For Health Hazard Applications

Job Name _____

Job Location _____

Engineer _____

Approval _____

Contractor _____

Approval _____

Contractor's P.O. No. _____

Representative _____

LEAD FREE*

Series LF957RPDA, LF957NRPDA, LF957ZRPDA

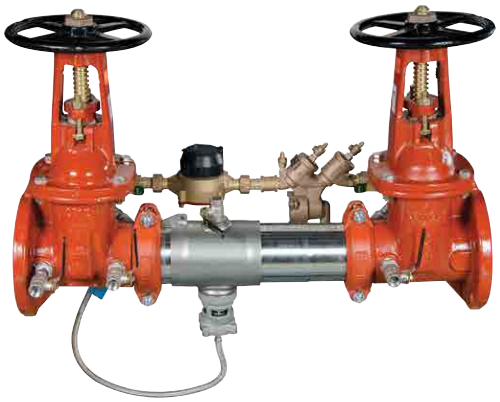
Reduced Pressure Detector Assemblies

Sizes: 2½" – 10"

Series LF957RPDA, LF957NRPDA, LF957ZRPDA Reduced Pressure Detector Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The LF957RPDA, LF957NRPDA, LF957ZRPDA are normally used in health hazard applications to protect against backsiphonage and backpressure. The Watts LF957RPDA, LF957NRPDA, LF957ZRPDA are used to monitor unauthorized use of water from the fire protection system. They feature Lead Free* construction to comply with Lead Free* installation requirements.

Features

- Lead Free* construction
- 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



LF957RPDA-OSY

Specifications

The Lead Free* 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 Lead Free* Reduced Pressure Detector Assemblies shall comply with state codes and standards, where applicable, requiring reduced lead content. The bypass assembly consists of a meter registering either gallon or cubic measurements, a double check assembly and required test cocks. Assembly shall be Watts Series LF957RPDA, LF957NRPDA, LF957ZRPDA.

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.

NOTICE

Inquire with governing authorities for local installation requirements

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

WATTS®

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 GxF**	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

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:	Lead Free Silicon Copper Alloy Body Nickel Plated (Only Center TC)
Pins & Fasteners:	300 Series Stainless Steel
Springs:	Stainless Steel

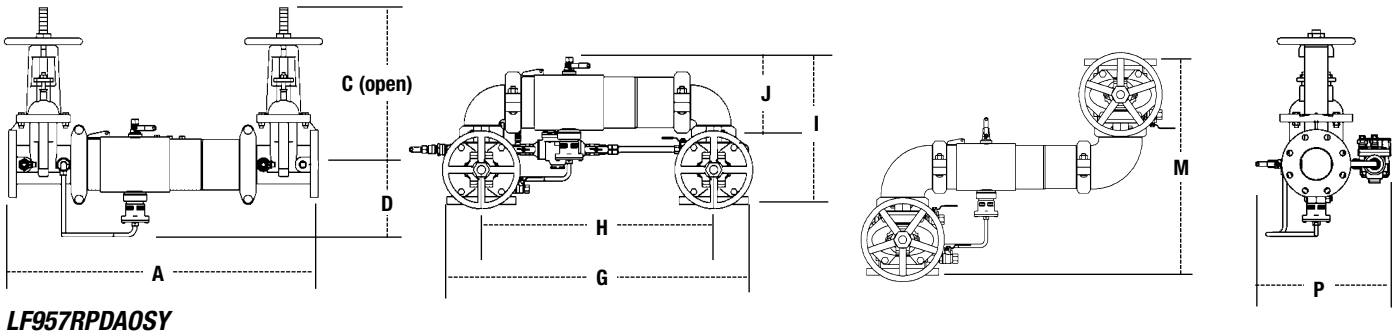
Pressure — Temperature

Temperature Range: 33°F – 110°F (0.5°C – 43°C)

Maximum Working Pressure: 175psi (12.1 bar)

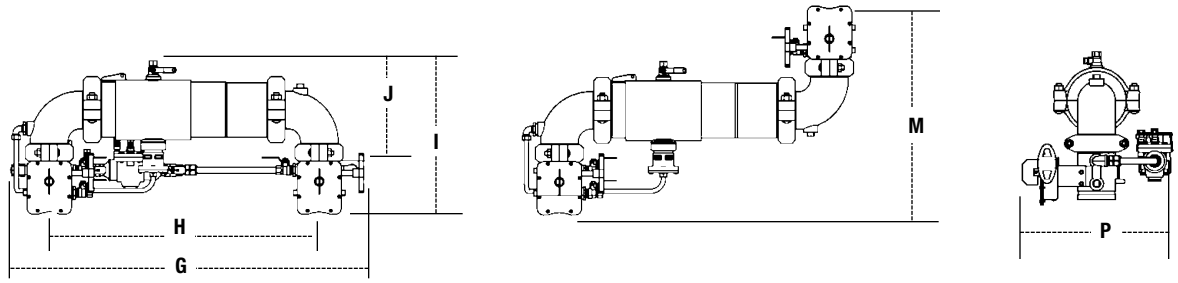
Approvals

1047 B64.4 (BFG & OSY only)



LF957RPDA0SY

SIZE	DIMENSIONS																		WEIGHT			
	A		C (OSY)		D		G		H		I		J		M		P		957RPDA		957NRPDA	
in.	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lbs.*	*kgs*	*lbs.*	*kgs*
2½	31	787	16⅜	416	6½	165	29 1/16	738	22	559	15½	393	8 3/16	223	21 9/16	548	13 3/16	335	142	64	150	68
3	31 11/16	805	18⅞	479	6 11/16	170	30¼	768	22¾	578	17⅛	435	9 3/16	233	23⅛	587	14½	368	162	73	175	79
4	33 11/16	856	22¾	578	7	178	33	838	24	610	18½	470	9 5/16	252	26½	673	15 3/16	386	178	81	201	91
6	43½	1105	30⅛	765	8½	216	44¾	1137	33¾	857	23 3/16	589	13 1/16	332	32¾	832	19	483	312	142	353	160
8	50	1270	37¾	959	9 1/16	246	54⅛	1375	40⅝	1032	27 7/16	697	15 11/16	399	37⅛	943	21 3/16	538	497	225	572	259
10	57½	1460	45¾	1162	11 3/16	285	66	1676	50	1270	32½	826	17 5/16	440	46⅜	1178	24	610	797	362	964	437



LF957RPDABFG

SIZE	DIMENSIONS												WEIGHT	
	G		H		I		J		M		P		957RPDABFG	
in.	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*in.*	*mm*	*lbs.*	*kgs*
2½	32½	826	23½	597	15½	394	9½	241	21 13/16	555	15 13/16	402	81	37
3	34	864	24½	622	16 5/16	414	10 1/16	256	23⅛	587	16⅛	410	84	38
4	35⅝	905	26	660	17 3/16	437	10 15/16	279	24 15/16	634	16⅝	422	101	46
6	46½	1181	35 12/16	908	20½	521	13½	343	28¼	718	19	483	174	79

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

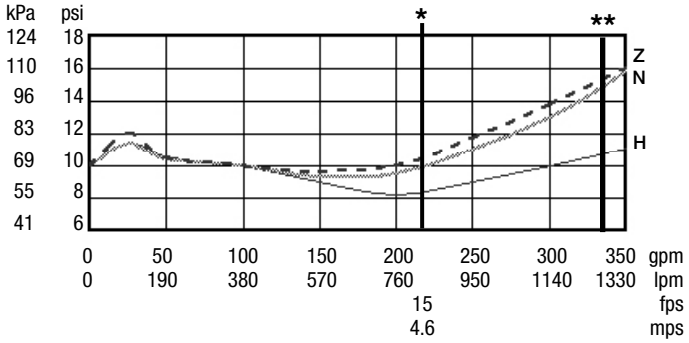
Capacity

Series LF957RPDA, LF957NRPDA, LF957ZRPDA flow curves as tested by Underwriters Laboratory per UL 1469, 1996.
Flow characteristics collected using butterfly shutoff valves

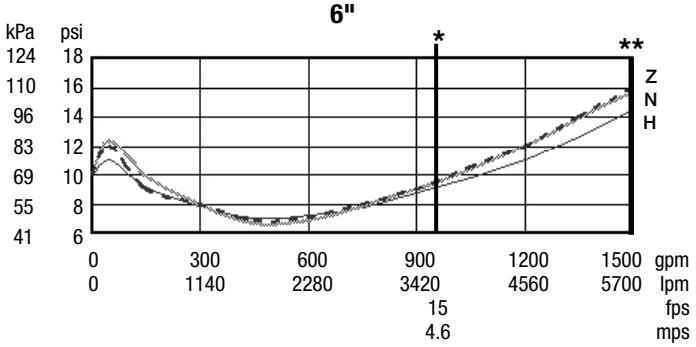
** = Rated flow *** = UL Rated flow

Horizontal N-Pattern Z-Pattern

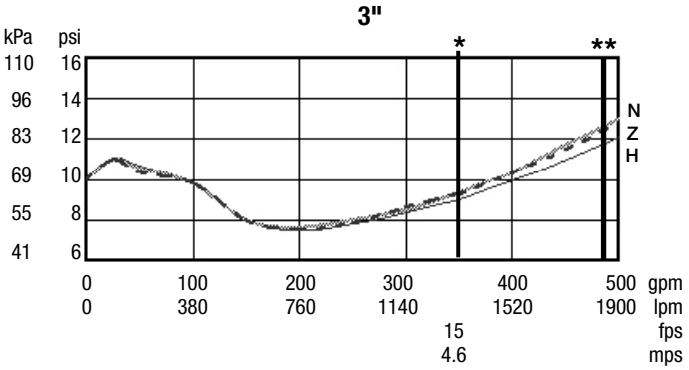
2½"



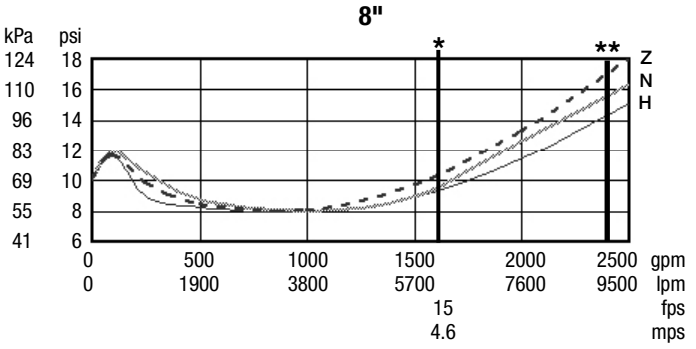
6"



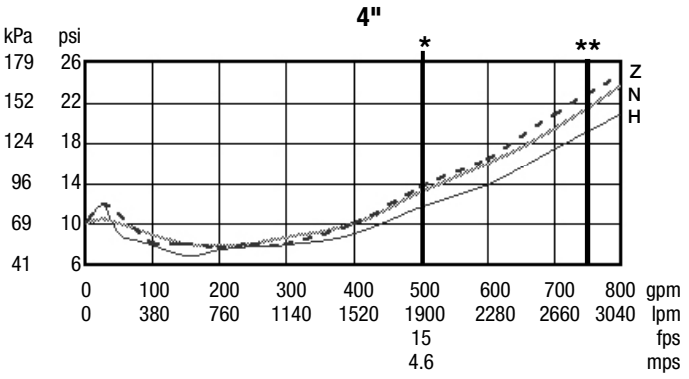
3"



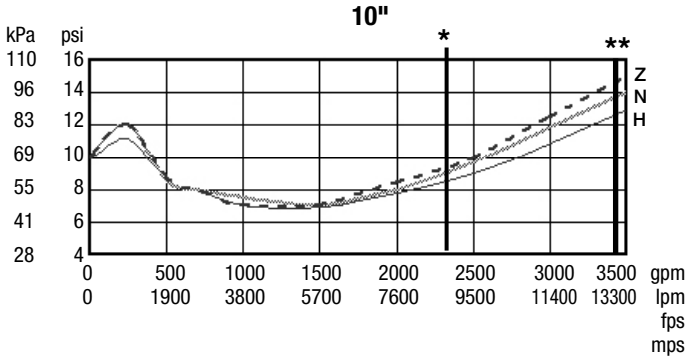
8"



4"



10"



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