

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

LEAD FREE*

Colt™ Series LFC300 (LFColt 300), LFC300N (LFColt 300N)

Double Check Detector Assemblies

Sizes: 2½" – 10"

The Colt LFC300, LFC300N Double Check Detector Assemblies are used to prevent backflow of pollutants, that are objectionable but not toxic, from entering the potable water supply system. The Colt LFC300, LFC300N may be installed under continuous pressure service and may be subjected to backpressure. The Colt LFC300, LFC300N is used primarily on fire line sprinkler systems when it is necessary to monitor unauthorized use of water. For use in non-health hazard applications.

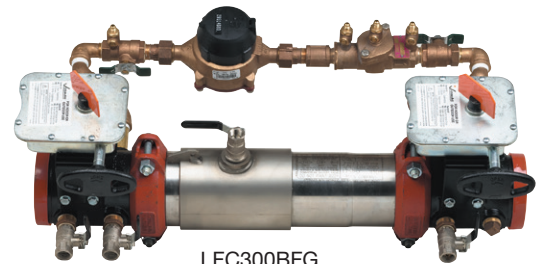
Features

- Extremely Compact Design
- 70% Lighter than Traditional Designs
- 304 (Schedule 40) Stainless Steel Housing & Sleeve
- Groove Fittings Allow Integral Pipeline Adjustment
- Patented Tri-Link Check Provides Lowest Pressure Loss
- Unmatched Ease of Serviceability
- Available with Grooved Butterfly Valve Shutoffs
- May be Used for Horizontal, Vertical or N Pattern Installations
- Replaceable Check Disc Rubber

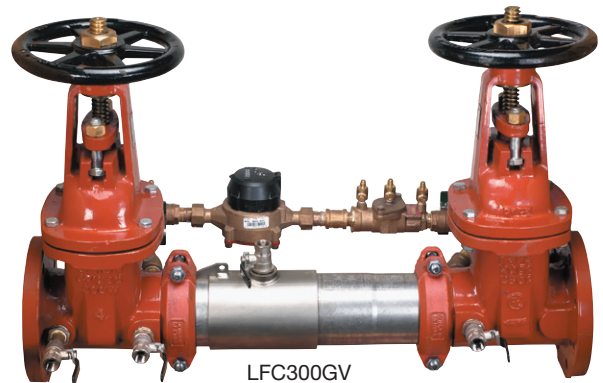
Specifications

The Colt LFC300, LFC300N Double Check Detector Assemblies shall consist of two independent Tri-Link Check modules within a single housing, sleeve access port, four test cocks and two drip tight shutoff valves. Tri-Link Checks shall be removable and serviceable, without the use of special tools. The housing shall be constructed of 304 (Schedule 40) stainless steel pipe with groove end connections. Tri-Link Checks shall have reversible elastomer discs and in operation shall produce drip tight closure against the reverse flow of liquid caused by backpressure or backsiphonage. The bypass assembly shall consist of a meter, which registers in either gallon or cubic measurement, a double check valve assembly and required test cocks. Assembly shall be a Colt LFC300, LFC300N as manufactured by the Ames Fire & Waterworks.

** Metric Dimensions are nominal pipe diameter. This product is produced with ASME/ANSI flanged end connections.



LFC300BFG
(LFColt 300BF)



LFC300GV
(LFColt 300GV)

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.

Ames Fire & Waterworks product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Ames Fire & Waterworks Technical Service. Ames Fire & Waterworks reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Ames Fire & Waterworks products previously or subsequently sold.


AMES
 FIRE & WATERWORKS
A WATTS Brand

Configurations

- Horizontal
- Vertical up
- “N” pattern horizontal

Materials

Housing & Sleeve: 304 (Schedule 40) Stainless Steel
 Elastomers: EPDM, Silicone and Buna ‘N’
 Tri-Link Checks: Noryl®, Stainless Steel
 Check Discs: Reversible Silicone or EPDM
 Test Cocks: Lead Free* Copper Silicon Alloy Body
 Nickel Plated
 Pins & Fasteners: 300 Series Stainless Steel
 Springs: Stainless Steel

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*

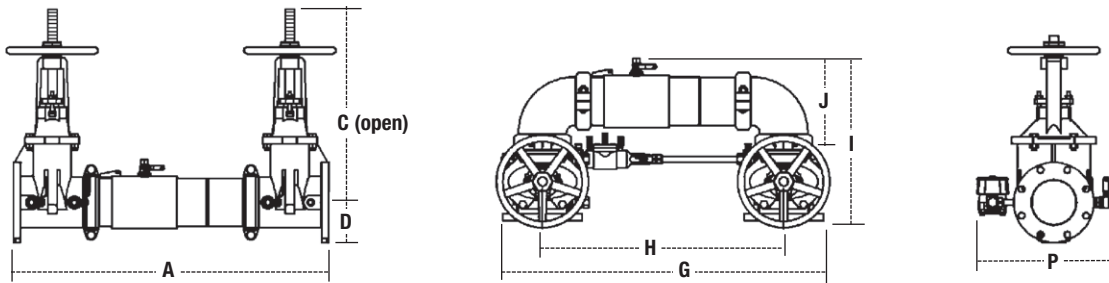
*Consult factory for dimensions

Pressure – Temperature

Temperature Range: 33°F – 110°F (5°C – 43°C)

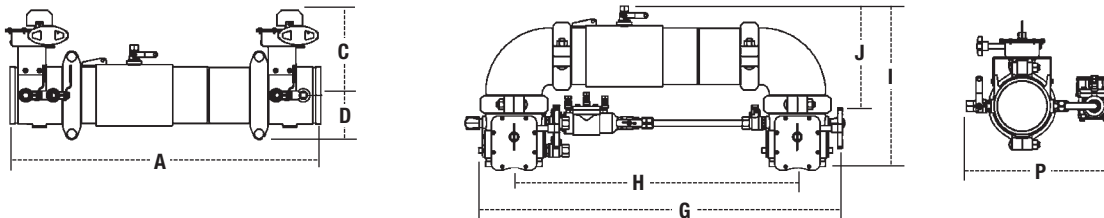
Maximum Working Pressure: 175psi (12.06 bar)

Dimensions – Weights



LFC300, LFC300N

SIZE		DIMENSIONS										WEIGHT									
		A		C (OSY)		D		G		H		I		J		P		LFC300		LFC300N	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2½	30¾	781	16¾	416	3½	89	29½	738	21½	546	15½	393	8½	223	13¾	335	139	63	147	67	
3	31¾	806	18¾	479	3½	94	30¾	768	22¼	565	17½	435	9½	233	14½	368	159	72	172	78	
4	33¾	857	22¾	578	4	102	33	838	23½	597	18½	470	9½	252	15¾	386	175	79	198	90	
6	43½	1105	30¾	765	5½	140	44¾	1137	33¾	845	23¾	589	13½	332	19	483	309	140	350	159	
8	49¾	1264	37¾	959	6½	170	54½	1375	40¾	1019	27½	697	15½	399	21¾	538	494	224	569	258	
10	57¾	1467	45¾	1162	8½	208	66	1676	49½	1257	32½	826	17¾	440	24	610	795	361	965	438	



LFC300BFG, LFC300NBFG

SIZE		DIMENSIONS										WEIGHT									
		A		C		D		G		H		I		J		P		LFC300BFG		LFC300NBFG	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.	lbs.	kgs.
2½	27¾	705	8	203	3½	89	29¾	759	21½	546	14½	379	8½	223	13	330	70	32	78	35	
3	28¾	718	8½	211	3½	94	30½	779	22¼	565	15½	392	9½	233	13½	343	68	31	81	37	
4	29	737	8½	227	3½	94	31½	811	23½	597	16¼	412	9½	252	14	356	75	34	98	44	
6	36½	927	10	254	5	127	43¾	1097	33¾	845	19½	500	13½	332	14½	368	131	59	171	78	
8	42¾	1086	12¼	311	6½	165	51½	1297	40¾	1019	23¾	592	15½	399	18¾	462	275	125	351	159	

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

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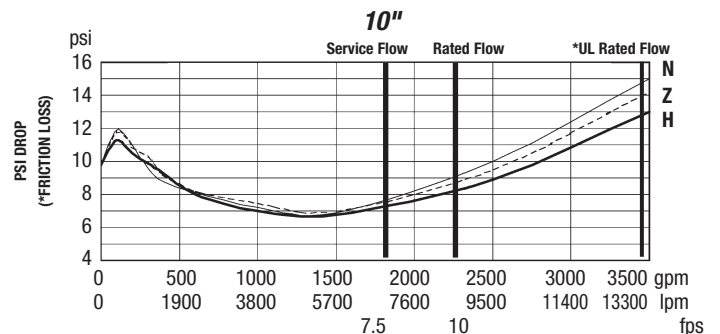
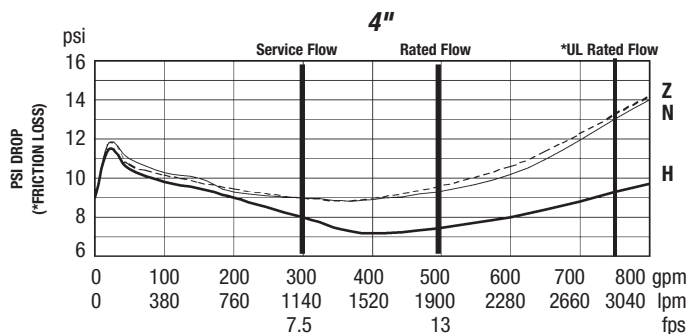
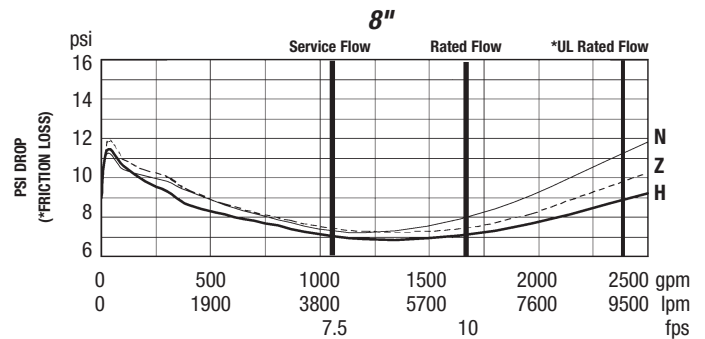
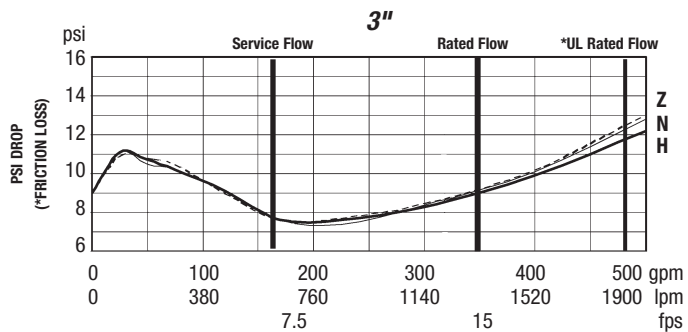
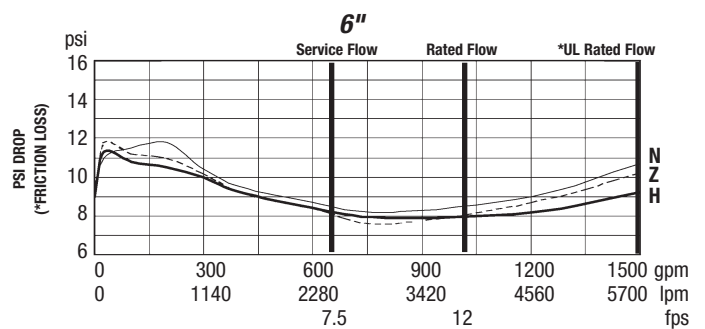
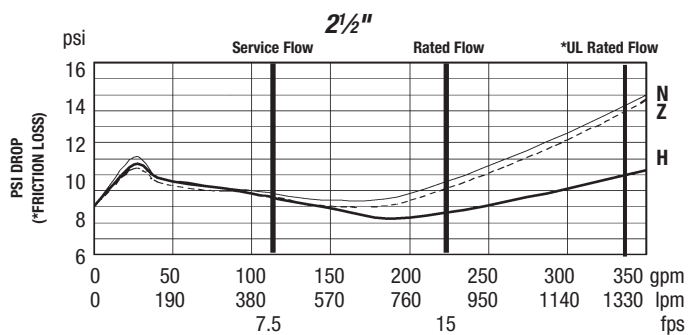
Approvals

- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at The University of Southern California (FCCCHR-USC)
- AWWA C510-97

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



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



Capacity

UL/FM Certified Flow Characteristics

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

Inquire with governing authorities for local installation requirements



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