Engineering Specification

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

LEAD FREE*

Colt[™] Series C200, C200N

Double Check Valve Assemblies

Sizes: 21/2" - 10"

The Colt C200 and C200N Double Check Valve Assemblies are used to prevent backflow of pollutants, objectionable but not toxic, from entering the potable water supply system. The Colt C200 and C200N may be installed under continuous pressure service and may be subjected to backpressure. Both assemblies consist of two independently operating check valves, two shutoff valves, and four test cocks, and are designed for use in non-health hazard applications. The Colt C200 and C200N 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 tri-link check provides lowest pressure loss
- Unmatched ease of serviceability
- · Available with grooved butterfly valve shutoffs
- Available for horizontal, vertical or N pattern installations
- Replaceable check disc rubber
- Includes an integrated supervisory tamper switch on each gate valve of the OSY model

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 Colt C200, C200N Double Check Valve Assembly 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 integrated supervisory tamper switch on the OSY model shall have continuity with the valve fully open and activate within two (2) turns from open. The device consists of two SPDT switches and is designed to send a tamper signal when the valve is closed and when the switch is removed from the valve. In the neutral position, the switch indicates the valve is fully open. Closing the valve causes the switch rod to come out of the valve stem groove, activating the switch. Removing the tamper switch also activates the switch.

Lead Free* Double Check Valve Assembly shall be constructed using Lead Free* materials. It shall comply with state codes and standards, where applicable, requiring reduced lead content. Assembly shall be an Ames Fire & Waterworks Colt C200, C200N.



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

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:

BFG

NRS – Non-rising stem resilient seated gate valves

OSY-TS - UL/FM outside stem and yoke, resilient

seated gate valves with integrated tamper switch

- 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

** Consult factory for the following:

- Grooved NRS gate valves

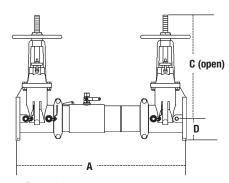
- Post-indicator plate and operating nut

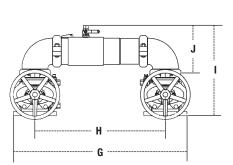
- Dimensions

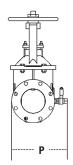
Pressure - Temperature

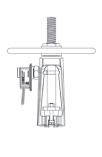
Temperature Range: 33°F – 140°F (0.5°C – 60°C) Maximum Working Pressure: 175 psi (12.1 bar)

Dimensions - Weights



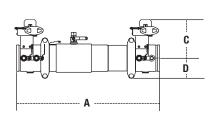


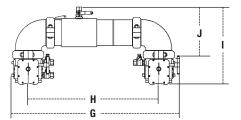


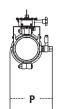


C200, C200N

SIZE	DIMENSIONS															WEIGHT									
	А		C (OSY)		C (NRS)		D		G		Н		ı		J		Р		C200NRS		C2000SY		C200N NRS		C200N OSY
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb	kg	lb	kg	lb	kg	lb kg
21/2	30¾	781	16%	416	9%	238	31/2	89	291/16	738	21½	546	15½	393	813/16	223	93/16	234	115	52	130	59	123	56	138 62
3	31¾	806	187/8	479	101/4	260	311/16	94	301/4	768	221/4	565	171//8	435	93/16	233	10½	267	131	59	150	68	144	65	163 74
4	33¾	857	223/4	578	12 ³ ⁄ ₁₆	310	4	102	33	838	23½	597	18½	470	915/16	252	113/16	284	161	73	166	75	184	83	189 85
6	431/2	1105	301//8	765	16	406	51/2	140	443/4	1137	331/4	845	23 ³ ⁄16	589	131/16	332	15	381	273	124	300	136	314	142	341 154
8	49¾	1264	37¾	959	19 ¹⁵ ⁄ ₁₆	506	6 ¹¹ / ₁₆	170	541//8	1375	401//8	1019	27 ⁷ /16	697	15 ¹¹ / ₁₆	399	173/16	437	438	199	485	220	513	233	560 254
10	573/4	1467	45¾	1162	2313/16	605	83/16	208	66	1676	491/2	1257	321/2	826	175/16	440	20	508	721	327	786	356	891	404	956 433







C200BFG, C200NBFG

SIZE	DIMENSIONS																WEIGHT			
	А		С		D		G		Н		I		J		Р		C200BFG		C200NBFG	
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb	kg	lb	kg
21/2	27¾	705	8	203	31/2	89	297/8	759	21½	546	14 ¹⁵ / ₁₆	379	813/16	223	9	229	56	25	64	29
3	281/4	718	85/16	211	311/16	94	3011/16	779	221/4	565	15 ⁷ / ₁₆	392	93/16	233	91/2	241	54	24	67	30
4	29	737	815/16	227	311/16	94	31 ¹⁵ ⁄ ₁₆	811	231/2	597	16½	412	915/16	252	10	254	61	28	84	38
6	36½	927	10	254	5	127	433/16	1097	331/4	845	19 ¹¹ / ₁₆	500	131/16	332	10½	267	117	53	157	71
8	42¾	1086	121/4	311	6½	165	51 ½16	1297	401//8	1019	235/16	592	1511/16	399	143/16	361	261	118	337	153

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, contact the factory or check Ames Fire & Waterworks at watts.com.











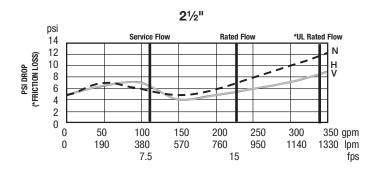
(**BFG & OSY Only)

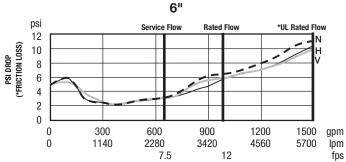
Capacity

UL/FM Certified Flow Characteristics

Flow characteristics collected using butterfly shutoff valves

_Vertical ____ N - Pattern Horizontal





Flow capacity chart identifies valve performance based upon

Rated Flow identifies maximum continuous duty performance

AWWA Manual M22 [Appendix C] recommends that the maximum water velocity in services be not more than 10fps.

UL Flow Rate is 150% of Rated Flow and is not recommended

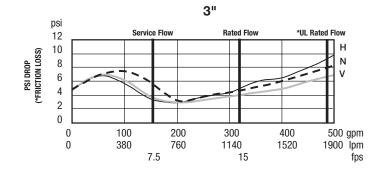
· Service Flow is typically determined by a rated velocity of

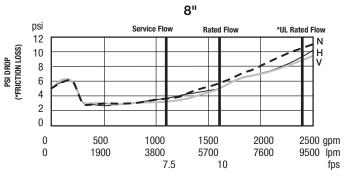
rated water velocity up to 25fps.

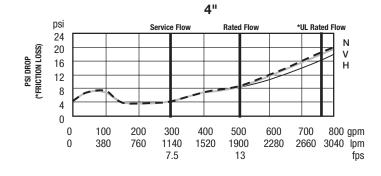
determined by AWWA.

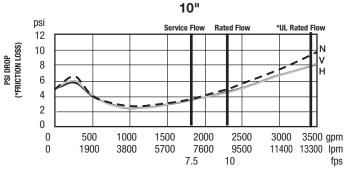
for continuous duty.

7.5fps based upon schedule 40 pipe.











A WATTS Brand

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