

# Elite Valve

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Customized  
valve solutions  
for the toughest  
applications



## Cast Steel Valves

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Gate Valves | Globe Valves | Check Valves

Offering both standard and custom-engineered solutions, Elite Valve can meet all your process requirements.







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# Product Features

- Elite Valve offers ANSI Class 150# , 300# and 600# cast steel valve standardized in ASTM A216-WCB, A352-LCC and ASTM A351-CF8M body. Other materials are available upon special request.
- We carry a full size range of the carbon steel and stainless gate, globe and check valves at the central warehouse located at Oakville ON and the satellite warehouse at Edmonton AB to service the demand from East and West regions respectively.
- All Elite Valve cast steel valves, carbon or stainless, come standard with RF Flange connections designed and manufactured to ANSI B16.5. Butt weld and RTJ flanges are also available by special request.
- Carbon steel and low carbon steel valves with NACE strictly comply with the NACE MR0103 specification, and contain no copper bearing alloys for applications that handle H2S bearing hydrocarbons. Please refer to the material list under each product category for details. It is the user's responsibility to ensure that all materials meet the requirements of the intended environment.
- All Elite Valve cast steel valves are inspected and tested according to API598.



## Standard In-Stock Items

| Style             | P/T Rating  | Size              | End Connection        | Bonnet             | Body Material                     | Operator                       |
|-------------------|-------------|-------------------|-----------------------|--------------------|-----------------------------------|--------------------------------|
| Gate Valve        | ANSI CLS150 | 2"-12"<br>14"-24" | RF FLG<br>X<br>RF FLG | OS&Y Bolted Bonnet | A216-WCB<br>A351-CF8M<br>A352-LCC | Hand wheel<br>Gear<br>Operator |
|                   | ANSI CLS300 | 2"-12"<br>14"-24" | RF FLG<br>X<br>RF FLG | OS&Y Bolted Bonnet | A216-WCB<br>A351-CF8M<br>A352-LCC | Hand wheel<br>Gear<br>Operator |
| Globe Valve       | ANSI CLS150 | 2"-10"<br>12"-16" | RF FLG<br>X<br>RF FLG | OS&Y Bolted Bonnet | A216-WCB<br>A351-CF8M<br>A352-LCC | Hand wheel<br>Gear<br>Operator |
|                   | ANSI CLS300 | 2"-8"<br>10"-16"  | RF FLG<br>X<br>RF FLG | OS&Y Bolted Bonnet | A216-WCB<br>A351-CF8M<br>A352-LCC | Hand wheel<br>Gear<br>Operator |
| Swing Check Valve | ANSI CLS150 | 2"-24"            | RF FLG<br>X<br>RF FLG | Bolted Bonnet      | A216-WCB<br>A351-CF8M<br>A352-LCC | —                              |
|                   | ANSI CLS300 | 2"-24"            | RF FLG<br>X<br>RF FLG | Bolted Bonnet      | A216-WCB<br>A351-CF8M<br>A352-LCC | —                              |

## Designed and Manufactured to the Following Industry Standards

- Cast Steel Gate valves are designed and manufactured to API600, Globe valves to API600 & API623 and Check valve to API 6D.
- Pressure/Temperature rating conforms to ASME B16.34.
- NACE package are designed and manufactured to NACE MR0103.
- All valves are tested according to API 598.
- Face to Face dimensions are designed and manufactured to ANSI/ASME B16.10
- Connection ends are designed and manufactured to ANSI/ASME B16.5 for Flanged connections and B16.25 for Butt Weld connections.



# Material Specifications

## Body, Bonnet/Cover Materials

| Elite Valve Material Code | ASTM Specification | Nominal Designation   | Recommended Service Condition                                                                                                                                                              |
|---------------------------|--------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CB*</b>                | A216-WCB           | Carbon steel          | General non-corrosive water, steam, oil and gases services between -20°F(-29°C) and 800°F(425°C).                                                                                          |
| <b>LC*</b>                | A352-LCC           | Low Temp. C.S.        | Non-corrosive low temperature services between -50°F(-46°C) and 650°F(345°C).                                                                                                              |
| <b>S1*</b>                | A351-CF8M          | Stainless Steel (316) | Corrosive or, extremely temperature non-corrosive services between -450°F (-268°C) and 1200°F(649°C). At temperature over 1000°F (538°C), use only when carbon content is 0.04% or higher. |

\* Standard Materials

\*\* Other Materials available on request

## Trim Specification

| Elite Valve Trim Code | API Trim # | API Nominal Trim | Seat Surface Material | Seat Surface Specification | Stem/Bushing Material | Stem/Bushing Specification | Recommended Service Applications†                                                                                                                           |
|-----------------------|------------|------------------|-----------------------|----------------------------|-----------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>05*</b>            | 5          | Hardfaced        | Co-Cr A               | —                          | 13Cr                  | ASTM A276 T410/T420        | High pressure and slightly erosive and corrosive services. Excellent for high pressure water and steam service.                                             |
| <b>08*</b>            | 8          | F6               | 13Cr                  | ASTM A217 (CA15)           | —                     | ASTM A276 T410/T420        | Universal trim for general service requiring long service life. As trim 5 for moderate pressure and more corrosive service. Steam, gas and general service. |
|                       |            | Hardfaced        | Co-Cr A               | —                          | —                     | —                          |                                                                                                                                                             |
| <b>10</b>             | 10         | 316              | 18Cr-8Ni              | ASTM A351 (CF8M)           | 18Cr-8Ni-Mo           | ASTM A276 T316             | For superior resistance for liquids and gases which are corrosive to 410 Stainless Steel. Low temperature service standard for 316SS valves.                |
| <b>12*</b>            | 12         | 316              | 18Cr-8Ni-Mo           | ASTM A351 (CF8M)           | 18Cr-8Ni-Mo           | ASTM A276 T316             | As trim 10 but for medium pressure and more corrosive or asrasive service.                                                                                  |
|                       |            | Hardfaced        | Trim 5 or 5A          |                            | —                     | —                          |                                                                                                                                                             |

NOTE: Data provided in this chart is for informational purpose only. Always consult current API publications to verify information and trim data

† Temperatures shown may vary depending on media, pressure and service applications

\* Standard Materials

\*\* Other Materials available on request

# Code Index

## How to Order Cast Steel Valves

| 1        | 2        | 3   | 4    | 5      | 6    | 7         | 8       | 9     |
|----------|----------|-----|------|--------|------|-----------|---------|-------|
| Category | Pressure | End | Body | Bonnet | Trim | Operators | Options | Size  |
| G F      | 0 8      | T D | A 5  | 1      | 0 8  | H W       | N C     | 0 0 5 |

| 1  | Category              |    |                   |
|----|-----------------------|----|-------------------|
| GF | Gate Valve Flex Wedge | CS | Check Valve Swing |
| SL | Globe Valve Linear    |    |                   |

| 6  | Trim Design                  |        |                                |
|----|------------------------------|--------|--------------------------------|
| 05 | API Trim 5, Hardfaced        | 10     | API Trim 10, 316               |
| 08 | API Trim 8, F6 and Hardfaced | 12(ST) | API Trim 12, 316 and Hardfaced |

| 2  | Pressure Rating |    |           |
|----|-----------------|----|-----------|
| 01 | Class 150       | 04 | Class 400 |
| 03 | Class 300       | 06 | Class 600 |

| 7  | Operators           |    |                      |
|----|---------------------|----|----------------------|
| HW | Handwheel           | CW | Chain Wheel Operator |
| WE | Handwheel Extension | PA | Pneumatic Actuator   |
| GO | Gear operator       | EA | Electric Actuator    |

| 3  | End Style           |    |            |
|----|---------------------|----|------------|
| RF | Raised Face Flanged | BW | Butt Weld  |
| FF | Flat Faced Flanged  | RJ | Ring Joint |
| SW | Socket Weld         |    |            |

| 8  | Special Options      |    |                    |
|----|----------------------|----|--------------------|
| NC | NACE for H2S Service | CC | Customized Coating |
| OX | Oxygen Cleaning      | BP | By-pass            |
| TF | Teflon Disc Insert   |    |                    |

| 4  | Body Material |    |        |
|----|---------------|----|--------|
| CB | WCB           | S1 | SS 316 |
| LC | LCC           |    |        |

| 9   | Sizes  |     |     |     |     |
|-----|--------|-----|-----|-----|-----|
| 020 | 2"     | 060 | 6"  | 160 | 16" |
| 025 | 2-1/2" | 080 | 8"  | 180 | 18" |
| 030 | 3"     | 100 | 10" | 200 | 20" |
| 040 | 4"     | 120 | 12" | 240 | 24" |
| 050 | 5"     | 140 | 14" |     |     |

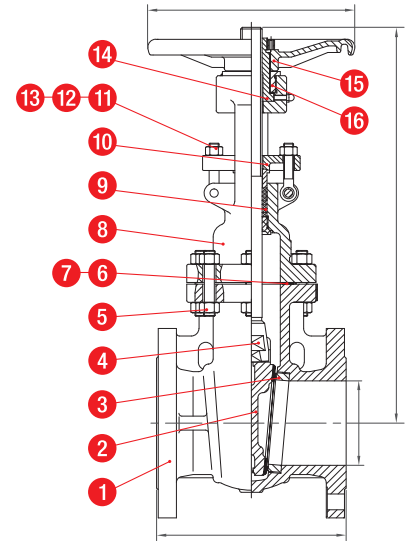
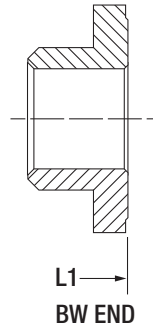
| 5 | Bonnet Option       |   |               |
|---|---------------------|---|---------------|
| 2 | Bolted Bellows Seal | 4 | Ext. Bonnet   |
| 3 | Welded Bellows Seal | 5 | Pressure Seal |



# GF01RF

## Description

- Carbon or Stainless Steel Body and Bonnet
- Outside Screw and Yoke (OS&Y)
- Bolted Bonnet / Rising Stem / Non-Rising Handwheel
- Copper Alloy Stem Nut (Standard), A439 D2 Stem Nut (NACE)
- Flexible Wedge and Welded HF Seat Rings
- Available in multiple trim configurations
- 2"-24" ANSI 150# RF Flanges
- Gear Operator for valves 14" and above
- Designed to API 600 & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598
- RTJ connections available upon request as per ASME B16.34



| Dimensions |     |      |     |      |      |      |     |      |         |       |          |      |        |     |
|------------|-----|------|-----|------|------|------|-----|------|---------|-------|----------|------|--------|-----|
| Size       | L   |      | W   |      | H    |      | d   |      | L1 (BW) |       | L2 (RTJ) |      | Weight |     |
|            | mm  | in   | mm  | in   | mm   | in   | mm  | in   | mm      | in    | mm       | in   | kg     | lbs |
| 2"         | 178 | 7.0  | 200 | 7.9  | 387  | 15.2 | 51  | 2.0  | 216     | 8.5   | 191      | 7.5  | 16     | 34  |
| 2½"        | 191 | 7.5  | 200 | 7.9  | 435  | 17.1 | 64  | 2.5  | 241     | 9.5   | 203      | 8    | 19     | 42  |
| 3"         | 203 | 8.0  | 250 | 9.8  | 481  | 18.9 | 76  | 3.0  | 283     | 11.13 | 216      | 8.5  | 27     | 60  |
| 4"         | 229 | 9.0  | 280 | 11.0 | 585  | 23.0 | 102 | 4.0  | 305     | 12    | 242      | 9.5  | 41     | 91  |
| 5"         | 254 | 10.0 | 280 | 11.0 | 681  | 26.8 | 127 | 5.0  | 381     | 15    | 267      | 10.5 | 51     | 112 |
| 6"         | 267 | 10.5 | 300 | 11.8 | 765  | 30.1 | 152 | 6.0  | 403     | 15.88 | 279      | 11   | 66     | 146 |
| 8"         | 292 | 11.5 | 355 | 14.0 | 956  | 37.6 | 203 | 8.0  | 419     | 16.5  | 305      | 12   | 109    | 239 |
| 10"        | 330 | 13.0 | 400 | 15.7 | 1149 | 45.2 | 254 | 10.0 | 457     | 18    | 343      | 13.5 | 160    | 352 |
| 12"        | 356 | 14.0 | 450 | 17.7 | 1351 | 53.2 | 305 | 12.0 | 502     | 19.75 | 368      | 14.5 | 265    | 583 |

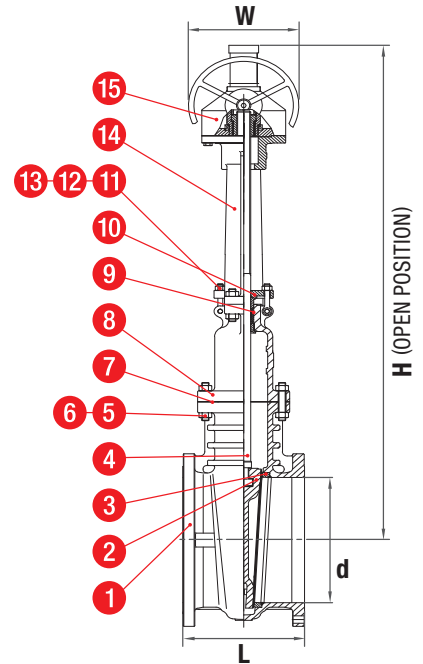
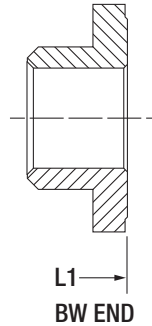
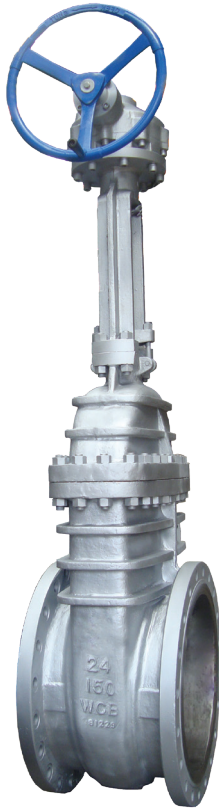
| No. | Part Name     | WCB Body               |                        | WCB Body NACE              |                            | CF8M Body               |                             | LCC Body NACE                   |
|-----|---------------|------------------------|------------------------|----------------------------|----------------------------|-------------------------|-----------------------------|---------------------------------|
|     |               | GF01RFCB108HW (Trim 8) | GF01RFCB105HW (Trim 5) | GF01RFC-B108HW-NC (Trim 8) | GF01RFC-B105HW-NC (Trim 5) | GF01RFS1110HW (Trim 10) | GF01RF-S1112HW-NC (Trim 12) | GF01RFLC112(ST) HW-NC (Trim 12) |
| 1   | Body          | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 2   | Wedge         | A216 WCB+13Cr          | A216 WCB+STL           | A216 WCB+13Cr              | A216 WCB+STL               | A351 CF8M               | A351 CF8M                   | A351 CF8M                       |
| 3   | Seat          | A105+STL               | A105+STL               | A105+STL                   | A105+STL                   | Integral                | Integral+STL                | 316+STL                         |
| 4   | Stem          | A182 F6a               | A182 F6a               | A182 F6a                   | A182 F6a                   | 316                     | 316                         | 316                             |
| 5   | Bolt          | A193 B7                | A193 B7                | A193 B7M                   | A193 B7M                   | A193 B8M                | A193 B8M                    | A320 L7M                        |
| 6   | Nut           | A194 2H                | A194 2H                | A194 2HM                   | A194 2HM                   | A194 8M                 | A194 8M                     | A194 4M                         |
| 7   | Gasket        | Flex.Graphite+304      | Flex.Graphite+304      | Flex.Graphite+304          | Flex.Graphite+304          | Flex.Graphite+316       | Flex.Graphite+316           | Flex.Graphite+304               |
| 8   | Bonnet        | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 9   | Packing       | Flexible Graphite      | Flexible Graphite      | Flexible Graphite          | Flexible Graphite          | Flexible Graphite       | Flexible Graphite           | Flexible Graphite               |
| 10  | Gland Flange  | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 11  | Eye Bolt      | A193 B7                | A193 B7                | A193 B7M                   | A193 B7M                   | A193 B8M                | A193 B8M                    | A320 L7M                        |
| 12  | Nut           | A194 2H                | A194 2H                | A194 2HM                   | A194 2HM                   | A194 8M                 | A194 8M                     | A194 4M                         |
| 13  | Pin           | A276 410               | A276 410               | A276 410                   | A276 410                   | A276-316                | A276-316                    | A276 410                        |
| 14  | Stem nut      | Copper Alloy           | Copper Alloy           | A439 D2                    | A439 D2                    | Copper Alloy            | Copper Alloy                | A439 D2                         |
| 15  | Hand Wheel    | Carbon steel           | Carbon steel           | Carbon steel               | Carbon steel               | Carbon steel            | Carbon steel                | Carbon steel                    |
| 16  | Bearing Gland | ASTM 1035              | ASTM 1035              | ASTM 1035                  | ASTM 1035                  | ASTM 1035               | ASTM 1035                   | ASTM 1035                       |

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# GF01RF

## Description

- Carbon or Stainless Steel Body and Bonnet
- Outside Screw and Yoke (OS&Y)
- Bolted Bonnet / Rising Stem
- Copper Alloy Stem Nut (Standard), A439 D2 Stem Nut (NACE)
- Flexible Wedge and Welded HF Seat Rings
- Available in multiple trim configurations
- 2"-24" ANSI 150# RF Flanges
- Gear Operator for valves 14" and above
- Designed to API 600 & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598
- RTJ connections available upon request as per ASME B16.34



| Dimensions |     |      |     |      |      |      |     |      |         |      |          |      |        |      |
|------------|-----|------|-----|------|------|------|-----|------|---------|------|----------|------|--------|------|
| Size       | L   |      | W   |      | H    |      | d   |      | L1 (BW) |      | L2 (RTJ) |      | Weight |      |
|            | mm  | in   | mm  | in   | mm   | in   | mm  | in   | mm      | in   | mm       | in   | kg     | lbs  |
| 14"        | 381 | 15.0 | 460 | 18.1 | 1508 | 59.4 | 337 | 13.3 | 572     | 22.5 | 394      | 15.5 | 399    | 879  |
| 16"        | 406 | 16.0 | 460 | 18.1 | 1703 | 67.0 | 387 | 15.3 | 610     | 24   | 419      | 16.5 | 486    | 1071 |
| 18"        | 432 | 17.0 | 610 | 24.0 | 1892 | 74.5 | 438 | 17.3 | 660     | 26   | 445      | 17.5 | 660    | 1454 |
| 20"        | 457 | 18.0 | 610 | 24.0 | 2119 | 83.4 | 489 | 19.3 | 711     | 28   | 470      | 18.5 | 865    | 1907 |
| 24"        | 508 | 20.0 | 610 | 24.0 | 2500 | 98.4 | 591 | 23.3 | 813     | 32   | 521      | 20.5 | 1184   | 2610 |

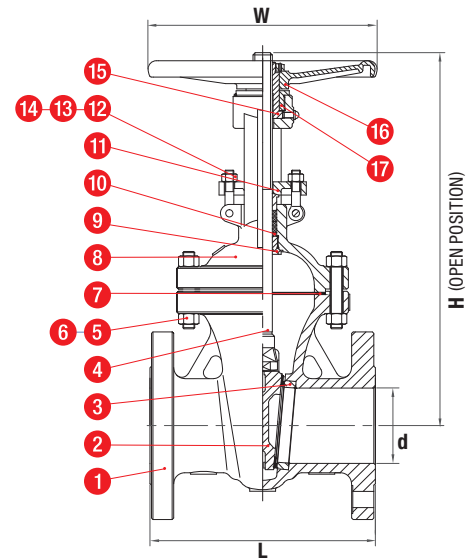
| No. | Part Name     | WCB Body               |                        | WCB Body NACE              |                            | CF8M Body                |                             | LCC Body NACE                   |
|-----|---------------|------------------------|------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|---------------------------------|
|     |               | GF01RFCB108GO (Trim 8) | GF01RFCB105GO (Trim 5) | GF01RFCB-108GO-NC (Trim 8) | GF01RFCB-105GO-NC (Trim 5) | GF01RFS-1110GO (Trim 10) | GF01RFS-1112GO-NC (Trim 12) | GF01RFLC112 (ST)GO-NC (Trim 12) |
| 1   | Body          | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M                | A351 CF8M                   | A352 LCC                        |
| 2   | Wedge         | A216 WCB+13Cr          | A216 WCB+STL           | A216 WCB+STL               | A216 WCB+STL               | A351 CF8M                | A351 CF8M                   | A351 CF8M                       |
| 3   | Seat          | A105+STL               | A105+STL               | A105+STL                   | A105+STL                   | Integral                 | Integral+STL                | 316+STL                         |
| 4   | Stem          | A182 F6a               | A182 F6a               | A182 F6a                   | A182 F6a                   | 316                      | 316                         | 316                             |
| 5   | Bolt          | A193 B7                | A193 B7                | A193 B7                    | A193 B7M                   | A193 B8M                 | A193 B8M                    | A320 L7M                        |
| 6   | Nut           | A194 2H                | A194 2H                | A194 2H                    | A194 2HM                   | A194 8M                  | A194 8M                     | A194 4M                         |
| 7   | Gasket        | Flex.Graphite+304      | Flex.Graphite+304      | Flex.Graphite+304          | Flex.Graphite+304          | Flex.Graphite+316        | Flex.Graphite+316           | Flex.Graphite+304               |
| 8   | Bonnet        | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M                | A351 CF8M                   | A352 LCC                        |
| 9   | Packing       | Flexible Graphite      | Flexible Graphite      | Flexible Graphite          | Flexible Graphite          | Flexible Graphite        | Flexible Graphite           | Flexible Graphite               |
| 10  | Gland Flange  | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M                | A351 CF8M                   | A352 LCC                        |
| 11  | Eye Bolt      | A193 B7                | A193 B7                | A193 B7                    | A193 B7M                   | A193 B8M                 | A193 B8M                    | A320 L7M                        |
| 12  | Nut           | A194 2H                | A194 2H                | A194 2H                    | A194 2HM                   | A194 8M                  | A194 8M                     | A194 4M                         |
| 13  | Pin           | A276 410               | A276 410               | A276 410                   | A276 410                   | A276-316                 | A276-316                    | A276 410                        |
| 14  | York          | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M                | A351 CF8M                   | A352 LCC                        |
| 15  | Gear Operator | Various Mat'ls         | Various Mat'ls         | Various Mat'ls             | Various Mat'ls             | Various Mat'ls           | Various Mat'ls              | Various Mat'ls                  |
| 16  | Stem nut      | Copper Alloy           | Copper Alloy           | A439 D2                    | A439 D2                    | Copper Alloy             | Copper Alloy                | A439 D2                         |

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# GF03RF

## Description

- Carbon or Stainless Steel Body and Bonnet
- Outside Screw and Yoke (OS&Y)
- Bolted Bonnet / Rising Stem
- Copper Alloy Stem Nut (Standard), A439 D2 Stem Nut (NACE)
- Flexible Wedge and Welded HF Seat Rings
- Available in multiple trim configurations
- 2"-24" ANSI 300# RF Flanges
- Gear Operator for valves 14" and above
- Designed to API 600 & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598
- RTJ connections available upon request as per ASME B16.34



| Dimensions |     |      |     |      |      |      |     |      |          |       |        |     |
|------------|-----|------|-----|------|------|------|-----|------|----------|-------|--------|-----|
| Size       | L   |      | W   |      | H    |      | d   |      | L2 (RTJ) |       | Weight |     |
|            | mm  | in   | mm  | in   | mm   | in   | mm  | in   | mm       | in    | kg     | lbs |
| 2"         | 216 | 8.5  | 220 | 8.5  | 410  | 8.7  | 51  | 2.0  | 232      | 9.12  | 23     | 51  |
| 2½"        | 241 | 9.5  | 250 | 9.5  | 453  | 9.8  | 64  | 2.5  | 257      | 10.12 | 31     | 68  |
| 3"         | 283 | 11.1 | 280 | 11.1 | 509  | 11.0 | 76  | 3.0  | 298      | 11.74 | 44     | 98  |
| 4"         | 305 | 12.0 | 280 | 12.0 | 612  | 11.0 | 102 | 4.0  | 321      | 12.62 | 64     | 141 |
| 5"         | 381 | 15.0 | 300 | 15.0 | 670  | 11.8 | 127 | 5.0  | 397      | 15.62 | 95     | 209 |
| 6"         | 403 | 15.9 | 350 | 15.9 | 805  | 13.8 | 152 | 6.0  | 419      | 16.5  | 135    | 298 |
| 8"         | 419 | 16.5 | 400 | 16.5 | 1000 | 15.7 | 203 | 8.0  | 435      | 17.12 | 193    | 426 |
| 10"        | 457 | 18.0 | 450 | 17.7 | 1209 | 47.6 | 254 | 10.0 | 473      | 18.62 | 313    | 689 |
| 12"        | 502 | 19.8 | 500 | 19.7 | 1416 | 55.7 | 305 | 12.0 | 518      | 20.37 | 431    | 951 |

| No. | Part Name     | WCB Body               |                        | WCB Body NACE              |                            | CF8M Body               |                             | LCC Body NACE                   |
|-----|---------------|------------------------|------------------------|----------------------------|----------------------------|-------------------------|-----------------------------|---------------------------------|
|     |               | GF03RFCB108HW (Trim 8) | GF03RFCB105HW (Trim 5) | GF03RFC-B108HW-NC (Trim 8) | GF03RFC-B105HW-NC (Trim 5) | GF03RFS1110HW (Trim 10) | GF03RF-S1112HW-NC (Trim 12) | GF03RFLC112 (ST)HW-NC (Trim 12) |
| 1   | Body          | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 2   | Wedge         | A216 WCB+13Cr          | A216 WCB+STL           | A216 WCB+13Cr              | A216 WCB+STL               | A351 CF8M               | A351 CF8M                   | A351 CF8M                       |
| 3   | Seat          | A105+STL               | A105+STL               | A105+STL                   | A105+STL                   | Integral                | Integral+STL                | 316+STL                         |
| 4   | Stem          | A182 F6a               | A182 F6a               | A182 F6a                   | A182 F6a                   | 316                     | 316                         | 316                             |
| 5   | Bolt          | A193 B7                | A193 B7                | A193 B7M                   | A193 B7M                   | A193 B8M                | A193 B8M                    | A320 L7M                        |
| 6   | Nut           | A194 2H                | A194 2H                | A194 2HM                   | A194 2HM                   | A194 8M                 | A194 8M                     | A194 4M                         |
| 7   | Gasket        | Flex.Graphite+304      | Flex.Graphite+304      | Flex.Graphite+304          | Flex.Graphite+304          | Flex.Graphite+316       | Flex.Graphite+316           | Flex.Graphite+304               |
| 8   | Bonnet        | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 9   | Packing       | Flexible Graphite      | Flexible Graphite      | Flexible Graphite          | Flexible Graphite          | Flexible Graphite       | Flexible Graphite           | Flexible Graphite               |
| 10  | Gland Flange  | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 11  | Eye Bolt      | A193 B7                | A193 B7                | A193 B7M                   | A193 B7M                   | A193 B8M                | A193 B8M                    | A320 L7M                        |
| 12  | Nut           | A194 2H                | A194 2H                | A194 2HM                   | A194 2HM                   | A194 8M                 | A194 8M                     | A194 4M                         |
| 13  | Pin           | A276 410               | A276 410               | A276 410                   | A276 410                   | A276-316                | A276-316                    | A276 410                        |
| 14  | York          | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 15  | Stem nut      | Copper Alloy           | Copper Alloy           | A439 D2                    | A439 D2                    | Copper Alloy            | Copper Alloy                | A439 D2                         |
| 16  | Hand Wheel    | Carbon steel           | Carbon steel           | Carbon steel               | Carbon steel               | Carbon steel            | Carbon steel                | Carbon steel                    |
| 17  | Bearing Gland | ASTM 1035              | ASTM 1035              | ASTM 1035                  | ASTM 1035                  | ASTM 1035               | ASTM 1035                   | ASTM 1035                       |

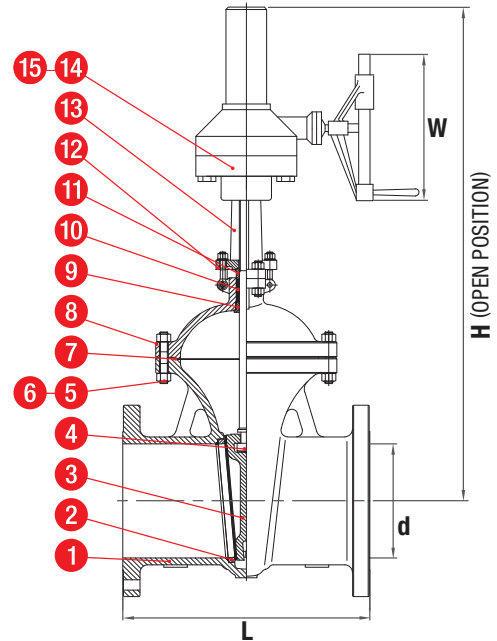
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# GF03RF

## Description

- Carbon or Stainless Steel Body and Bonnet
- Outside Screw and Yoke (OS&Y)
- Bolted Bonnet / Rising Stem
- Copper Alloy Stem Nut (Standard), A439 D2 Stem Nut (NACE)
- Flexible Wedge and Welded HF Seat Rings
- Available in multiple trim configurations
- 2"-24" ANSI 300# RF Flanges
- Gear Operator for valves 14" and above
- Designed to API 600 & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598
- RTJ connections available upon request as per ASME B16.34



| Dimensions |      |    |     |      |      |       |     |      |          |       |        |      |
|------------|------|----|-----|------|------|-------|-----|------|----------|-------|--------|------|
| Size       | L    |    | W   |      | H    |       | d   |      | L2 (RTJ) |       | Weight |      |
|            | mm   | in | mm  | in   | mm   | in    | mm  | in   | mm       | in    | kg     | lbs  |
| 14"        | 762  | 30 | 460 | 18.1 | 1582 | 62.3  | 337 | 13.3 | 778      | 30.62 | 736    | 1623 |
| 16"        | 838  | 33 | 460 | 18.1 | 1725 | 67.9  | 387 | 15.3 | 854      | 33.62 | 950    | 2094 |
| 18"        | 914  | 36 | 610 | 24.0 | 1959 | 77.1  | 432 | 17.0 | 930      | 36.62 | 1174   | 2588 |
| 20"        | 991  | 39 | 610 | 24.0 | 2194 | 86.4  | 483 | 19.0 | 1010     | 39.75 | 1583   | 3489 |
| 24"        | 1143 | 45 | 610 | 24.0 | 2598 | 102.3 | 584 | 23.0 | 1165     | 45.88 | TBA    | TBA  |

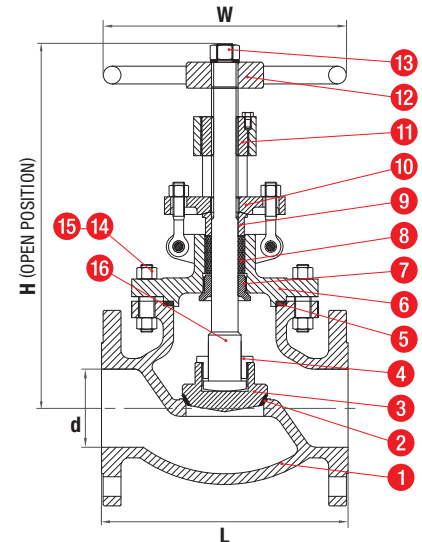
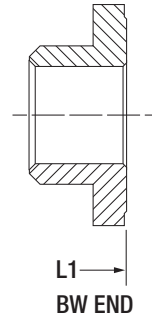
| No. | Part Name     | WCB Body               |                        | WCB Body NACE              |                            | CF8M Body               |                             | LCC Body NACE                   |
|-----|---------------|------------------------|------------------------|----------------------------|----------------------------|-------------------------|-----------------------------|---------------------------------|
|     |               | GF03RFCB108GO (Trim 8) | GF03RFCB105GO (Trim 5) | GF03RFCB-108GO-NC (Trim 8) | GF03RFCB-105GO-NC (Trim 5) | GF03RFS1110GO (Trim 10) | GF03RFS-1112GO-NC (Trim 12) | GF03RFLC112 (ST)GO-NC (Trim 12) |
| 1   | Body          | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 2   | Seat          | A105+STL               | A105+STL               | A105+STL                   | A105+STL                   | Integral                | Integral+STL                | A351 CF8M                       |
| 3   | Wedge         | A216 WCB+13Cr          | A216 WCB+STL           | A216 WCB+13Cr              | A216 WCB+STL               | A351 CF8M               | A351 CF8M                   | 316+STL                         |
| 4   | Stem          | A182 F6a               | A182 F6a               | A182 F6a                   | A182 F6a                   | A182 F316               | A182 F316                   | 316                             |
| 5   | Bonnet Bolt   | A193 B7                | A193 B7                | A193 B7M                   | A193 B7M                   | A193 B8M                | A193 B8M                    | A320 L7M                        |
| 6   | Bonnet Nut    | A194 2H                | A194 2H                | A194 2HM                   | A194 2HM                   | A194 8M                 | A194 8M                     | A194 4M                         |
| 7   | Gasket        | Flex.Graphite+304      | Flex.Graphite+304      | Flex.Graphite+304          | Flex.Graphite+304          | Flex.Graphite+316       | Flex.Graphite+316           | Flex.Graphite+304               |
| 8   | Bonnet        | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 9   | Back seat     | A276 410               | A276 410               | A276 410                   | A276 410                   | Integral                | Integral                    | 316                             |
| 10  | Packing       | Flexible Graphite      | Flexible Graphite      | Flexible Graphite          | Flexible Graphite          | Flexible Graphite       | Flexible Graphite           | Flexible Graphite               |
| 11  | Gland Bushing | A276 410               | A276 410               | A276 410                   | A276 410                   | A276-316                | A276-316                    | A276 410                        |
| 12  | Gland Flange  | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 13  | York          | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 14  | Stem nut      | Copper Alloy           | Copper Alloy           | A439 D2                    | A439 D2                    | Copper Alloy            | Copper Alloy                | A439 D2                         |
| 15  | Gear Operator | Various Mat'ls         | Various Mat'ls         | Various Mat'ls             | Various Mat'ls             | Various Mat'ls          | Various Mat'ls              | Various Mat'ls                  |

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# SL01RF

## Description

- Carbon or Stainless Steel Body and Bonnet
- Outside Screw and Yoke (OS&Y)
- Bolted Bonnet / Rising Stem
- Copper Alloy Stem Nut (Standard), A439 D2 Stem Nut (NACE)
- Swivel Disc and Welded HF Seat Ring
- Available in multiple trim configurations
- 2"-16" ANSI 150# RF Flanges
- Gear Operator for valves 12" and above
- Designed to API 600, API 623 & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598
- RTJ connections available upon request as per ASME B16.34



| Dimensions |     |      |     |      |     |      |     |      |         |      |          |      |        |     |
|------------|-----|------|-----|------|-----|------|-----|------|---------|------|----------|------|--------|-----|
| Size       | L   |      | W   |      | H   |      | d   |      | L1 (BW) |      | L2 (RTJ) |      | Weight |     |
|            | mm  | in   | mm  | in   | mm  | in   | mm  | in   | mm      | in   | mm       | in   | kg     | lbs |
| 2"         | 203 | 8.0  | 200 | 7.9  | 338 | 13.3 | 51  | 2.0  | 203     | 8.0  | 216      | 8.5  | 17     | 38  |
| 2½"        | 216 | 8.5  | 200 | 7.9  | 373 | 14.7 | 64  | 2.5  | 216     | 8.5  | 229      | 9    | 25     | 54  |
| 3"         | 241 | 9.5  | 250 | 9.8  | 396 | 15.6 | 76  | 3.0  | 241     | 9.5  | 254      | 10   | 31     | 68  |
| 4"         | 292 | 11.5 | 280 | 11.0 | 476 | 18.7 | 102 | 4.0  | 292     | 11.5 | 305      | 12   | 47     | 104 |
| 5"         | 356 | 14.0 | 300 | 11.8 | 497 | 19.6 | 127 | 5.0  | 356     | 14.0 | 369      | 14.5 | 71     | 157 |
| 6"         | 406 | 16.0 | 350 | 13.8 | 524 | 20.6 | 152 | 6.0  | 406     | 16.0 | 419      | 16.5 | 86     | 189 |
| 8"         | 495 | 19.5 | 400 | 15.7 | 588 | 23.1 | 203 | 8.0  | 495     | 19.5 | 508      | 20   | 145    | 321 |
| 10"        | 622 | 24.5 | 500 | 19.7 | 738 | 29.1 | 254 | 10.0 | 622     | 24.5 | 635      | 25   | 267    | 588 |

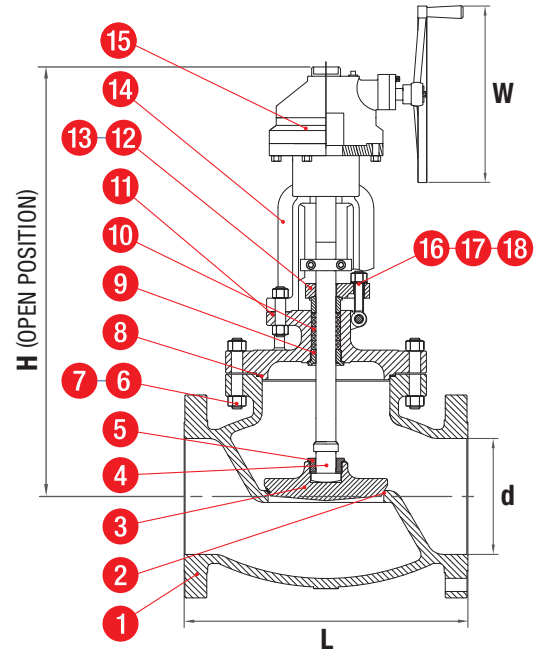
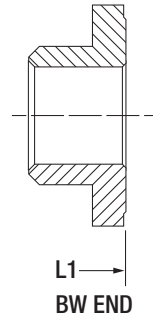
| No. | Part Name    | WCB Body               |                        | WCB Body NACE              |                            | CF8M Body               |                             | LCC Body NACE                   |
|-----|--------------|------------------------|------------------------|----------------------------|----------------------------|-------------------------|-----------------------------|---------------------------------|
|     |              | SL01RFCB108HW (Trim 8) | SL01RFCB105HW (Trim 5) | SL01RFC-B108HW-NC (Trim 8) | SL01RFC-B105HW-NC (Trim 5) | SL01RFS1110HW (Trim 10) | SL01RF-S1112HW-NC (Trim 12) | SL01RFLC112 (ST)HW-NC (Trim 12) |
| 1   | Body         | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 2   | Seat         | Integral+STL           | Integral+STL           | Integral+STL               | Integral+STL               | Integral                | Integral+STL                | Integral+STL                    |
| 3   | Disc         | A105+13Cr              | A105+STL               | A105+13Cr                  | A105+STL                   | 316                     | 316                         | 316                             |
| 4   | Disc Cover   | ASTM 1035              | ASTM 1035              | ASTM 1035                  | ASTM 1035                  | 316                     | 316                         | 316                             |
| 5   | Gasket       | Flex.Graphite+304      | Flex.Graphite+304      | Flex.Graphite+304          | Flex.Graphite+304          | Flex.Graphite+316       | Flex.Graphite+316           | Flex.Graphite+304               |
| 6   | Bonnet       | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 7   | Back seat    | A276 410               | A276 410               | A276 410                   | A276 410                   | Integral                | Integral                    | A276 410                        |
| 8   | Packing      | Flexible Graphite      | Flexible Graphite      | Flexible Graphite          | Flexible Graphite          | Flexible Graphite       | Flexible Graphite           | Flexible Graphite               |
| 9   | Gland        | A276 410               | A276 410               | A276 410                   | A276 410                   | A276-316                | A276-316                    | 316                             |
| 10  | Gland Flange | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 11  | Stem nut     | Copper Alloy           | Copper Alloy           | A439 D2                    | A439 D2                    | Copper Alloy            | Copper Alloy                | A439 D2                         |
| 12  | Hand Wheel   | Carbon steel           | Carbon steel           | Carbon steel               | Carbon steel               | Carbon steel            | Carbon steel                | Carbon steel                    |
| 13  | Lock Nut     | 1045                   | 1045                   | 1045                       | 1045                       | 1045                    | 1045                        | 1045                            |
| 14  | Bonnet Nut   | A194 2H                | A194 2H                | A194 2HM                   | A194 2HM                   | A194 8M                 | A194 8M                     | A194 4M                         |
| 15  | Bonnet Bolt  | A193 B7                | A193 B7                | A193 B7M                   | A193 B7M                   | A193 B8M                | A193 B8M                    | A320 L7M                        |
| 16  | Stem         | A182 F6a               | A182 F6a               | A182 F6a                   | A182 F6a                   | A182 F316               | A182 F316                   | A182 F316                       |

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# SL01RF

## Description

- Carbon or Stainless Steel Body and Bonnet
- Outside Screw and Yoke (OS&Y)
- Bolted Bonnet / Rising Stem
- Copper Alloy Stem Nut (Standard), A439 D2 Stem Nut (NACE)
- Swivel Disc and Welded HF Seat Ring
- Available in multiple trim configurations
- 2"-16" ANSI 150# RF Flanges
- Gear Operator for valves 12" and above
- Designed to API 600, API 623 & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598
- RTJ connections available upon request as per ASME B16.34



| Dimensions |     |      |     |      |     |      |     |      |         |      |          |      |        |      |
|------------|-----|------|-----|------|-----|------|-----|------|---------|------|----------|------|--------|------|
| Size       | L   |      | W   |      | H   |      | d   |      | L1 (BW) |      | L2 (RTJ) |      | Weight |      |
|            | mm  | in   | mm  | in   | mm  | in   | mm  | in   | mm      | in   | mm       | in   | kg     | lbs  |
| 12"        | 698 | 27.5 | 460 | 18.1 | 862 | 33.9 | 305 | 12.0 | 698     | 27.5 | 711      | 28   | 439    | 968  |
| 14"        | 787 | 31.0 | 610 | 24.0 | 950 | 37.4 | 337 | 13.3 | 787     | 31.0 | 800      | 31.5 | 671    | 1478 |
| 16"        | 914 | 36.0 | 610 | 24.0 | 994 | 39.1 | 387 | 15.2 | 914     | 36.0 | 927      | 36.5 | 784    | 1728 |

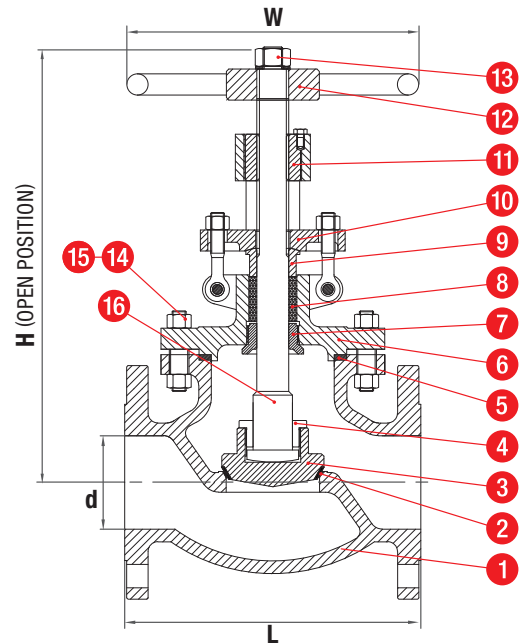
| No. | Part Name     | WCB Body               |                        | WCB Body NACE              |                            | CF8M Body               |                             | LCC Body NACE                   |
|-----|---------------|------------------------|------------------------|----------------------------|----------------------------|-------------------------|-----------------------------|---------------------------------|
|     |               | SL01RFCB108GO (Trim 8) | SL01RFCB105GO (Trim 5) | SL01RFCB-108GO-NC (Trim 8) | SL01RFCB-105GO-NC (Trim 5) | SL01RFS1110GO (Trim 10) | SL01RFS-1112GO-NC (Trim 12) | SL01RFLC112 (ST)GO-NC (Trim 12) |
| 1   | Body          | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 2   | Seat          | Integral+STL           | Integral+STL           | Integral+STL               | Integral+STL               | Integral                | Integral+STL                | Integral+STL                    |
| 3   | Disc          | A105+13Cr              | A105+STL               | A105+13Cr                  | A105+STL                   | 316                     | 316                         | 316                             |
| 4   | Stem          | A182 F6a               | A182 F6a               | A182 F6a                   | A182 F6a                   | A182 F316               | A182 F316                   | A182 F316                       |
| 5   | Disc Cover    | ASTM 1035              | ASTM 1035              | ASTM 1035                  | ASTM 1035                  | 316                     | 316                         | 316                             |
| 6   | Bonnet Bolt   | A193 B7                | A193 B7                | A193 B7M                   | A193 B7M                   | A193 B8M                | A193 B8M                    | A320 L7M                        |
| 7   | Bonnet Nut    | A194 2H                | A194 2H                | A194 2HM                   | A194 2HM                   | A194 8M                 | A194 8M                     | A194 4M                         |
| 8   | Gasket        | Flex.Graphite+304      | Flex.Graphite+304      | Flex.Graphite+304          | Flex.Graphite+304          | Flex.Graphite+304       | Flex.Graphite+304           | Flex.Graphite+304               |
| 9   | Back seat     | A276 410               | A276 410               | A276 410                   | A276 410                   | Integral                | Integral                    | 316                             |
| 10  | Packing       | Flexible Graphite      | Flexible Graphite      | Flexible Graphite          | Flexible Graphite          | Flexible Graphite       | Flexible Graphite           | Flexible Graphite               |
| 11  | Bonnet        | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 12  | Gland         | A276 410               | A276 410               | A276 410                   | A276 410                   | A276-316                | A276-316                    | A276 410                        |
| 13  | Gland Flange  | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 14  | Yoke          | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 15  | Stem nut      | Copper Alloy           | Copper Alloy           | A439 D2                    | A439 D2                    | Copper Alloy            | Copper Alloy                | A439 D2                         |
| 16  | Eye Bolt      | A193 B7                | A193 B7                | A193 B7M                   | A193 B7M                   | A193 B8M                | A193 B8M                    | A320 L7M                        |
| 17  | Washer        | A36                    | A36                    | A36                        | A36                        | A36                     | A36                         | A36                             |
| 18  | Nut           | A194 2H                | A194 2H                | A194 2HM                   | A194 2HM                   | A194 8M                 | A194 8M                     | A194 4M                         |
| 19  | Gear Operator | Various Mat'ls         | Various Mat'ls         | Various Mat'ls             | Various Mat'ls             | Various Mat'ls          | Various Mat'ls              | Various Mat'ls                  |

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- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598



| Dimensions |     |      |     |      |       |      |     |     |        |     |
|------------|-----|------|-----|------|-------|------|-----|-----|--------|-----|
| Size       | L   |      | W   |      | H     |      | d   |     | Weight |     |
|            | mm  | in   | mm  | in   | mm    | in   | mm  | in  | kg     | lbs |
| 2"         | 267 | 10.5 | 200 | 7.9  | 353.5 | 13.9 | 51  | 2.0 | 22     | 47  |
| 2½"        | 292 | 11.5 | 250 | 9.8  | 388.5 | 15.3 | 64  | 2.5 | 30     | 66  |
| 3"         | 318 | 12.5 | 280 | 11.0 | 420.5 | 16.6 | 76  | 3.0 | 43     | 94  |
| 4"         | 356 | 14.0 | 315 | 12.4 | 495.5 | 19.5 | 102 | 4.0 | 61     | 135 |
| 5"         | 400 | 15.7 | 350 | 13.8 | 576.5 | 22.7 | 127 | 5.0 | 96     | 211 |
| 6"         | 444 | 17.5 | 400 | 15.7 | 674.5 | 26.6 | 152 | 6.0 | 137    | 302 |
| 8"         | 559 | 22.0 | 450 | 17.7 | 911.5 | 35.9 | 203 | 8.0 | 258    | 568 |

| No. | Part Name    | WCB Body               |                        | WCB Body NACE              |                            | CF8M Body               |                             | LCC Body NACE                   |
|-----|--------------|------------------------|------------------------|----------------------------|----------------------------|-------------------------|-----------------------------|---------------------------------|
|     |              | SL03RFCB108HW (Trim 8) | SL03RFCB105HW (Trim 5) | SL03RFC-B108HW-NC (Trim 8) | SL03RFC-B105HW-NC (Trim 5) | SL03RFS1110HW (Trim 10) | SL03RF-S1112HW-NC (Trim 12) | SL03RFLC112 (ST)HW-NC (Trim 12) |
| 1   | Body         | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 2   | Seat         | Integral+STL           | Integral+STL           | Integral+STL               | Integral+STL               | Integral                | Integral+STL                | Integral+STL                    |
| 3   | Disc         | A105+13Cr              | A105+STL               | A105+13Cr                  | A105+STL                   | 316                     | 316                         | 316                             |
| 4   | Disc Cover   | ASTM 1035              | ASTM 1035              | ASTM 1035                  | ASTM 1035                  | 316                     | 316                         | 316                             |
| 5   | Gasket       | Flex.Graphite+304      | Flex.Graphite+304      | Flex.Graphite+304          | Flex.Graphite+304          | Flex.Graphite+316       | Flex.Graphite+316           | Flex.Graphite+304               |
| 6   | Bonnet       | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 7   | Back seat    | A276 410               | A276 410               | A276 410                   | A276 410                   | Integral                | Integral                    | 316                             |
| 8   | Packing      | Flexible Graphite      | Flexible Graphite      | Flexible Graphite          | Flexible Graphite          | Flexible Graphite       | Flexible Graphite           | Flexible Graphite               |
| 9   | Gland        | A276 410               | A276 410               | A276 410                   | A276 410                   | A276-316                | A276-316                    | A276 410                        |
| 10  | Gland Flange | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M               | A351 CF8M                   | A352 LCC                        |
| 11  | Stem nut     | Copper Alloy           | Copper Alloy           | A439 D2                    | A439 D2                    | Copper Alloy            | Copper Alloy                | A439 D2                         |
| 12  | Hand Wheel   | Carbon steel           | Carbon steel           | Carbon steel               | Carbon steel               | Carbon steel            | Carbon steel                | Carbon steel                    |
| 13  | Lock Nut     | 1045                   | 1045                   | 1045                       | 1045                       | 1045                    | 1045                        | 1045                            |
| 14  | Bonnet Nut   | A194 2H                | A194 2H                | A194 2HM                   | A194 2HM                   | A194 8M                 | A194 8M                     | A194 4M                         |
| 15  | Bonnet Bolt  | A193 B7                | A193 B7                | A193 B7M                   | A193 B7M                   | A193 B8M                | A193 B8M                    | A320 L7M                        |
| 16  | Stem         | A182 F6a               | A182 F6a               | A182 F6a                   | A182 F6a                   | A182 F316               | A182 F316                   | A182 F316                       |

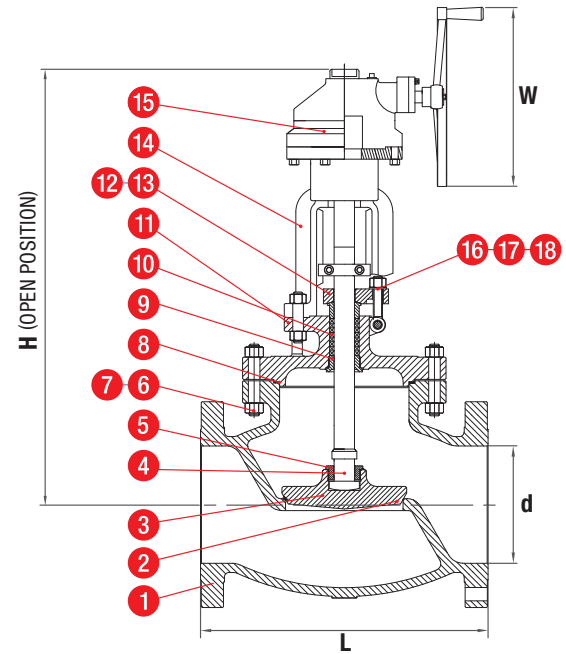
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# SL03RF

## Description

- Carbon or Stainless Steel Body and Bonnet
- Outside Screw and Yoke (OS&Y)
- Bolted Bonnet / Rising Stem
- Copper Alloy Stem Nut (Standard), A439 D2 Stem Nut (NACE)
- Swivel Disc and Welded HF Seat Ring
- Available in multiple trim configurations
- 2"-16" ANSI 300# RF Flanges
- Gear Operator for valves 10" and above
- Designed to API 600, API 623 & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598



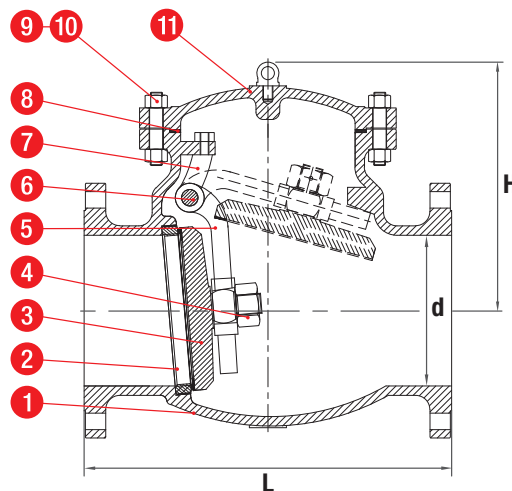
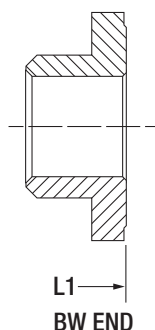
Dimensions

| Size | L   |      | W   |      | H    |      | d   |      | Weight |      |
|------|-----|------|-----|------|------|------|-----|------|--------|------|
|      | mm  | in   | mm  | in   | mm   | in   | mm  | in   | kg     | lbs  |
| 10"  | 622 | 24.5 | 610 | 24.0 | 949  | 37.4 | 254 | 10.0 | 355    | 783  |
| 12"  | 711 | 28.0 | 610 | 24.0 | 1032 | 40.6 | 305 | 12.0 | 506    | 1115 |
| 14"  | 838 | 33.0 | 610 | 24.0 | 1130 | 44.5 | 337 | 13.3 | 675    | 1488 |
| 16"  | 864 | 34.0 | 610 | 24.0 | 1310 | 51.6 | 387 | 15.2 | TBA    | TBA  |

| No. | Part Name     | WCB Body               |                        | WCB Body NACE              |                            | CF8M Body                |                             | LCC Body NACE                   |
|-----|---------------|------------------------|------------------------|----------------------------|----------------------------|--------------------------|-----------------------------|---------------------------------|
|     |               | SL03RFCB108GO (Trim 8) | SL03RFCB105GO (Trim 5) | SL03RFCB-108GO-NC (Trim 8) | SL03RFCB-105GO-NC (Trim 5) | SL03RFS-1110GO (Trim 10) | SL03RFS-1112GO-NC (Trim 12) | SL03RFLC112 (ST)GO-NC (Trim 12) |
| 1   | Body          | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M                | A351 CF8M                   | A352 LCC                        |
| 2   | Seat          | Integral+STL           | Integral+STL           | Integral+STL               | Integral+STL               | Integral                 | Integral+STL                | Integral+STL                    |
| 3   | Disc          | A105+13Cr              | A105+STL               | A105+13Cr                  | A105+STL                   | 316                      | 316                         | 316                             |
| 4   | Stem          | A182 F6a               | A182 F6a               | A182 F6a                   | A182 F6a                   | A182 F316                | A182 F316                   | A182 F316                       |
| 5   | Disc Cover    | ASTM 1035              | ASTM 1035              | ASTM 1035                  | ASTM 1035                  | 316                      | 316                         | 316                             |
| 6   | Bonnet Bolt   | A193 B7                | A193 B7                | A193 B7M                   | A193 B7M                   | A193 B8M                 | A193 B8M                    | A320 L7M                        |
| 7   | Bonnet Nut    | A194 2H                | A194 2H                | A194 2HM                   | A194 2HM                   | A194 8M                  | A194 8M                     | A194 4M                         |
| 8   | Gasket        | Flex.Graphite+304      | Flex.Graphite+304      | Flex.Graphite+304          | Flex.Graphite+304          | Flex.Graphite+304        | Flex.Graphite+304           | Flex.Graphite+304               |
| 9   | Back seat     | A276 410               | A276 410               | A276 410                   | A276 410                   | Integral                 | Integral                    | 316                             |
| 10  | Packing       | Flexible Graphite      | Flexible Graphite      | Flexible Graphite          | Flexible Graphite          | Flexible Graphite        | Flexible Graphite           | Flexible Graphite               |
| 11  | Bonnet        | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M                | A351 CF8M                   | A352 LCC                        |
| 12  | Gland         | A276 410               | A276 410               | A276 410                   | A276 410                   | A276-316                 | A276-316                    | A276 410                        |
| 13  | Gland Flange  | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M                | A351 CF8M                   | A352 LCC                        |
| 14  | Yoke          | A216 WCB               | A216 WCB               | A216 WCB                   | A216 WCB                   | A351 CF8M                | A351 CF8M                   | A352 LCC                        |
| 15  | Stem nut      | Copper Alloy           | Copper Alloy           | A439 D2                    | A439 D2                    | Copper Alloy             | Copper Alloy                | A439 D2                         |
| 16  | Eye Bolt      | A193 B7                | A193 B7                | A193 B7M                   | A193 B7M                   | A193 B8M                 | A193 B8M                    | A320 L7M                        |
| 17  | Washer        | A36                    | A36                    | A36                        | A36                        | A36                      | A36                         | A36                             |
| 18  | Nut           | A194 2H                | A194 2H                | A194 2HM                   | A194 2HM                   | A194 8M                  | A194 8M                     | A194 4M                         |
| 19  | Gear Operator | Various Mat'ls         | Various Mat'ls         | Various Mat'ls             | Various Mat'ls             | Various Mat'ls           | Various Mat'ls              | Various Mat'ls                  |

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## CS01RF



## Description

- Carbon or Stainless Steel Body and Cap/Bonnet
- Swivel Disc and Welded HF Seat Ring
- Available in multiple trim configurations
- 2"– 24" ANSI 150# RF Flanges
- Designed to API 6D & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598
- RTJ connections available upon request as per ASME B16.34

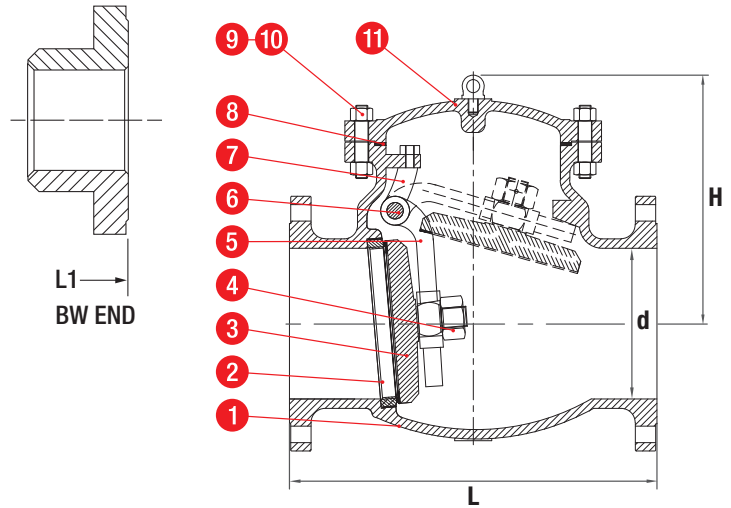
## Dimensions

| Size | L    |      | H   |      | d   |      | L1 (BW) |      | L2 (RTJ) |      | Weight |      |
|------|------|------|-----|------|-----|------|---------|------|----------|------|--------|------|
|      | mm   | in   | mm  | in   | mm  | in   | mm      | in   | mm       | in   | kg     | lbs  |
| 2"   | 203  | 8.0  | 151 | 5.9  | 51  | 2.0  | 203     | 8.0  | 216      | 8.5  | 15     | 32   |
| 2½"  | 216  | 8.5  | 168 | 6.6  | 64  | 2.5  | 216     | 8.5  | 229      | 9    | 21     | 46   |
| 3"   | 241  | 9.5  | 171 | 6.7  | 76  | 3.0  | 241     | 9.5  | 254      | 10   | 27     | 60   |
| 4"   | 292  | 11.5 | 204 | 8.0  | 102 | 4.0  | 292     | 11.5 | 305      | 12   | 39     | 87   |
| 5"   | 330  | 13.0 | 230 | 9.1  | 125 | 4.9  | 330     | 13.0 | 343      | 13.5 | 56     | 124  |
| 6"   | 356  | 14.0 | 297 | 11.7 | 152 | 6.0  | 356     | 14.0 | 369      | 14.5 | 68     | 150  |
| 8"   | 495  | 19.5 | 352 | 13.8 | 203 | 8.0  | 495     | 19.5 | 508      | 20   | 127    | 279  |
| 10"  | 622  | 24.5 | 370 | 14.5 | 254 | 10.0 | 622     | 24.5 | 635      | 25   | 193    | 426  |
| 12"  | 698  | 27.5 | 438 | 17.2 | 305 | 12.0 | 698     | 27.5 | 711      | 28   | 298    | 656  |
| 14"  | 787  | 31.0 | 477 | 18.8 | 337 | 13.3 | 787     | 31.0 | 800      | 31.5 | 411    | 905  |
| 16"  | 864  | 34.0 | 525 | 20.7 | 387 | 15.2 | 864     | 34.0 | 877      | 34.5 | 588    | 1296 |
| 18"  | 978  | 38.5 | 582 | 22.9 | 438 | 17.2 | 978     | 38.5 | 991      | 39   | 762    | 1680 |
| 20"  | 978  | 38.5 | 627 | 24.7 | 487 | 19.2 | 978     | 38.5 | 991      | 39   | TBA    | TBA  |
| 24"  | 1295 | 51.0 | 880 | 34.6 | 591 | 23.3 | 1295    | 51.0 | 1308     | 51.5 | TBA    | TBA  |

| No. | Part Name | WCB Body             |                      | WCB Body NACE           |                         | CF8M Body             |                          | LCC Body NACE            |
|-----|-----------|----------------------|----------------------|-------------------------|-------------------------|-----------------------|--------------------------|--------------------------|
|     |           | CS01RFCB108 (Trim 8) | CS01RFCB105 (Trim 5) | CS01RFCB108-NC (Trim 8) | CS01RFCB105-NC (Trim 5) | CS01RFS1110 (Trim 10) | CS01RFS1112-NC (Trim 12) | CS01RFLC112-NC (Trim 12) |
| 1   | Body      | A216 WCB             | A216 WCB             | A216 WCB                | A216 WCB                | A351 CF8M             | A351 CF8M                | A352 LCC                 |
| 2   | Seat      | A105+STL             | A105+STL             | A105+STL                | A105+STL                | Integral              | Integral+STL             | 316+STL                  |
| 3   | Disc      | A216 WCB+13Cr        | A216 WCB+STL         | A216 WCB+13Cr           | A216 WCB+STL            | A351 CF8M             | A351 CF8M                | A351 CF8M                |
| 4   | Nut       | A194 2H              | A194 2H              | A194 2HM                | A194 2HM                | A194 8                | A194 8                   | A194 4M                  |
| 5   | Rocker    | A216 WCB             | A216 WCB             | A216 WCB                | A216 WCB                | A351 CF8M             | A351 CF8M                | A352 LCC                 |
| 6   | Pin       | A182 F6a             | A182 F6a             | A182 F6a                | A182 F6a                | 316                   | 316                      | 316                      |
| 7   | Yoke      | A216 WCB             | A216 WCB             | A216 WCB                | A216 WCB                | A351 CF8M             | A351 CF8M                | A352 LCC                 |
| 8   | Gasket    | Flex.Graphite+304    | Flex.Graphite+304    | Flex.Graphite+304       | Flex.Graphite+304       | Flex.Graphite+304     | Flex.Graphite+304        | Flex.Graphite+304        |
| 9   | Cap Nut   | A194 2H              | A194 2H              | A194 2HM                | A194 2HM                | A194 8M               | A194 8M                  | A194 4M                  |
| 10  | Cap Bolt  | A193 B7              | A193 B7              | A193 B7M                | A193 B7M                | A193 B8M              | A193 B8M                 | A320 L7M                 |
| 11  | Cap       | A216 WCB             | A216 WCB             | A216 WCB                | A216 WCB                | A351 CF8M             | A351 CF8M                | A352 LCC                 |

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# CS03RF



## Description

- Carbon or Stainless Steel Body and Cap/Bonnet
- Swivel Disc and Welded HF Seat Ring
- Available in multiple trim configurations
- 2"– 24" ANSI 300# RF Flanges
- Designed to API 6D & ASME B16.34
- Face-to-Face Dimensions conforms to ASME B16.10
- Flanged Ends conforms to ASME B16.5
- Tested to API 598
- RTJ connections available upon request as per ASME B16.34

| Dimensions |      |       |     |      |     |      |         |       |          |       |        |      |
|------------|------|-------|-----|------|-----|------|---------|-------|----------|-------|--------|------|
| Size       | L    |       | H   |      | d   |      | L1 (BW) |       | L2 (RTJ) |       | Weight |      |
|            | mm   | in    | mm  | in   | mm  | in   | mm      | in    | mm       | in    | kg     | lbs  |
| 2"         | 267  | 10.5  | 176 | 6.9  | 51  | 2.0  | 267     | 10.5  | 283      | 11.12 | 21     | 46   |
| 2½"        | 292  | 11.5  | 185 | 7.3  | 64  | 2.5  | 292     | 11.5  | 308      | 12.12 | 29     | 64   |
| 3"         | 318  | 12.5  | 216 | 8.5  | 76  | 3.0  | 318     | 12.5  | 334      | 13.15 | 41     | 91   |
| 4"         | 356  | 14.0  | 259 | 10.2 | 102 | 4.0  | 356     | 14.0  | 372      | 14.62 | 61     | 133  |
| 5"         | 400  | 15.75 | 304 | 12.0 | 127 | 5.0  | 400     | 15.75 | 416      | 16.37 | TBA    | TBA  |
| 6"         | 444  | 17.5  | 317 | 12.5 | 152 | 6.0  | 444     | 17.5  | 460      | 18.12 | 148    | 325  |
| 8"         | 533  | 21.0  | 380 | 15.0 | 203 | 8.0  | 533     | 21.0  | 549      | 21.62 | 194    | 427  |
| 10"        | 622  | 24.5  | 434 | 17.1 | 254 | 10.0 | 622     | 24.5  | 638      | 25.12 | 289    | 637  |
| 12"        | 711  | 28.0  | 511 | 20.1 | 305 | 12.0 | 711     | 28.0  | 727      | 28.62 | 301    | 664  |
| 14"        | 838  | 33.0  | 561 | 22.1 | 337 | 13.3 | 838     | 33.0  | 854      | 33.62 | 696    | 1534 |
| 16"        | 864  | 34.0  | 596 | 23.5 | 387 | 15.2 | 864     | 34.0  | 880      | 34.62 | 851    | 1876 |
| 18"        | 978  | 38.5  | 675 | 26.6 | 432 | 17.0 | 978     | 38.5  | 994      | 39.12 | TBA    | TBA  |
| 20"        | 1016 | 40.0  | 730 | 28.7 | 483 | 19.0 | 1016    | 40.0  | 1035     | 40.75 | TBA    | TBA  |
| 24"        | 1346 | 53.0  | 860 | 33.9 | 584 | 23.0 | 1346    | 53.0  | 1368     | 53.88 | TBA    | TBA  |

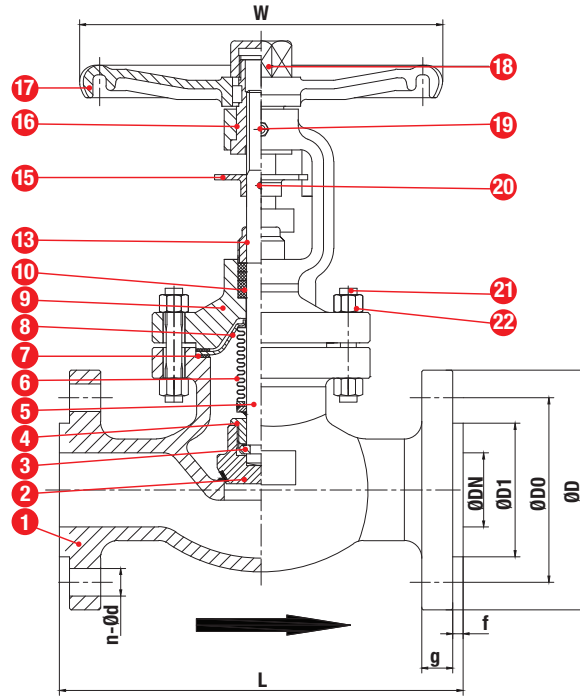
| No. | Part Name | WCB Body             |                      | WCB Body NACE           |                         | CF8M Body             |                          | LCC Body NACE                 |
|-----|-----------|----------------------|----------------------|-------------------------|-------------------------|-----------------------|--------------------------|-------------------------------|
|     |           | CS03RFCB108 (Trim 8) | CS03RFCB105 (Trim 5) | CS03RFCB108-NC (Trim 8) | CS03RFCB105-NC (Trim 5) | CS03RFS1110 (Trim 10) | CS03RFS1112-NC (Trim 12) | CS03RFLC112 (ST)-NC (Trim 12) |
| 1   | Body      | A216 WCB             | A216 WCB             | A216 WCB                | A216 WCB                | A351 CF8M             | A351 CF8M                | A352 LCC                      |
| 2   | Seat      | A105+STL             | A105+STL             | A105+STL                | A105+STL                | Integral              | Integral+STL             | 316+STL                       |
| 3   | Disc      | A216 WCB+13Cr        | A216 WCB+STL         | A216 WCB+13Cr           | A216 WCB+STL            | A351 CF8M             | A351 CF8M                | A351 CF8M                     |
| 4   | Nut       | A194 2H              | A194 2H              | A194 2HM                | A194 2HM                | A194 8                | A194 8                   | A194 4M                       |
| 5   | Rocker    | A216 WCB             | A216 WCB             | A216 WCB                | A216 WCB                | A351 CF8M             | A351 CF8M                | A352 LCC                      |
| 6   | Pin       | A182 F6a             | A182 F6a             | A182 F6a                | A182 F6a                | 316                   | 316                      | 316                           |
| 7   | Yoke      | A216 WCB             | A216 WCB             | A216 WCB                | A216 WCB                | A351 CF8M             | A351 CF8M                | A352 LCC                      |
| 8   | Gasket    | Flex.Graphite+304    | Flex.Graphite+304    | Flex.Graphite+304       | Flex.Graphite+304       | Flex.Graphite+304     | Flex.Graphite+304        | Flex.Graphite+304             |
| 9   | Cap Nut   | A194 2H              | A194 2H              | A194 2HM                | A194 2HM                | A194 8M               | A194 8M                  | A194 4M                       |
| 10  | Cap Bolt  | A193 B7              | A193 B7              | A193 B7M                | A193 B7M                | A193 B8M              | A193 B8M                 | A320 L7M                      |
| 11  | Cap       | A216 WCB             | A216 WCB             | A216 WCB                | A216 WCB                | A351 CF8M             | A351 CF8M                | A352 LCC                      |

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# SL01(RF) Bellow

## Description

- Cast / Forged Carbon or Stainless Steel Body and Bonnet (Welded/Integral)
- Outside Screw and Yoke (OS&Y)
- Rising Stem
- Bolted Bonnet
- Conventional Port
- Solid wedge and Integral Backseat
- Designed to API 602/ ASME B16.34
- Tested to API 598
- Welded Bonnet style available upon request
- End flange connections as per ASME B16.5
- Body and Bonnet is also available in alternate materials as per P-T Ratings



Dimensions

| Size   | L   |      | ØD  |      | ØD0   |      | ØD1   |      | f  |      | g    |      | n - Ød |             | W   |      |
|--------|-----|------|-----|------|-------|------|-------|------|----|------|------|------|--------|-------------|-----|------|
|        | mm  | in   | mm  | in   | mm    | in   | mm    | in   | mm | in   | mm   | in   | mm     | in          | mm  | in   |
| 2-1/2" | 216 | 8.50 | 180 | 7.09 | 139.7 | 5.50 | 104.8 | 4.13 | 2  | 0.08 | 20.7 | 0.81 | 4 - 19 | 0.16 - 0.75 | 200 | 7.87 |

| No. | Part Name   | A105N Body                      |                                 | A105N Body NACE                    |                                    | 316L S.S. Body                   |                                  | LF2 Body                        |                                 |
|-----|-------------|---------------------------------|---------------------------------|------------------------------------|------------------------------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|
|     |             | SL01(RF)<br>CB108HW<br>(Trim 8) | SL01(RF)<br>CB105HW<br>(Trim 5) | SL01(RF)<br>CB108HW-NC<br>(Trim 8) | SL01(RF)<br>CB105HW-NC<br>(Trim 5) | SL01(RF)<br>S1110HW<br>(Trim 10) | SL01(RF)<br>S1112HW<br>(Trim 12) | SL01(RF)<br>LC101HW<br>(Trim 1) | SL01(RF)<br>C112HW<br>(Trim 12) |
| 1   | Body        | A105 / A216 WCB                 | A105 / A216 WCB                 | A105 / A216 WCB                    | A105 / A216 WCB                    | 316SS / A351 CF8M                | 316SS / A351 CF8M                | A352 LCC                        | A352 LCC                        |
| 2   | Disc        | A105+13Cr                       | A105+STL                        | A105+13Cr                          | A105+STL                           | 316                              | 316                              | A350 LF2+13Cr                   | 316                             |
| 3   | Open Loop   | A182 F6a                        | A182 F6a                        | A182 F6a                           | A182 F6a                           | A182 F316                        | A182 F316                        | A182 F6a                        | A182 F316                       |
| 4   | Nut         | A182 F6a                        | A182 F6a                        | A182 F6a                           | A182 F6a                           | A182 F316                        | A182 F316                        | A182 F6a                        | A182 F316                       |
| 5   | Stem        | A182 F6a                        | A182 F6a                        | A182 F6a                           | A182 F6a                           | A182 F316                        | A182 F316                        | A182 F6a                        | A182 F316                       |
| 6   | Bellow      | 304SS                           | 304SS                           | 304SS                              | 304SS                              | 316SS                            | 316SS                            | 304SS                           | 316SS                           |
| 7   | Gasket      | Flex.Graphite+304               | Flex.Graphite+304               | Flex.Graphite+304                  | Flex.Graphite+304                  | Flex.Graphite+316                | Flex.Graphite+316                | Flex.Graphite+304               | Flex.Graphite+304               |
| 8   | End Fitting | A276 304                        | A276 304                        | A276 304                           | A276 304                           | A276 316                         | A276 316                         | A276 304                        | A276 316                        |
| 9   | Bonnet      | A216 WCB                        | A216 WCB                        | A216 WCB                           | A216 WCB                           | A351 CF8M                        | A351 CF8M                        | A352 LCC                        | A352 LCC                        |
| 10  | Packing     | Flexible Graphite               | Flexible Graphite               | Flexible Graphite                  | Flexible Graphite                  | Flexible Graphite                | Flexible Graphite                | Flexible Graphite               | Flexible Graphite               |
| 13  | Gland       | A276 410                        | A276 410                        | A276 410                           | A276 410                           | A276-316                         | A276-316                         | A276 410                        | 316                             |
| 15  | Stop        | 304SS                           | 304SS                           | 304SS                              | 304SS                              | 316SS                            | 316SS                            | 304SS                           | 316SS                           |
| 16  | Stem Nut    | Copper Alloy                    | Copper Alloy                    | A439 D2                            | A439 D2                            | Copper Alloy                     | Copper Alloy                     | Copper Alloy                    | A439 D2                         |
| 17  | Handwheel   | Carbon steel                    | Carbon steel                    | Carbon steel                       | Carbon steel                       | Carbon steel                     | Carbon steel                     | Carbon steel                    | Carbon steel                    |
| 18  | Nut         | 1045                            | 1045                            | 1045                               | 1045                               | 1045                             | 1045                             | 1045                            | 1045                            |
| 19  | Oil Cup     | -                               | -                               | -                                  | -                                  | -                                | -                                | -                               | -                               |
| 20  | Pin         | 304                             | 304                             | 304                                | 304                                | 316                              | 316                              | 304                             | 316                             |
| 22  | Bolt        | A193 B7                         | A193 B7                         | A193 B7M                           | A193 B7M                           | A193 B8M                         | A193 B8M                         | A320 L7                         | A320 L7                         |
| 23  | Nut         | A194 2H                         | A194 2H                         | A194 2HM                           | A194 2HM                           | A194 8M                          | A194 8M                          | A194 4                          | A194 4                          |

The Bill of materials are subject to change for non-wetted components while meeting the above mentioned industry standards.

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# Engineering Specifications

## Pressure - Temperature Ratings for Class 150 Cast Steel Valves

| Service Temperature |            | Maximum Working Pressure (PSIG) |      |                                           |      |              |      |              |      |               |         |              |         |
|---------------------|------------|---------------------------------|------|-------------------------------------------|------|--------------|------|--------------|------|---------------|---------|--------------|---------|
|                     |            | A216-WCB (A)                    |      | A216-WCC (A)<br>A352-LC (B), A352-LC2 (B) |      | A217-WC6 (C) |      | A217-WC9 (C) |      | A351-CF8M (E) |         | A351-CF8 (E) |         |
|                     |            | PSIG                            | BAR  | PSIG                                      | BAR  | PSIG         | BAR  | PSIG         | BAR  | PSIG          | BAR     | PSIG         | BAR     |
| -29 to 38           | -20 to 100 | 287                             | 19.8 | 287                                       | 19.8 | 267          | 18.4 | 267          | 18.4 | 276           | 19.0    | 276          | 19.0    |
| 50                  | 122        | 283                             | 19.5 | 283                                       | 19.5 | 264          | 18.2 | 264          | 18.2 | 267           | 18.4    | 265          | 18.3    |
| 100                 | 212        | 257                             | 17.7 | 257                                       | 17.7 | 252          | 17.4 | 252          | 17.4 | 235           | 16.2    | 228          | 15.7    |
| 150                 | 302        | 229                             | 15.8 | 229                                       | 15.8 | 229          | 15.8 | 229          | 15.8 | 215           | 14.8    | 206          | 14.2    |
| 200                 | 392        | 200                             | 13.8 | 200                                       | 13.8 | 200          | 13.8 | 200          | 13.8 | 199           | 13.7    | 191          | 13.2    |
| 250                 | 482        | 175                             | 12.1 | 175                                       | 12.1 | 175          | 12.1 | 175          | 12.1 | 175           | 12.1    | 175          | 12.1    |
| 300                 | 572        | 148                             | 10.2 | 148                                       | 10.2 | 148          | 10.2 | 148          | 10.2 | 148           | 10.2    | 148          | 10.2    |
| 325                 | 617        | 135                             | 9.3  | 135                                       | 9.3  | 135          | 9.3  | 135          | 9.3  | 135           | 9.3     | 135          | 9.3     |
| 350                 | 662        | 122                             | 8.4  | 122                                       | 8.4  | 122          | 8.4  | 122          | 8.4  | 122           | 8.4     | 122          | 8.4     |
| 375                 | 707        | 107                             | 7.4  | 107                                       | 7.4  | 107          | 7.4  | 107          | 7.4  | 107           | 7.4     | 107          | 7.4     |
| 400                 | 752        | 94                              | 6.5  | 94                                        | 6.5  | 94           | 6.5  | 94           | 6.5  | 94            | 6.5     | 94           | 6.5     |
| 425                 | 797        | 80                              | 5.5  | 80                                        | 5.5  | 80           | 5.5  | 80           | 5.5  | 80            | 5.5     | 80           | 5.5     |
| 450                 | 842        | 67                              | 4.6  | 67                                        | 4.6  | 67           | 4.6  | 67           | 4.6  | 67            | 4.6     | 67           | 4.6     |
| 475                 | 887        | 54                              | 3.7  | 54                                        | 3.7  | 54           | 3.7  | 54           | 3.7  | 54            | 3.7     | 54           | 3.7     |
| 500                 | 932        | 41                              | 2.8  | 41                                        | 2.8  | 41           | 2.8  | 41           | 2.8  | 41            | 2.8     | 41           | 2.8     |
| 538                 | 1000       | 20                              | 1.4  | 20                                        | 1.4  | 20           | 1.4  | 20           | 1.4  | 20            | 1.4     | 20           | 1.4     |
| 550                 | 1022       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 20 (D)        | 1.4 (D) | 20 (D)       | 1.4 (D) |
| 575                 | 1067       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 20 (D)        | 1.4 (D) | 20 (D)       | 1.4 (D) |
| 600                 | 1112       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 20 (D)        | 1.4 (D) | 20 (D)       | 1.4 (D) |
| 625                 | 1157       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 20 (D)        | 1.4 (D) | 20 (D)       | 1.4 (D) |
| 650                 | 1202       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 20 (D)        | 1.4 (D) | 20 (D)       | 1.4 (D) |
| 675                 | 1247       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 20 (D)        | 1.4 (D) | 20 (D)       | 1.4 (D) |
| 700                 | 1292       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 20 (D)        | 1.4 (D) | 20 (D)       | 1.4 (D) |
| 725                 | 1337       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 20 (D)        | 1.4 (D) | 20 (D)       | 1.4 (D) |
| 750                 | 1382       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 20 (D)        | 1.4 (D) | 20 (D)       | 1.4 (D) |
| 775                 | 1427       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 20 (D)        | 1.4 (D) | 20 (D)       | 1.4 (D) |
| 800                 | 1472       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 17 (D)        | 1.2 (D) | 17 (D)       | 1.2 (D) |
| 816                 | 1501       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 15 (D)        | 1.0 (D) | 15 (D)       | 1.0 (D) |

NOTE: In accordance with ASME B16.34-2013 ASME Boiler and Pressure Vessel Code Section II materials that also meet the requirements of the listed ASTM specifications may also be used.

(A) Permissible, but not recommended for prolonged usage above 800°F (425°C)

(B) Not to be used over 650°F (345°C)

(C) Not to be used over 1100°F (595°C)

(D) Flanged-end valve ratings terminate at 1000°F (538°C)

(E) At temperatures over 1000°F (538°C), use only when carbon content is 0.04% or higher

## Flow Coefficients (Cv / Kv) for Class 150 Cast Steel Valves

| Size | Gate Valve |       | Globe Valve |      | Swing Check Valve |      |
|------|------------|-------|-------------|------|-------------------|------|
|      | Cv         | Kv    | Cv          | Kv   | Cv                | Kv   |
| 2"   | 172        | 148   | 57          | 49   | 106               | 92   |
| 2½"  | 270        | 234   | 90          | 78   | 168               | 145  |
| 3"   | 426        | 368   | 135         | 116  | 236               | 204  |
| 4"   | 1085       | 938   | 240         | 207  | 369               | 319  |
| 5"   | 1682       | 1454  | 359         | 310  | 614               | 531  |
| 6"   | 3408       | 2946  | 514         | 444  | 880               | 761  |
| 8"   | 6798       | 5877  | 887         | 766  | 1394              | 1206 |
| 10"  | 10637      | 9197  | 1332        | 1152 | 2183              | 1887 |
| 12"  | 16399      | 14178 | 1921        | 1661 | 2935              | 2538 |
| 14"  | 20020      | 17309 | 2345        | 2028 | 3655              | 3160 |
| 16"  | 26402      | 22827 | 3093        | 2674 | 3967              | 3430 |
| 18"  | 36562      | 31612 | —           | —    | 6174              | 5338 |
| 20"  | 45547      | 39380 | —           | —    | 6996              | 6049 |
| 24"  | 66501      | 57497 | —           | —    | 10303             | 8908 |

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# Engineering Specifications

## Pressure - Temperature Ratings for Class 300 Cast Steel Valves

| Service Temperature |            | Maximum Working Pressure (PSIG) |      |                                           |      |              |      |              |      |               |      |              |      |
|---------------------|------------|---------------------------------|------|-------------------------------------------|------|--------------|------|--------------|------|---------------|------|--------------|------|
|                     |            | A216-WCB (A)                    |      | A216-WCC (A)<br>A352-LC (B), A352-LC2 (B) |      | A217-WC6 (C) |      | A217-WC9 (C) |      | A351-CF8M (E) |      | A351-CF8 (E) |      |
| °C                  | °F         | PSIG                            | BAR  | PSIG                                      | BAR  | PSIG         | BAR  | PSIG         | BAR  | PSIG          | BAR  | PSIG         | BAR  |
| -29 to 38           | -20 to 100 | 750                             | 51.7 | 750                                       | 51.7 | 696          | 48.0 | 696          | 48.0 | 719           | 49.6 | 719          | 49.6 |
| 50                  | 122        | 750                             | 51.7 | 750                                       | 51.7 | 689          | 47.5 | 689          | 47.5 | 698           | 48.1 | 693          | 47.8 |
| 100                 | 212        | 747                             | 51.5 | 747                                       | 51.5 | 657          | 45.3 | 657          | 45.3 | 612           | 42.2 | 593          | 40.9 |
| 150                 | 302        | 728                             | 50.2 | 728                                       | 50.2 | 637          | 43.9 | 637          | 43.9 | 558           | 38.5 | 537          | 37.0 |
| 200                 | 392        | 705                             | 48.6 | 705                                       | 48.6 | 616          | 42.5 | 616          | 42.5 | 518           | 35.7 | 500          | 34.5 |
| 250                 | 482        | 672                             | 46.3 | 672                                       | 46.3 | 592          | 40.8 | 592          | 40.8 | 484           | 33.4 | 471          | 32.5 |
| 300                 | 572        | 622                             | 42.9 | 622                                       | 42.9 | 561          | 38.7 | 561          | 38.7 | 458           | 31.6 | 448          | 30.9 |
| 325                 | 617        | 600                             | 41.4 | 600                                       | 41.4 | 545          | 37.6 | 545          | 37.6 | 448           | 30.9 | 438          | 30.2 |
| 350                 | 662        | 580                             | 40.0 | 580                                       | 40.0 | 528          | 36.4 | 528          | 36.4 | 439           | 30.3 | 429          | 29.6 |
| 375                 | 707        | 548                             | 37.8 | 548                                       | 37.8 | 508          | 35.0 | 508          | 35.0 | 434           | 29.9 | 421          | 29.0 |
| 400                 | 752        | 503                             | 34.7 | 503                                       | 34.7 | 473          | 32.6 | 473          | 32.6 | 426           | 29.4 | 412          | 28.4 |
| 425                 | 797        | 418                             | 28.8 | 418                                       | 28.8 | 396          | 27.3 | 396          | 27.3 | 422           | 29.1 | 406          | 28.0 |
| 450                 | 842        | 334                             | 23.0 | 334                                       | 23.0 | 313          | 21.6 | 313          | 21.6 | 418           | 28.8 | 397          | 27.4 |
| 475                 | 887        | 248                             | 17.1 | 248                                       | 17.1 | 228          | 15.7 | 228          | 15.7 | 416           | 28.7 | 390          | 26.9 |
| 500                 | 932        | 168                             | 11.6 | 168                                       | 11.6 | 161          | 11.1 | 161          | 11.1 | 409           | 28.2 | 384          | 26.5 |
| 538                 | 1000       | 86                              | 5.9  | 86                                        | 5.9  | 86           | 5.9  | 86           | 5.9  | 366           | 25.2 | 354          | 24.4 |
| 550                 | 1022       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 363           | 25.0 | 342          | 23.6 |
| 575                 | 1067       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 348           | 24.0 | 302          | 20.8 |
| 600                 | 1112       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 289           | 19.9 | 245          | 16.9 |
| 625                 | 1157       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 229           | 15.8 | 200          | 13.8 |
| 650                 | 1202       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 184           | 12.7 | 164          | 11.3 |
| 675                 | 1247       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 149           | 10.3 | 135          | 9.3  |
| 700                 | 1292       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 122           | 8.4  | 116          | 8.0  |
| 725                 | 1337       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 102           | 7.0  | 99           | 6.8  |
| 750                 | 1382       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 86            | 5.9  | 84           | 5.8  |
| 775                 | 1427       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 67            | 4.6  | 67           | 4.6  |
| 800                 | 1472       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 51            | 3.5  | 51           | 3.5  |
| 816                 | 1501       | -                               | -    | -                                         | -    | -            | -    | -            | -    | 41            | 2.8  | 41           | 2.8  |

NOTE: In accordance with ASME B16.34-2013 ASME Boiler and Pressure Vessel Code Section II materials that also meet the requirements of the listed ASTM specifications may also be used.

(A) Permissible, but not recommended for prolonged usage above 800°F (425°C)

(B) Not to be used over 650°F (345°C)

(C) Not to be used over 1100°F (595°C)

(D) Flanged-end valve ratings terminate at 1000°F (538°C)

(E) At temperatures over 1000°F (538°C), use only when carbon content is 0.04% or higher

## Flow Coefficients (Cv / Kv) for Class 300 Cast Steel Valves

| Size | Gate Valve |       | Globe Valve |      | Swing Check Valve |      |
|------|------------|-------|-------------|------|-------------------|------|
|      | Cv         | Kv    | Cv          | Kv   | Cv                | Kv   |
| 2"   | 172        | 148   | 57          | 49   | 106               | 92   |
| 2½"  | 270        | 234   | 90          | 78   | 168               | 145  |
| 3"   | 426        | 368   | 135         | 116  | 236               | 204  |
| 4"   | 1085       | 938   | 240         | 207  | 369               | 319  |
| 5"   | 1682       | 1454  | 359         | 310  | 614               | 531  |
| 6"   | 3408       | 2946  | 514         | 444  | 880               | 761  |
| 8"   | 6798       | 5877  | 887         | 766  | 1394              | 1206 |
| 10"  | 10637      | 9197  | 1332        | 1152 | 2183              | 1887 |
| 12"  | 16399      | 14178 | 1921        | 1661 | 2935              | 2538 |
| 14"  | 20021      | 17310 | 2345        | 2028 | 3655              | 3160 |
| 16"  | 26402      | 22827 | 3093        | 2674 | 3967              | 3430 |
| 18"  | 35541      | 30729 | —           | —    | 6006              | 5193 |
| 20"  | 44401      | 38389 | —           | —    | 6881              | 5950 |
| 24"  | 64938      | 56145 | —           | —    | 10060             | 8698 |

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