

| FLUID DYNAMICS PRODUCT SPECIFICATIONS | | | | | | | | | | | | | | | | | | | |
|---|---------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------|------------------------------|----------------------------------|----------------------------------|--------------------------------|--------------------------------|----------------------------------|----------------------------------|----------------------------------|---|
| | STEELHEAD COMPOSITES | | | COORSTEK | | | | | | FLOWGUARD | | | | | | | | | |
| | POWERMAX 6000 | ACCULITE 300 | GAS BOTTLE | PE | CT | ZM | RD | NIX | DC | DS | DP | FG | HG | FB | FD | RD | FP | TD | |
| Physical Characteristics | | | | | | | | | | | | | | | | | | | |
| Pressure rating MAWP | 6000 (414 Bar) | 300 (21 Bar) | 6000 (414 Bar) | 6170 (425 Bar) | 6170 (425 Bar) | 12000 (827 Bar) | 3705 (255 Bar) | 3000 (206 Bar) | 6170 (425 Bar) | 7000 (475 Bar) | 150 (10 Bar) | 7000 (475 Bar) | 14993 (1034 Bar) | 217 (475 Bar) | 6235 (430 Bar) | 2175 (150 Bar) | 14993 (1034 Bar) | 2900 (200 Bar) | |
| Temp Rating MAWT (special materials may apply) | -20° to 185°F (-30° to 85°C) | -20° to 185°F (-30° to 85°C) | | -50° to 300°F (-45° to 149°C) | -20° to 300°F (-29° to 149°C) | -50° to 500°F (-45° to 260°C) | -20° to 300°F (-29° to 149°C) | -20° to 350°F (-29° to 176°C) | -20° to 300°F (-29° to 149°C) | -32° to 122°F (0° to 100°C) | -41° to 86°F (5° to 30°C) | -58° to 122°F (-50° to 100°C) | -58° to 122°F (-50° to 100°C) | -32° to 392°F (0° to 200°C) | -32° to 392°F (0° to 200°C) | -58° to 122°F (-50° to 100°C) | -58° to 122°F (-50° to 100°C) | -58° to 122°F (-50° to 100°C) | |
| Nominal Volume gal. (L) (special sizing available) | 1 - 30 (19-113) | 11.5 - 40 (44 - 151) | 1.33 - 9.49 cu ft (38 - 270) | 0.15 - 9.1 (.6 - 34.5) | 1.0 - 10 (3.79 - 37.9) | .06 - 151 (.23 - 571) | 0.15 - 9.1 (.6 - 34.5) | .4 - 8.19 (1.6 - 31) | 1.0 - 10 (3.79 - 37.9) | 0.026 - 2.64 (0.1 - 10) | 0.026 - 2.64 (0.1 - 10) | 0.026 - 53.0 (0.1 to 200) | 0.026 - 4.0 (0.1 - 15) | 0.013 - 53.0 (0.05 - 200) | 0.013 - 4.0 (0.05 - 15) | 0.002 - 0.032 (0.08 - 0.12) | 1.0 - 100 (1.0 - 50) | 0.026 - 7.4 (0.1 - 30) | |
| Weight Range lbs. (KG) | 72 - 242 (33 - 110) | 51 - 107 (23 - 49) | 128 - 400 (58 - 178) | 66 - 750 (30 - 340) | 250 - 1237 (113 - 567) | Varies by size/ pressure | Varies by size/ pressure | 66 - 750 (30 - 340) | Varies by size/ pressure | Varies by size/ pressure | Varies by size/ pressure | Varies by size/ pressure | Varies by size/ pressure | Varies by size/ pressure | Varies by size/ pressure | Varies by size/ pressure | Varies by size/ pressure | Varies by size/ pressure | |
| Height Range Inch (mm) | 26 - 96 (66 - 2438) | 46 - 100 (1168 - 2540) | 21 - 108 (533 - 2743) | 21 - 63 (533 - 1600) | 23 - 26 (584 - 660) | 6 - 120Ø (152 - 3048) | 12 - 96 (304 - 2438) | 4 - 10Ø (101 - 254) | 6 - 120Ø (152 - 3048) | 5.7" - 8.7" (145 - 700) | 6.1" - 27.0" (155 - 685) | 2.6" - 65" (65 - 1650) | 6.7" - 33.3" (170 - 845) | 4.5" - 30.7" (115 - 780) | 2.8" - 8.7" (73 - 220) | 3.5" (90) | 7.8" - 118" (200 - 3000) | 15.7" - 51" (400 - 1300) | |
| Max Diameter Inch (mm) | 12.0 (305) | 10.5 - 12.0 (267 - 305) | 12.0 - 17.13 (305 - 435) | 10.5 (267) | 13 - 23.5 (330 - 596) | 120Ø (3048) | 51 (1295) | 8.5 (216) | 120Ø (3048) | 2.6" - 8.7" (65 - 220) | 3.2" - 9.8" (80 - 250) | 2.6" - 12.8" (65 - 325) | 3.0" - 11.8" (76 - 300) | 4.5" - 23.6" (115 - 600) | 5.5" - 23.6" (139 - 600) | 3.2" (80) | 2.0" - 10.2" (50 - 260) | 4" - 11.8" (100 - 300) | |
| Abrasive Applications | 4 | 4 | 4 | 1 | 1 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | NR | 1 | |
| Bottom Repairable | ✓ | ✓ | | | | NA | | ✓ | | | | | | | | | | | |
| Top Repairable | ✓ | ✓ | | ✓ | ✓ | NA | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Ease of Maintenance | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | |
| Chemical Resistance (Shell) | 3 | 3 | 3 | 1 | 2 | 1 | 1.5 | 2 | 1.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Chemical Resistance (Elastomer) | 3 | 3 | 3 | 2 | 2 | NA | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | |
| Applications | | | | | | | | | | | | | | | | | | | |
| Food Grade (CIP) | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | 1 |
| Hydraulics | 1 | 1 | 1 | 3 | 3 | 2 | 2 | 4 | 2 | 1 | NR | 1 | 1 | NR | NR | NR | 1 | NR | |
| Storage Containment | | | 1 | NR | NR | NR | NR | NR | NR | | | | | | | | | 1 | |
| Water Hammer | | | | 2 | 3 | NR | 1 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | NR | 1 | |
| Chemical Injection | 3 | 3 | 3 | 1 | 2 | 1 | NR | 2 | NR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | NR | NR | |
| Thermal Expansion | 1 | 1 | 1 | 1 | 2 | NR | 4 | 2 | 2 | 1 | NR | 1 | 1 | 1 | 1 | NR | 1 | NR | |
| Midstream Oil & Gas | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | NR | 1 | 1 | 1 | 1 | 1 | 1 | NR | |
| Downstream Oil & Gas | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | NR | 1 | 1 | 1 | 1 | 1 | 1 | NR | |
| Upstream Oil & Gas | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | NR | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Machinery | 1 | 1 | 1 | 4 | 4 | 1 | 4 | 2 | NR | 2 | NR | 2 | 2 | NR | NR | NR | 1 | NR | |
| Certification | | | | | | | | | | | | | | | | | | | |
| ASME (Design Only) | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | NA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| ASME (Code Stamped) | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | NA | NA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| CE | ✓ | Working Towards | | NA | NA | | | | NA | ✓ | NA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| CRN | | | | ✓ | ✓ | ✓ | ✓ | NA | ✓ | NA | NA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| NR13 | | | | ✓ | | ✓ | | | ✓ | NA | NA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| PD5500 | | | | NA | | | | | | ✓ | NA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| PED | | | | NA | | | | | | NA | NA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| ATEX | | | | NA | | | | | | NA | NA | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| CIP | ISO1119 Surrogate | | | NA | | | | | | NA | NA | NA | NA | NA | NA | ✓ | NA | ✓ | |
| DNV | | | | | | | | | | NA | NA | NA | NA | NA | NA | ✓ | NA | ✓ | |

| KEY | | | | | |
|---------------|----------|----------|----------|----------------------|--------------------|
| 1 - Excellent | 2 - Good | 3 - Fair | 4 - Poor | NR - Not Recommended | NA - Not Available |

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*The chart is intended to illustrate typical properties. Property values vary with method of manufacture, size, and shape of part. Data contained herein is not to be construed as absolute and does not constitute a representation or warranty for which CoorsTek assumes legal responsibility. Close control of values of most properties can be maintained if specified.