

Model C400 / C400N / C400Z Reduced Pressure Zone Assembly 2-1/2" to 10"

Available Models

Suffix:

- NRS – non-rising stem resilient seated gate valves
- OSY – UL/FM outside stem and yoke resilient seated gate valves
- BFG – UL/FM grooved gear operated butterfly valves with tamper switch

5
Ames

Configurations

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

COLT SERIES

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
- Available with Grooved Butterfly Valve Shutoffs
- May be Used for Horizontal, Vertical or N Pattern Installations
- Replaceable Check Disc Rubber

Specifications

The Colt C400/C400N/C400Z Reduced Pressure Zone 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. Link Checks shall produce drip tight closure against the reverse flow of liquid caused by backpressure or backsiphonage.

Approvals

ASSE 1013, UL Listed 28S6, CSA B64.5, FM Approved

Installation

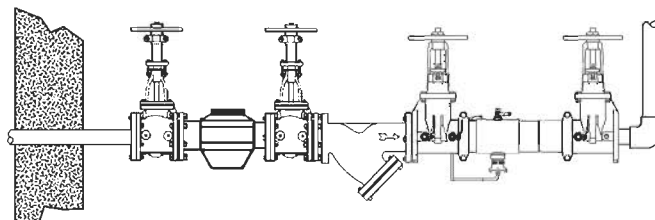
The system should be flushed before valve installation. The valve should be installed in accordance with the local water authority. The valve should be installed a minimum of 12" from the ground, with adequate clearance for testing and maintenance. Valve should be protected from freezing. Vault installations are not recommended. The C400 Series valve should be tested by a certified tester at the time of installation.

Pressure — Temperature

Temperature Range: 33°F – 140°F
Maximum Working Pressure: 175psi

Materials

- Housing & Sleeve: 304 Stainless Steel
- Elastomers: EPDM, Silicone and Buna 'N'
- Link Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel



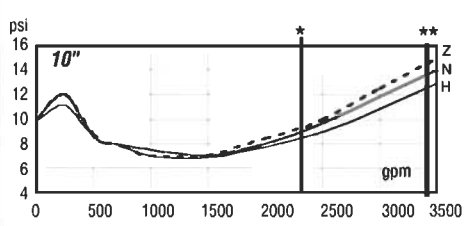
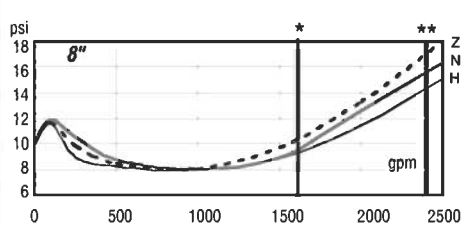
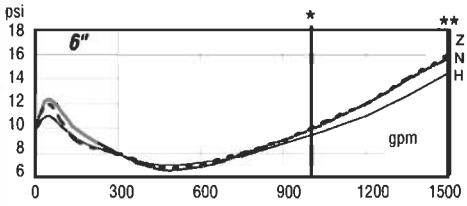
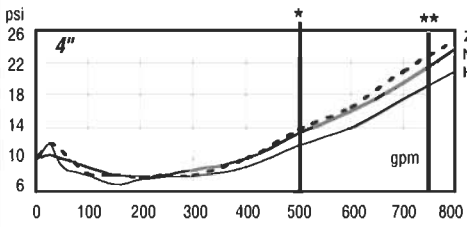
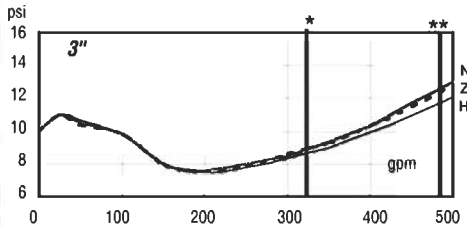
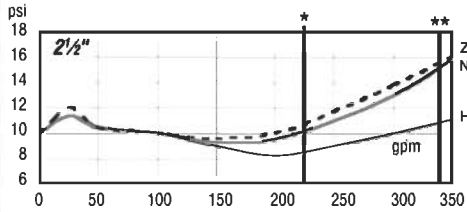
Horizontal Installation

Colt Series 400 & 500 Models

Flow Curves

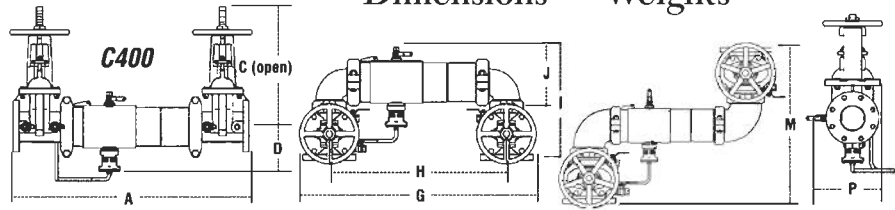
* = Rated Flow ** = UL Tested

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

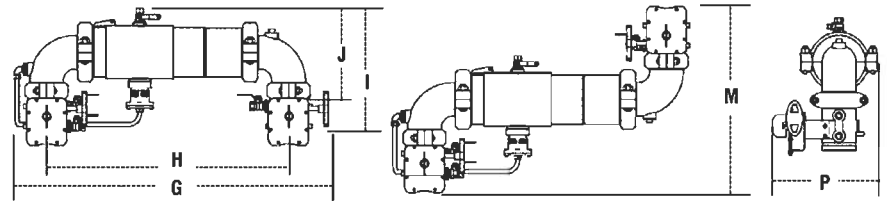


**Repair Parts
follow the next
page**

Dimensions — Weights

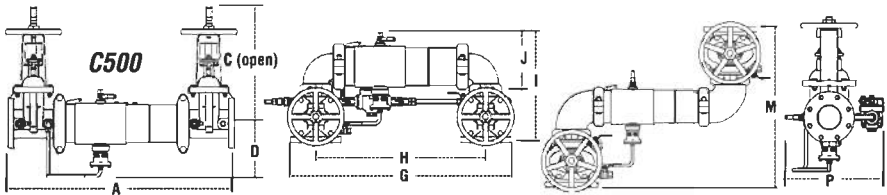


SIZE (DN)	DIMENSIONS											WEIGHT			
	A	C (OSY)	C (NRS)	D	G	H	I	J	M	P	C400		C400N		
											NRS	OSY	NRS	OSY	
2½	31	16¾	9¾	6½	29½	22	15½	8½	21½	9½	118	128	126	136	
3	31½	18¾	10¼	6½	30½	22¾	17½	9½	23½	10½	134	148	147	161	
4	33½	22¾	12½	7	33	24	18½	9½	26½	11½	164	164	187	187	
6	44	30½	16	8½	44¾	33¾	23½	13½	32¾	15	276	298	317	339	
8	50	37¾	19½	9½	54¾	40¾	27½	15½	37½	17½	441	483	516	558	
10	57½	45¾	23½	11½	66	50	32½	17½	46¾	20	723	783	893	950	

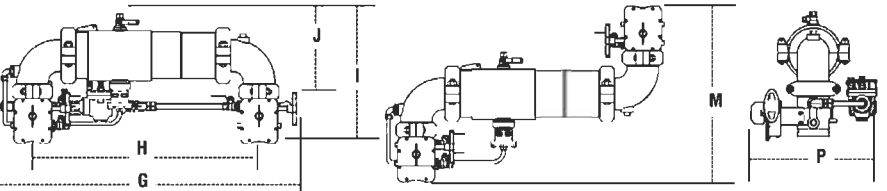


C400BFG

SIZE (DN)	DIMENSIONS						WEIGHT
	G	H	I	J	M	P	
2½	32½	23½	15½	9½	21½	11½	67
3	34	24½	16½	10½	23½	12½	70
4	35½	26	17½	10½	24½	12½	87
6	46½	35½	20½	13½	28¼	15	160



SIZE (DN)	DIMENSIONS											WEIGHT	
	A	C (OSY)	C (NRS)	D	G	H	I	J	M	P	C500	C500N	
2½	31	16¾	9¾	6½	29½	22	15½	8½	21½	13¾	142	150	
3	31½	18¾	10¼	6½	30½	22¾	17½	9½	23½	14½	162	175	
4	33½	22¾	12½	7	33	24	18½	9½	26½	15½	178	201	
6	44	30½	16	8½	44¾	33¾	23½	13½	32¾	19	312	353	
8	50	37¾	19½	9½	54¾	40¾	27½	15½	37½	21½	497	572	
10	57½	45¾	23½	11½	66	50	32½	17½	46¾	24	797	964	

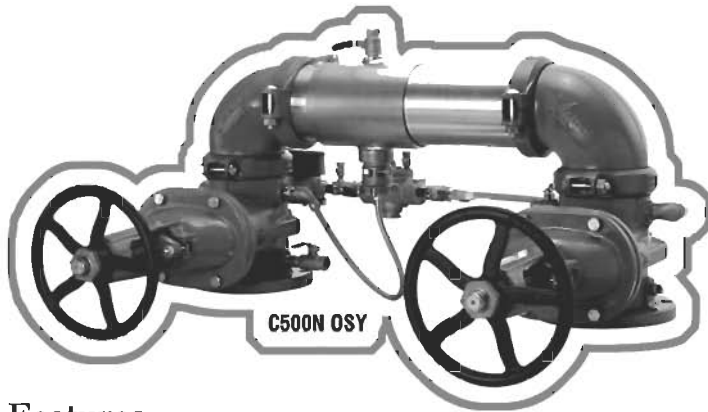


C500BFG

SIZE (DN)	DIMENSIONS						WEIGHT
	G	H	I	J	M	P	
2½	32½	23½	15½	9½	21½	15½	81
3	34	24½	16½	10½	23½	16½	84
4	35½	26	17½	10½	24½	16½	101
6	46½	35½	20½	13½	28¼	19	174

American Backflow Specialties

(800) 66-BKFLO (619) 527-2525 Fax: (619) 527-2527
www.americanbackflow.com



Model C500 / C500N / C500Z Reduced Pressure Zone Assembly 2-1/2" to 10"

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

Pressure — Temperature

Temperature Range: 33°F – 140°F
Maximum Working Pressure: 175psi

Materials

- Housing & Sleeve: 304 Stainless Steel
- Elastomers: EPDM, Silicone and Buna 'N'
- Link Checks: Noryl®, Stainless Steel
- Check Discs: Reversible Silicone or EPDM
- Test Cocks: Bronze 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



Configurations

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

Specifications

The Colt C500/C500N/C500Z 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 with groove end connections. The bypass assembly consists of a meter registering either gallon or cubic measurements, a reduced pressure zone assembly and required test cocks.

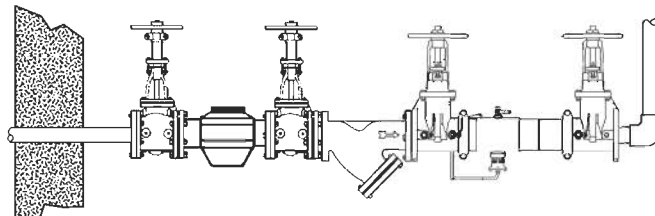
Approvals

ASSE 1047, UL Listed 28S6, CSA B64.5, FM Approved

Installation

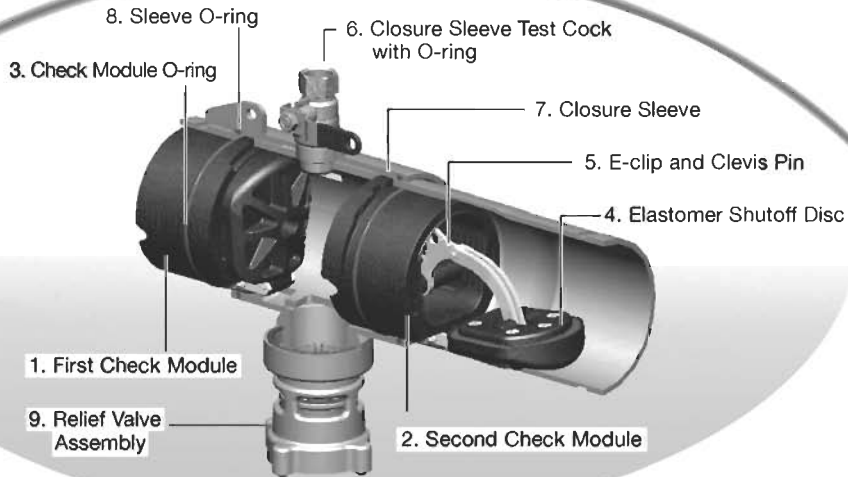
The system should be flushed before valve installation. The valve should be installed in accordance with the local water authority. The valve should be installed a minimum of 12" from the ground, with adequate clearance for testing and maintenance. Valve should be protected from freezing. Vault installations are not recommended. The C500 Series valve should be tested by a certified tester at the time of installation.

COLT SERIES



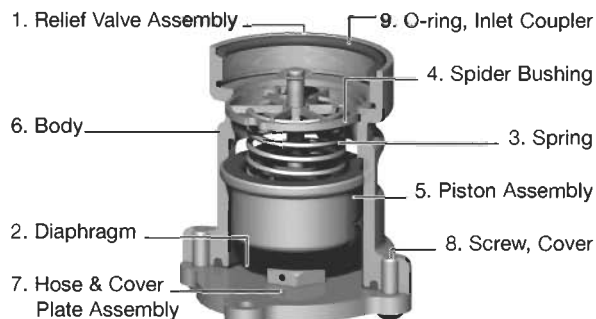
Horizontal Installation

Colt Series - Models C400/C400N/C400Z & C500/C500N/C500Z Replacement Parts



ITEM NO.	PART DESCRIPTION	2 1/2"	3"	4"	6"	8"	10"
1	FIRST CHECK MODULE	7018112	7018112	7018112	7018115	7018118	7018401
2	SECOND CHECK MODULE (a)	7018120	7018120	7018120	7018121	7018119	7018402
3	CHECK MODULE O-RING	7017861	7017861	7017861	7017910	7013301	7018352
4	ELASTOMER SHUTOFF DISC	7017855	7017855	7017855	7017903	7017928	7018348
	5GROOVED CLEVIS PIN KIT (CONTAINS: "E" CLIP & CLEVIS PIN) 5 PER PACK	7018126	7018126	7018126	7018127	7018127	7018412
6	CLOSURE SLEEVE TEST-COCK WITH O-RING	7018152	7018152	7018152	7018153	7018153	7018153
7	CLOSURE SLEEVE	7017881	7017881	7017881	7017883	7017885	7017887
8	SLEEVE O-RING or GASKET (2 REQ'D)	7017896	7017896	7017896	7017921	7017944	7018339
9	RELIEF VALVE ASSEMBLY	7018107	7018107	7018107	7018107	7018107	7018107
NS	CHECK REPAIR KIT (CONTAINS: O-RING, SHUTOFF DISC & "E" CLIP)	7018123	7018123	7018123	7018124	7018125	7018414
NS	"E" CLIP	7017870	7017870	7017870	7017821	7017821	7017974
NS	GROOVE COUPLER	7017994	7017995	7018147	7018148	7018149	7018070
NS	SLEEVE COUPLER ASSEMBLY	N/A	N/A	N/A	N/A	7018122	7018413
NS	AIRGAP DRAIN	7018367	7018367	7018367	7018367	7018367	7018367
NS	SPLASH GUARD	7018368	7018368	7018368	7018368	7018368	7018368
NS	TEST COCK, .50 FPT X FPT WITH NIPPLE	7018394	7018394	7018394	N/A	N/A	N/A
NS	TEST COCK, .75 FPT X FPT WITH NIPPLE	N/A	N/A	N/A	7018395	7018395	7018395
NS	O-RING, #3 TEST COCK	7017897	7017897	7017897	7017897	7017897	7017897
NS	STAINLESS STEEL CHECK RETAINER	7018408	7018408	7018408	7018409	7018410	7018411

Relief Valve Parts



ITEM NO.	PART DESCRIPTION	ORDERING CODE
1	RELIEF VALVE ASSEMBLY	7018107
2	DIAPHRAGM	7017809
3	SPRING	7017810
4	SPIDER BUSHING	7017811
5	PISTON ASSEMBLY	7018227
6	BODY	7017817
7	HOSE & COVER PLATE ASSEMBLY	7018228
8	SCREW, COVER	7017822
9	O-RING, INLET COUPLER	7017826
NS	SENSING ELBOW	03263004
NS	HOSE	0298120
NS	AIR GAP DRAIN	7018367
NS	SPLASH GUARD	7018368