

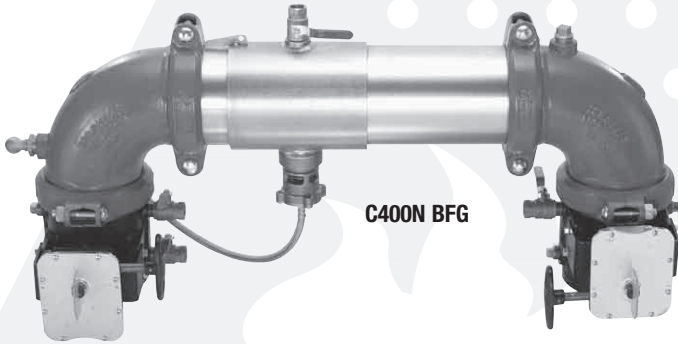


Colt™ Series C400, C400N, C400Z

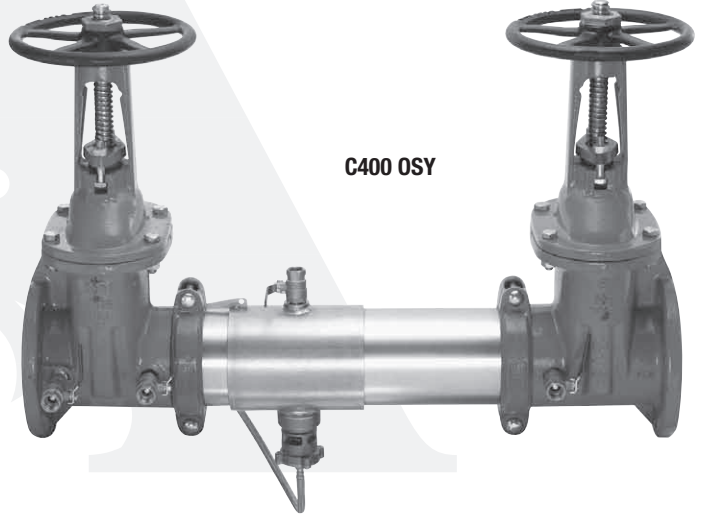
Reduced Pressure Zone Assemblies

Sizes: 2½" – 10" (65 – 250mm)

LEAD FREE*



C400N BFG



C400 OSY

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 or N Pattern Installations
- Replaceable Check Disc Rubber

The Colt C400, C400N, C400Z Reduced Pressure Zone Assemblies provide protection to the potable water system from contamination in accordance with national plumbing codes. The Colt C400, C400N, C400Z are normally used in health hazard applications for protection against backsiphonage, backpressure and the fouling of either check valve.

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 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. Assembly shall be Colt C400, C400N, C400Z as manufactured by the Ames Company.

*The wetted surface of this product contacted by consumable water contains less than one quarter of one percent (0.25%) of lead by weight.

IMPORTANT: INQUIRE WITH GOVERNING AUTHORITIES FOR LOCAL INSTALLATION REQUIREMENTS

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

Ames product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Ames Technical Service. Ames 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 products previously or subsequently sold.

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: Bronze Body Nickel Plated
- Pins & Fasteners: 300 Series Stainless Steel
- Springs: Stainless Steel

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

Approvals



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

Pressure — Temperature

Temperature Range: 33°F – 110°F (0.5°C – 43°C)
Maximum Working Pressure: 175psi (12.06 bar)

Note: When installing a drain line on Series C400 backflow preventer use 400/500 air gap. See ES-A-AG/EL/TC for additional information.

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

*OSY FxG - Flanged inlet gate connection and grooved outlet gate connection

*OSY GxF - Grooved inlet gate connection and flanged outlet gate connection

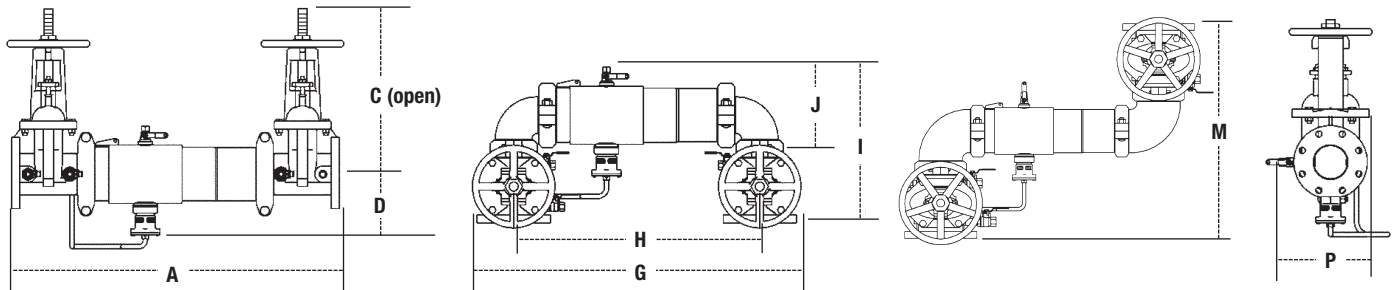
*OSY GxG - Grooved inlet gate connection and grooved outlet gate connection

Available with grooved NRS gate valves - consult factory*

Post indicator plate and operating nut available - consult factory*

*Consult factory for dimensions

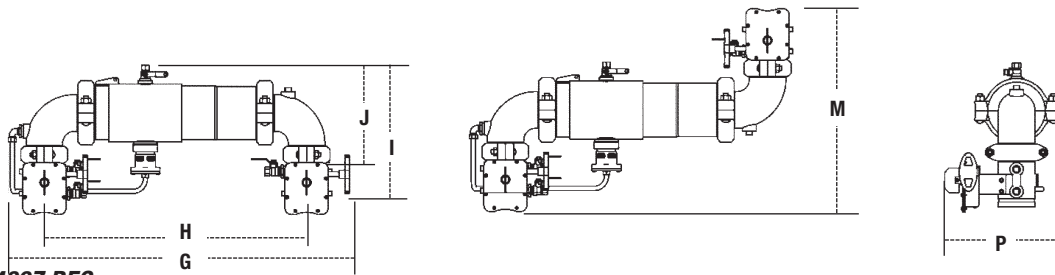
Dimensions — Weights



C400

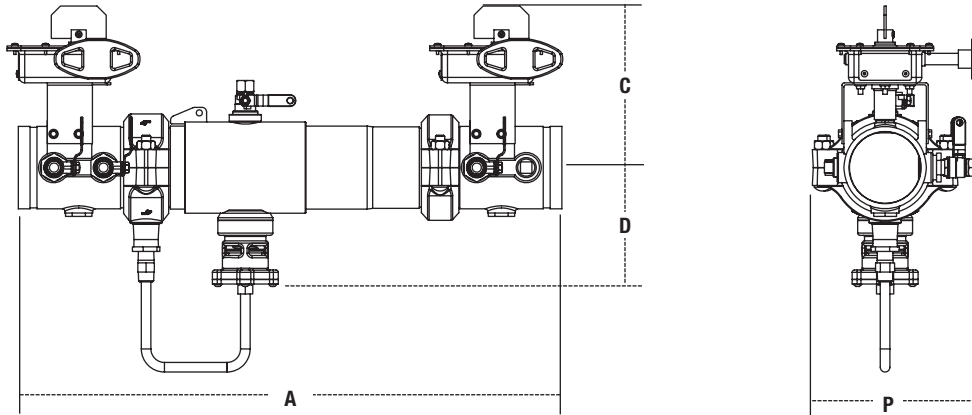
| SIZE (DN) | | DIMENSIONS | | | | | | | | | | WEIGHT | | | | | | | | | | | | | | | | | |
|-----------|-----|------------|------|---------|------|---------|-----|-----|-----|-----|------|--------|------|-----|-----|-----|-----|-----|------|-----|-----|------|------|-------|------|------|------|------|------|
| | | A | | C (OSY) | | C (NRS) | | D | | G | | H | | I | | J | | M | | P | | C400 | | C400N | | | | | |
| in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kgs. | lbs. | kgs. | lbs. | kgs. | lbs. | kgs. |
| 2½ | 65 | 31 | 787 | 16¾ | 416 | 9¾ | 238 | 6½ | 165 | 29¼ | 738 | 22 | 559 | 15½ | 393 | 8⅜ | 223 | 21¼ | 548 | 9¾ | 234 | 118 | 54 | 128 | 58 | 126 | 57 | 136 | 62 |
| 3 | 80 | 31⅛ | 805 | 18⅞ | 479 | 10¼ | 260 | 6⅛ | 170 | 30¼ | 768 | 22¾ | 578 | 17⅞ | 435 | 9⅞ | 233 | 23⅜ | 587 | 10½ | 267 | 134 | 61 | 148 | 67 | 147 | 67 | 161 | 73 |
| 4 | 100 | 33⅛ | 856 | 22¾ | 578 | 12⅞ | 310 | 7 | 178 | 33 | 838 | 24 | 610 | 18½ | 470 | 9⅞ | 252 | 26½ | 673 | 11¾ | 284 | 164 | 74 | 164 | 74 | 187 | 85 | 187 | 85 |
| 6 | 150 | 43½ | 1105 | 30⅞ | 765 | 16 | 406 | 8½ | 216 | 44¼ | 1137 | 33¾ | 857 | 23⅞ | 589 | 13⅞ | 332 | 32¼ | 832 | 15 | 381 | 276 | 125 | 298 | 135 | 317 | 144 | 339 | 154 |
| 8 | 200 | 50 | 1270 | 37¼ | 959 | 19⅞ | 506 | 9⅞ | 246 | 54⅞ | 1375 | 40⅞ | 1032 | 27⅞ | 697 | 15⅞ | 399 | 37⅞ | 943 | 17⅞ | 437 | 441 | 200 | 483 | 219 | 516 | 234 | 558 | 253 |
| 10 | 250 | 57½ | 1460 | 45¼ | 1162 | 23⅞ | 605 | 11¾ | 285 | 66 | 1676 | 50 | 1270 | 32½ | 826 | 17⅞ | 440 | 46⅞ | 1178 | 20 | 508 | 723 | 328 | 783 | 355 | 893 | 405 | 950 | 431 |

Dimensions — Weights



C400N BFG/C400Z BFG

| SIZE (DN) | | DIMENSIONS | | | | | | WEIGHT | | | | | | | |
|-----------|-----|--------------------------------|------|---------------------------------|-----|---------------------------------|-----|----------------------------------|-----|----------------------------------|-----|----------------------------------|-----|--------------|------|
| in. | mm | G | | H | | I | | J | | M | | P | | C400N, C400Z | |
| | | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | lbs. | kgs. |
| 2½ | 65 | 32½ | 826 | 23½ | 597 | 15½ | 394 | 9½ | 241 | 21 ¹³ / ₁₆ | 555 | 11 ¹³ / ₁₆ | 300 | 67 | 30 |
| 3 | 80 | 34 | 864 | 24½ | 622 | 16 ⁵ / ₁₆ | 414 | 10 ¹ / ₁₆ | 256 | 23 ³ / ₈ | 587 | 12 ¹ / ₈ | 308 | 70 | 32 |
| 4 | 100 | 35 ⁵ / ₈ | 905 | 26 | 660 | 17 ³ / ₁₆ | 437 | 10 ¹⁵ / ₁₆ | 279 | 24 ¹⁵ / ₁₆ | 634 | 12 ⁵ / ₈ | 321 | 87 | 39 |
| 6 | 150 | 46½ | 1181 | 35 ¹ / ₁₆ | 908 | 20½ | 521 | 13½ | 343 | 28¼ | 718 | 15 | 382 | 160 | 73 |

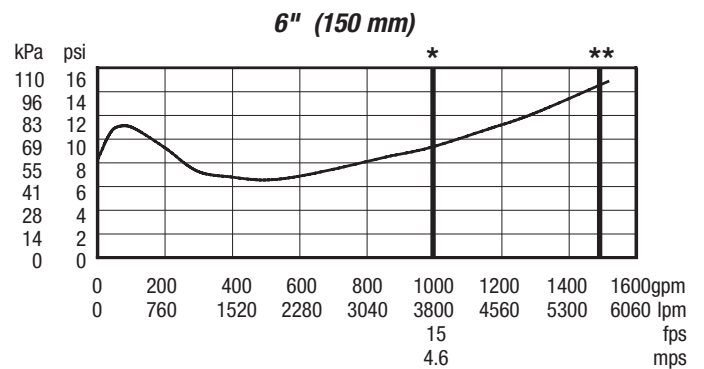
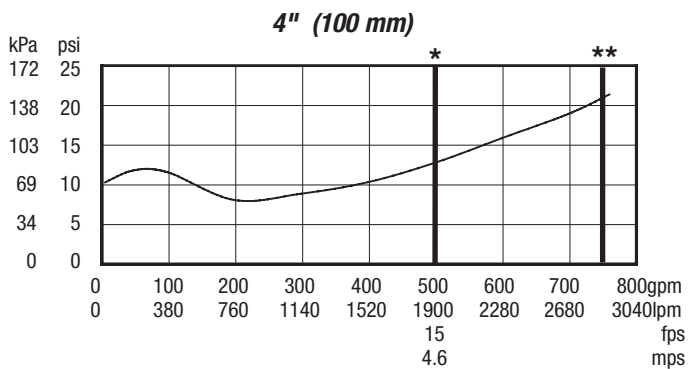


C400 BFG

| SIZE (DN) | | DIMENSIONS | | | | WEIGHT | | | | | |
|-----------|-----|---------------------------------|-----|--------------------------------|-----|-------------------------------|-----|-----|-----|------|------|
| in. | mm | A | | C | | D | | P | | lbs. | kgs. |
| | | in. | mm | in. | mm | in. | mm | in. | mm | | |
| 4 | 100 | 29 ¹ / ₁₆ | 754 | 7¾ | 197 | 6 ³ / ₈ | 162 | 9½ | 241 | 66 | 30 |
| 6 | 150 | 37¾ | 959 | 9 ¹ / ₁₆ | 246 | 7 ¹ / ₈ | 189 | 14¼ | 362 | 122 | 55 |

Capacity - C400 BFG

* = Rated Flow ** = UL Tested

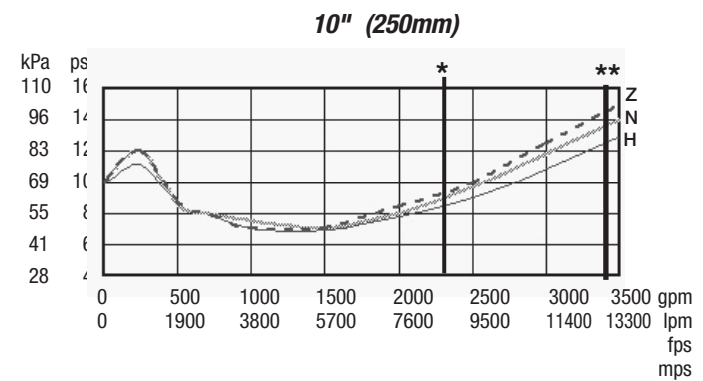
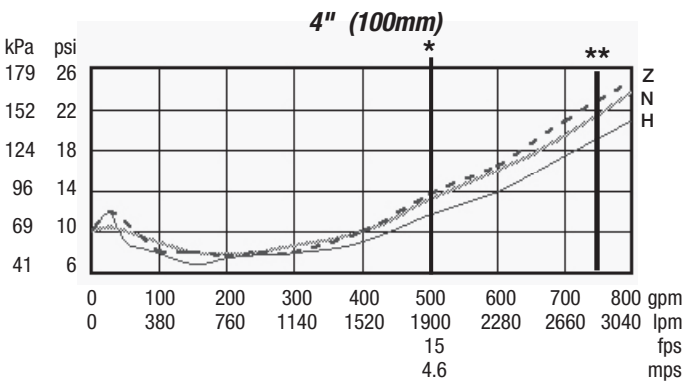
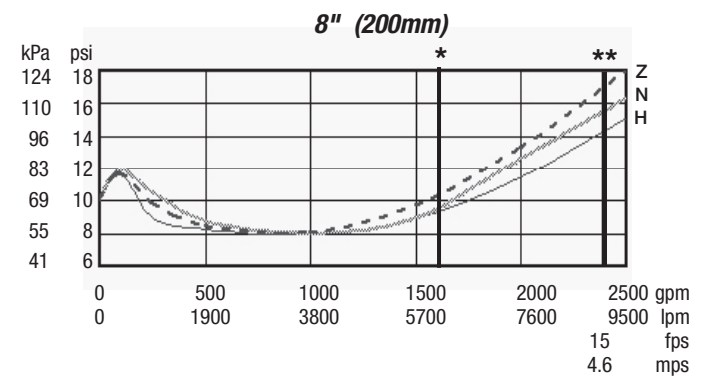
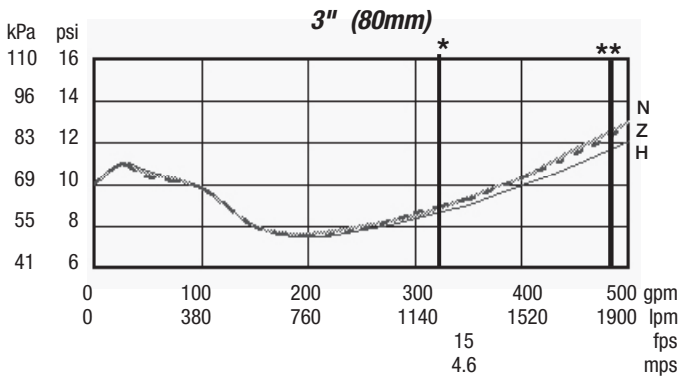
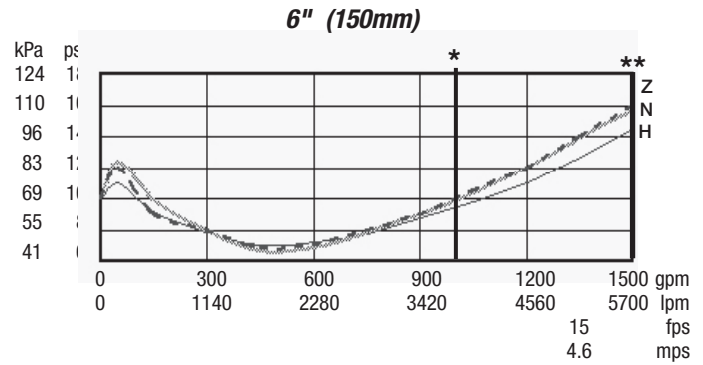
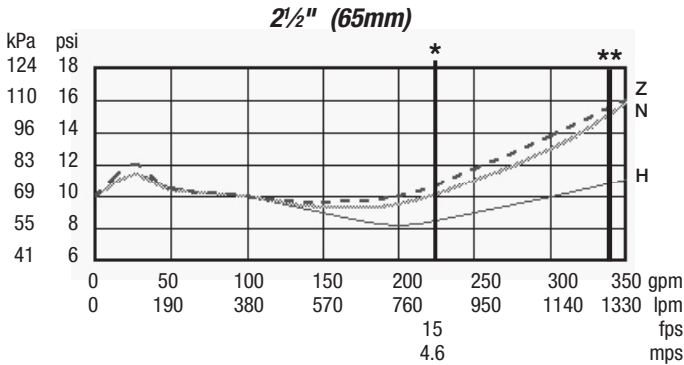


Capacity

UL/FM Certified Flow Characteristics
 N&Z Flow characteristics collected using butterfly shutoff valves.
 See literature S-Colt-400, 500 for gate valve flow characteristics

* = Rated Flow ** = UL Tested

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



www.amesfirewater.com



A Watts Water Technologies Company

USA: Backflow- 1427 N. Market Blvd • Suite #9 • Sacramento, CA 95834 • T: 916-928-0123 • F: 916-928-9333

Control Valves- 18550 Hansen Road • Houston, TX 77075 • T: 713-943-0688 • F: 713-944-9445

Canada: 5435 North Service Rd. • Burlington, ONT. L7L 5H7 • T: 905-332-4090 • F: 905-332-7068

ES-A-C400/C400N/C400Z 0935

© 2009 Ames Fire & Waterworks