

Fluid Handling Accessories

Applications

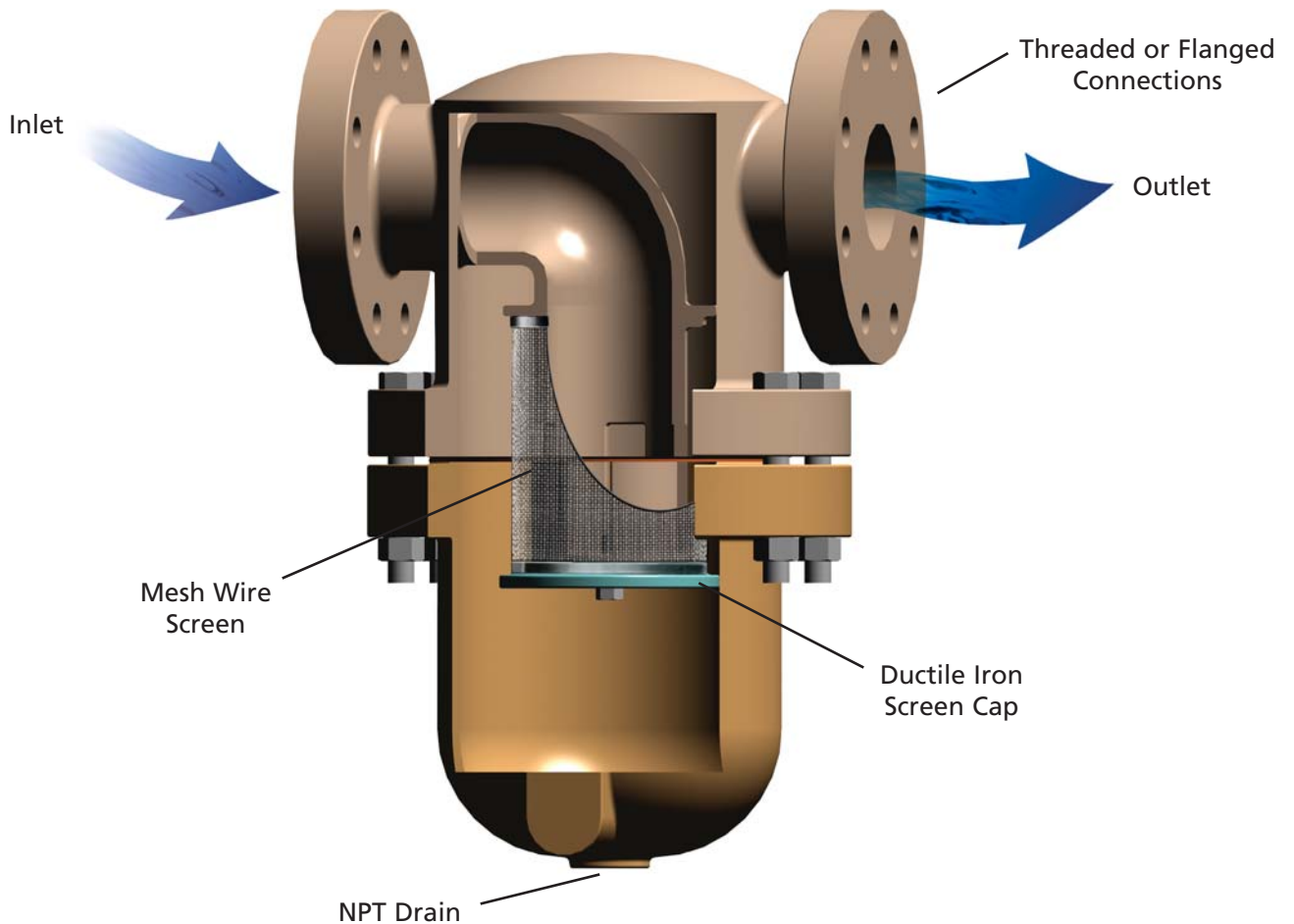
Kadant Johnson separators use expansion, change in direction, and filtration to effectively remove up to 99% of the precipitate in compressed air and steam systems. They range in size from 3/8" to 4". The housing material is ductile iron and has a pressure rating of 300 psig.

Features

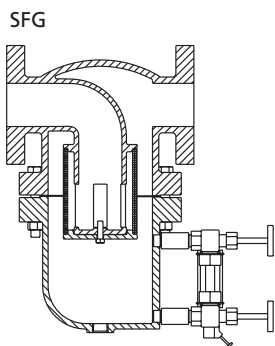
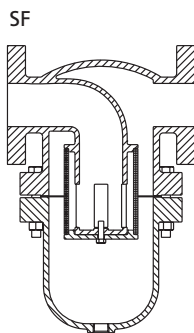
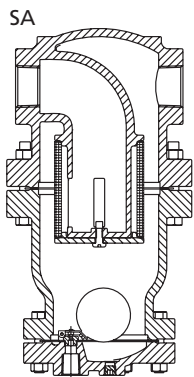
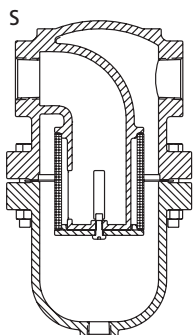
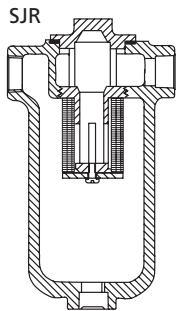
- ▶ Open flow design
- ▶ Screen available in bronze, aluminum, or stainless steel
- ▶ Threaded and flanged assemblies
- ▶ Rated up to 300 psig and 650°F

Benefits

- ▶ Minimal pressure drop
- ▶ "Drop-In" installation
- ▶ Space saving, compact
- ▶ Captures up to 99% of entrained moisture and solids



AIR AND STEAM SEPARATORS



| Type | Size | Screen | Part ID | Height | Face to Face Width | Drain | Weight (lbs) |
|---------------------|------------|----------|----------|--------|--------------------|-------|--------------|
| SJR | 3/8" | Aluminum | 18A01000 | 9.00 | 5.00 | 0.75 | 9 |
| | | Bronze | 18A03000 | | | | |
| | 1/2" | Aluminum | 18A01020 | 9.00 | 5.00 | 0.75 | 9 |
| | | Bronze | 18A03020 | | | | |
| | 3/4" | Aluminum | 18A01040 | 9.00 | 5.00 | 0.75 | 9 |
| | | Bronze | 18A03040 | | | | |
| S | 3/4" | Aluminum | 18A01060 | 10.75 | 6.00 | 0.75 | 29 |
| | | Bronze | 18A03060 | | | | |
| | 1" | Aluminum | 18A01080 | 10.75 | 6.00 | 0.75 | 29 |
| | | Bronze | 18A03080 | | | | |
| | 1 1/4" | Aluminum | 18A01100 | 10.75 | 6.00 | 0.75 | 29 |
| | | Bronze | 18A03100 | | | | |
| | 1 1/2" | Aluminum | 18A01120 | 14.19 | 7.75 | 0.75 | 50 |
| | | Bronze | 18A03120 | | | | |
| | 2" | Aluminum | 18A01140 | 14.19 | 7.75 | 0.75 | 50 |
| | | Bronze | 18A03140 | | | | |
| SA | 3/4" | Aluminum | 18A02000 | 12.25 | 6.00 | 0.50 | 28 |
| | | Bronze | 18A03280 | | | | |
| | 1" | Aluminum | 18A02020 | 12.25 | 6.00 | 0.50 | 28 |
| | | Bronze | 18A03290 | | | | |
| | 1 1/4" | Aluminum | 18A02040 | 12.25 | 6.00 | 0.50 | 28 |
| | | Bronze | 18A03300 | | | | |
| | 1 1/2" | Aluminum | 18A02060 | 15.19 | 7.75 | 0.50 | 48 |
| | | Bronze | 18A03320 | | | | |
| | 2" | Aluminum | 18A02080 | 15.19 | 7.75 | 0.50 | 48 |
| | | Bronze | 18A03340 | | | | |
| SF (150 lb flg.) | 3" Flanged | Aluminum | 18A01160 | 19.16 | 13.00 | 0.75 | 125 |
| | | Bronze | 18A03160 | | | | |
| | 4" Flanged | Aluminum | 18A01180 | 22.44 | 15.00 | 1.00 | 175 |
| | | Bronze | 18A03193 | | | | |

Aluminum screen recommended for air. Bronze screen recommended for steam. Stainless steel screen available on request. Flange connections available in 150 lb or 300 lb ratings.

Recommended Air Capacities (SCFM)

Operating Pressure

| Size | 25 | 50 | 75 | 100 | 125 | 150 | 200 | 250 | 300 |
|---------|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| 3/8 SJR | 17 | 24 | 30 | 35 | 39 | 42 | 49 | 55 | 60 |
| 1/2 SJR | 21 | 29 | 36 | 41 | 46 | 51 | 59 | 66 | 72 |
| 3/4 SJR | 26 | 37 | 45 | 52 | 58 | 63 | 73 | 82 | 90 |
| 3/4 | 35 | 49 | 60 | 69 | 77 | 85 | 98 | 109 | 120 |
| 1 | 86 | 122 | 150 | 173 | 193 | 211 | 244 | 273 | 299 |
| 1 1/4 | 104 | 147 | 179 | 207 | 232 | 254 | 293 | 328 | 359 |
| 1 1/2 | 173 | 244 | 299 | 345 | 386 | 423 | 488 | 546 | 598 |
| 2 | 224 | 317 | 389 | 449 | 502 | 550 | 635 | 710 | 778 |
| 3 | 483 | 684 | 837 | 967 | 1,081 | 1,184 | 1,367 | 1,529 | 1,675 |
| 4 | 760 | 1,074 | 1,316 | 1,520 | 1,699 | 1,861 | 2,149 | 2,403 | 2,632 |

Based on 80°F air temperature and 1 psi pressure drop.

Recommended Steam Capacities (pph)

Operating Pressure

| Size | 25 | 50 | 75 | 100 | 125 | 150 | 200 | 250 | 300 |
|---------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 3/8 SJR | 45 | 71 | 97 | 123 | 148 | 173 | 223 | 274 | 324 |
| 1/2 SJR | 72 | 114 | 155 | 195 | 235 | 275 | 355 | 435 | 516 |
| 3/4 SJR | 126 | 199 | 271 | 342 | 413 | 483 | 624 | 764 | 905 |
| 3/4 | 126 | 199 | 271 | 342 | 413 | 483 | 624 | 764 | 905 |
| 1 | 204 | 323 | 440 | 555 | 670 | 784 | 1,011 | 1,239 | 1,467 |
| 1 1/4 | 354 | 559 | 761 | 961 | 1,159 | 1,356 | 1,750 | 2,144 | 2,539 |
| 1 1/2 | 481 | 761 | 1,036 | 1,307 | 1,577 | 1,846 | 2,382 | 2,918 | 3,456 |
| 2 | 793 | 1,255 | 1,707 | 2,155 | 2,600 | 3,042 | 3,925 | 4,809 | 5,696 |
| 3 | 1,747 | 2,764 | 3,762 | 4,748 | 5,727 | 6,702 | 8,648 | 10,595 | 12,549 |
| 4 | 3,009 | 4,760 | 6,478 | 8,176 | 9,862 | 11,542 | 14,892 | 18,245 | 21,609 |

Based on 6,000 fpm and approximately 1.5 psi pressure drop.

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Separators-1001 11/2009
replaces Separators Flyer-1000
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