

Job Name \_\_\_\_\_  
 Job Location \_\_\_\_\_  
 Engineer \_\_\_\_\_  
 Approval \_\_\_\_\_

Contractor \_\_\_\_\_  
 Approval \_\_\_\_\_  
 Contractor's P.O. No. \_\_\_\_\_  
 Representative \_\_\_\_\_

# Colt™ Series C300 (Colt 300), C300N (Colt 300N)

## Double Check Detector Assemblies

Sizes: 2½" – 10"

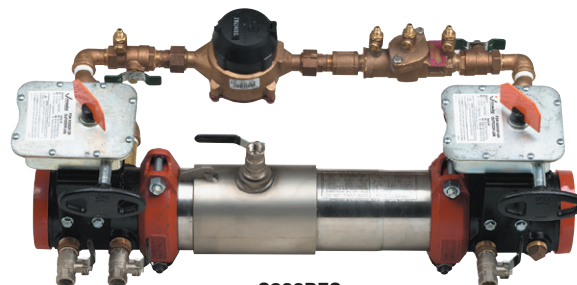
The Colt C300, C300N Double Check Detector Assemblies are designed to protect drinking water supplies from dangerous cross-connections in accordance with national plumbing codes and water authority requirements for non-potable service applications such as irrigation, fire line, or industrial processing. The Colt C300, C300N may be installed under continuous pressure service and may be subjected to backpressure for non-toxic applications. The Colt C300, C300N 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

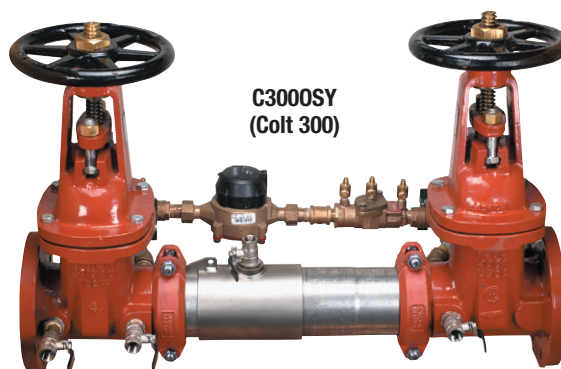
- Extremely Compact Design
- 70% Lighter than Traditional Designs
- 304 (Schedule 40) Stainless Steel Housing & Sleeve
- Groove Fittings Allow Integral Pipeline Adjustment
- Patented Tri-Link Check Provides Lowest Pressure Loss
- Unmatched Ease of Serviceability
- Available with Grooved Butterfly Valve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

### Specifications

The Colt C300, C300N 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 Check 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 C300, C300N as manufactured by the Ames Fire & Waterworks.



**C300BFG  
(Colt 300BF)**



**C3000SY  
(Colt 300)**

### ⚠ WARNING

It is illegal to use this product in any plumbing system providing water for human consumption, such as drinking or dishwashing, in the United States. Before installing standard material product, consult your local water authority, building and plumbing codes.

### 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.

## 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\* Bronze Body
- 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 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\*

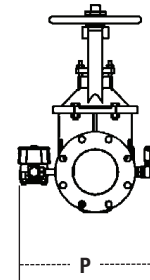
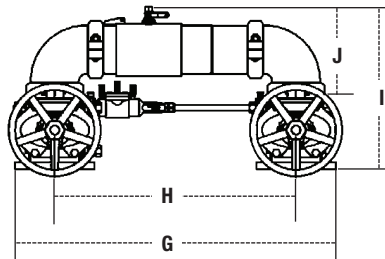
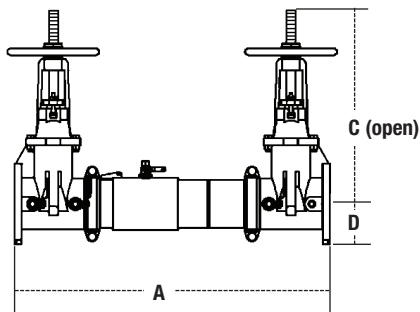
\*Consult factory for dimensions

## Dimensions — Weights

## Pressure – Temperature

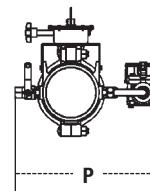
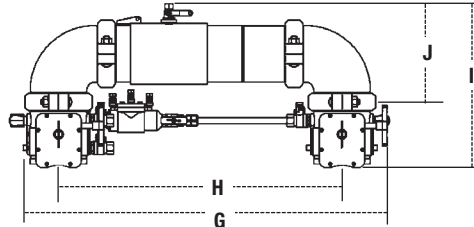
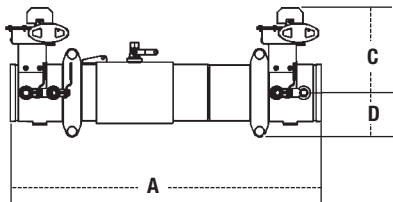
Temperature Range: 33°F – 140°F (0.5°C – 60°C)

Maximum Working Pressure: 175psi (12.1 bar)



### C300, C300N

SIZE			DIMENSIONS												WEIGHT							
			A		C (OSY)		D		G		H		I		J		P		C300		C300N	
<i>in.</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>		
2½	30¾	781	16¾	416	3½	89	29⅞	738	21½	546	15½	393	8⅜	223	13⅞	335	139	63	147	67		
3	31¾	806	18⅞	479	3⅞	94	30¼	768	22¼	565	17⅞	435	9⅞	233	14½	368	159	72	172	78		
4	33¾	857	22¼	578	4	102	33	838	23½	597	18½	470	9⅞	252	15⅞	386	175	79	198	90		
6	43½	1105	30⅞	765	5½	140	44¼	1137	33¼	845	23⅞	589	13⅞	332	19	483	309	140	350	159		
8	49¾	1264	37¼	959	6⅞	170	54⅞	1375	40⅞	1019	27⅞	697	15⅞	399	21⅞	538	494	224	569	258		
10	57¾	1467	45¼	1162	8⅞	208	66	1676	49½	1257	32½	826	17⅞	440	24	610	795	361	965	438		



### C300BFG, C300NBFG

SIZE		DIMENSIONS												WEIGHT							
		A		C		D		G		H		I		J		P		C300BFG		C300NBFG	
<i>in.</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>
2½	27¾ 705	8	203	3½	89	29⅞	759	21½	546	14⅝ <sub>16</sub>	379	8⅜ <sub>16</sub>	223	13	330	70	32	78	35		
3	28¾ 718	8⅞ <sub>16</sub>	211	3⅞ <sub>16</sub>	94	30⅞ <sub>16</sub>	779	22¼	565	15⅞ <sub>16</sub>	392	9⅞ <sub>16</sub>	233	13½	343	68	31	81	37		
4	29 737	8⅝ <sub>16</sub>	227	3⅞ <sub>16</sub>	94	31⅝ <sub>16</sub>	811	23½	597	16¼	412	9⅝ <sub>16</sub>	252	14	356	75	34	98	44		
6	36½ 927	10	254	5	127	43⅞ <sub>16</sub>	1097	33¼	845	19⅞ <sub>16</sub>	500	13⅞ <sub>16</sub>	332	14½	368	131	59	171	78		
8	42¾ 1086	12¼	311	6½	165	51⅞ <sub>16</sub>	1297	40⅞ <sub>16</sub>	1019	23⅞ <sub>16</sub>	592	15⅞ <sub>16</sub>	399	18⅞ <sub>16</sub>	462	275	125	351	159		

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

## 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](http://www.amesfirewater.com)



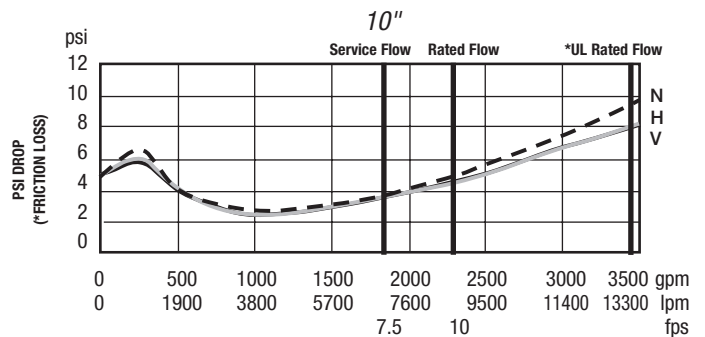
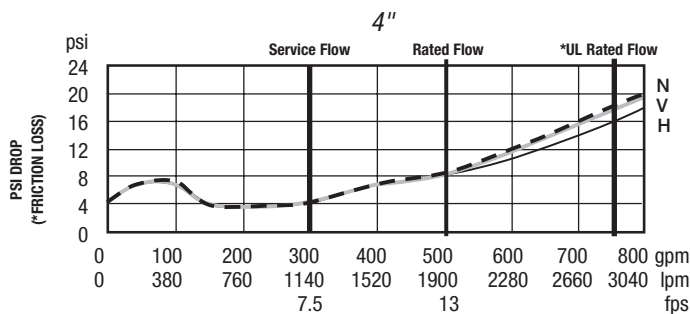
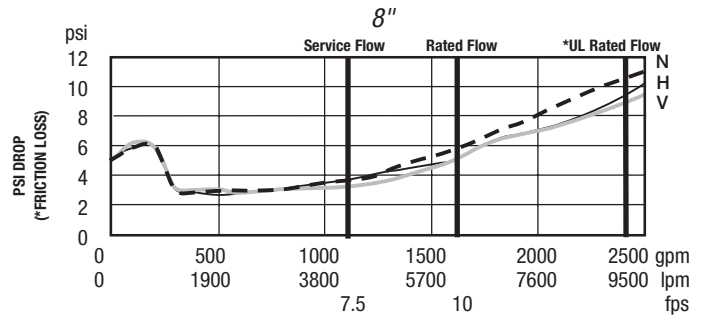
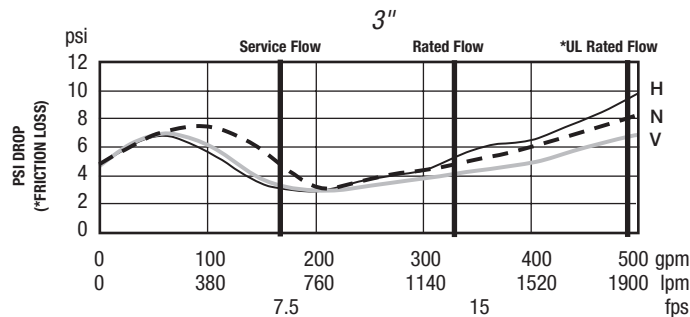
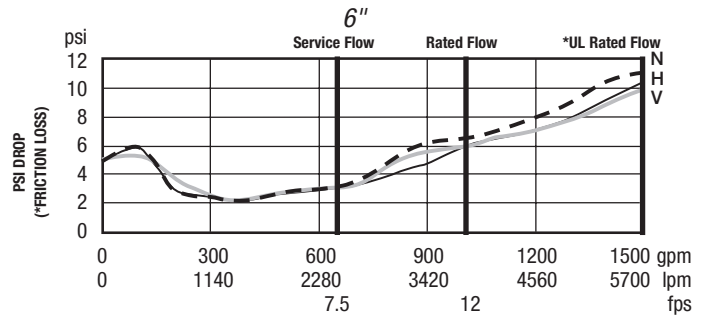
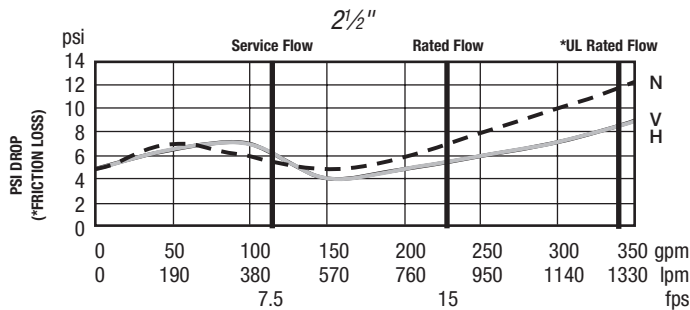
## Capacity

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



**A WATTS Brand**