Job Name	Contractor
Job Location	Approval
Engineer	Contractor's P.O. No.
Approval	Representative

LEAD FREE*

Colt[™] Series LFC500 (LF Colt 500), LFC500N (LF Colt 500N), LFC500Z (LF Colt 500Z)

Reduced Pressure Detector Assemblies

Sizes: 21/2" - 10"

The Colt LFC500, LFC500N, LFC500Z Reduced Pressure Detector Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The Colt LFC500, LFC500N, LFC500Z are normally used in health-hazard applications to protect against backsiphonage, backpressure and the fouling of either check valve. The Colt LFC500, LFC500N, LFC500Z are used to monitor unauthorized use of water from the fire protection system. The Colt LFC500, LFC500N, LFC500Z feature Lead Free* construction to comply with Lead Free* installation requirements.

Features

- Extremely Compact Design
- 70% Lighter than Traditional Designs
- 304 (Schedule 40) Stainless Steel Housing & Sleeve
- Groove Fittings Allow Integral Pipeline Adjustment
- Patented Link 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

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.

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



LFC500N OSY (LF Colt 500N OSY)



LFC500 OSY (LF Colt 500 OSY)

Specifications

The Colt LFC500, LFC500N, LFC500Z Reduced Pressure Detector Assemblies shall consist of two independent Link Check modules, a differential pressure relief valve located between and below the two modules, two drip tight shutoff valves, and required test cocks. Link Check modules and relief valve shall be contained within a sleeve accessible single housing constructed from 304 (Schedule 40) stainless steel pipe with groove end connections. Link Checks shall have reversible elastomer discs and in operation produce drip tight closure against the reverse flow of liquid caused by backpressure or backsiphonage. The bypass assembly consists of a meter registering either gallon or cubic measurements, a reduced pressure zone assembly and required test cocks. Assembly shall be Colt LFC500, LFC500N, LFC500Z as manufactured by the Ames Fire & Waterworks.



Configurations

- Horizontal
- "Z" pattern horizontal
- "N" pattern horizontal

Materials

• Housing & Sleeve: 304 (Schedule 40) Stainless Steel

Elastomers: EPDM, Silicone and Buna-N
Link Checks: Noryl®, Stainless Steel
Check Discs: Reversible Silicone or EPDM
Test Cocks: Lead Free* Bronze Body

• 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)

Available Models

Suffix:

OSY - UL/FM outside stem and yoke resilient

seated gate valves

BFG - UL/FM grooved gear operated butterfly valves w/

tamper switch

*OSY FxG - Flanged inlet gate connection and grooved

outlet gate connection

*OSY GxF - Grooved inlet gate connection and flanged

outlet gate connection

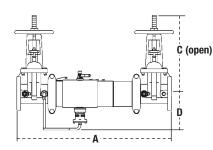
*OSY GxG - Grooved inlet gate connection and grooved

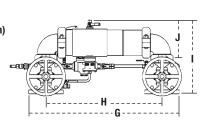
outlet gate connection

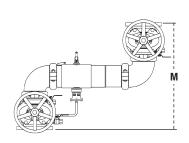
Available with grooved NRS gate valves - consult factory*
Post indicator plate and operating nut available - consult factory*

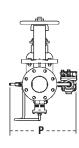
*Consult factory for dimensions.

Dimensions - Weights



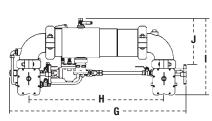


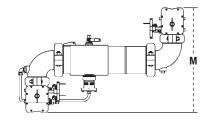


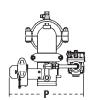


LFC500, LFC500N, LFC500Z

SIZE	E DIMENSIONS																			WEI	GHT	
	1	A C (OSY))	G		Н		I		J		M		P		C500		C500N		
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
21/2	30¾	781	16%	416	61/2	165	291/16	738	21½	546	15½	393	813/16	223	211/4	540	133/16	335	142	64	150	68
3	31¾	806	187//8	479	611/16	170	301/4	768	221/4	565	171//8	435	93/16	233	23	584	141/2	368	162	73	175	79
4	33¾	857	223/4	578	7	178	33	838	23½	597	18½	470	915/16	252	261/4	667	153/16	386	178	81	201	91
6	431/2	1105	301//8	765	81/2	216	443/4	1137	331/4	845	23¾16	589	131/16	332	321/4	819	19	483	312	142	353	160
8	49¾	1264	37¾	959	911/16	246	541//8	1375	401//8	1019	277/16	697	1511/16	399	367//8	937	213/16	538	497	225	572	259
10	57¾	1467	45¾	1162	113/16	285	66	1676	491/2	1257	321/2	826	175/16	440	441/2	1124	24	610	797	362	964	437







LFC500NBFG, LFC500ZBFG

SIZE	DIMENSIONS WEIGH													
	G		G H		I		J		М		Р		C500BFG	
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
21/2	321/2	826	23	584	15½	394	91/2	241	19¾	502	15 ¹³ / ₁₆	402	81	37
3	34	864	24	610	16 5⁄16	414	101/16	256	211/4	540	16½	410	84	38
4	35%	905	25½	648	173/16	437	10 ¹⁵ / ₁₆	279	231/2	597	16%	422	101	46
6	461/2	1181	351/4	895	201/2	521	13½	343	271/4	692	19	483	174	79

Approvals

AWWA C511-97

Approved by the Foundation for Cross-Connection Control and Hydraulic Research at The University of Southern California (FCCCHR-USC)

• (OSY only, 'N' and 'Z' excludes sizes 6"-10")

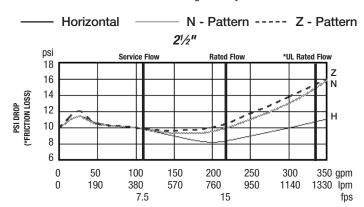


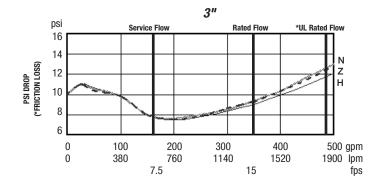
For additional approval information please contact the factory or visit our website at www.amesfirewater.com

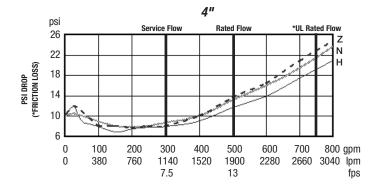
Capacity

UL/FM Certified Flow Characteristics

N&Z Flow characteristics collected using butterfly shutoff valves.

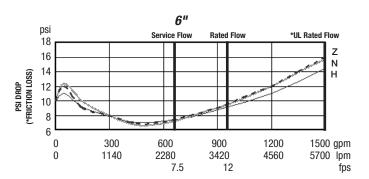


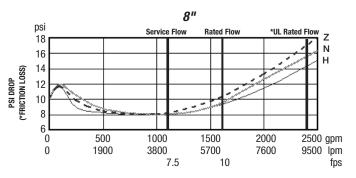


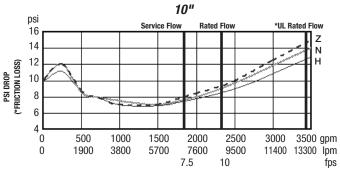


Flow capacity chart identifies valve performance based upon rated water velocity up to 25fps

- Service Flow is typically determined by a rated velocity of 7.5fps based upon schedule 40 pipe.
- Rated Flow identifies maximum continuous duty performance determined by AWWA.
- UL Flow Rate is 150% of Rated Flow and is not recommended for continuous duty.
- AWWA Manual M22 [Appendix C] recommends that the maximum water velocity in services be not more than 10fps.







NOTICE



A **WATTS** Brand

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