

For Health Hazard Applications**1-800-336-6530****Water Specialties Company**
*Backflow Preventer.com***WATTS®**
REGULATOR

Series 957RPDA, 957NRPDA, 957ZRPDA

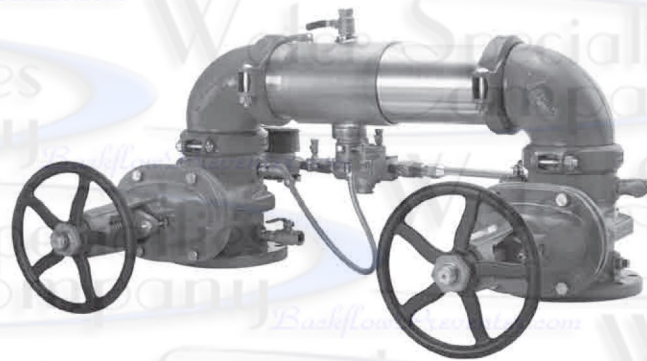
Reduced Pressure Detector Assemblies

Sizes: 2½" – 10" (65 – 250 mm)

Series 957RPDA, 957NRPDA, 957ZRPDA Reduced Pressure Detector Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The 957RPDA, 957NRPDA, 957ZRPDA are normally used in health hazard applications to protect against back-siphonage and backpressure. The Watts 957RPDA, 957NRPDA, 957ZRPDA are used to monitor unauthorized use of water from the fire protection system.

Features

- Extremely compact design
- 70% lighter than traditional designs
- 304 (Schedule 40) stainless steel housing & sleeve
- Groove fittings allow integral pipeline adjustment
- Patented torsion spring check provides lowest pressure loss
- Unmatched ease of serviceability
- Replaceable check disc rubber
- Available with grooved butterfly valve shutoffs
- Bottom mounted cast stainless steel relief valve
- Metered bypass to detect leakage or theft of water from the fire sprinkler system

**957NRPDAOSY**

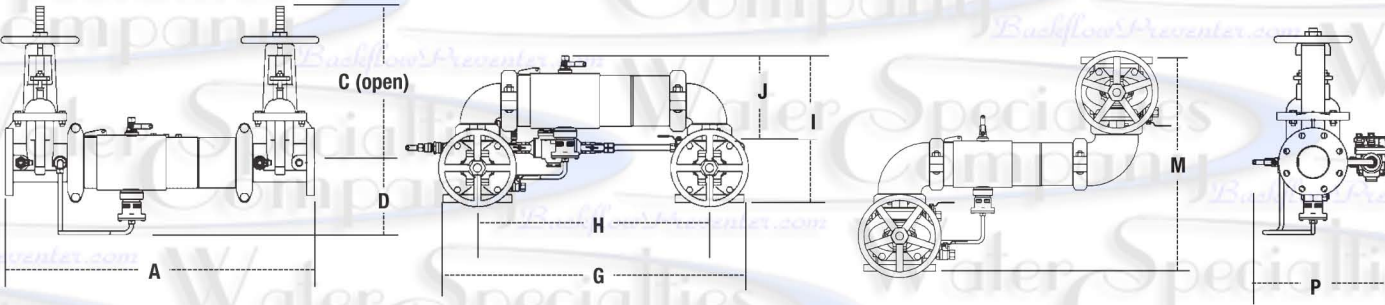
Specifications

The Reduced Pressure Detector 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 within a sleeve accessible single housing constructed from 304 (Sch 40) stainless steel pipe with groove end connections. Torsion spring checks shall have reversible elastomer discs and in operation produce drip tight closure against reverse flow caused by backpressure or backsiphonage. The bypass line shall include a meter, small diameter reduced pressure zone assembly and isolation valves. Assembly shall be Watts Series 957RPDA, 957NRPDA, 957ZRPDA.

Available Models

- Suffix:
- OSY – UL/FM outside stem and yoke, resilient seated gate valves
- BFG – UL/FM grooved gear operated butterfly valves with tamper switch
- *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

Dimensions – Weight



957RPDAOSY

SIZE (DN)				DIMENSIONS												WEIGHT							
		A		C (OSY)		D		G		H		I		J		M		P		957RPDA		957NRPDA	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2½	65	30½	775	16¾	416	6½	165	29¼	738	21½	546	15½	393	8¼	223	21¼	548	13¾	335	142	64	150	68
3	80	31¾	797	18¾	479	6⅞	170	30¼	768	22¼	565	17¼	435	9¼	233	23¼	587	14½	368	162	73	175	79
4	100	33½	851	22¾	578	7	178	33	838	23½	597	18½	470	9½	252	26½	673	15¾	386	178	81	201	91
6	150	44	1118	30⅞	765	8½	216	44¾	1137	33¾	857	23¾	589	13¼	332	32¾	832	19	483	312	142	353	160
8	200	50	1270	37¾	959	9⅞	246	54⅞	1375	40⅞	1032	27¼	697	15¼	399	37¼	943	21¾	538	497	225	572	259
10	250	56½	1435	45¾	1162	11¾	285	66	1676	50	1270	32½	826	17¾	440	46¾	1178	24	610	797	362	964	437

957RPDABFG

SIZE (DN)		DIMENSIONS										WEIGHT			
G		H		I		J		M		P		957RPDABFG			
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	21¼	555	15¼	402	81	37
3	80	34	864	22¼	565	16¼	414	10¼	256	23¼	587	16¼	410	84	38
4	100	35½	905	23½	597	17¼	437	10¾	279	24¼	634	16¾	422	101	46
6	150	46½	1181	33¾	857	20½	521	13½	343	28¼	718	19	483	174	79

Noryl® is a registered trademark of General Electric Company.

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



Capacity

Series 957RPDA, 957NRPDA, 957ZRPDA 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

