


Pentair butterfly valves pdf

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The powder butterfly valves can be used for powder conveying in the food, dairy, pharmaceutical, and beverage industries. Pentair (Keystone) F250 Stainless Steel Hygienic Butterfly Valve with Butt Weld Connections and a Silicon Seat. A universal valve for isolation and control, in the food, dairy, brewing, pharmaceutical, beverage and chemical industries. NOTE: Pentair (Keystone) F250 Stainless Steel Handles are sold separately Pentair (Keystone) F250 Hygienic Butterfly Valve Technical Data Max. product pressure at 20°C: 10bar (1000kPa) Min. product Full vacuum pressure at 20°C: Full vacuum Recommended operating pressure at 20°C: 6bar (600kPa) Recommended temperature range: -5°C to 95°C For more information, click on the image below. > Home » Pentair Südmö Process Valves » Pentair Südmö Hygienic Butterfly Valves F250/F251 • F250 for inch OD tubing • F251 for metric tubing Pentair Hygienic Butterfly Valves F250/F251 are used in all segments of hygienic applications. Our comprehensive shut-off valve line features both manual and pneumatic drive options, including lockable handles and vertical actuators. General Application A universal valve for isolation and control, in the food, dairy, brewing, pharmaceutical, beverage and chemical industries. The F250 and F251 are designed to be easily automated with any of PENTAIR's actuators and controls. From the F257 Vertical actuator and F783E Electronic control top, to the F79E/U or F79S Actuator. Benefits Maintenance friendly. Site repairable. Quarter turn operation. Full range of optional accessories. Features Quarter turn operation Isolation or regulation control Equal percentage characteristics Bi-directional capability Fully machined 316L stainless steel body Optional end connections One-piece disc and stem assembly High Cv slim profile disc Integral valve position indicator High grade seat material options Combination dual or multi position handle assembly High impact reinforced polymer handle with a stainless steel drive (full stainless steel option available) Integral padlocking as standard on manual valves Maintenance friendly Site repairable Full range of optional accessories Functional description Südmö Hygienic Butterfly Valves can be operated either by a manual handle or remotely controlled by an automated pneumatic actuator. The manual version comes standard with a dual/multiposition handle notch plate, which can be easily reconfigured to suit the specific installation by being positioned in any of the four operating quadrants, and also is supplied standard with a padlock facility. The automated version valve can be supplied in three configurations, Spring to Close (STC), Spring to Open (STO) or Double acting (DA). Max. product pressure at 20°C: 10bar (1000kPa) Min. product pressure at 20°C: Full vacuum Recommended operating pressure at 20°C: 6bar (600kPa) Recommended temperature range: -5°C to 95°C Product Information Parts List No. Description Material Standard 1 Body 316L (or 304L) stainless steel ASTM A276 (or A182) 2 Disc stem 316L stainless steel ASTM A743 CF8M 3 Seat VMQ (white) FDA EPDM (black) FDA NBR (black) FDA HNBR (black) FDA FKM (red) FDA 4 Handle assembly High impact glass reinforced polymer or 304 stainless steel - 5 Handle plug/Screw TPR / 304 stainless steel Commercial 6 Notch plate 304 stainless steel ASTM A743 CF8 7 Body fasteners 304 stainless steel ASTM A276 8 Bearings PVDF Commercial Technical Data Max static temperature VMQ 150°C EPDM 120°C NBR 100°C HNBR 150°C FKM 150°C NOTE: Although the various seat materials available can withstand temperatures above the max. recommended operating temperature for short periods of time, such as for sterilisation and certain applications, the serviceability of these seats at elevated temperatures does vary depending on the media, pressure and other variables. Therefore, this is best determined from experience gained with the application concerned. F250 Inch OD Valve Dimensions (mm) Valve size DN Inch OD ØA1 ØA2 ØB C D E F PCD No. holes Hole dia. Stem conn. Mass (kg) Kv (Fully open) 25 1.0" 22.3 25.4 69 83.5 50 156 26.5 59 4 6 8 x 8 0.7 17 40 1.5" 35.0 38.1 79 88.5 50 156 31.5 69 4 6 8 x 8 0.8 64 50 2.0" 47.7 50.8 94 96.0 50 156 38.0 84 4 6 8 x 8 1.1 131 65 2.5" 60.4 63.5 104 101 50 156 43.0 95 4 6 8 x 8 1.5 220 80 3.0" 73.1 76.2 124 112.0 60 185 50.0 111 4 8 10 x 10 2.0 333 100 4.0" 98.0 101.6 151 125.5 70 185 63.5 139 6 8 12 x 12 3.3 726 125 5.0" 123.0 127.0 198 171.0 71 266 90.4 177 6 10 15 x 15 7.5 1370 150 6.0" 148.4 152.4 223 183.5 80 266 98.5 207 6 10 15 x 15 8.2 2050 F251 Metric Valve Dimensions (mm) Valve size DN Metric ØA1 ØA2 ØB C D E F PCD No. holes Hole dia. Stem conn. Mass (kg) Kv (Fully open) 25 25 26 29 74 86.0 50 156 29.0 63 4 6 8 x 8 0.8 19 32 32 32 35 79 88.5 50 156 31.5 69 4 6 8 x 8 0.7 41 40 40 38 41 87 92.5 50 156 35.5 76 4 6 8 x 8 0.9 69 50 50 54 99 98.5 50 156 40.5 89 4 6 8 x 8 1.4 137 65 65 96 70 123 111.5 50 185 49.5 109 4 8 10 x 10 2.5 263 80 80 91 65 138 119.0 54 185 57.0 124 4 8 10 x 10 3.0 381 100 100 100 104 158 129.0 54 185 67.0 144 6 8 12 x 12 4.5 689 125 125 125 129 198 171.0 74 266 90.4 177 6 10 15 x 15 7.5 1370 150 150 154 223 183.5 80 266 99.5 203 6 10 15 x 15 8.2 2050 NOTE: Dimensions 'D' and 'A2' shown above, are for the butt weld configuration only. For other types of connections, refer to the following end connection data. Dimension 'E' is the maximum clearance length for either handle. Masses shown are for bare shafted butt weld valves only. F250 Inch OD Valves - Available End Connections Dimensions (mm) D2 D3 D4 DN Inch OD ØA1 ØA2 ØA3 ØA4 ØA5 ØG1 ØG2 DIM* M* F* M* F* 25 1.0" 22.3 25.4 23.0 23.0 50.5 IDF 1" RJT 1" 25 40 46 40 50.5 40 37 40 1.5" 35.0 38.1 35.6 35.6 50.5 IDF 1 ½" RJT 1 ½" 25 40 46 40 50.5 40 37 50 2.0" 47.7 50.8 47.7 47.7 64.0 IDF 2" RJT 2" 25 40 46 40 50.5 40 37 65 2.5" 60.4 63.5 59.4 60.4 77.5 IDF 2 ½" RJT 2 ½" 25 50 46 50 50.5 40 37 80 3.0" 73.1 76.2 72.2 73.1 91.0 IDF 3" RJT 3" 30 50 51 46 55.5 40 42 100 4.0" 98.5 101.6 98.5 98.0 119.0 IDF 4" RJT 4" 35 52 64 52 60.5 46 50 125 5.0" 123.0 127.0 - - - RJT 5" 35 - - - 62.5 - 58 150 6.0" 148.4 152.4 - 148.4 167.0 - - - 65.5 55 - NOTE: BSM modified version is available upon request, deduct 4.7 mm from dimension D3. *F Fabricated two piece body (Std.). *M Machined one piece body (on request). ** BPE is provided as Std. 1" thru 4" other sizes subject to enquiry. Other Speciality Hygienic Butterfly Valve Options F250-1 Wafer Butterfly Valve. For easy insertion and removal from inline service F250-1P Ski-Jump Powder Butterfly Valve. For use with abrasive powder or granular products. F250T-1T Multi-Way Butterfly Valve For diversion or convergence of fluids Dimensions (mm) D1 D2 D3 D4 DN Metric ØA1 ØA2 ØA3 Rd ØG M* F* M* F* 25 25 26 29 50.5 Rd 52 x ¾" G 1" 25 37 53.5 34 34 46.0 32 32 35 50.5 Rd 58 x ¾" G 1 ½" 25 37 56.5 34 34 46.0 40 40 38 41 50.5 Rd 65 x ¾" G 2" 25 37 59.5 34 34 46.0 65 65 66 70 91.0 Rd 95 x ¾" G 2 ½" 25 41 64.5 37 37 52.5 80 80 81 85 106.0 Rd 110 x ¾" G 3" 27 45 66.5 41 41 54.5 100 100 100 104 119.0 Rd 130 x ¾" G 4" 27 45 80.5 41 41 54.5 125 125 125 129 155.0 Rd 160 x ¾" - 37 58 82.5 50 50 64.5 150 150 154 183.0 Rd 190 x ¾" - 40 66 89.5 55 55 64.5 NOTE: M* = Machined 1 piece body (Standard). F* = Fabricated 2 piece body (May apply for Imperialised DIN thread or other special cases) Other Speciality Hygienic Butterfly Valve Options F250D-1D Double Block and Bleed Butterfly Valve For safe separation of incompatible fluids. F250/1 Handle Extensions For extension of valve stem, where extra handle clearance is needed for insulated pipes etc. F250/1 Proximity Kits For feedback indication on manual valves. F250 Pressure Drop / Flow Rates Graph NOTE: This chart is based on a F250 valve fully open, using water at 20°C. F251 Pressure Drop / Flow Rates Graph NOTE: This chart is based on a F251 valve fully open, using water at 20°C. Selection Guide MINNEAPOLIS, MN We manufacture flow control products for oil, chemical, food, nuclear & other industries. Pentair offers a wide variety of products from pool and spa equipment, water filters, water pumps and spray nozzles. See how we can help you in your home or business, for life. Product types include ball valves, butterfly valves, control valves, check valves, knife gate valves, pressure & safety relief valves. JavaScript seems to be disabled in your browser. For the best experience on our site, be sure to turn on Javascript in your browser. Hygienic butterfly valves are cost effective (in comparison to other valve designs e.g. single seat valves), they are lighter in weight and often need less support due to the simple design. Pentair Südmö's hygienic butterfly valves can be used for isolating or regulating flow in hygienic processes. The closing mechanism has the form of a disk, the operation allows an easy shut off. Pentair Südmö offers a variety of options that allow monitoring and control of the shut-off valves through the control system, including our state-of-the-art IntelliTop 2.0 control unit.

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