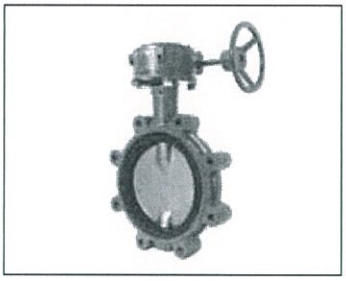
## STYLES AND ACCESSORIES

The DEMCO butterfly valve comes in a variety of styles to suit a range of applications. In addition, a variety of quality accessories are available to further enhance its suitability to the application.

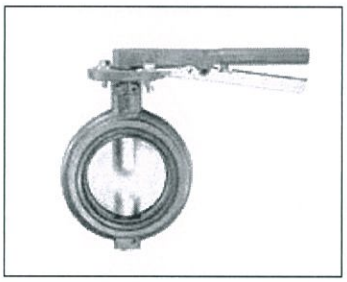
### Series NE-C

Sizes 2" to 12" (50 mm to 300 mm) are available in both wafer and lug styles. This series is a general purpose valve with a neck length designed to provide full clearance for the valve top over 2" of insulation on ASME Class 150 pipe flanges.



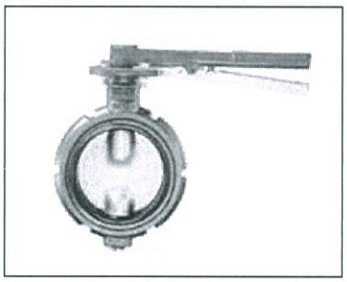
### Series NE-I

Sizes 2" to 12" (50 mm to 300 mm) are suited for a range of applications in many industries, including food and beverage utilities and process flowlines. This short neck design is offered in a variety of body materials. The valves are designed for installation between ASME Class 125 and 150 flanges.



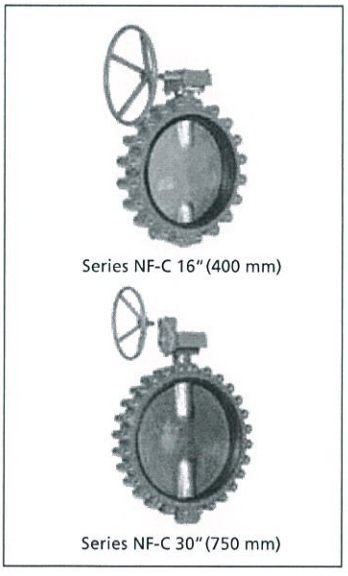
### Series NE-D

The valves in this series can be made in sizes 2" to 12" (50 mm to 300 mm). The Series NE-D valve is a short-neck valve with body notches to fit popular, lightweight flange patterns, making it ideal for both the bulk material handling and the transportation industries. Valves also will center in ASME Class 125 and 150 flanges.



### Series NF-C

Sizes 14" to 36" (350 mm to 900 mm) are available in both wafer and lug styles. The wafer body has two drilled locator lugs at the top and bottom for ASME Class 150 flanges. Bronze bearings are installed on both stems for reduced operating torque.



Series NF-C 16" (400 mm)

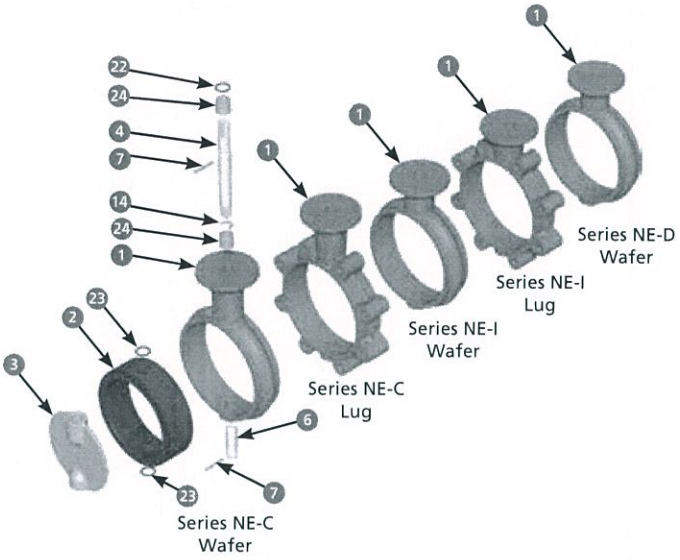
Series NF-C 30" (750 mm)

## SERIES NE-C, NE-I, NE-D, NEI-T

### 2" to 12" (50 mm to 300 mm)

| Key No. | Qty. | Description | Material |
|---|---|---|---|
| 1 | 1 | Body | * |
| 2 | 1 | Seat | * |
| 3 | 1 | Disc | * |
| 4 | 1 | Upper Stem | * |
| 6 | 1 | Lower Stem | * |
| 7 | 2 | Spring Pin | Stainless Steel |
| 14 | 1 | Retainer | Stainless Steel |
| 22 | 1 | Top O-ring | Buna-N |
| 23 | • | Stem O-ring | Buna-N |
| 24 | 2 | Bearing | Bronze |

* See How to Order for material choices/styles. Complete material specs on page 32.
• Four required for throttling valves only.




## HOW TO ORDER

| XXXXX Base Part Number | - | X Body Configuration | X Body Material* | X Stem Material | X Disc Material | XX Seat Elastomer | X Actuation |
|---|---|---|---|---|---|---|---|

Based on valve series and shut-off pressure. See page 12.

| NE-C/NE-I/NEI-T | |
|---|---|
| Wafer | 1 |
| Lug | 5 |
| **NE-D** | |
| Wafer | 1 |

| NE-C (Long-Neck) | |
|---|---|
| Ductile Iron (Lug) | 1 |
| Cast Iron (Wafer) | 2 |
| **NE-I and NE-I Sanitary** | |
| Ductile Iron (NE-I, Wafer Only) | 1 |
| Aluminum Bronze | 3 |
| Carbon Steel (NE-I Only) | 4 |
| Aluminum (NE-I, Wafer Only) | 5 |
| ENC-Coated Ductile Iron | 6 |
| Stainless Steel | 8 |
| **NE-D** | |
| Ductile Iron | 1 |
| **NEI-T** | |
| Ductile Iron Wafer – Short-Neck Lug – Long-Neck | 1 |
| Gray Iron (Long-Neck Wafer) | 2 |
| Aluminum Bronze | 3 |
| Carbon Steel | 4 |
| Aluminum (Wafer Only) | 5 |
| Stainless Steel | 8 |

| NE-C, NE-I and NE-D | |
|---|---|
| 416 SS | 1 |
| 316 SS** | 2 |
| Monel[6] | 3 |
| **NEI-T** | |
| 316 SS Vented*** | 2 |
| 316 SS Solid*** | 9 |
| **NEI-Sanitary** | |
| 316 SS*** | 2 |

| NE-C, NE-I and NE-D | |
|---|---|
| 316 SS | 2 |
| Monel[6] | 3 |
| Aluminum Bronze | 4 |
| Ductile Iron, Nickel-Plated | 5 |
| PVF-Coated Ductile Iron[1] | 6 |
| Alloy 20[2] | 7 |
| Hastelloy "C"[6] | 8 |
| **NEI-T and NE-I Sanitary** | |
| 316 SS Polished[3] | 2 |
| 316 SS Tumbled[3] | 5 |
| Alloy 20 (NEI-T Only) | 7 |
| Hastelloy "C"[6] (NEI-T Only) | 8 |
| 316 SS Unpolished[3] | 9 |

| NE-C, NE-I and NE-D[7] | |
|---|---|
| Buna-N | 31 |
| Black Neoprene | 32 |
| Hypalon[6] | 33 |
| FKM | 34 |
| Peroxide-Cured, EPDM | 35 |
| Natural Rubber | 36 |
| White Neoprene | 37 |
| ETM-30230 | 01 |
| Fluorosteam | 02 |
| Peroxide-Cured Food Grade, EPDM | 03 |
| Peroxide-Cured, Buna-N | 04 |
| Sulfur-Cured Food Grade, EPDM | 05 |
| **NEI-T** | |
| Peroxide-Cured, EPDM/Teflon[6] | 35 |
| Sulfur-Cured, EPDM/Teflon[6] | 05 |
| **NE-I Sanitary All Seats Food Grade** | |
| Black Neoprene | 32 |
| FKM | 34 |
| EPDM | 35 |
| White Neoprene | 37 |
| Sulfur-Cured, EPDM | 05 |

| Handle | |
|---|---|
| 10 Position Lkg. | 1[4] |
| Throttling Mem./ Stop | 2[4] |
| Square Nut | 5 |
| 2-Position Lkg. | 6[4] |
| 10-Position Sanitary (NEI-T Only) | 8 |
| None | 9 |
| 10-Position Lkg. Corrosion-Resistant | K |
| 2-Position Lkg. Corrosion-Resistant | L |
| Throttling Mem./ Stop Corrosion-Resistant | M |
| **Gear Operators[5]** | |
| Handwheel | A |
| Crank 2" to 12" (50 mm to 300 mm) | B |
| Chainwheel | C |
| Square Nut | D |
| Bare Shaft | E |

( P/NO: 22228-5124351 )

(Example: 6" (150 mm) NE-C, 200 psi, Wafer, Standard Trim with Handle – 22124-1215311)

* Standard coating is green enamel; other coatings are available on request.
** 17-4 PH SS for 8" to 12" (200 mm to 300 mm) upper stem only.
*** Except 17-4 PH upper 8" and 10" (200 mm and 250 mm).
1 200 psi only.
2 Except 285 psi.
3 Polished – ground to #4 dairy finish; tumbled – vibratory finish to remove as cast surface; unpolished – as cast surface.
4 When these options are used with NE-I sanitary butterfly valves, handles will be bronze with stainless steel (SS) parts and fasteners.
5 Gear operator recommended for 8" to 12" (200 mm to 300 mm) sizes in all series.
6 See material trademark note on page 40.
7 Other seat options available (consult Cameron).

## BASE PART NUMBERS AND WEIGHTS

### Series NE-C, 2" to 12" (50 mm to 300 mm)*

| Description | in. (mm) | 2 (50) | 2-1/2 (65) | 3 (80) | 4 (100) | 5 (125) | 6 (150) | 8 (200) | 10 (250) | 12 (300) |
|---|---|---|---|---|---|---|---|---|---|---|
| 200 psi | | 22119 | 22120 | 22121 | 22122 | 22123 | 22124 | 22125 | 22126 | 22127 |
| 285 psi | | 22225 | 22226 | 22227 | 22228 | 22229 | 22230 | 22231 | 22232 | 22233 |
| 50 psi | | 22234 | 22235 | 22236 | 22237 | 22238 | 22239 | 22240 | 22241 | 22242 |
| Throttling | | 22243 | 22244 | 22245 | 22246 | 22247 | 22248 | 22249 | 22250 | 22251 |
| Weight | Wafer | 5.8 | 7.0 | 7.7 | 11.4 | 14.7 | 17.6 | 28.5 | 47.9 | 71.0 |
| (lb – bare stem) | Lug | 8.0 | 9.9 | 10.7 | 17.0 | 24.5 | 28.5 | 43.5 | 65.9 | 98.5 |

### Series NE-I, 2" to 12" (50 mm to 300 mm)*

| Description | in. (mm) | 2 (50) | 2-1/2 (65) | 3 (80) | 4 (100) | 5 (125) | 6 (150) | 8 (200) | 10 (250) | 12 (300) |
|---|---|---|---|---|---|---|---|---|---|---|
| 200 psi | | 22128 | 22129 | 22130 | 22131 | 22132 | 22133 | 22134 | 22135 | 22136 |
| 285 psi | | 22252 | 22253 | 22254 | 22255 | 22256 | 22257 | 22258 | 22259 | 22260 |
| 50 psi | | 22261 | 22262 | 22263 | 22264 | 22265 | 22266 | 22267 | 22268 | 22269 |
| Throttling | | 22270 | 22271 | 22272 | 22273 | 22274 | 22275 | 22276 | 22277 | 22278 |
| Weight | Iron, Steel, SS | 4.9 | 6.4 | 6.9 | 10.2 | 13.7 | 16.4 | 28.4 | 44.8 | 66.8 |
| (lb – bare stem) | Bronze | 4.7 | 6.2 | 6.7 | 9.9 | 13.4 | 16.0 | 28.0 | 44.3 | 66.3 |
| Wafer | Aluminum | 2.8 | 3.4 | 4.1 | 5.9 | 8.7 | 10.8 | 18.2 | 30.4 | 47.2 |
| (lb – bare stem) | Bronze | 6.8 | 8.7 | 9.5 | 15.7 | 23.1 | 27.0 | 42.0 | 64.4 | 96.8 |
| Lug | Steel, SS | 7.0 | 8.9 | 9.7 | 16.0 | 23.5 | 27.5 | 42.5 | 64.9 | 97.5 |

### Series NE-I, Sanitary 2" to 12" (50 mm to 300 mm)*

| Description | in. (mm) | 2 (50) | 2-1/2 (65) | 3 (80) | 4 (100) | 6 (150) | 8 (200) | 10 (250) | 12 (300) |
|---|---|---|---|---|---|---|---|---|---|
| 200 psi | | 23150 | 23151 | 23152 | 23153 | 23154 | 23155 | 23156 | 23157 |
| Weight | | See chart above: NE-I, 2" to 12" (50 mm to 300 mm) | | | | | | | |

### Series NE-D, 2" to 12" (50 mm to 300 mm)*

| Description | in. (mm) | 2 (50) | 2-1/2 (65) | 3 (80) | 4 (100) | 5 (125) | 6 (150) | 8 (200) | 10 (250) | 12 (300) |
|---|---|---|---|---|---|---|---|---|---|---|
| 200 psi | | 22181 | 22129 | 25093 | 22183 | 22184 | 22185 | 22134 | 22186 | 22136 |
| 285 psi | | 22279 | 22253 | 25135 | 22281 | 22282 | 22283 | 22258 | 22284 | 22260 |
| 50 psi | | 22285 | 22262 | 25132 | 22287 | 22288 | 22289 | 22267 | 22290 | 22269 |
| Throttling | | 22291 | 22271 | 25136 | 22293 | 22294 | 22295 | 22276 | 22296 | 22278 |
| Weight (lb – bare stem) Wafer | | 4.9 | 6.4 | 6.9 | 10.2 | 13.7 | 16.4 | 28.4 | 44.8 | 66.8 |

### Series NEI-T, 2" to 10" (50 mm to 250 mm)*

| Description | in. (mm) | 2 (50) | 2-1/2 (65) | 3 (80) | 4 (100) | 6 (150) | 8 (200) | 10 (250) |
|---|---|---|---|---|---|---|---|---|
| 150 psi | | 24680 | 24681 | 24682 | 24683 | 24684 | 24685 | 24686 |
| Weight | Iron, Steel, SS | 4.9 | 6.4 | 6.9 | 10.2 | 16.4 | 28.4 | 44.8 |
| (lb – bare stem) | Bronze | 4.7 | 6.2 | 6.7 | 9.9 | 16.0 | 28.0 | 44.3 |
| Wafer** | Aluminum | 2.8 | 3.4 | 4.1 | 5.9 | 10.8 | 18.2 | 30.4 |
| (lb – bare stem) | Bronze | 6.8 | 8.7 | 9.5 | 15.7 | 27.0 | 42.0 | 64.4 |
| Lug** | Steel, SS | 7.0 | 8.9 | 9.7 | 16.0 | 27.5 | 42.5 | 64.9 |

* Gear operator recommended for 8" to 12" (200 mm to 300 mm) sizes.
** See NE-C chart above for weights of long-neck wafer and lug valves.

### Series NF-C, 14" to 24" (350 mm to 600 mm)

| Description | in. (mm) | 14 (350) | 16 (400) | 18 (450) | 20 (500) | 24 (600) |
|---|---|---|---|---|---|---|
| 150 psi | | 23820 | 23821 | 23822 | 23823 | 23824 |
| 50 psi | | 24440 | 24441 | 24442 | 24443 | 24444 |
| Throttling | | 24445 | 24446 | 24447 | 24448 | 24449 |
| Weight | Wafer | 102 | 166 | 214 | 257 | 401 |
| (lb – bare stem) | Lug | 116 | 203 | 239 | 332 | 535 |

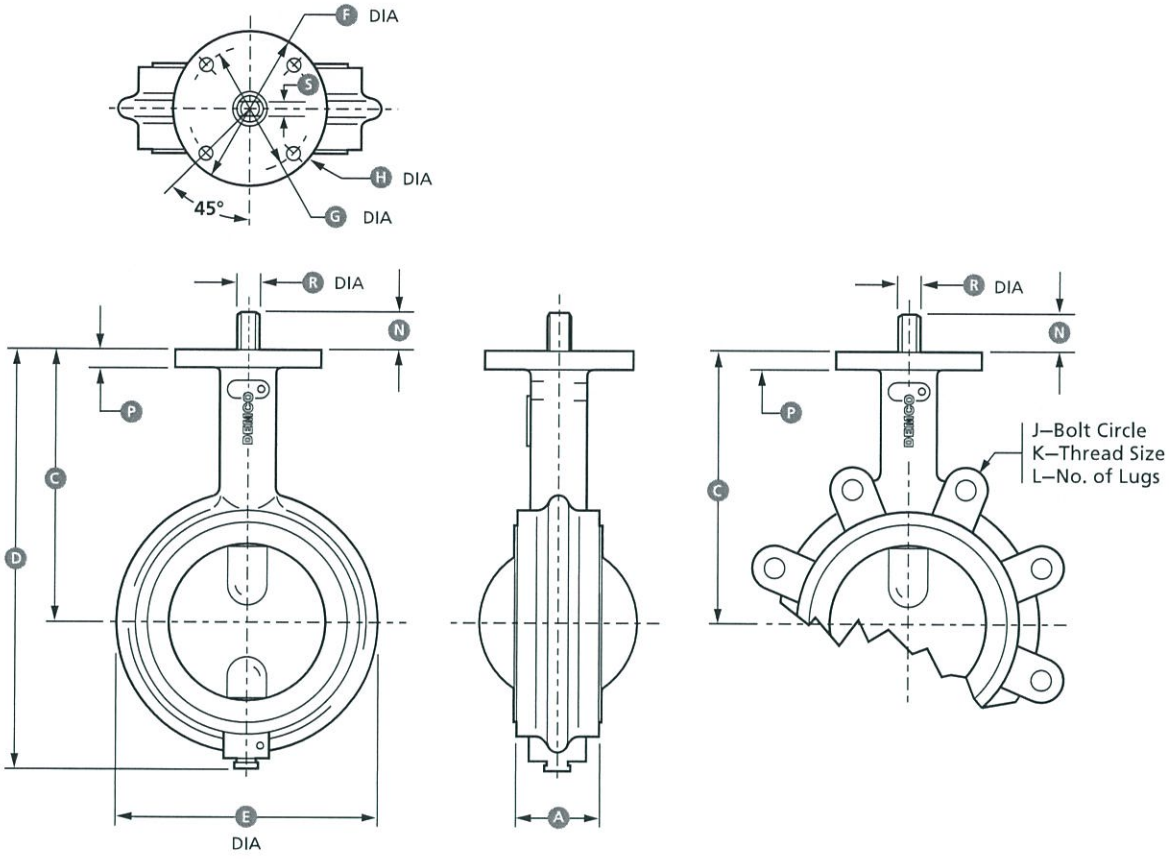
### Series NF-C, 30" to 36" (750 mm to 900 mm)

| Description | in. (mm) | 30 (750) | 36 (900) |
|---|---|---|---|
| 150 psi | | 24141 | 24357 |
| 50 psi | | 24924 | 25061 |
| Weight | Wafer | 935 | 1500 |
| | Lug | 1050 | 2020 |

Marine valves: consult Cameron for data sheets B-255, B-256 and B-258.

## SERIES NE-C DIMENSIONAL DATA

2" to 12" (50 mm to 300 mm)




### Dimensional Data

| Size in. | A | C | D | E | F | G | H | J | K | L | N | P | R | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 1.74 | 5.62 | 8.44 | 4.12 | 4.00 | 3.25 | 0.408 | 4.75 | 5/8 - 11 | 4 | 1.00 | 0.44 | 0.625 | 0.375 |
| 2-1/2 | 1.86 | 6.12 | 9.19 | 4.88 | 4.00 | 3.25 | 0.408 | 5.50 | 5/8 - 11 | 4 | 1.00 | 0.44 | 0.625 | 0.375 |
| 3 | 1.86 | 6.38 | 9.69 | 5.38 | 4.00 | 3.25 | 0.408 | 6.00 | 5/8 - 11 | 4 | 1.00 | 0.44 | 0.625 | 0.375 |
| 4 | 2.11 | 7.12 | 11.00 | 6.88 | 4.00 | 3.25 | 0.408 | 7.50 | 5/8 - 11 | 8 | 1.00 | 0.44 | 0.625 | 0.375 |
| 5 | 2.24 | 7.75 | 12.12 | 7.75 | 4.00 | 3.25 | 0.408 | 8.50 | 3/4 - 10 | 8 | 1.25 | 0.44 | 0.838 | 0.500 |
| 6 | 2.24 | 8.25 | 13.25 | 8.75 | 4.00 | 3.25 | 0.408 | 9.50 | 3/4 - 10 | 8 | 1.25 | 0.44 | 0.838 | 0.500 |
| 8 | 2.54 | 9.44 | 15.56 | 11.00 | 6.00 | 5.00 | 0.533 | 11.75 | 3/4 - 10 | 8 | 1.38 | 0.56 | 0.838 | 0.500 |
| 10 | 2.74 | 11.25 | 18.69 | 13.38 | 6.00 | 5.00 | 0.533 | 14.25 | 7/8 - 9 | 12 | 1.38 | 0.56 | 0.963 | 0.625 |
| 12 | 3.24 | 12.19 | 21.69 | 16.12 | 6.00 | 5.00 | 0.533 | 17.00 | 7/8 - 9 | 12 | 1.38 | 0.56 | 1.338 | 0.750 |
| **Size mm** | | | | | | | | | | | | | | |
| 50 | 44 | 143 | 214 | 105 | 102 | 83 | 10.36 | 121 | 5/8 - 11 | 4 | 25 | 11.2 | 15.88 | 9.53 |
| 65 | 47 | 155 | 233 | 124 | 102 | 83 | 10.36 | 140 | 5/8 - 11 | 4 | 25 | 11.2 | 15.88 | 9.53 |
| 80 | 47 | 162 | 246 | 137 | 102 | 83 | 10.36 | 152 | 5/8 - 11 | 4 | 25 | 11.2 | 15.88 | 9.53 |
| 100 | 54 | 181 | 279 | 175 | 102 | 83 | 10.36 | 191 | 5/8 - 11 | 8 | 25 | 11.2 | 15.88 | 9.53 |
| 125 | 57 | 197 | 308 | 197 | 102 | 83 | 10.36 | 216 | 3/4 - 10 | 8 | 32 | 11.2 | 21.29 | 12.70 |
| 150 | 57 | 210 | 337 | 222 | 102 | 83 | 10.36 | 241 | 3/4 - 10 | 8 | 32 | 11.2 | 21.29 | 12.70 |
| 200 | 65 | 240 | 395 | 279 | 152 | 127 | 13.54 | 298 | 3/4 - 10 | 8 | 35 | 14.2 | 21.29 | 12.70 |
| 250 | 70 | 286 | 475 | 340 | 152 | 127 | 13.54 | 362 | 7/8 - 9 | 12 | 35 | 14.2 | 24.46 | 15.88 |
| 300 | 82 | 310 | 551 | 409 | 152 | 127 | 13.54 | 432 | 7/8 - 9 | 12 | 35 | 14.2 | 33.99 | 19.05 |

Note: For general dimensions, see page 28.

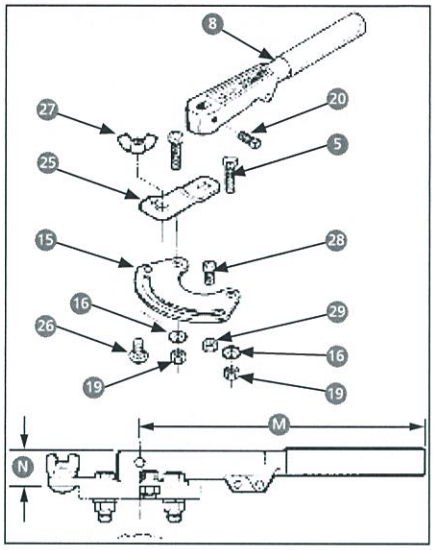
# HANDLES

## HOW TO ORDER
(X X X X X - 0 0 X)

| XXXXX Base Part Number | - | 00X Trim |
|---|---|---|

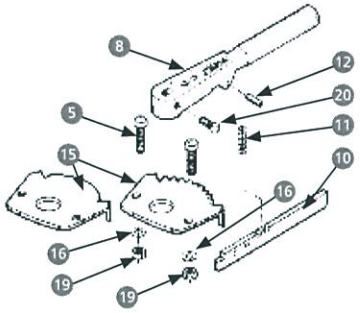
| Trim | |
|---|---|
| Standard | 1 |
| Corrosion-Resistant | 2 |
| Sanitary | 3 |

| Description | in. (mm) | 2 to 4 (50 to 100) | 5 to 6 (125 to 150) | 8 (200) | 10 (250) | 12 (300) |
|---|---|---|---|---|---|---|
| 10-Position, Standard, CR | | 24227 | 24228 | 24229 | 24230 | 24231 |
| 2-Position, Standard, CR | | 24232 | 24233 | 24234 | 24235 | 24236 |
| 10-Position, Sanitary | | 22319 | 22320 | 22321 | 22322 | 22323 |
| 2-Position, Sanitary | | 22324 | 22325 | 22326 | 22327 | 22328 |
| Throttling, Standard, CR | | 24252 | 24253 | 24254 | 24255 | 24256 |
| Throttling, Sanitary | | 22329 | 22330 | 22331 | 22332 | 22333 |
| Square Nut, Standard | | 23356 | 23357 | 23358 | 23359 | 22360 |
| Weight (lb) | | 2.3 | 2.9 | 6.5 | 6.5 | 6.5 |




### Infinite Throttling with Memory Stop Handle

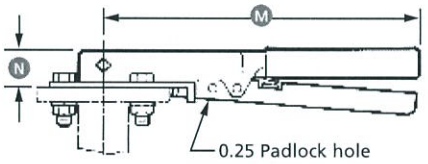
| Dimension | in. (mm) | 2 to 4 (50 to 100) | 5 to 6 (125 to 150) | 8 to 12 (200 to 300) |
|---|---|---|---|---|
| M | | 9.50 (241) | 11.00 (279) | 15.00 (381) |
| N | | 0.85 (21.6) | 1.07 (27.2) | 1.13 (28.7) |







Note: These throttling plates and latch apply to sanitary trim handles only.



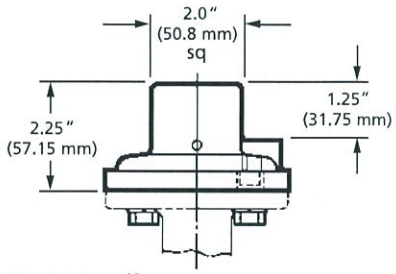

### 2-Position/10-Position Locking Handles

| Dimension | in. (mm) | 2 to 4 (50 to 100) | 5 to 6 (125 to 150) | 8 to 12 (200 to 300) |
|---|---|---|---|---|
| M | | 9.50 (241) | 11.00 (279) | 15.00 (381) |
| N | | 0.87 (22.1) | 1.07 (27.2) | 1.13 (28.7) |

### 2-Position/10-Position Locking Handles

| Key No. | Description | Material | | |
|---|---|---|---|---|
| | | Standard | Corrosion-Resistant | Sanitary |
| 5 | Screw | Steel | Stainless Steel | Stainless Steel |
| 8 | Handle | Ductile Iron | Ductile Iron | Bronze |
| 10 | Latch | Zinc-Plated Steel | Stainless Steel | Stainless Steel |
| 11 | Spring | Spring Steel | Stainless Steel | Stainless Steel |
| 12 | Spring Pin | Spring Steel | Stainless Steel | Stainless Steel |
| 15 | Throttle Plate | Zinc-Plated Steel | Stainless Steel | Stainless Steel |
| 16 | Lockwasher | Steel | Stainless Steel | Stainless Steel |
| 19 | Nut | Steel | Stainless Steel | Stainless Steel |
| 20 | Set Screw | Steel | Stainless Steel | Stainless Steel |
| 25* | Throttling Tab | Zinc-Plated Steel | Stainless Steel | Stainless Steel |
| 26* | Carriage Bolt | Steel | Stainless Steel | Stainless Steel |
| 27* | Wing Nut | Steel | Stainless Steel | Stainless Steel |
| 28* | Screw | Steel | Stainless Steel | Stainless Steel |
| 29* | Nut | Steel | Stainless Steel | Stainless Steel |

* For throttling, memory stop handle only.



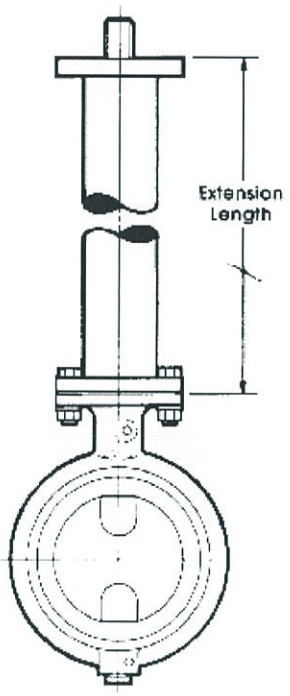

### Square Nut Handle

| Description | Material |
|---|---|
| Square Nut Hub | Ductile Iron |
| Throttle Plate | Steel |
| Screw | Steel |
| Set Screw | Steel |
| Lock Washer | Spring Steel |

## STEM EXTENSIONS

Fabricated from carbon steel, stem extensions are contained in a tubular housing. Lengths from 3" to 16 ft are fabricated to order. Torsional deflection of lengths greater than 16 ft require special design consideration and are available by special order only.

**STEM EXTENSIONS**




Length - 1000mm.

## HOW TO ORDER

2" to 12" (50 mm to 300 mm)

| XXXXX | - | XXX |
|---|---|---|
| Base Part Number | | Length in. (mm) |

14" to 24" (350 mm to 600 mm)

| XXXXX | - | XXX00 |
|---|---|---|
| Base Part Number | | Length in. (mm) |

| Description | in. (mm) | 2 to 4 (50 to 500) | 5 to 6 (125 to 150) | 8 (200) | 10 (250) | 12 (300) | 14 (350) | 16 (400) | 18 to 20 (450 to 500) | 24 (600) |
|---|---|---|---|---|---|---|---|---|---|---|
| Carbon Steel | | 23318 | 23319 | 23320 | 23321 | 23322 | 24529 | 24530 | 24531 | 24532 |

* Note: Consult Cameron for 30" (750 mm) and 36" (900 mm) valve stem extensions.