

Information Sheet

300 Series Liquid End Upgrade Reference Chart

CARTRIDGE VALVE DESIGN

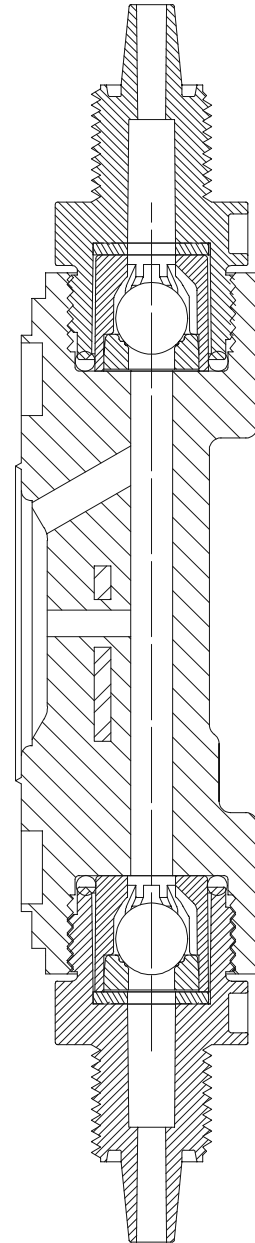
- Improved priming capabilities
- Triple sequential seating on Polyprel® valve seat
 - 1) sharp edge for very low pressure seal
 - 2) rounded surface for pressures of 10 psi (0.7 Bar) and above
 - 3) second rounded surface to minimize additional ball sink at pressures above 100 psi (7 Bar)
- Lower minimum output per stroke
- Pre-assembled cartridge valves for easy replacement

THREE FUNCTION VALVE (3FV)

- The new 3FV (Pressure Relief, Priming Aid, Line Drain) vents the discharge to atmosphere to make priming easy
- New ramp style knob locks open with only ¼ turn, keeping your hands free while the pump primes

MATERIAL OF CONSTRUCTION

- Consolidation of PVC and Polypropylene to a stronger, highly chemical resistant PGC™ (Polyolefin Glass Composite)
- Highly resistant against oxidizing chemicals such as sodium hypochlorite



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Replaces same of 1849.A 7/96
1849.B 11/97

Upgrade Reference Chart

| Current Liquid End | 300 Series Liquid End | Product Description | | | Refer to Bulletin # |
|--------------------|-----------------------|---------------------|---------------------------|------------|---------------------|
| | | Size Code | Head / Cartridge Material | Acc. Valve | |
| 150 | 350TI | 0.5 | Acrylic / PGC™ Polyprel® | 3FV | 1834 |
| 150S | 350SI | 0.5 | Acrylic / PGC™ Polyprel® | 4FV | 1834 |
| 151 | 351TI | 0.5 | PGC™ / PGC™ Polyprel® | 3FV | 1834 |
| 151P | 351TP | 0.5 | PGC™ / PGC™ Polyprel® | 3FV (Pipe) | 1855 |
| 151S | 351SI | 0.5 | PGC™ / PGC™ Polyprel® | 4FV | 1834 |
| 152 | 352TI | 0.5 | PVDF / PVDF Polyprel® | 3FV | 1834 |
| 152S | 352SI | 0.5 | PVDF / PVDF Polyprel® | 4FV | 1834 |
| 158 | 351TI | 0.5 | PGC™ / PGC™ Polyprel® | 3FV | 1834 |
| 158S | 351SI | 0.5 | PGC™ / PGC™ Polyprel® | 4FV | 1834 |
| 190 | 391TI | 0.9 | PGC™ / PGC™ Polyprel® | 3FV | 1836 |
| 190S | 391SI | 0.9 | PGC™ / PGC™ Polyprel® | 4FV | 1836 |
| 191 | 391TI | 0.9 | PGC™ / PGC™ Polyprel® | 3FV | 1836 |
| 191S | 391SI | 0.9 | PGC™ / PGC™ Polyprel® | 4FV | 1836 |
| 192 | 392TI | 0.9 | PVDF / PVDF Polyprel® | 3FV | 1836 |
| 192S | 392SI | 0.9 | PVDF / PVDF Polyprel® | 4FV | 1836 |
| 193 | 392TI | 0.9 | PGC™ / PVDF Polyprel® | 3FV | 1836 |
| 193S | 392SI | 0.9 | PGC™ / PVDF Polyprel® | 4FV | 1836 |
| 196 | 391TI | 0.9 | PGC™ / PGC™ Polyprel® | 3FV | 1836 |
| 196S | 391SI | 0.9 | PGC™ / PGC™ Polyprel® | 4FV | 1836 |
| 198 | 391TI | 0.9 | PGC™ / PGC™ Polyprel® | 3FV | 1836 |
| 198S | 391SI | 0.9 | PGC™ / PGC™ Polyprel® | 4FV | 1836 |
| 199 | 391TI | 0.9 | PGC™ / PGC™ Polyprel® | 3FV | 1836 |
| 199S | 391SI | 0.9 | PGC™ / PGC™ Polyprel® | 4FV | 1836 |
| 91T | 390TI | 0.9 | Acrylic / PGC™ Polyprel® | 3FV | 1836 |
| 91S | 390SI | 0.9 | Acrylic / PGC™ Polyprel® | 4FV | 1836 |
| 161 | 361TI | 1.8 | PGC™ / PGC™ Polyprel® | 3FV | 1838 |
| 161S | 361SI | 1.8 | PGC™ / PGC™ Polyprel® | 4FV | 1838 |
| 162 | 362TI | 1.8 | PVDF / PVDF Polyprel® | 3FV | 1838 |
| 162S | 362SI | 1.8 | PVDF / PVDF Polyprel® | 4FV | 1838 |
| 168 | 361TI | 1.8 | PGC™ / PGC™ Polyprel® | 3FV | 1838 |
| 168S | 361SI | 1.8 | PGC™ / PGC™ Polyprel® | 4FV | 1838 |
| 61 | 360TI | 1.8 | Acrylic / PGC™ Polyprel® | 3FV | 1838 |
| 61S | 360SI | 1.8 | Acrylic / PGC™ Polyprel® | 4FV | 1838 |
| 111 | 311TI | 3.0 | PGC™ / PGC™ Polyprel® | 3FV | 1840 |
| 111S | 311SI | 3.0 | PGC™ / PGC™ Polyprel® | 4FV | 1840 |
| 112 | 312TI | 3.0 | PVDF / PVDF Polyprel® | 3FV | 1840 |
| 112S | 312SI | 3.0 | PVDF / PVDF Polyprel® | 4FV | 1840 |
| 118 | 311TI | 3.0 | PGC™ / PGC™ Polyprel® | 3FV | 1840 |
| 118S | 311SI | 3.0 | PGC™ / PGC™ Polyprel® | 4FV | 1840 |
| 11 | 310TI | 3.0 | PGC™ / PGC™ Polyprel® | 3FV | 1840 |
| 11S | 310SI | 3.0 | PGC™ / PGC™ Polyprel® | 4FV | 1840 |
| 20 | 310TI | 3.0 | Acrylic / PGC™ Polyprel® | 3FV | 1840 |
| 20S | 310SI | 3.0 | Acrylic / PGC™ Polyprel® | 4FV | 1840 |

Note: For 300 Series Liquid Ends :

1. To specify ¼" NPT, male - change "I" to "P" (for example 351TI to 351TP)
2. To specify black, UV resistant tubing - change "I" to "U" (for example 351TI to 351TU)
3. To specify Bleed Four Function Valve - change "S" to "B" (for example 351SI to 351BI)