

For Health Hazard Applications

1-800-336-6530

Water Specialties
CompanyWATTS®
REGULATOR**LEAD FREE*****Series 957, 957N, 957Z****Reduced Pressure Zone Assemblies****Sizes: 2½" – 10" (65 – 250 mm)**

Series 957, 957N, 957Z Reduced Pressure Zone Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. Series 957, 957N, 957Z are normally used in health hazard applications for protection against backsiphonage or backpressure.

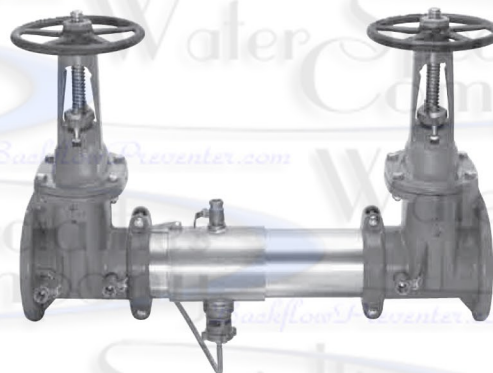
Features

- 2½", 3" and 4" (65, 80 and 100mm) sizes available with quarter-turn ball valve shutoffs
- Replaceable check disc rubber
- Extremely compact design
- 70% Lighter than traditional designs
- 304 (Schedule 40) stainless steel housing & sleeve
- Groove fittings allow integral pipeline adjustment
- Patented torsion spring checks provide lowest pressure loss
- Unmatched ease of serviceability
- Bottom mounted cast stainless steel relief valve
- Available with grooved butterfly valve shutoffs

Specifications

The Reduced Pressure Zone Assembly shall consist of two independent torsion spring check modules, a differential pressure relief valve located between and below the two modules, two drip tight shutoff valves, and required torsion spring check modules and relief valve shall be contained with a sleeve accessible single housing constructed from 304 (Schedule 40) stainless steel pipe with groove end connections. Torsion spring checks shall have replaceable elastomer discs and in operation produce drip tight closure against the reverse flow of liquid caused by backpressure or backsiphonage. Assembly shall be a Watts Regulator Company Series 957, 957N, 957Z.

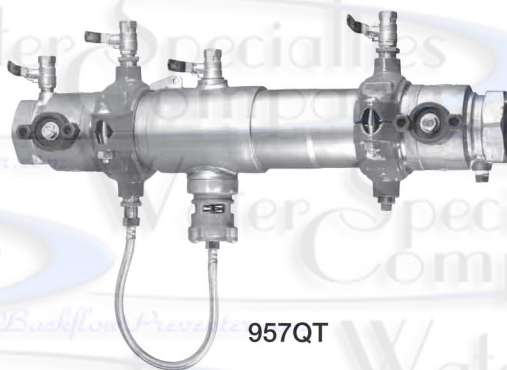
*The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight.



957OSY



957ZBFG



957QT

Available Models

- Suffix:
- NRS – non-rising stem, resilient seated gate valves
- OSY – UL/FM outside stem and yoke resilient seated gate valves
- BFG – UL/FM grooved gear operated butterfly valves with tamper switch
- QT – 2½" - 4" (65 - 100mm) quarter-turn ball valves
- **OSY FxG – Flanged inlet gate connection and grooved outlet gate connection
- **OSY GxG – Grooved inlet gate connection and flanged outlet gate connection
- **OSY GxG – Grooved inlet gate connection and grooved outlet gate connection

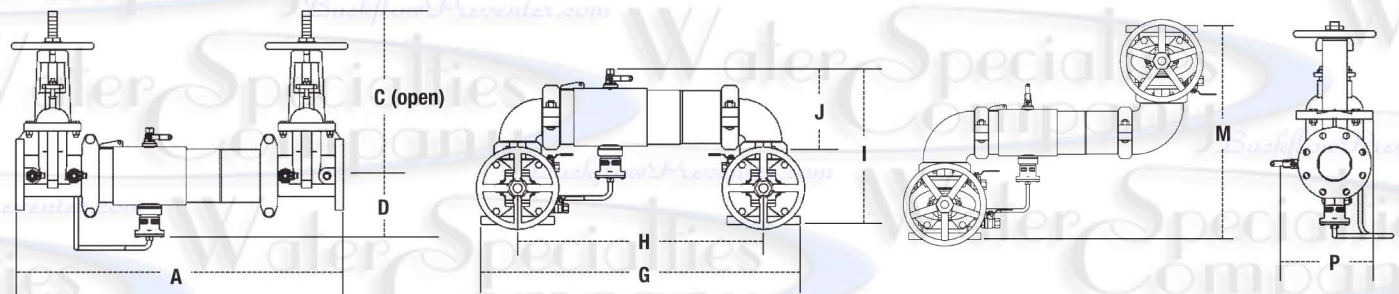
Available with grooved NRS gate valves - consult factory**

Post indicator plate and operating nut available - consult factory**

**Consult factory for dimensions

Note: When installing a drain line on Series 957 backflow preventers, use 957AG air gaps. See ES-AG/EL/TC for additional information.

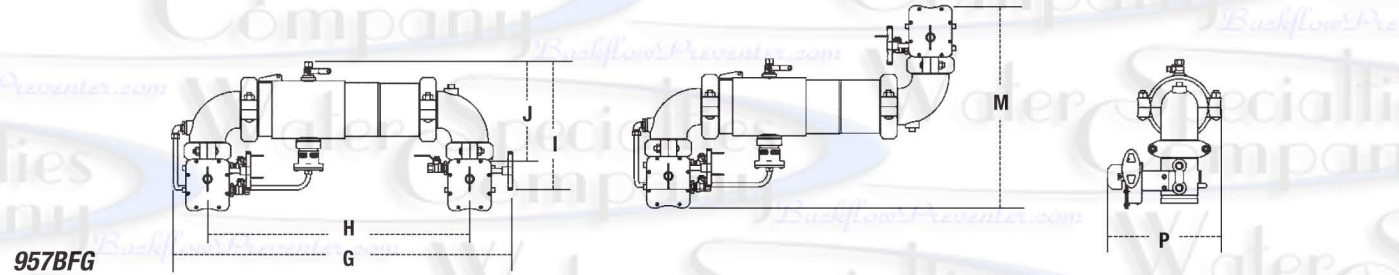
Dimensions — Weight



957

SIZE (DN)				DIMENSIONS																WEIGHT									
		A		C (OSY)		C (NRS)		D		G		H		I		J		M		P		957NRS		957OSY		957N NRS		957N OSY	
<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>lbs.</i>	<i>kgs.</i>	<i>lbs.</i>	<i>kgs.</i>	<i>lbs.</i>	<i>kgs.</i>	<i>lbs.</i>	<i>kgs.</i>
2½	65	30½	775	16¾	416	9¾	238	6½	165	29½	738	21½	546	15½	393	8½	223	21½	548	9¾	234	118	54	128	58	126	57	136	62
3	80	31¾	797	18¾	479	10¼	260	6½	170	30¼	768	22¼	565	17½	435	9½	233	23½	587	10½	267	134	61	148	67	147	67	161	73
4	100	33½	851	22¾	578	12¾	310	7	178	33	838	23½	597	18½	470	9½	252	26½	673	11¾	284	164	74	164	74	187	85	187	85
6	150	44	1118	30¾	765	16	406	8½	216	44¾	1137	33¾	857	23¾	589	13½	332	32¾	832	15	381	276	125	298	135	317	144	339	154
8	200	50	1270	37¾	959	19½	506	9½	246	54¾	1375	40¾	1032	27½	697	15½	399	37½	943	17¾	437	441	200	483	219	516	234	558	253
10	250	56½	1435	45¾	1162	23¾	605	11¾	285	66	1676	50	1270	32½	826	17½	440	46¾	1178	20	508	723	328	783	355	893	405	950	431

957BFG



SIZE (DN)				DIMENSIONS								WEIGHT			
		G		H		I		J		M		P		957N/957Z	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
2½	65	32½	826	21½	546	15½	394	9½	241	21 ¹³ / ₁₆	555	11 ¹³ / ₁₆	300	67	30
3	80	34	864	22¼	565	16 ⁵ / ₁₆	414	10 ¹ / ₁₆	256	23 ³ / ₈	587	12 ⁷ / ₈	308	70	32
4	100	35½	905	23½	597	17 ³ / ₁₆	437	10 ¹⁵ / ₁₆	279	24 ⁵ / ₁₆	634	12 ⁵ / ₈	321	87	39
6	150	46½	1181	33¾	857	20½	521	13½	343	28¼	718	15	382	160	73

Noryl® is a registered trademark of SABIC Innovative Plastics™.

Materials

- Housing & Sleeve: 304 (Schedule 40) Stainless Steel
- Elastomers: EPDM, Silicone and Buna-N
- Torsion Spring Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

Pressure — Temperature

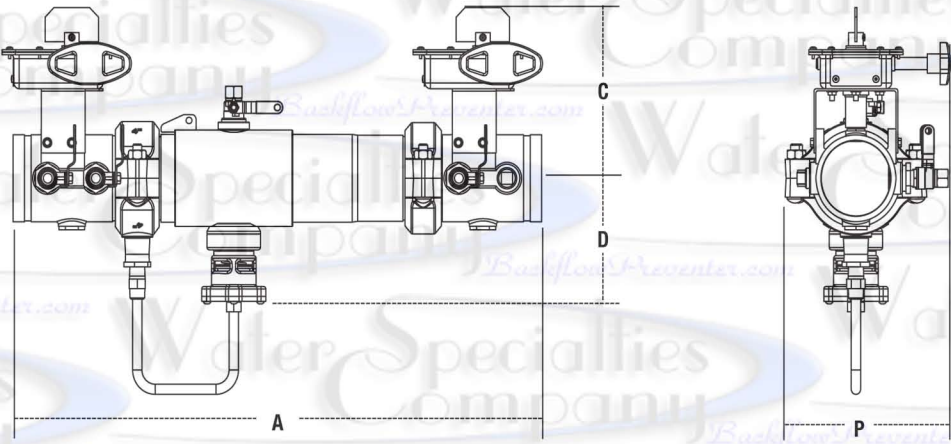
Temperature Range: 33°F – 140°F (0.5°C – 60°C)

Maximum Working Pressure: 175psi (12.1 bar)

Approvals

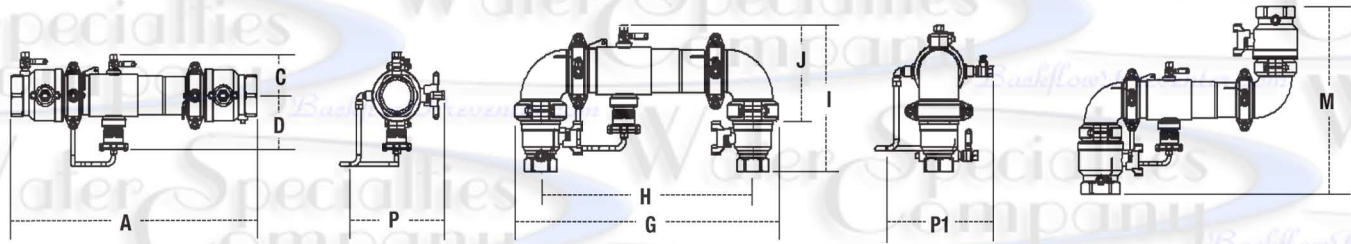


Dimensions — Weight continued



957 BFG

SIZE (DN)		DIMENSIONS								WEIGHT	
		A		C		D		P			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
4	100	28¾	730	7¾	197	6¾	162	9½	241	66	30
6	150	37	940	9⅞	246	7⅞	189	14¼	362	122	55



957QT

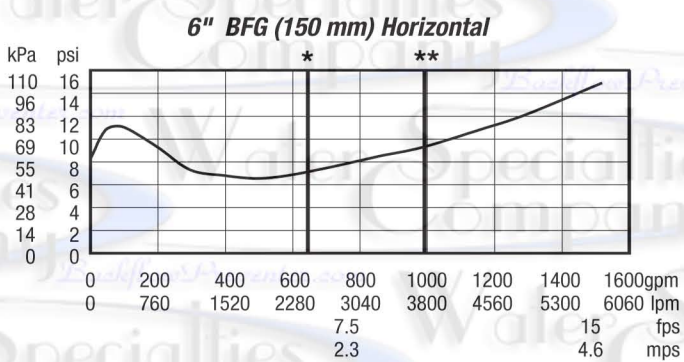
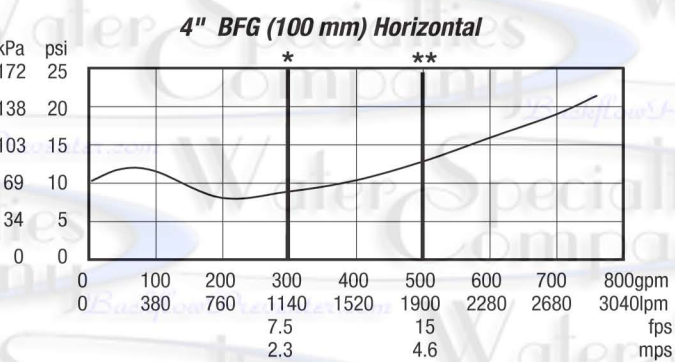
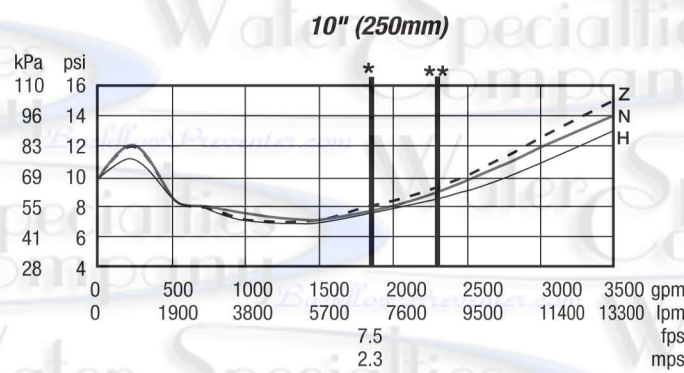
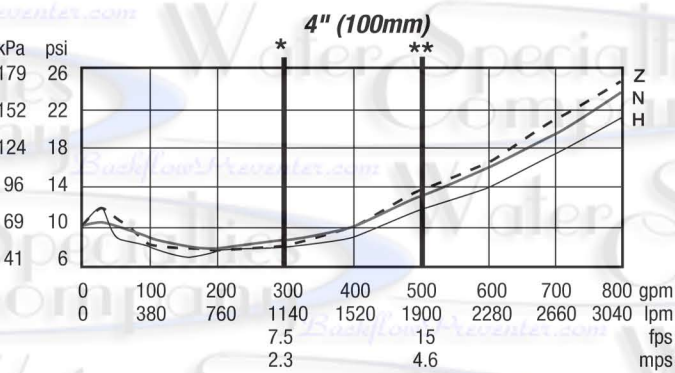
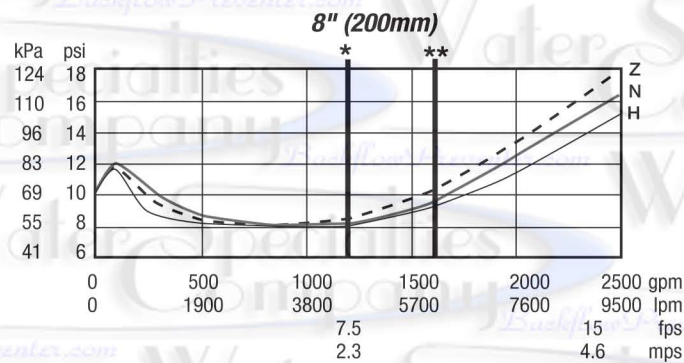
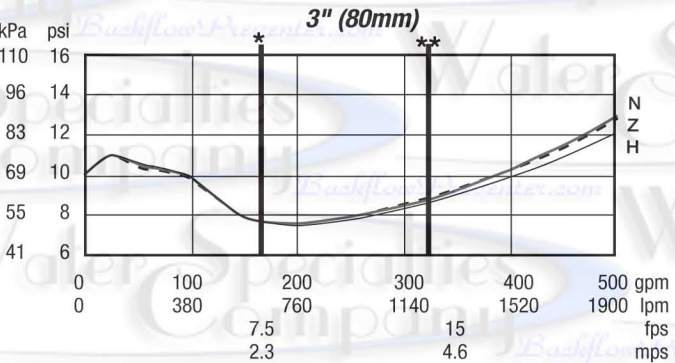
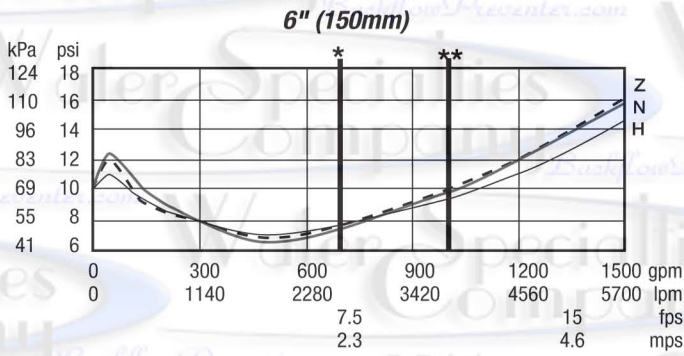
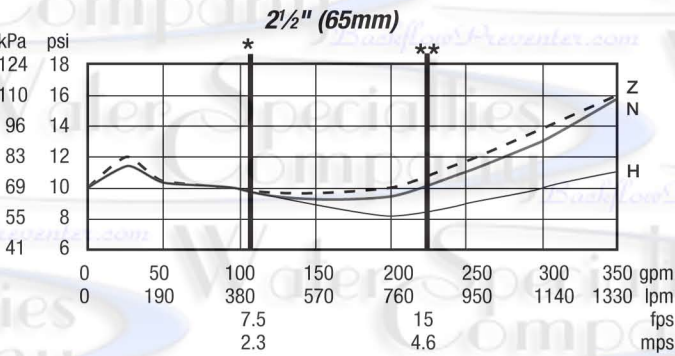
SIZE (DN)				DIMENSIONS												WEIGHT									
		A		C		D		G		H		I		J		M		P		P1		QT			
QTN																									
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2 1/2	65	27 1/2	698	4 7/8	124	6 7/8	175	30 1/4	768	21 1/2	546	16 1/16	407	11 3/8	289	19 7/8	505	11 5/16	287	11 5/16	287	46	21	57	26
3	80	28	711	4 7/8	124	6 7/8	175	30 1/4	768	22 1/4	565	16 9/16	420	11 3/8	289	20 7/8	531	11 5/16	287	11 5/16	287	56	25	67	30
4	100	28 3/4	730	4 7/8	124	6 7/8	175	30 1/4	768	23 1/2	597	18 5/16	465	11 3/8	289	24 3/8	619	11 5/16	287	11 5/16	287	76	34	87	39

Capacity

Series 957, 957N, 957Z flow curves as tested by Underwriters Laboratory per UL 1469, 1996.
Flow characteristics collected using butterfly shutoff valves

* = Rated flow ** = UL Rated flow

Horizontal N-Pattern ----- Z-Pattern



A Watts Water Technologies Company



ISO 9001-2008
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