

Table 1 - 224/224C DPU General Specifications Table (2/06a)

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|---|-------------|---|---|--|--|--|--|---|------------------------------------|------------------------------------|
| | | BODY | AVAILABLE DIFFERENTIAL PRESSURE RANGES | | | | | PRESSURE CONNECTIONS | | |
| SWP psi (bar) | | Housing Material | Stainless Steel or Inconel Bellows | Beryllium Copper Bellows (224C Only) | | Inconel Bellows | | Top | Bottom | |
| | | | 1-5/8" (41mm) O.D. | 1-5/8" (41mm) O.D. | 3/4" (19mm) O.D. | 3/4" (19mm) O.D. | 5/8" (16mm) O.D. | | | |
| 224C | 224 (Non-C) | 500 (34) | Forged Brass (ASTM-B124#2) | | 0-30" w.c. (0-75 mbar) to 0-60 psi (0-4.1 bar) | 0-61 psi (0-4.2 bar) to 0-400 psi (0-27.6 bar) | | 0-400 psi (0-27.6 bar) to 0-500 psi (0-34 bar) | 1/4" NPT | 1/4" NPT |
| | | 500 (34) | Cold Rolled Steel (C1018) Stainless Steel (316) | 0-30" w.c. (0-75 mbar) to 0-60 psi (0-4.1 bar) | | | 0-61 psi (0-4.2 bar) to 0-400 psi (0-27.6 bar) | 0-400 psi (0-27.6 bar) to 0-500 psi (0-34 bar) | 1/4" NPT | 1/4" NPT |
| | | 1,000 (69) | Copper Nickel (70-30) (MIL-C-15726) | | | | | | MS-16142-4 | MS-16142-4 |
| | | 1,500 (103) | Cold Rolled Steel (C1018) Stainless Steel (316) | | | | | | 1/4" NPT | 1/4" NPT |
| | | 3,000 (207) | Cold Rolled Steel (C1018) Stainless Steel (316) Monel | 0-60" w.c. (0-149 mbar) to 0-60 psi (0-4.1 bar) | 0-60" w.c. (0-149 mbar) to 0-60 psi (0-4.1 bar) | 0-61 psi (0-4.2 bar) to 0-400 psi (0-27.6 bar) | | 0-400 psi (0-27.6 bar) to 0-1000 psi (0-69 bar) | 1/2" NPT | 1/4" NPT |
| | | 6,000 (414) | Cold Rolled Steel (C1018) Stainless Steel (316) | | | | 0-61 psi (0-4.2 bar) to 0-400 psi (0-27.6 bar) | | 1/2" NPT | 1/4" NPT |
| | | 10,000 (689) | Alloy Steel (4140) | 0-100" w.c. (0-248 mbar) to 0-60 psi (0-4.1 bar) | 0-100" w.c. (0-248 mbar) to 0-60 psi (0-4.1 bar) | | | | 1/4" NPT 9/16 AMINCO (1/4" ODT) | 1/4" NPT 9/16 AMINCO (1/4" ODT) |
| Net Volume cu.in. (cu. cm) | | L.P. Head | 1.66" (27.2 cc) | 1.66" (27.2 cc) | 2.51" (41.1 cc) | 2.51" (41.1 cc) | 2.61" (42.8 cc) | | | |
| | | H.P. Head | 1.55" (25.4 cc) | 1.55" (25.4 cc) | 2.42" (39.7 cc) | 2.42" (39.7 cc) | 2.50" (40.9 cc) | | | |
| Displacement cu.in. (cu. cm) for full-scale Travel | | | 0.14" (2.3 cc) | 0.14" (2.3 cc) | 0.03" (0.49 cc) | 0.03" (0.49 cc) | 0.025" (0.41 cc) | | | |
| Performance: Torque Tube Rotation = 8° ±10%; Torque Tube Material = Beryllium Copper (BeCu); Temperature Limits = -40°F/°C to +180°F (+82°C); Maximum Non-linearity = per Range; Repeatability = 0.2% of full scale differential pressure (see DP Indicators, Switches, & Transmitters bulletin #21920 for additional information). | | | | | | | | | | |
| Notes: Zero center or split ranges available on special order (e.g., 0-60" w.c. (0-149 mbar) range may be ordered 30-0-30" w.c. (75-0-75 mbar) or (15-0-45" w.c. (37-0-112 mbar). Absolute pressure ranges available from 30" w.c. (75 mbar) to 600 psi (41.4 mbar). Other sizes and types of connections (welding stubs, MA, A.N.D., etc.) available upon request. Outline dimension drawings available upon request. Metric conversions () are approximate. M224C with NACE (MR-01-75) compliant materials available upon request. Model 224 (Non-C) for specific Nuclear/Government applications only. | | | | | | | | | | |