Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

LEAD FREE*

Series 4000SS

Reduced Pressure Zone Assemblies

Sizes: 2 ½" – 10" (65 – 250mm)

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

AWWA C511-92

Approvals

1013	B64.5	Sizes 2½" – 10", OSY only	OSY only

NOTICE

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

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 gate connection
**OSY 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.

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Materials

All internal metal parts: 300 Series stainless steel
Main valve body: 300 Series stainless steel
Check assembly: Noryl®

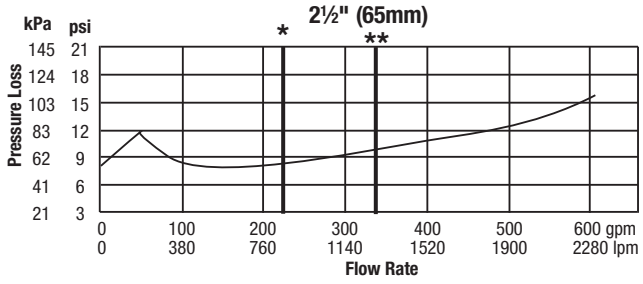
Flange dimension in accordance with AWWA Class D

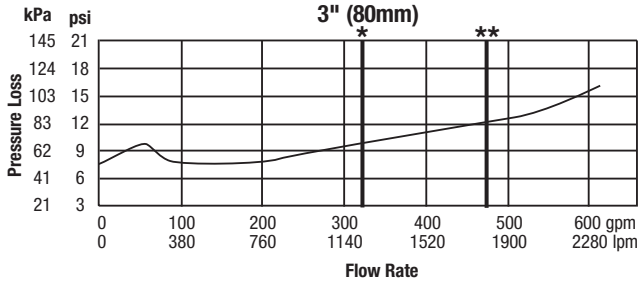
Capacity

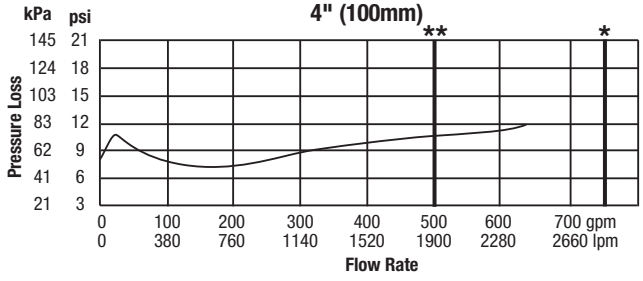
Series 4000SS performance as established by an independent testing laboratory (1996 UL). UL certified flow characteristics.

Documented flow characteristics (including shutoff valves).

*UL Rated **UL Tested

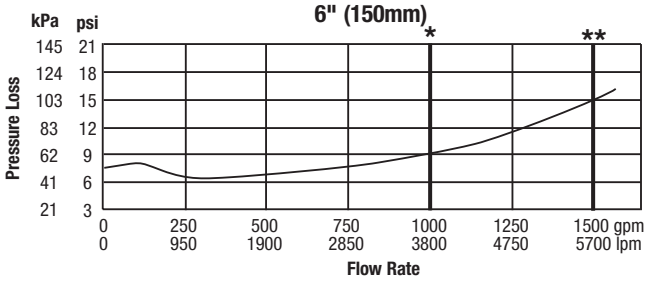


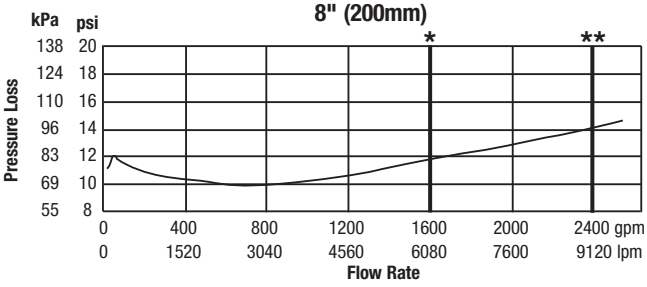


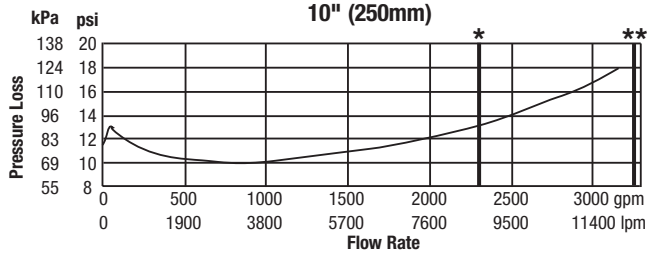


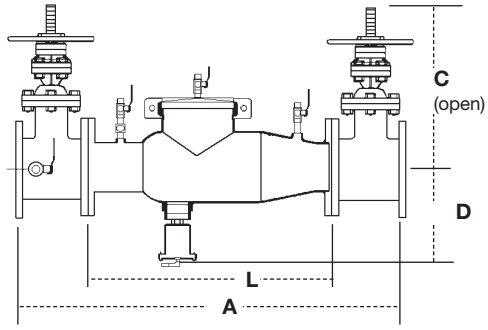
Pressure – Temperature

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





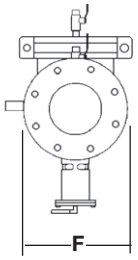




Dimensions – Weights

Note: Strainer sold separately

SIZE		DIMENSIONS												NET WEIGHT			
		A		C (OSY)		C(NRS)		D		F		L		w/Gates		w/o Gates	
in.	mm	in.	mm	in.	mm	in.	mm	in	mm	in.	mm	in.	mm	lb.	kg.	lb.	kg.
2½	65	37	940	16⅜	416	9⅜	238	10½	267	7	178	22	559	148	67	60	27
3	80	38	965	18⅞	479	10 1/4	260	10½	267	7½	191	22	559	226	103	62	28
4	100	40	1016	22¾	578	12 3/16	310	10½	267	9	229	22	559	235	107	65	30
6	150	48½	1232	30⅛	765	16	406	11½	292	11	279	27½	699	380	172	110	50
8	200	52½	1334	37¾	959	19 15/16	506	12½	318	13½	343	29½	749	571	259	179	81
10	250	55½	1410	45¾	1162	23 13/16	605	12½	318	16	406	29½	749	773	351	189	86



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NOTICE

Inquire with governing authorities for local installation requirements

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USA: Backflow Tel: (978) 689-6066 • Fax: (978) 975-8350 • AmesFireWater.com
USA: Control Valves Tel: (713) 943-0688 • Fax: (713) 944-9445 • AmesFireWater.com
Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • AmesFireWater.ca
Latin America: Tel: (52) 81-1001-8600 • AmesFireWater.com