Job Location _____

Engineer _

Approval _

LEAD FREE^{*} Series 4000SS

Reduced Pressure Zone Assemblies Sizes: 2¹/₂" – 12"

Series 4000SS Reduced Pressure Zone Assemblies are designed to provide protection of the potable water supply in accordance with national codes. This series can be used where approved by the local authority having jurisdiction on health-hazard cross-connections. Series 4000SS features short lay length, lightweight stainless steel body, corrosive resistant stainless steel relief valve, and patented cam-check assembly.

Features

- Stainless steel construction provides long term corrosion resistance and maximum strength
- Stainless steel body is half the weight of competitive designs reducing installation & shipping costs
- Short end-to-end dimensions makes retrofit easy
- Cam-check assembly provides maximum flow at low pressure drop
- No special tools required for servicing
- · Compact construction allows for smaller enclosures
- Stainless steel relief valve features a balanced rolling diaphragm to eliminate sliding seals and lower maintenance costs

Specifications

A Reduced Pressure Zone Assembly shall be installed at each cross-connection to prevent backsiphonage and backpressure of hazardous materials into the potable water supply. The series 4000SS features Lead Free* construction to comply with Lead Free* installation requirements. The assembly shall consist of a pressure differential relief valve located in a zone between two positive seating cam-check assemblies. The main valve body shall be manufactured from 300 Series stainless steel for corrosion resistance. The cam-check assembly shall be of thermoplastic construction with stainless steel hinge pins, cam arm, and cam bearing. The cam-check assembly shall utilize a single torsion spring design to minimize pressure drop through the assembly. The cam-check assembly shall be modular and shall seal to the main valve body by the use of an O-ring. There shall be no brass or bronze parts used within the check assembly or relief valve. The use of seat screws to retain the check valve seat is prohibited. All internal parts shall be accessible through a single cover on the valve assembly securely held in place by a two-bolt grooved coupling. The differential relief valve shall be of stainless steel construction and shall utilize a rolling diaphragm and no sliding seals. The relief valve shall be bottom mounted and supplied with a steel reinforced sensing hose. The assembly shall include two resilient seated shutoff valves & four ball type test cocks. The assembly shall be an Ames Fire & Waterworks Series 4000SS.



Standards



Approvals





When installing a drain line on Series 4000SS backflow preventer, use air gap. See Literature ES-A-AG/ EL/TC for additional information.

For 12" assembly approvals consult factory.

Available Models

Suffix:

- NRS non-rising stem resilient seated gate valves
- OSY UL/FM outside stem and yoke resilient seated gate valves **OSY FxG – flanged inlet gate connection and grooved outlet
- **OSY GxF grooved inlet gate connection and flanged outlet
- arOSY GXF grooved inlet gate connection and flanged outlet gate connection
- **OSY GxG grooved inlet gate connection and grooved outlet gate connection
 - LG less gates

Available with grooved NRS gate valves — consult factory** Post indicator plate and operating nut available — consult factory** **Consult factory for dimensions

NOTICE

The installation of a drain line is recommended. When installing a drain line, an air gap is necessary. The 4000SS should be installed with a minimum clearance of 12" between lowest point of the assembly and the floor drain or grade.

*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.

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Materials

All 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

Pressure – Temperature

Temperature Range: 33°F – 110°F (0.5°C – 43°C) Maximum Working Pressure: 175 psi (12.1 bar)





Dimensions – Weights

Note: Strainer sold separately

SIZE	DIMENSIONS											NET WEIGHT					
	А		C (OSY)		C(NRS)		D		F		L		w/Gates		w/o Gates		
in.	in.	тт	in.	тт	in.	тт	in	тт	in.	тт	in.	тт	lb.	kg.	lb.	kg.	
2 ¹ / ₂	37	940	16¾	416	9 ¾	238	101/2	267	7	178	22	559	148	67	60	27	
3	38	965	181/8	479	10 ¹ /4	260	101/2	267	71/2	191	22	559	226	103	62	28	
4	40	1016	22 ³ ⁄ ₄	578	12 ³ /16	310	10½	267	9	229	22	559	235	107	65	30	
6	481/2	1232	301/8	765	16	406	11½	292	11	279	271/2	699	380	172	110	50	
8	52 ½	1334	37¾	959	19 ¹⁵ / ₁₆	506	12 ½	318	131/2	343	29 ½	749	571	259	179	81	
10	55¾	1416	45¾	1162	2313/16	605	12 ¹ /2	318	16	406	29 ¹ / ₂	749	773	351	189	86	
12	57½	1461	531/8	1349	26¾	679	12 ½	318	19	483	29 ¹ / ₂	749	1043	474	219	100	

Noryl[®] is a registered trademark of General Electric Company

NOTICE

Inquire with governing authorities for local installation requirements

Capacity

Series 4000SS performance as established by an independent testing laboratory (1996 UL). UL certified flow characteristics.

Documented flow characteristics (including shutoff valves).

*UL Rated **UL Tested







A WATTS Brand

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