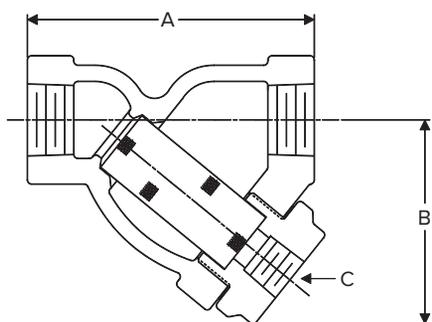
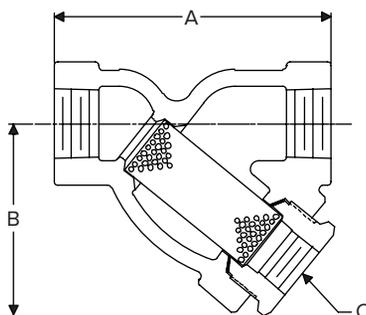




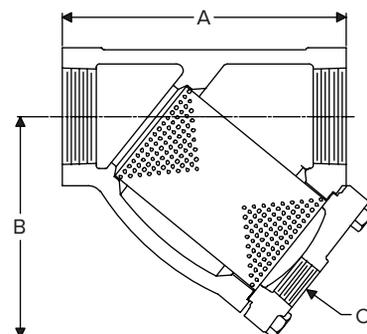
# Cast Iron 250 lb Screwed 1/2" - 3"



CA1SC 1/2", 3/4", 1", 1-1/2", 2"



CA1SC 1-1/4"

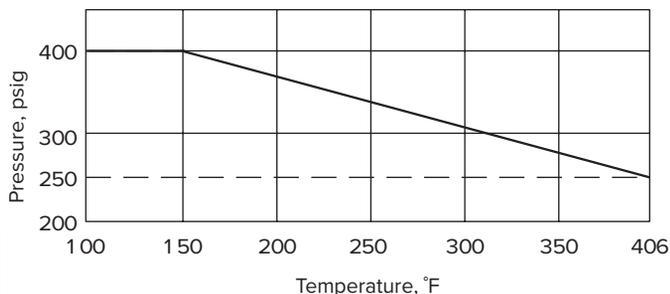


A1SC 2-1/2", 3"

For a fully detailed certified drawing, refer to:  
CA1SC 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"  
A1SC 2-1/2", 3"

CD #1111  
CD #1043

Pressure/Temperature Rating



Strainers

**Materials: 250 lb Screwed 1/2" - 3" (15 - 80 mm)**

| Connections Size |            | Body                        | Standard Screen          | Screen Retainer             | Gasket                      | Bolting |
|------------------|------------|-----------------------------|--------------------------|-----------------------------|-----------------------------|---------|
| in               | mm         |                             |                          |                             |                             |         |
| 1/2, 3/4         | 15, 20     | ASTM A48 Class 30 Cast Iron | 304 SS .045" perforated† | ASTM A48 Class 30 Cast Iron | Spiral Wound                | N/A     |
| 1, 1-1/2, 2      | 25, 40, 50 |                             |                          |                             | Soft Steel                  |         |
| 1-1/4            | 32         |                             | 304 SS .045" perforated† |                             | Non-asbestos                |         |
| 2-1/2, 3         | 65, 80     |                             |                          |                             | Cap Screws ASTM A193 Gr. B7 |         |

†NOTE: Other screen materials available. See page 435.

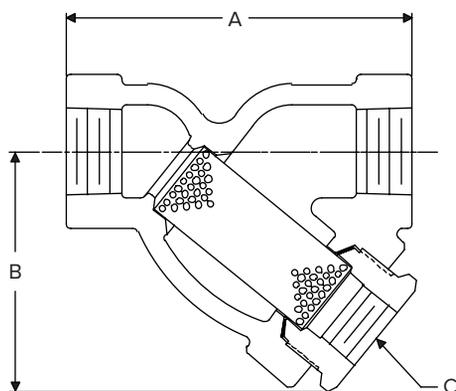
**Physical Data: 250 lb Screwed 1/2" - 3" (15 - 80 mm)**

| Size  |    | Ordering Code, Standard Screen | Weight |        | Dimensions |       |        |        |       |      | Maximum Pressure |      |                        |    | Screen Retainer Type | Connections          |
|-------|----|--------------------------------|--------|--------|------------|-------|--------|--------|-------|------|------------------|------|------------------------|----|----------------------|----------------------|
|       |    |                                |        |        | A          |       | B      |        | C     |      | Saturated Steam  |      | 150°F (66°C) non-shock |    |                      |                      |
| in    | mm | lb                             | kg     | in     | mm         | in    | mm     | in     | mm    | psig | barg             | psig | barg                   |    |                      |                      |
| 1/2   | 15 | CA1SC                          | 3      | 1.4    | 4-1/4      | 108   | 3      | 76     | 3/8   | 9.5  | 250              | 17   | 400                    | 28 | Threaded             | ANSI B1.20.1 Screwed |
| 3/4   | 20 |                                | 4-1/2  | 2      | 5          | 127   | 3-3/4  | 95     | 1/2   | 15   |                  |      |                        |    |                      |                      |
| 1     | 25 |                                | 7      | 3      | 5-1/2      | 140   | 3-7/8  | 98     |       |      |                  |      |                        |    |                      |                      |
| 1-1/4 | 32 |                                | 10     | 4.5    | 6-5/16     | 160   | 4-7/16 | 113    |       |      |                  |      |                        |    |                      |                      |
| 1-1/2 | 40 |                                | 15     | 6.8    | 7-1/2      | 191   | 5-7/16 | 138    |       |      |                  |      |                        |    |                      |                      |
| 2     | 50 |                                | A1SC   | 24-1/2 | 11         | 8-1/2 | 216    | 6-7/16 | 164   | 3/4  |                  |      |                        |    |                      |                      |
| 2-1/2 | 65 | 45-1/2                         |        | 21     | 10-1/2     | 267   | 8      | 203    | 1-1/4 | 32   |                  |      |                        |    |                      |                      |
| 3     | 80 |                                |        |        |            |       |        |        |       |      |                  |      |                        |    |                      |                      |

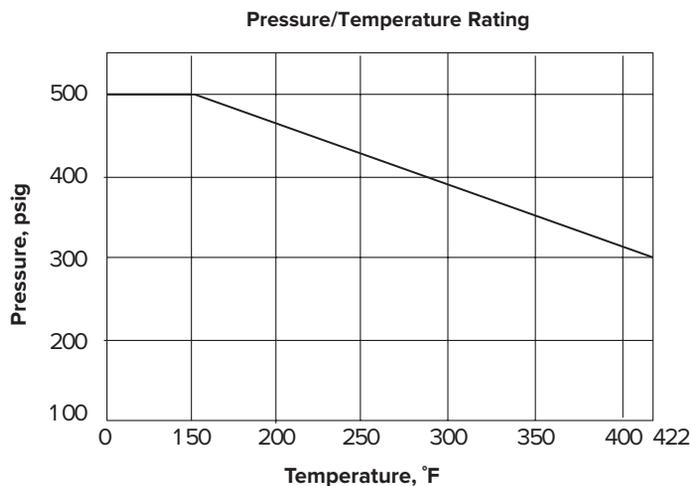
Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit [armstronginternational.com](http://armstronginternational.com) for up-to-date information.



# Cast Bronze 300 lb Screwed 1/2" - 2"



F4SC 1/2" - 2"



For a fully detailed certified drawing, refer to CD #1064.



Strainers

**Materials: 300 lb Screwed 1/2" - 2" (15 - 50 mm)**

| Connection Size              |                        | Body     | Screen Retainer | Gasket | Bolting | Standard Screen         |
|------------------------------|------------------------|----------|-----------------|--------|---------|-------------------------|
| in                           | mm                     |          |                 |        |         |                         |
| 1/2, 3/4, 1, 1-1/4, 1-1/2, 2 | 15, 20, 25, 32, 40, 50 | ASTM B62 | Brass C         | Copper | N/A     | Brass .045" perforated* |

\*NOTE: Other screen materials available. See page 435.

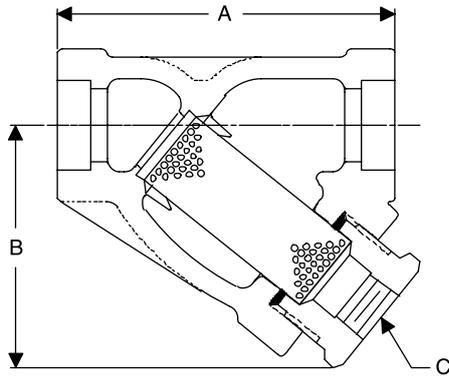
**Physical Data: 300 lb Screwed 1/2" - 2" (15 - 50 mm)**

| Size  | Ordering Code, Standard Screen | Weight |      | Dimensions |     |        |     |     |     | Maximum Pressure |      |                        |      | Screen Retainer Type | Connections          |
|-------|--------------------------------|--------|------|------------|-----|--------|-----|-----|-----|------------------|------|------------------------|------|----------------------|----------------------|
|       |                                |        |      | A          |     | B      |     | C   |     | Saturated Steam  |      | 150°F (66°C) non-shock |      |                      |                      |
| in    | mm                             | lb     | kg   | in         | mm  | in     | mm  | in  | mm  | psig             | barg | psig                   | barg |                      |                      |
| 1/2   | 15                             | 1-1/2  | 0.68 | 3-1/2      | 89  | 2-1/2  | 64  | 3/8 | 9.5 | 300              | 21   | 500                    | 34   | Threaded             | ANSI B1.20.1 Screwed |
| 3/4   | 20                             | 2      | 0.91 | 4          | 102 | 2-7/8  | 73  | 1/2 | 15  |                  |      |                        |      |                      |                      |
| 1     | 25                             | 3-1/2  | 1.6  | 4-3/4      | 121 | 3-5/16 | 84  |     |     |                  |      |                        |      |                      |                      |
| 1-1/4 | 32                             | 5      | 2.3  | 5-1/4      | 133 | 4      | 102 |     |     |                  |      |                        |      |                      |                      |
| 1-1/2 | 40                             | 7-1/2  | 3.4  | 6          | 152 | 4-3/8  | 111 |     |     |                  |      |                        |      |                      |                      |
| 2     | 50                             | 12     | 5.4  | 7          | 178 | 5-1/2  | 140 |     |     |                  |      |                        |      |                      |                      |

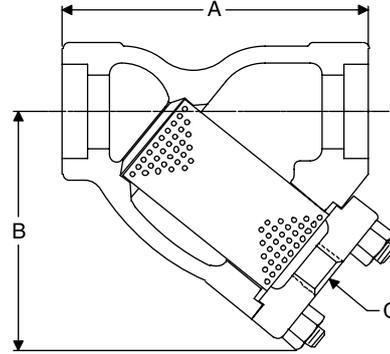
Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit [armstronginternational.com](http://armstronginternational.com) for up-to-date information.



# Cast Carbon Steel (WCB) 600 lb and 900 lb Screwed or Socketweld 1/2" - 3"

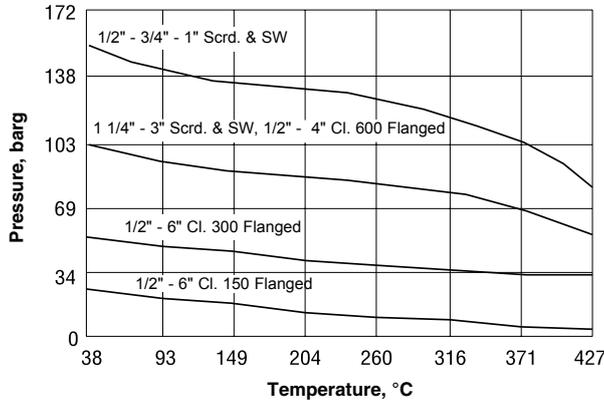


900 lb – B1SC/B1SW 1/2", 3/4", 1"



600 lb – B1SC/B1SW 1 1/4", 1 1/2", 2", 3"

### Pressure/Temperature Rating



Strainers

**Table S-324-1. Materials: 600 lb and 900 lb Screwed or Socketweld 1/2" - 3"**

| Connection Size<br>in | Body                 | Screen Retainer    | Gasket                              | Bolting   | Standard Screen               |
|-----------------------|----------------------|--------------------|-------------------------------------|---|-------------------------------|
| 1/2", 3/4"            | ASTM A216<br>Gr. WCB | ASTM A108 Gr. 1045 | Soft Steel                          | N/A   | 304 SS<br>0,045" Perforated + |
| 1"                    |                      | ASTM A108 Gr. 1040 |                                     |   |                               |
| 1 1/4", 1 1/2", 2"    |                      | ASTM A216 Gr. WCB  | 304 SS Spiral Wound<br>Non-asbestos | Studs ASTM A193 Gr. B7<br>Nuts ASTM A194 Gr. 2H |                               |
| 3"                    |                      |                    | Non-asbestos                        | Cap screws ASTM A193 Gr. B7                     |                               |

† Note: Other screen materials available. See page S-321.

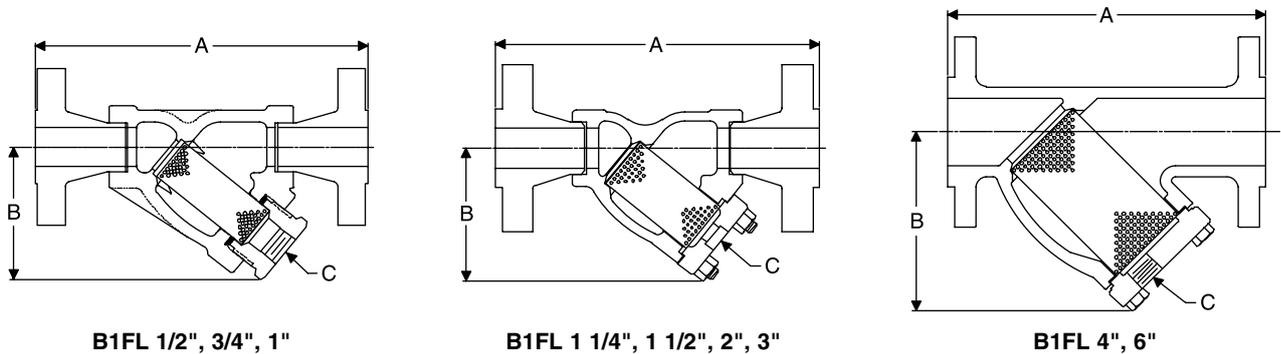
**Table S-324-2. Physical Data: 600 lb and 900 lb Screwed or Socketweld 1/2" - 3"**

| Connection Size<br>in | Ordering Code<br>Standard Screen |      | Weight<br>kg | Dimensions |         |         | Maximum Pressure       |                          | Screen Retainer Type         | Connections             |
|-----------------------|----------------------------------|------|--------------|------------|---------|---------|------------------------|--------------------------|------------------------------|-------------------------|
|                       | Screwed                          | SW   |              | A<br>mm    | B<br>mm | C<br>in | Saturated Steam<br>bar | 38°C<br>non-shock<br>bar |                              |                         |
| 1/2"                  | B1SC                             | B1SW | 1,0          | 95         | 68      | 3/8"    | 113                    | 153                      | Threaded                     | ANSI B1.20.1<br>Screwed |
| 3/4"                  |                                  |      | 1/2"         |            |         |         |                        |                          |                              |                         |
| 1"                    |                                  |      |              |            |         |         |                        |                          |                              |                         |
| 1 1/4"                | B1SC                             | B1SW | 4,0          | 140        | 106     | 78      | 102                    | Bolted                   | ANSI<br>B16.11<br>Socketweld |                         |
| 1 1/2"                |                                  |      | 1/2"         |            |         |         |                        |                          |                              |                         |
| 2"                    |                                  |      |              |            |         |         |                        |                          |                              |                         |
| 3"                    |                                  |      |              | 21,0       | 289     |         |                        |                          |                              | 208                     |

Shade indicates products that are CE Marked according to the PED (2014/68/UE). All the other sizes comply with the Article 4.3 of the same directive.

*All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.*

# Cast Carbon Steel (WCB) Class 150, 300 Flanged 1/2" - 6" and Class 600 Flanged 1/2" - 4"



**Table S-325-1. Materials: Class 150, 300 Flanged 1/2" - 6" and Class 600 Flanged 1/2" - 4"**

| Connection Size<br>in | Body                 | Screen Retainer       | Gasket                              | Bolting   | Standard screen               |
|-----------------------|----------------------|-----------------------|-------------------------------------|---|-------------------------------|
| 1/2", 3/4"            | ASTM A216<br>Gr. WCB | ASTM A108<br>Gr. 1045 | Soft Steel                          | N/A   | 304 SS 0,045"<br>Perforated † |
| 1"                    |                      | ASTM A216<br>Gr. WCB  | 304 SS Spiral wound<br>Non-asbestos | Studs ASTM A193 Gr. B7<br>Nuts ASTM A194 Gr. 2H |                               |
| 1 1/4", 1 1/2", 2"    |                      |                       | Non-asbestos                        | Cap Screws ASTM A193 Gr. B7                     |                               |
| 3", 4", 6"            |                      |                       |                                     |   |                               |

† Note: Other screen materials available. See page S-321.

**Table S-325-2. Physical Data: Class 150, 300 Flanged 1/2" - 6" and Class 600 Flanged 1/2" - 4"**

| Connection Size<br>in | Ordering Code, Standard Screen | Weight<br>kg | Dimensions |         |         | Maximum Pressure       |                       | Screen Retainer Type | Connections                         |
|-----------------------|--------------------------------|--------------|------------|---------|---------|------------------------|-----------------------|----------------------|-------------------------------------|
|                       |                                |              | A<br>mm    | B<br>mm | C<br>in | Saturated Steam<br>bar | 38°C non-shock<br>bar |                      |                                     |
| 1/2"                  | B1FL 150                       | 2,3          | 175        | 68      | 3/8"    | 14                     | 20                    | Threaded             | Class 150<br>ANSI B16.5<br>1/16" RF |
| 3/4"                  |                                | 4,5          | 187        | 75      |         |                        |                       |                      |                                     |
| 1"                    |                                | 4,8          | 216        | 89      |         |                        |                       |                      |                                     |
| 1 1/4"                |                                | 7,0          | 229        | 106     |         |                        |                       |                      |                                     |
| 1 1/2"                |                                | 9,0          | 260        | 122     |         |                        |                       |                      |                                     |
| 2"                    | 13,0                           | 292          | 143        | 1 1/4"  | 14      | 20                     | Bolted                |                      |                                     |
| 3"                    | 37,0                           | 397          | 208        |         |         |                        |                       |                      |                                     |
| 4"                    | 28,0                           | 308          | 277        |         |         |                        |                       |                      |                                     |
| 6"                    | BK1FL 150                      | 61,0         | 470        | 337     | 2"      |                        |                       |                      |                                     |
| 1/2"                  | B1FL 300                       | 3,0          | 184        | 68      | 3/8"    | 42                     | 51                    | Threaded             |                                     |
| 3/4"                  |                                | 5,0          | 197        | 75      |         |                        |                       |                      |                                     |
| 1"                    |                                | 6,0          | 226        | 89      |         |                        |                       |                      |                                     |
| 1 1/4"                |                                | 8,0          | 244        | 106     |         |                        |                       |                      |                                     |
| 1 1/2"                | B1FL 300                       | 12,0         | 273        | 122     | 1/2"    | 42                     | 51                    | Bolted               |                                     |
| 2"                    |                                | 15,0         | 308        | 143     |         |                        |                       |                      |                                     |
| 3"                    |                                | 42,0         | 416        | 208     |         |                        |                       |                      |                                     |
| 4"                    | BK1FL 300                      | 40,0         | 368        | 227     | 1 1/2"  | 42                     | 51                    | Bolted               |                                     |
| 6"                    |                                | 81,0         | 491        | 337     |         |                        |                       |                      | 2"                                  |
| 1/2"                  | B1FL 600                       | 5,0          | 195        | 68      | 3/8"    | 78                     | 102                   | Threaded             | Class 600<br>ANSI B16.5<br>1/4" RF  |
| 3/4"                  |                                | 5,4          | 210        | 75      |         |                        |                       |                      |                                     |
| 1"                    |                                | 6,0          | 238        | 89      |         |                        |                       |                      |                                     |
| 1 1/4"                | B1FL 600                       | 8,5          | 260        | 106     | 1/2"    | 78                     | 102                   | Bolted               |                                     |
| 1 1/2"                |                                | 13,0         | 287        | 122     |         |                        |                       |                      |                                     |
| 2"                    |                                | 16,0         | 324        | 143     |         |                        |                       |                      |                                     |
| 3"                    |                                | 43,0         | 435        | 208     |         |                        |                       |                      |                                     |
| 4"                    | BK1FL 600                      | 72,0         | 457        | 317     | 1 1/2"  |                        |                       |                      |                                     |

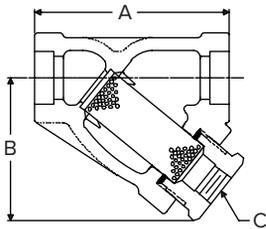
Note: For pressure/temperature ratings, see page S-324.

Shade indicates products that are CE Marked according to the PED (2014/68/UE). All the other sizes comply with the Article 4.3 of the same directive.

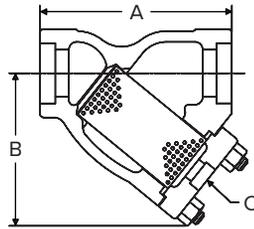
**All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.**

# Cast Chrome Moly Steel (WC6)

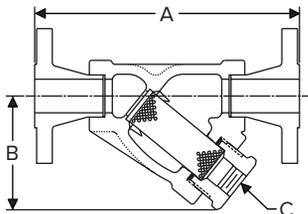
## 1 500 lb Screwed, Socketweld and Cl. 1 500 Flanged 1/2"- 2" Armstrong®



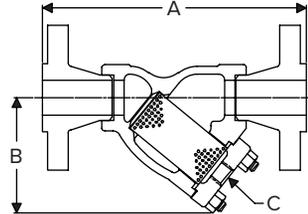
C1SC/C1SW 1/2", 3/4", 1"



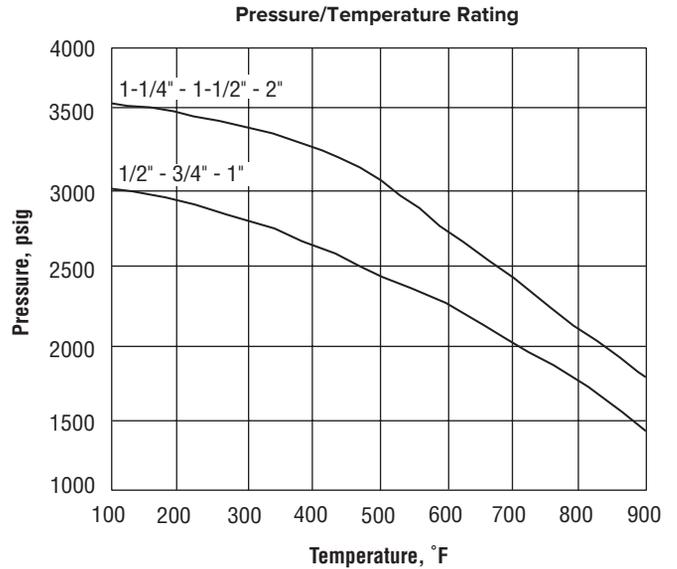
C1SC/C1SW 1-1/4", 1-1/2", 2"



C1FL 1/2", 3/4", 1"



C1FL 1-1/4", 1-1/2", 2"



For a fully detailed certified drawing, refer to list below:

|                              |          |
|------------------------------|----------|
| C1SC/C1SW 1/2", 3/4", 1"     | CD #1055 |
| C1SC/C1SW 1-1/4", 1-1/2", 2" | CD #1056 |
| C1FL 1/2", 3/4", 1"          | CD #1057 |
| C1FL 1-1/4", 1-1/2", 2"      | CD #1058 |

| Materials: 1 500 lb Screwed, Socketweld and Cl. 1 500 lb Flanged 1/2" - 2" (15 - 50 mm) |            |                      |                   |                                      |  |   |
|---|------------|----------------------|-------------------|--------------------------------------|--|---|
| Connection Size   |            | Body                 | Screen Retainer   | Gasket                               | Bolting  | Standard Screen                         |
| in  | mm         |                      |                   |                                      |  |   |
| 1/2, 3/4, 1   | 15, 20, 25 | ASTM A217<br>Gr. WC6 | ASTM A276         | Soft Steel                           | N/A  | 304 SS .045"<br>perforated <sup>†</sup> |
| 1-1/4, 1-1/2, 2   | 32, 40, 50 |                      | ASTM A217 Gr. WC6 | 316L SS Spiral Wound<br>Non-asbestos | Studs ASTM A193 Gr. B16<br>Nuts ASTM A194 Gr. 2H |   |

<sup>†</sup>NOTE: Other screen materials available. See page 435.

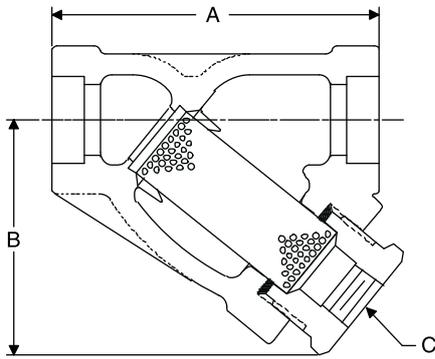
| Physical Data: 1 500 lb Screwed, Socketweld and Cl. 1 500 lb Flanged 1/2" - 2" (15 - 50 mm) |    |                                  |       |        |     |            |     |         |     |     |     |                  |      |                        |      |                      |                                     |
|---|----|----------------------------------|-------|--------|-----|------------|-----|---------|-----|-----|-----|------------------|------|------------------------|------|----------------------|-------------------------------------|
| Size  |    | Ordering Code<br>Standard Screen |       | Weight |     | Dimensions |     |         |     |     |     | Maximum Pressure |      |                        |      | Screen Retainer Type | Connections                         |
|   |    |                                  |       |        |     | A          |     | B       |     | C   |     | Saturated Steam  |      | 100°F (38°C) non-shock |      |                      |                                     |
| in  | mm | Scr'd                            | SW    | lb     | kg  | in         | mm  | in      | mm  | in  | mm  | psig             | barg | psig                   | barg |                      |                                     |
| 1/2   | 15 | C1SC                             | C1SW  | 2-1/2  | 1.1 | 3-3/4      | 95  | 2-11/16 | 68  | 3/8 | 9.5 | 2 090            | 144  | 3 000                  | 207  | Threaded             | ANSI B1.20.1<br>Screwed             |
| 3/4   | 20 | C1SC                             | C1SW  | 3-1/2  | 1.6 | 4-3/16     | 106 | 2-15/16 | 75  | 1/2 | 15  |                  |      |                        |      |                      |                                     |
| 1   | 25 | C1SC                             | C1SW  | 5-1/2  | 2.5 | 5          | 127 | 3-1/2   | 89  | 1/2 | 15  | 2 515            | 173  | 3 600                  | 248  | Bolted               | ANSI B16.11<br>Socketweld           |
| 1-1/4   | 32 | C1SC                             | C1SW* | 17     | 8   | 6-3/4      | 171 | 6       | 152 | 3/4 | 20  |                  |      |                        |      |                      |                                     |
| 1-1/2   | 40 | C1SC                             | C1SW* | 17     | 8   | 6-3/4      | 171 | 6       | 152 | 3/4 | 20  | 2 515            | 173  | 3 600                  | 248  | Bolted               | Class 1500<br>ANSI B16.5<br>1/4" RF |
| 2   | 50 | C1SC                             | C1SW* | 25     | 11  | 8-1/4      | 210 | 7-7/16  | 189 | 1   | 25  |                  |      |                        |      |                      |                                     |

\*Socketweld Blowdown Connections.

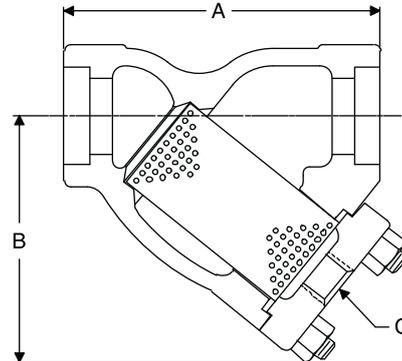
Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit [armstronginternational.com](http://armstronginternational.com) for up-to-date information.



# Cast Stainless Steel (CF8M) 1 500 lb and 600 lb Screwed, Socketweld 1/2" - 3"

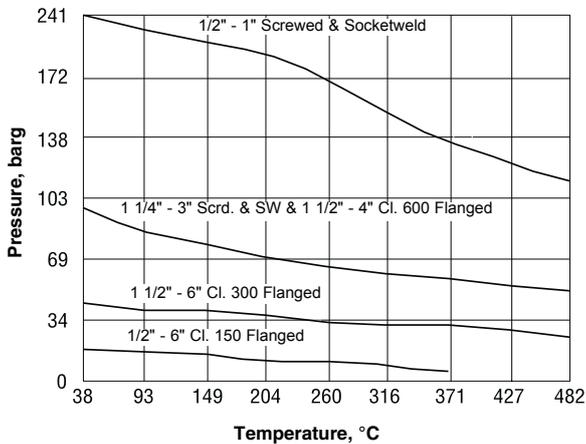


E7SC/E7SW 1/2", 3/4", 1"



E7SC/E7SW 1 1/4", 1 1/2", 2", 3"

## Pressure/Temperature Rating



Strainers

Table S-328-1. Materials: 1 500 lb and 600 lb Screwed or Socketweld 1/2" - 3"

| Connections Size<br>in | Body                  | Screen Retainer       | Gasket                              | Bolting   | Standard Screen               |
|------------------------|-----------------------|-----------------------|-------------------------------------|---|-------------------------------|
| 1/2", 3/4", 1"         | ASTM A351<br>Gr. CF8M | ASTM A276             | 316 SS Flat                         | N/A   | 316 SS 0,045"<br>perforated † |
| 1 1/4", 1 1/2", 2"     |                       | ASTM A351<br>Gr. CF8M | 304 SS Spiral Wound<br>Non-asbestos | Studs ASTM A193 Gr. B7<br>Nuts ASTM A194 Gr. 2H |                               |
| 3"                     |                       |                       | Non-asbestos                        | Cap screws ASTM A193 Gr. B7                     |                               |

† Note: Other screen materials available. See page S-321.

Table S-328-2. Physical Data: 1 500 lb and 600 lb Screwed or Socketweld 1/2" - 3"

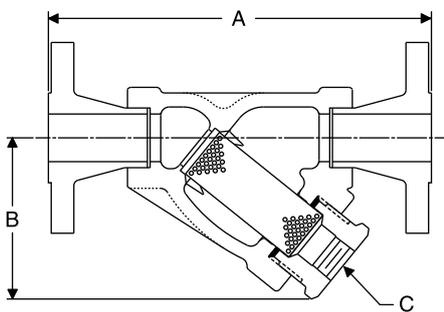
| Connection Size<br>in | Ordering Code<br>Standard Screen |      | Weight<br>kg | Dimensions |         |         | Maximum Pressure       |                       | Screen Retainer Type | Connections               |
|-----------------------|----------------------------------|------|--------------|------------|---------|---------|------------------------|-----------------------|----------------------|---------------------------|
|                       | Screwed                          | SW   |              | A<br>mm    | B<br>mm | C<br>in | Saturated Steam<br>bar | 38°C non-shock<br>bar |                      |                           |
| 1/2"                  | E7SC                             | E7SW | 1,1          | 95         | 68      | 3/8"    | 144                    | 207                   | Threaded             | ANSI B1.20.1<br>Screwed   |
| 3/4"                  |                                  |      | 1,6          | 106        | 75      | 1/2"    |                        |                       |                      |                           |
| 1"                    |                                  |      | 3,0          | 127        | 89      |         |                        |                       |                      |                           |
| 1 1/4"                | E7SC                             | E7SC | 4,0          | 140        | 106     | 1/2"    | 64                     | 99                    | Bolted               | ANSI B16.11<br>Socketweld |
| 1 1/2"                |                                  |      | 5,0          | 160        | 122     |         |                        |                       |                      |                           |
| 2"                    |                                  |      | 9,0          | 197        | 143     |         |                        |                       |                      |                           |
| 3"                    |                                  |      | 23,0         | 289        | 208     |         |                        |                       |                      |                           |

Shade indicates products that are CE Marked according to the PED (2014/68/UE). All the other sizes comply with the Article 4.3 of the same directive.

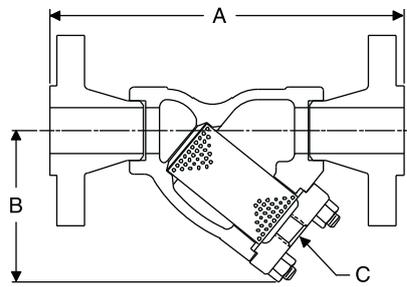
All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.

# Cast Stainless Steel (CF8M)

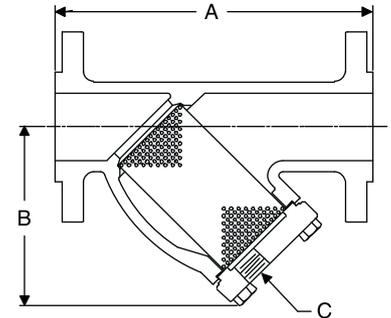
## Cl. 150, 300 Flanged 1/2" - 6" and Cl. 600 Flanged 1/2" - 4"



E7FL 1/2", 3/4", 1"



E7FL 1 1/2", 2", 3"



E7FL 4", 6"

**Table S-329-1. Materials: Class 150, 300 Flanged 1/2" - 6" and Class 600 Flanged 1/2" - 4"**

| Connection Size<br>in | Body                  | Screen Retainer       | Gasket                              | Bolting   | Standard Screen              |
|-----------------------|-----------------------|-----------------------|-------------------------------------|---|------------------------------|
| 1/2", 3/4", 1"        | ASTM A351<br>Gr. CF8M | ASTM A276             | 316 SS Flat                         | N/A   | 316SS 0,045"<br>perforated † |
| 1 1/2", 2"            |                       | ASTM A351<br>Gr. CF8M | 304 SS Spiral Wound<br>Non-asbestos | Studs ASTM A193 Gr. B7<br>Nuts ASTM A194 Gr. 2H |                              |
| 3", 4", 6"            |                       |                       | Non-asbestos                        | Cap Screws ASTM A193 Gr. B7                     |                              |

† Note: Other screen materials available. See page S-321.

**Table S-329-2. Physical Data: Class 150, 300 Flanged 1/2" - 6" and Class 600 Flanged 1/2" - 4"**

| Connection Size<br>in | Ordering Code,<br>Standard Screen | Weight<br>kg | Dimensions |         |          | Maximum Pressure       |                       | Screen Retainer Type | Flanges                |
|-----------------------|-----------------------------------|--------------|------------|---------|----------|------------------------|-----------------------|----------------------|------------------------|
|                       |                                   |              | A<br>mm    | B<br>mm | C*<br>in | Saturated Steam<br>bar | 38°C non-shock<br>bar |                      |                        |
| 1/2"                  | E7FL 150                          | 2,3          | 175        | 68      | 3/8"     | 14                     | 19                    | Threaded             | ANSI B16.5<br>1/16" RF |
| 3/4"                  |                                   | 4,5          | 187        | 75      | 1/2"     |                        |                       |                      |                        |
| 1"                    |                                   | 5,0          | 213        | 89      |          |                        |                       |                      |                        |
| 1 1/2"                |                                   | 9,0          | 257        | 122     |          |                        |                       |                      |                        |
| 2"                    | 11,0                              | 292          | 143        | 1 1/4"  | 14       | 19                     | Bolted                |                      |                        |
| 3"                    | E7FL 150                          | 25,0         | 397        |         |          |                        |                       | 208                  |                        |
| 4"                    | EK7FL 150                         | 28,0         | 308        |         |          |                        |                       | 227                  | 1 1/2"                 |
| 6"                    |                                   | 61,0         | 470        | 337     | 2"       |                        |                       |                      |                        |
| 1/2"                  | E7FL 300                          | 3,0          | 184        | 68      | 3/8"     | 34                     | 50                    | Threaded             | ANSI B16.5<br>1/16" RF |
| 3/4"                  |                                   | 4,3          | 197        | 75      | 1/2"     |                        |                       |                      |                        |
| 1"                    |                                   | 6,0          | 226        | 89      |          |                        |                       |                      |                        |
| 1 1/2"                | E7FL 300                          | 10,0         | 273        | 122     | 1/2"     | 34                     | 50                    | Bolted               |                        |
| 2"                    |                                   | 15,0         | 308        | 143     | 1 1/4"   |                        |                       |                      |                        |
| 3"                    |                                   | 34,0         | 416        | 208     |          |                        |                       |                      |                        |
| 4"                    | EK7FL 300                         | 40,0         | 368        | 227     | 1 1/2"   | 64                     | 99                    | Threaded             |                        |
| 6"                    |                                   | 81,0         | 491        | 337     | 2"       |                        |                       |                      |                        |
| 1/2"                  | E7FL 600                          | 4,0          | 195        | 68      | 3/8"     | 64                     | 99                    | Threaded             |                        |
| 3/4"                  |                                   | 4,3          | 210        | 75      | 1/2"     |                        |                       |                      |                        |
| 1"                    |                                   | 6,0          | 238        | 89      |          |                        |                       |                      |                        |
| 1 1/2"                | E7FL 600                          | 12,0         | 287        | 122     | 1/2"     | 64                     | 99                    | Bolted               |                        |
| 2"                    |                                   | 14,0         | 324        | 143     | 1 1/4"   |                        |                       |                      |                        |
| 3"                    |                                   | 34,0         | 435        | 208     |          |                        |                       |                      |                        |
| 4"                    | EK7FL 600                         | 72,0         | 457        | 317     | 1 1/2"   |                        |                       |                      |                        |

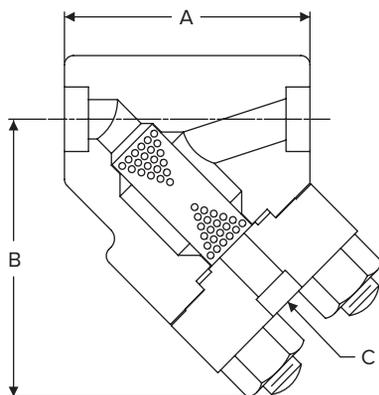
Note: For pressure/temperature ratings, see page S-328.

Shade indicates products that are CE Marked according to the PED (2014/68/UE). All the other sizes comply with the Article 4.3 of the same directive.

**All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.**



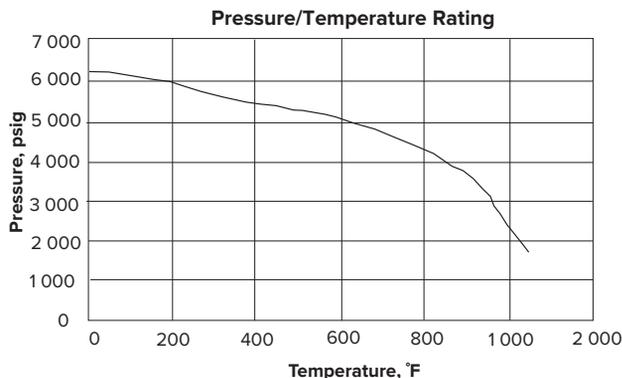
# Forged Steel (F22) 2 500 lb Socketweld 1/2" - 2"



D1SW 1/2" - 2"



For a fully detailed certified drawing, refer to CD #1059.



Strainers

**Materials: 2 500 lb Socketweld 1/2" - 2" (15 - 50 mm)**

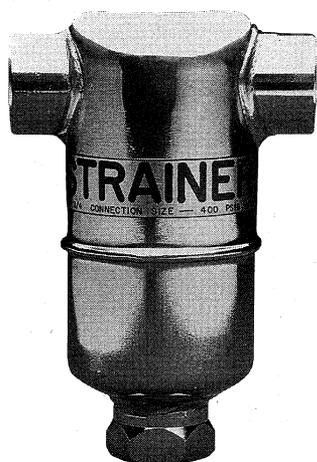
| Connection Size              |                        | Body              | Screen Retainer   | Gasket                           | Bolting                                       | Standard Screen          |
|------------------------------|------------------------|-------------------|-------------------|----------------------------------|---|--------------------------|
| in                           | mm                     |                   |                   |                                  |   |                          |
| 1/2, 3/4, 1, 1-1/4, 1-1/2, 2 | 15, 20, 25, 32, 40, 50 | ASTM A182 Gr. F22 | ASTM A182 Gr. F22 | 347 SS Spiral Wound Non-asbestos | Studs ASTM A193 Gr. B16 Nuts ASTM A194 Gr. 2H | 304 SS .045" perforated* |

\*NOTE: Other screen materials available. See page 435.

**Physical Data: 2 500 lb Socketweld 1/2" - 2" (15 - 50 mm)**

| Size  |    | Ordering Code, Standard Screen | Weight |       | Dimensions |       |       |     |     |    | Maximum Pressure |      |                        |      | Screen Retainer Type | Connections            |
|-------|----|--------------------------------|--------|-------|------------|-------|-------|-----|-----|----|------------------|------|------------------------|------|----------------------|------------------------|
|       |    |                                |        |       | A          |       | B     |     | C*  |    | Saturated Steam  |      | 100°F (38°C) non-shock |      |                      |                        |
| in    | mm |                                | lb     | kg    | in         | mm    | in    | mm  | in  | mm | psig             | barg | psig                   | barg |                      |                        |
| 1/2   | 15 | D1SW                           | 26     | 12    | 5-1/8      | 130   | 5-5/8 | 143 | 1/2 | 15 | 2 500            | 172  | 6 000                  | 414  | Bolted               | ANSI B16.11 Socketweld |
| 3/4   | 20 |                                |        |       |            |       |       |     |     |    |                  |      |                        |      |                      |                        |
| 1     | 25 |                                |        |       |            |       |       |     |     |    |                  |      |                        |      |                      |                        |
| 1-1/4 | 32 |                                |        |       |            |       |       |     |     |    |                  |      |                        |      |                      |                        |
| 1-1/2 | 40 |                                |        |       |            |       |       |     |     |    |                  |      |                        |      |                      |                        |
| 2     | 50 | 56                             | 25     | 6-5/8 | 168        | 7-3/8 | 187   |     |     |    |                  |      |                        |      |                      |                        |

\*Socketweld blowdown connections for 1/2" (15 mm) pipe.



## T-Type Stainless Steel Strainer



# Armstrong

## T-Type Stainless Steel Strainer

For steam and refrigeration systems

Protect your refrigeration or steam system by catching particles before they can harm valves or other sensitive equipment. Armstrong's T-Type Strainer removes solids from the liquid or gas flowing in your pipelines.

### All Stainless Steel Construction

The proven thin wall stainless steel construction of Armstrong's T-Type Strainer gives you the following benefits:

- High resistance to corrosion.
- Lightweight.
- High resistance to damage from freezing.
- A body design which allows for a larger open screen area.
- Low temperature capability.

### Easier Maintenance

The retainer design of Armstrong's T-Type Strainer provides easier maintenance. A stainless steel retainer wire holds the strainer screen in place. This retainer is easily accessible through the strainer blowdown connection. For cleaning or replacement, the screen may be easily removed with a pair of pliers.

### Three-Year Guarantee

Armstrong's T-Type Strainer comes with a three-year guarantee against defective materials, workmanship, and failure due to wear.

Armstrong's T-Type Strainer is ideal for use in refrigeration systems, corrosive environments, and applications where sanitary conditions must be maintained, or any application where stainless steel strainers are required.

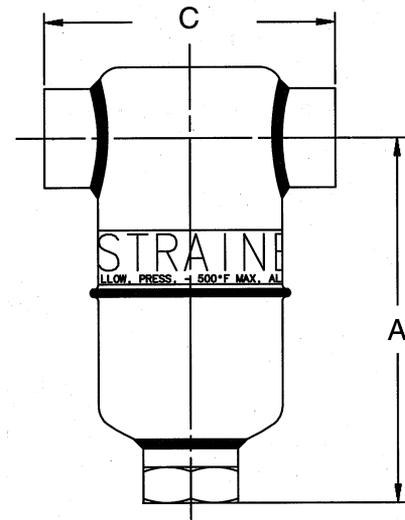
Armstrong also manufactures Y-Type Strainers in a wide choice of sizes and materials to meet the bulk of all pipeline straining requirements. For more information on strainers for your application, contact your Armstrong Representative.

# T-Type Stainless Steel Strainer

| Physical Data                                       |                                   |     |        |     |
|---|-----------------------------------|-----|--------|-----|
|   | in                                | mm  | in     | mm  |
| Pipe Connections                                    | 1/2                               | 15  | 3/4    | 20  |
| "A" (Bottom to $\varnothing$ )                      | 5                                 | 127 | 5-1/16 | 129 |
| "B" (Height)  | 5-7/8                             | 149 | 6-1/16 | 154 |
| "C" (Width)   | 4                                 | 102 | 4      | 102 |
| Weight lb. (kg)                                     | 1-5/8                             | .73 | 1-7/8  | .85 |
| Perforation Size                                    | .045" perforated*                 |     |        |     |
| Total Screen Area sq. in.                           | 8.2                               |     |        |     |
| Percentage of Open Area of Screen                   | 37%                               |     |        |     |
| Ratio of Open Area of Screen to Inside Area of Pipe | 10.1                              |     | 7.26   |     |
| Maximum Operating Pressure                          | 400 psig (27 bar) @ 500°F (260°C) |     |        |     |

\* For other screen options, consult factory.

| List of Materials             |                       |
|-------------------------------|-----------------------|
| Body                          | T304L Stainless Steel |
| Screen (T1SC) .045 perforated | T304 Stainless Steel  |
| Screen Retainer Wire          | T316 Stainless Steel  |



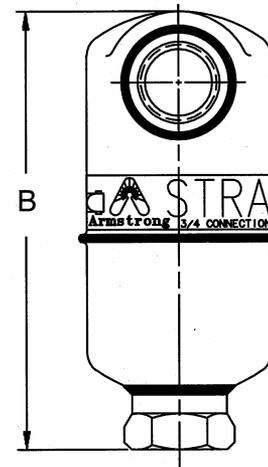
## Ordering

When ordering, designate T1SC-1/2" for 1/2" NPT connections or T1SC-3/4" for 3/4" NPT connections.

## Installation Guidelines

Selection or installation of equipment should always be accompanied by competent technical assistance. We encourage you to contact Armstrong or its local Representative if further information is required.

1. Clean all threaded areas of pipe thoroughly before installing strainer. Use pipe dope or teflon sparingly. Leave the end thread exposed to avoid introducing the sealant into the system.
2. The strainer can be installed in either the horizontal or vertical down position. **Note: The flow arrow on the top of the strainer must correspond to the direction of fluid flow in the system.**
3. When installing the strainer, leave a 12 inch clearance at the blowdown connection for screen removal.
4. **NOTE: Install a pipe plug or blowdown valve (not included) in the blowdown connection of the strainer.**



### Armstrong International, Inc:

816 Maple St., P.O. Box 408, Three Rivers, MI 49093 - USA, Ph: (616) 273-1415, Fax: (616) 278-6555

Parc Industriel Des Hauts-Sarts, B-4040 Herstal/Liege - Belgium, Ph: (32)(42) 409090, Fax: (32)(42) 481361

Steam Traps \ Humidifiers \ Steam Coils \ Valves \ Air Vents \ Water Heaters \ Pumping Traps

www.armstrong-intl.com

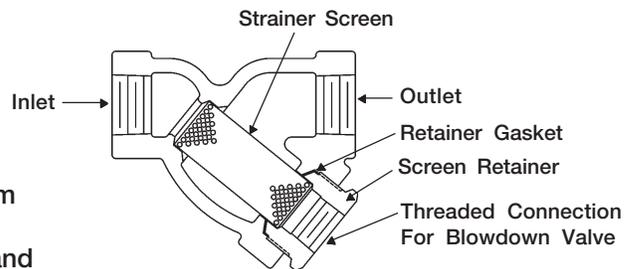


# Installation and Maintenance

## For Y-Type Strainers

A strainer is a device which provides a means of mechanically removing solids from a flowing fluid or gas in a pipeline by utilizing a perforated or mesh straining element.

To ensure against untimely shutdown of equipment, strainers should be installed ahead of pumps, loading valves, control valves, meters, steam traps, turbines, compressors, solenoid valves, nozzles, pressure regulators, burners, unit heaters and other sensitive equipment.



### INSTALLATION

Clean all threaded areas of pipe thoroughly before installing strainer. Use pipe dope or teflon tape sparingly. Leave the end thread exposed to avoid introducing the sealant into the piping system. The strainer can be installed in the horizontal or vertical down position.

**CAUTION:** When installing socket weld strainers 1-1/4" size and larger, and all D-Series strainers, be aware the strainer has a non-metal gasket that can be damaged by excessive heat. Try to minimize welding time, and cool the strainer after welding. If pre- and post-weld heating is needed (as for the D-Series), removing the gasket may be advisable.

### OPERATION AND MAINTENANCE

After the initial operation of the system, the strainer should be blown down to remove any installation debris caught in the screen. Repeat the blowdown procedure on a regular schedule thereafter. Frequency of blowdown depends on the operating conditions to which the strainer is subjected. If no blowdown valve is to be used, the strainer can be cleaned by removing the screen retainer and screen. **CAUTION: ALWAYS ISOLATE THE STRAINER FROM THE PRESSURIZED SYSTEM BEFORE OPENING TO CLEAN. USE A NEW GASKET WHEN REASSEMBLING THE STRAINER.** The strainer screen should be inspected one to two times per year. Recommended spare parts are one screen and three gaskets per strainer.

### ORDERING REPLACEMENT PARTS

To order replacement strainer screens, state connection size of strainer, screen material and type of perforation or mesh. See screen specification chart. When ordering replacement screens for flanged strainers, state flange rating.

To order replacement strainer gaskets or retainers, state type of connection (screwed, socket weld, butt weld, or flanged), connection size and body material of strainer. Contact your Armstrong Representative if further assistance is required.

**How To Order  
Armstrong Strainer  
Replacement Screens and Gaskets**

To order, specify strainer size, full details on connections and screen specifications required, or use the ordering code provided.

**Available Strainer Screen Materials**

| Screen Specification |              | Particle Retention (in) | Back-Up Screen Required | Materials   |          |         |         |
|----------------------|--------------|-------------------------|-------------------------|-------------|----------|---------|---------|
|                      |              |                         |                         | 304 SS      | Monel    | Brass   | 316 SS  |
| Perforated           | 1/64"        | 0.016                   | 3" - 10"                | Code 10     | Code 18  | —       | —       |
|                      | 1/32"        | 0.031                   | None                    | Code 11     | Code 19  | —       | Code 31 |
|                      | .045" (3/64) | 0.045                   | None                    | Code 1      | Code 3   | Code 4  | Code 7  |
|                      | 1/16"        | 0.062                   | None                    | Code 12     | Code 20  | —       | Code 32 |
|                      | 1/8"         | 0.125                   | None                    | Code 8      | Code 21  | Code 28 | Code 33 |
|                      | 3/16"        | 0.188                   | None                    | Code 13     | Code 22  | —       | Code 34 |
|                      | 1/4"         | 0.25                    | None                    | Code 14     | Code 23  | —       | Code 35 |
| Mesh                 | 20 x 20      | 0.034                   | *6" - 10"               | Code 15     | Code **5 | —       | —       |
|                      | 24 x 110     | 0.0056                  | 5" - 10"                | —           | Code 24  | —       | Code 2  |
|                      | 30 x 30      | 0.020                   | None                    | Code 41 (1) | —        | —       | —       |
|                      | 40 x 40      | 0.015                   | 1-1/2" - 10"            | Code 16     | Code 6   | —       | Code 37 |
|                      | 100 x 100    | 0.0055                  | All Sizes               | Code 9      | Code 25  | —       | Code 38 |
|                      | 200 x 200    | 0.0029                  | All Sizes               | Code 17     | —        | —       | Code 39 |
|                      | 150 x 150    | 0.0041                  | All Sizes               | Code 40     | —        | —       | —       |

\* Except 6" — 125 lb. cast iron.

\*\* On Code 5 — 2-1/2" thru 10" require back-up screens

Shading indicates available screens for CA Series Strainers.

(1) 30 x 30 304 SS mesh screens only available for CA series strainers

**Replacement Gaskets  
Standard Replacement Gaskets for Strainers**

| Strainer Size (in) | Cast Iron | Carbon Steel | Chrome Moly Steel | Bronze   | T-316 Stainless Steel | Forged Steel |
|--------------------|-----------|--------------|-------------------|----------|-----------------------|--------------|
|                    | "A"       | "B"          | "C"               | "F"      | "E"                   | "D"          |
|                    | Part No.  | Part No.     | Part No.          | Part No. | Part No.              | Part No.     |
| 3/8"               | A4469     | —            | —                 | —        | —                     | —            |
| 1/2"               | A4469     | A4469        | A4469             | A6252A   | A4469A                | A6254        |
| 3/4"               | A4470     | A4470        | A4470             | A6253A   | A4470A                | A6254        |
| 1"                 | A4471     | A4471        | A4471             | A6255A   | A4471A                | A6254        |
| 1-1/4"             | A6256     | A6257A       | A6258A            | A6256A   | A6257A                | A6259        |
| 1-1/2"             | A6267B    | A6262        | A6258A            | A6267A   | A6262                 | A6259        |
| 2"                 | A6263     | A6264        | A6265A            | A6263A   | A6264                 | A6259        |
| 2-1/2"             | A21274-1  | A21274-1     | —                 | —        | A21274-1              | —            |
| 3"                 | A21340-1  | A21340-1     | —                 | —        | A21340-1              | —            |
| 4"                 | A22106-1  | A22106-1     | —                 | —        | A22106-1              | —            |
| 5"                 | A21343-1  | A21343-1     | —                 | —        | —                     | —            |
| 6"                 | A22049-1  | A22049-1     | —                 | —        | —                     | —            |
| 8"                 | A21427-1  | A21427-1     | —                 | —        | —                     | —            |
| 10"                | A21432-1  | —            | —                 | —        | —                     | —            |

**Strainer Repairs For  
CA Cast Iron Strainers Only**

| Strainer Size (in) | Blowdown Plug |           | Retainer Gasket |
|--------------------|---------------|-----------|-----------------|
|                    | Part No.      | Size (in) | Part No.        |
| 1/2"               | A6002A        | 3/8"      | A19251          |
| 3/4"               | A6003A        | 1/2"      | A19251          |
| 1"                 | A6003A        | 1/2"      | A19252          |
| 1-1/4"             | A6003A        | 1/2"      | A6256           |
| 1-1/2"             | A6003A        | 1/2"      | A19253          |
| 2"                 | A6003A        | 1/2"      | A19254          |

**K1SC, K1SW, N1SC and N1SW  
Replacement Screen Assemblies**

|      |  |         |
|------|--|---------|
| 1/2" | .045 Perf. 304 Stainless Steel Screen Assy | C1823-2 |
| 3/4" | .045 Perf. 304 Stainless Steel Screen Assy | C1823-4 |
| 1"   | .045 Perf. 304 Stainless Steel Screen Assy | C1823-5 |

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