

ASAHI/AMERICA

Ball Check Valves

SAMPLE SPECIFICATION

All ball check valves shall be of solid thermoplastic construction, and shall be designed with an elastomeric urethane seal for tight shut off under pressure. Sizes 1" through 2" shall be of Tri-clamp design, while 3" & 4" shall be single union design. The same seal shall function as both the ball seal and the union seal. PVC shall conform to ASTM D 1784 Cell Classification DN55-A, CPVC shall conform to ASTM D 1784 Cell Classification DN67-A, PP shall conform to ASTM D 1505 Cell Classification PP02 1081270 and PVDF shall conform to ASTM D 1502 Cell Classification Type B. Ball Check valves sizes 1" - 2" shall be rated 150 psi at 75 degrees F, 3" and 4" rated 100 psi at 75 degrees F, as manufactured by Asahi America, Inc.

ASAHI/AMERICA

Duo-Block 31 Ball Valves

SAMPLE SPECIFICATION

All True Union DUO-BLOC 31 Ball Valves, sizes 1/2" to 2", shall be of true union design with ferrule or bleeding capability. All O-rings shall be EPDM or FKM with Teflon® seats. Teflon® Seats shall have stem/ends facing surface of the same material as the valve seats. Stem shall have double O-rings and be of bleed-off proof design. The valve handle shall double as center removal and/or tightening tool. An ISO mounting pad shall be integrally molded to valve body for isolation. PVC conforming to ASTM D1784 Cell Classification 12455-A, CPVC conforming to ASTM D1784 Cell Classification 22807-A, PP Conforming to ASTM D1571 Cell Classification PP02138572 Q and PVDF conforming to ASTM D2032 Cell Classification Type II. The ball valves, except PP, shall have a pressure rating of 230 psi for sizes 1/2" to 2" and 150 psi for 1" (150 psi for PP, all sizes) at 75 degrees F. Duo-Block 31 Ball Valves must carry a ten-year guarantee, as manufactured by Asahi America Inc.

ASAHI/AMERICA

Type C Gate Valve

SAMPLE SPECIFICATION

All Gate Valves shall be constructed of High Impact PVC and have no metal-to-metal contact. The gate shall be a tapered cylindrical plug design (PP or BPP). PVC shall Conform to ASTM D1784 Cell Classification 1200-A, & PP to ASTM D4021 Cell Classification PP010B0703. Valves shall have a pressure rating of 150 psi at 70 degrees F sizes 1-12" thru 18", 150 psi at 70 degrees F size 12" and 75 psi at 70 degrees F sizes 12" and 18". The valve shall have a non rising stem, come standard with sealed position indicator, stem end plug (PP gate style only) and EPDM or PDM seals as manufactured by Asahi-America Inc.

ASAHI/AMERICA

Circle Valves

SAMPLE SPECIFICATION

All Circle Valves shall be of Thermoplastic construction, and have no metal part that comes in contact with media. Sizes 1/2" through 2" shall be of union bonnet design, 2 1/2" through 4" shall be of outside Stem and Yoke type. PVC shall conform to ASTM D1784 Cell Classification 12455-A and PP conforming to ASTM D4031 Cell Classification PP021285723. PVC valves shall be rated to 150 psi at 75 degrees F sizes 1/2" thru 2" 110 psi at 75 degrees F sizes 2 1/2" thru 4". PP rated to 110 psi at 75 degrees F sizes 1/2" thru 4", as manufactured by Asahi America, Inc.

ASAHI/AMERICA

Labcock Ball Valves

SAMPLE SPECIFICATION

LABCOCK® valves shall be of compact unitary construction having a lever handle, calibrated flow indicator and male threads, female threads, face ends or other as part of the valves' integral construction. Valves shall be constructed of PUC conforming to ASTM D1784-Cell Classification 1204-8. All O-rings shall be EPDM or PTFE. LABCOCK® valves are rated for 100 psi at 70 Degrees F., as manufactured by Asahi/America, Inc.

ASAHI/AMERICA

Type 22 Multiport Ball Valves

SAMPLE SPECIFICATION

All Type 22 MULTIPORT valves shall be of molded thermoplastic construction with union ends on all three ports. All O-rings shall be EPDM or PDM with Teflon® seals. The valve handle shall double as carrier removing/lightening tool. Centers must thread into the body in order to provide blocking capabilities in OFF position. An ISO mounting pad shall be integrally molded to the valve body for isolation. PVC conforming to ASTM D1784 Cell Classification 12450-A, CPVC conforming to ASTM D1784 Cell Classification 22857-A, PP conforming to ASTM D2031 Cell Classification 19001085720 and PVDF conforming to ASTM D2002 Cell Classification Type I. The valves shall be rated to 150 psi at 70 degrees F. as manufactured by Asahi-America, Inc.

ASAHI/AMERICA

Diaphragm Ball Valves

SAMPLE SPECIFICATION

All Diaphragm ball valves, size 2 1/2" - 3" shall be of one-piece compact design non union type. All O-rings shall be EPDM or FKM with Teflon® seats. Seats must have elastomers having hardness of the same material as the valve seats. PVC conforming to ASTM D 1784 Cell Classification 1285-A, and CPVC conforming to ASTM D 1784 Cell Classification 23857-A. Valve shall be rated 150 psi at 75 degrees F, as manufactured by Asahi America, Inc.

ASAHI/AMERICA

Sediment Strainer

SAMPLE SPECIFICATION

All True-Union Sediment Strainers, Sizes 1/2" - 6", shall be of four-section design and shall be constructed of transparent PVC. All O-rings shall be EPDM or FKM. Screens shall be 20, 30 and 60 mesh PVC or 20, 60 and 80 mesh-316 SS. Filter maintenance is achieved without removing strainer from the pipeline. PVC shall conform to ASTM D1784 Cell Classification 1248 A. Valves shall be rated to 150 psi sizes 1/2" thru 2" and 80 psi sizes 3" and 6" at 75 degrees F, as manufactured by Suco America, Inc.

ASAHI/AMERICA

Swing Check Valves (Dring Barrel Seat)

SAMPLE SPECIFICATION

All Swing Check valves shall be of solid thermoplastic construction, having no metal ball comes in contact with media. Valves shall incorporate a single-disc design suitable for either horizontal or vertical installations. Valves shall be of top entry barrel design for maintenance purposes. PVC shall conform to ASTM D1784 Cell Classification 12454-A, PP conforming to ASTM D3351 Cell Classification PP02 1084702 and PVDF conforming to ASTM D3303 Cell Classification Type B. Valves shall be rated to 150 psi sizes 1/2" thru 3", 100 psi sizes 4" thru 6", 75 psi size 8" for PVC or PP with EPDM or PDM seals, 80 psi sizes 1/2" thru 3-1/2", 75 psi sizes 3" & 4", 60 psi size 6" and 45 psi sizes 8" & 8" for PVC with Teflon® seals, 80 psi sizes 1/2" thru 2-1/2", 75 psi sizes 3" & 4", 60 psi size 6" and 45 psi sizes 8" & 8" for PP or PVDF with Teflon® seals all at 75 degrees F, as manufactured by Asahi America, Inc.

ASAHI/AMERICA

Dual-Bias Ball Valves

SAMPLE SPECIFICATION

All True Union DUO-BLOC Ball Valves, sizes 1/2" to 2", shall be of True Union design with leeway blocking capability. All O-rings shall be EPDM or FKM with Teflon II seats. Teflon II Seats shall have standards backing cushion of the same material as the valve seats. PVC shall conform to ASTM D1784 - Cell Classification 1245-A, CPVC shall conform to ASTM D1784 - Cell Classification 2057-A. All True Union DUO-BLOC Ball Valves shall have a pressure rating up to 150 psi. at 75 degrees F. True Union Dual-Bias Ball Valves must carry a five year guarantee, as manufactured by AsahiAmerica Inc.

ASAHI/AMERICA

Type III Butterfly Valve

SAMPLE SPECIFICATION

All solid thermoplastic butterfly valves sizes 1-1/2" thru 10" shall be of the lined body design and double-flight seat (meeting or exceeding Class VI as defined by American National Standard Institute) with only the liner and disc as welded parts. The liner handle (sizes 1-1/2" thru 8") shall have a molded provision for a padlock. Gear operators shall be worm gear design, self-lubricating with anodized aluminum body and corrosion resistant powdercoat finish. The disc shall be of solid, abrasion resistant plastic, have double O-ring seals on top and bottom surfaces of the same material as the valve liner. Liner shall be molded and formed around the body, functioning as gasket seats with convex ring design on each side of the valve for lower ball-lightening torque. Stem shall be of 316SS stainless steel, non-welded and have engagement over the full length of the disc. Valves shall have a molded 90° ball pattern on top flange for actuator mount. PVC shall conform to ASTM D1784 Cell Classification 12682A, PP conforming to ASTM D4101 Cell Classification PFC0108K172, and PVDF conforming to ASTM D 3330 Cell Classification Type-B. All PVC, PP and PVDF body valves shall be rated to 150 psi sizes 1-1/2" thru 10", 100 psi sizes 12" & 14" and 80 psi size 16" at 73 degrees F. Butterfly valves shall be water tight, as manufactured by Asahi/America.

ASAHI/AMERICA

Type TB Butterfly Valve

SAMPLE SPECIFICATION

All cast thermoplastic butterfly valves (18" thru 24") shall be of the steel body design and include light seal (meeting or exceeding Class VI as defined by American National Standard Institute) with only the trim and disc as-welded parts. The disc shall be of mild, aluminum resistant plastic, have double O ring seals on top and bottom surfaces of the same material as the valve trim. Liner shall be milled and formed around the body, functioning as a gasket seals with circumferential design on each side of the valve to insure full tightening torque. Stem shall be of 304 stainless steel, non-welded and have engagement over the full length of the disc. PP shall conform to ASTM D4101 Cell Classification FP1210867312 and PVDF conforming to ASTM D4101 Cell Classification Type II. PP and PVDF bodies shall be rated to 70 psi size 18", and 80 psi sizes 20" & 24", at 70 degrees F. Butterfly valves shall be water style, as manufactured by Asahi/America.

ASAHI/AMERICA

Type 14 Flanged Diaphragm Valve (1/2" thru 6")

SAMPLE SPECIFICATION

All TYPE 14 flanged diaphragm valves shall be of cast thermoplastic construction for body and bonnet with milled flanged ends. The valves shall come standard with a position indicator, travel stop (to prevent over-tightening) and bonnet wing sealing arrangement. The valve shall be seat type with a square bonnet/body sealing design and tapered connection diaphragm (1/2" - 2") or round bonnet/body sealing design and flanged stud diaphragm connection (2 1/2" - 6"). All Teflon® diaphragms shall accept the installation of a PVDF gas barrier between the layers of EPDM and Teflon® for aggressive chemical service. The face-to-face dimensions shall conform to TYPE G. PVC conforming to ASTM D1784 Cell Classification 1385-A, CPVC conforming to ASTM D1784 Cell Classification 2087-A, PP conforming to ASTM D4101 Cell Classification PP01 1081C73, PPO (Bonnet Only) conforming to ASTM D4101 Cell Classification PPO1 10M00821 100, and PVDF conforming to ASTM D3033 Cell Classification Type B. PVC, CPVC, PP and PVDF shall be rated to 150 psi for elastomers and Teflon® diaphragms at 70 degrees F., as manufactured by AsahiAmerica, Inc.

ASAHI/AMERICA

Type 14 Fire Union Diaphragm Valve (10" thru 24")

SAMPLE SPECIFICATION

All TYPE 14 Fire Union Diaphragm valves shall be of cast thermoplastic construction for body and bonnet with socket, threaded or ball end connections.

The valves shall conform with a position indicator, hand stop and bonnet spring sealing arrangement. The valve shall be non-type with a square bonnet body sealing design and bypass connection diaphragm. All Teflon® diaphragms shall accept the installation of a PVDF gasket between the layers of EPDM and Teflon® for aggressive chemical service. PVC conforming to ASTM D1784 Cell Classification 1248-A, CPVC conforming to ASTM D1784 Cell Classification 2087-A, PP conforming to ASTM D1505 Cell Classification PP0108CQ72, PPO (Bonnet Only) conforming to ASTM D4101 Cell Classification PP01 10A00A01 100, and PVDF conforming to ASTM D2002 Cell Classification Type-S. PVC, CPVC, PP and PVDF shall be rated to 150 psi for elastomers and Teflon® diaphragms at 75 degrees F., as manufactured by Asahi-America, Inc.

ASAHI/AMERICA

Type B Flanged Diaphragm Valve (B' and B')

SAMPLE SPECIFICATION

All TYPE B flanged diaphragm valves shall be of cast thermoplastic construction for body and bonnet with milled flanged ends. The valves shall come standard with a position indicator, hand stop (to prevent over-tightening) and bonnet wing sealing arrangement. The valve shall be seat type with a round bonnet body sealing design and threaded stud diaphragm connection. All Teflon® diaphragms shall accept the installation of a PVDF gas barrier between the layers of EPDM and Teflon® for aggressive chemical service. The face to face dimensions shall conform to TYPE G. PVC conforming to ASTM D1784 Cell Classification 124M-A, PP conforming to ASTM D6100 Cell Classification: PP0210M/02T2, PPO (Borell® Orlon®) conforming to ASTM D4101 Cell Classification: PPO1 50M/021 100, and PVDF conforming to ASTM D2003 Cell Classification: Type B. PVC, PP, and PP shall be rated to 110 psi for elastomeric diaphragms at 70 degrees F. PVC, PP and PVDF shall be rated to 100 psi (B') and 70 psi (B') for Teflon® diaphragms at 70 degrees F., as manufactured by Asahi-America, Inc.

ASAHI/AMERICA

Type 'C' Flanged Diaphragm Valve (8" and 10")

SAMPLE SPECIFICATION

All TYPE 'C' flanged diaphragm valves shall be of solid thermoplastic construction for body and bonnet with molded flanged ends. The valves shall come standard with a position indicator, hand stop (to prevent over-tightening) and bonnet a ring seating arrangement. The valve shall be seat type with a round bonnet body seating design and threaded stud diaphragm connection. All Teflon® diaphragms shall accept the installation of a PVDF gas barrier between the layers of EPDM and Teflon® for aggressive chemical service. The face to face dimensions shall conform to TYPE 'C' PVC conforming to ASTM D1784 Cell Classification 1248-A, PP conforming to ASTM D4101 Cell Classification PP021086Q12, PPO (Borel® Only) conforming to ASTM D4101 Cell Classification PP011040K1100, and PVDF conforming to ASTM D3003 Cell Classification Type B. PVC, and PP shall be rated to TS psi size 8" and 10" psi size 10" for elastomeric diaphragms at 75 degrees F. PVC, PP and PVDF shall be rated to 80 psi for Teflon® diaphragms at 75 degrees F., as manufactured by AsahiAmerica, Inc.

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Type II Pneumatic Diaphragm Valves

SAMPLE SPECIFICATION

All TYPE II actuated diaphragm valves shall be of solid thermoplastic construction for body (Bolted Flanged or Tie Union socket), Bonnet or full end connections) and bonnet with the actuator housing of glass filled polypropylene. The actuator shall come standard with an "at a glance" position indicator and pad mount according to MSSSP for submount mounting. Air supply shall be 80 - 90 psi. The valve body shall have a panel mount feature for support. Actuator to body mount shall be of square design. Diaphragm shall be lapover type connection. Face to face dimensions of lapover version shall conform to Type II. PVC conforming to ASTM D1784 Cell Classification 12034-A, CPVC conforming to ASTM D1784 Cell Classification 12037-A, PP conforming to ASTM D4101 Cell Classification PP01 10847373, PPO (Borel Only) conforming to ASTM D4101 Cell Classification PP01 10M0421 100, and PVDF conforming to ASTM D2003 Cell Classification Type II. PVC, CPVC, PP and PVDF shall be rated to 150 psi for elastomers and Teflon® diaphragms at 70 degrees F., as manufactured by AsahiAmerica, Inc.

ASAHI/AMERICA

All Casters

SAMPLE SPECIFICATION

All NY Casters shall be of low torque, full size to ASSEMBLY dimensions and shall have low coefficient, smooth, milled rings between center hole and ball hole made in EPDM, Teflon-bonded EPDM or PVDF-bonded EPDM, as manufactured by Asahi/America, Inc.

ASAHI/AMERICA

Type III Butterfly Valve SAMPLE SPECIFICATION

All Type III butterfly valves shall be of epoxy powder coated ductile cast iron body design and inside light seal (welding or extruding Class VI as defined by American National Standard Institute) with only the liner and disc as wetted parts. The liner handle (sizes 2" thru 6") shall have a molded provision for a padlock. Gear operation shall be Mastogear with corrosion resistant pinion(s) teeth. Valves shall have a molded ISO ball pattern conforming to ISO 5211 and ISO 5212 on top flange for actuator mount. The disc shall be of Teflon®. Liner shall be of Teflon® with Neoprene® backing cushion. Stem shall be of stainless steel, not wetted and have engagement over the full length of the disc. The butterfly valves shall be water style. Valves shall be rated to 150 psih from -8 degrees F. to +200 degrees F., as manufactured by Asahi/America.

ASAHI/AMERICA

Description 21 Ball Valves for use with Sodium Hypochlorite

SAMPLE SPECIFICATION

All True Union DWD-BLOC 21 Ball Valves for use with Sodium Hypochlorite up to 20% concentration, sizes 1/2" to 2", shall be either PVC or CPVC and of true union design with leeway blocking capability. All O-rings shall be FKM with Teflon® seats. Teflon® Seats shall have elastomeric backing sections of the same material as the valve seats. Stem shall have double o-rings and be of blowout proof design. The addition of a 1/8" vent hole drilled and deburred by the manufacturer is required. The valve shall be installed with the vent hole on the upstream side of the system to keep the cavity of the ball ballbed. The valve handle shall double as carrier removal and/or lightning rod. ISO mounting post shall be integrally molded to valve body for actuation. PVC shall conform to ASTM D1784 Cell Classification 12450A and CPVC shall conform to ASTM D1784 Cell Classification 12887 A. The ball valves, shall have a pressure rating of 200 psi for sizes 1/2" to 2" and 150 psi for 2" at 75 degrees F. Description 21 Ball Valves, must carry a five-year warranty, as manufactured by Asahi/America, Inc.

ASAHI/AMERICA

Type 14 Flanged Diaphragm Valve (1/2" thru 6") For Use With Sodium Hypochlorite

SAMPLE SPECIFICATION

All TYPE 14 flanged diaphragm valves for use with Sodium Hypochlorite up to 20% concentration shall be of cast thermoplastic construction (PVC or CPVC) for body and bonnet with mottled flanged ends. The mottled flanged ends prevent the "backing-up" of cemented joints common in this type of service. The valves shall come standard with a position indicator, hand stop (to prevent over-tightening) and bonnet wing sealing arrangement. The valve shall be cast type with a square bonnet body sealing design and layered connection diaphragm (1/2" - 2") or round bonnet body sealing design and threaded stud diaphragm connection (2 1/2" - 6"). All Teflon® diaphragms shall accept the installation of a PVDF gas barrier between the layers of EPDM and Teflon®. The PVDF gas barrier prevents against the migration of gas flow for Teflon® membrane and attacking the EPDM backing surface. All hardware shall be 304SS type and non-wetted. The face-to-face dimensions shall conform to TYPE 3. PVC conforming to ASTM D1784 Cell Classification 1248-A, CPVC conforming to ASTM D1784 Cell Classification 2087-A and PVDF conforming to ASTM D3222 Cell Classification Type II. Valves shall be rated to 150 psi sizes 1/2" thru 6" for Teflon® diaphragms at 75 degrees F., as manufactured by Asahi-America, Inc.

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Ball Float Valves

SAMPLE SPECIFICATION

All Ball Float valves shall be of solid thermoplastic construction, have an external PVC screen and shall be designed with an elastomeric unrotated seal for liquid shall withstand pressure. Sizes 1" through 2" shall be of the union design, while 3" & 4" shall be single union design. The same seal shall function as both the ball seal and the union seal. PVC shall conform to ASTM D 1784 Cell Classification 12450-A. Ball Float valves sizes 1" - 2" shall be rated 150 psi at 70 degrees F, 3" and 4" rated 100 psi at 70 degrees F, as manufactured by Asahi/America Inc.

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FRP "Class" Butterfly Valve SAMPLE SPECIFICATION

All FRP (Fiber Glass Reinforced Polyester) butterfly valves sizes 24" thru 60" shall be of the lined body design and outside tight seal (meeting or exceeding Class VI as defined by American National Standard Institute) with only the liner and disc as sealed parts. Gear operators shall be worm gear design, self-lubricating with seal free body and corrosion resistant powdercoat finish. The disc shall be of solid, abrasion resistant FRP, have double cutting teeth on top and bottom, trunions of the same material as the valve liner. Liner shall be mottled and formed around the body, functioning as gasket seats with convex top design on each side of the valve for lower bolt tightening torque. Stem shall be of 304 stainless steel, non-sealed and have engagement over the full length of the disc. All valves shall be rated to a maximum of 100 psia at 70 degrees F. Butterfly valves shall be roller shaft, as manufactured by Asahi America.

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Eight Glass Gauge Valve SAMPLE SPECIFICATION

All Eight Glass Gauge Valves shall be of thermoplastic construction (PVC or PP) and have no metal to media contact. (PVC shall conform to ASTM D1784 cell classification 1438-A and PP shall conform to ASTM D2001 Cell Classification PP210B/C/D). Valves shall be of compact design and shall eliminate the need for multiple valves and fittings. Valves shall incorporate a double O-ring union and design to allow easy maintenance of the glass, and a drain plug to permit sampling of fluid. All valves shall be rated to a maximum of 20 psi at 70 degrees F. as manufactured by AsahiAmerica, Inc.

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Type 88 "Cover" Butterfly Valve SAMPLE SPECIFICATION

All Type 88 Butterfly Valves shall be of thermoplastic construction (PVC) and have no metal to metal contact. PVC shall conform to ASTM D1784 cell classification 1045-A. Valve stem shall have full engagement threads and be a non-welded part. Seats shall be EPDM and operation shall be by Lever. All valves shall be rated for full-stroke service. All valves shall be rated to a maximum of 150 psi at 70 degrees F, as manufactured by Asahi/America, Inc.

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Damper Style Butterfly Valve

SAMPLE SPECIFICATION

All Damper Style butterfly valves shall be of PVDF body and disc or PVC Body and PP disc both with low leakage rate. The stem shall be of Titanium and V-sealing of PTFE. PVDF shall conform to ASTM D3322 Cell Classification Type 3, PVC conforming to ASTM D1781 cell classification C350-A, and PP conforming to ASTM D4101 cell classification PP021086.702. The operators shall be Gear (1-1/2" thru 8") or gear (8" thru 36"). The butterfly valves shall be water style. Valves shall be rated to 150 psi (1-1/2" - 3"), 75 psi (3" - 8"), 60 psi (8", 48 psi (12" - 18"), and 30 psi (18" - 36") at 75 degrees F., as manufactured by Asahi/America.

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Pressure Relief Valves SAMPLE SPECIFICATION

All Pressure Relief Valves shall be of Thermoplastic construction (PVC or PP) and have no metal part that comes in contact with media. PVC shall conform to ASTM D1784 Cell Classification 10000 A and PP conforming to ASTM D4101 Cell Classification PP010007021. (PVC valves shall be rated to 150 psi sizes 1/2" thru 2" and 70 psi sizes 2 1/2" thru 6", PP rated to 70 psi sizes 1/2" thru 6" at 75 degrees F, as manufactured by AsahiAmerica, Inc)

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Slide Control Valves

SAMPLE SPECIFICATION

All Thermoplastics modulating control valves shall be of the Slide Valve design with interchangeable seats and plugs for various CV's. Flow characteristics shall be either Linear or Equal Percentage. Stem seal shall be Teflon bellows design. PVC conforming to ASTM D1784 Cell Classification 1288-A, PP conforming to ASTM D4101 Cell Classification FPO2108/2172, and PPOF conforming to ASTM D3200 Cell Classification Type II, as manufactured by Asahi America, Inc.

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Constant Flow Valves

SAMPLE SPECIFICATION

All constant flow valves shall be of solid thermoplastic forged construction, and all wetted parts shall be of non-metallic materials. Sizes 1/2" and 3/4" shall be of in-line design, while 1" - 2" shall be a T type design. PVC shall conform to ASTM D1784 Cell Classification 12888 A, CPVC shall conform to ASTM D1784 Cell Classification 12887 A. Spring construction shall be 302 ss with STPE coating. All constant flow valves shall have a calibrated flow dial and position indicator. Valve accuracy shall be $\pm 1\%$ of full scale. Constant flow valves sizes 1/2" - 2" shall have a maximum upstream pressure range of 150 psi at 120 degrees F, and Size 4" 70 psi, at 120 degrees F, as manufactured by Asahi/America Inc.

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Type 72 Diaphragm Valve (Milled Body)

SAMPLE SPECIFICATION

All Type 72 Sargent diaphragm valves shall be of cast thermoplastic construction for body and barrel with socket, threaded, or butt end connections. The valves shall conform to standard with a positive indicator, barrel stop (to prevent over-tightening) and barrel wing sealing arrangement. The valve shall be seat type with a round or square barrel body sealing design and threaded shut diaphragm connection. All Teflon® diaphragms shall accept the installation of a PTFE gas barrier between the layers of EPDM and Teflon® for aggressive chemical service. PVC conforming to ASTM D1784 cell classification 12684-A, CPVC conforming to ASTM D1784 Cell classification 12687-A, PP conforming to ASTM D6101 Cell Classification PFC11060001100, and PVDF conforming to ASTM D3033 Cell Classification Type-B. PVC, CPVC, and PVDF valves shall be rated to 150 psi for stainless diaphragms at 70 degrees F., PVC, CPVC, and PTFE shall be rated to 150 psi sizes 1" - 1-1/2" and 100 psi size 2" for Teflon® diaphragms at 70 degrees F., as manufactured by Asahi America, Inc.

ASAHI/AMERICA

Series 82 for T-14 Diaphragm Valves

SAMPLE SPECIFICATION

All Series 82 Electric actuators for use with Type T4 diaphragm valves shall be 120 volt reversing-type capacitor run motor design, thermally protected with a permanently lubricated gear train. Enclosure shall meet Nema 3X, T & B.

Actuator to have heat treated cold metal gearing in a stressed aluminum housing and shall be Red powder coated with 33 film for corrosion resistance. All

actuators to have breakaway position indicator, manual override & 1/2" ball pattern for valve mounting. Manual override is used for deactivating motor for manual operation. 2 limit switches shall be supplied as a standard for setting open &

close limits which shall be used in series with a single 2 layer Multi-Lam switch. Actuators to have two "C" NPT conduit entry for control wires and modulating units. Actuators shall be Series 82 "C82" as manufactured by Asahi America Inc.

ASAHI/AMERICA

Series 92 Electric Actuator

SAMPLE SPECIFICATION

All Series 92 Electric actuators shall be reversing type capacitor motor design (120 & 200 VAC), thermally protected with a permanently lubricated gear train.

Enclosure shall meet Nema 4X, 7 & 9. Actuator to have heat treated solid metal gearing in a die cast aluminum housing and shall be Flak powder coated with 85

Iron for corrosion resistance. All actuators to have location position indicator, manual override & ISO ball pattern for valve mounting. Manual override to used

for deactuating mode for manual operation. 2 limit switches shall be supplied as

a standard for setting open & close limits. Actuators to have 1/2" NPT conduit entry for on/off units and monitoring units. Actuators shall be Series 92 "Chief" as manufactured by Asahi/America Inc.

ASAHI/AMERICA

Series 96 Electric Actuator

SAMPLE SPECIFICATION

All Series 96 Electric actuators shall be reversing type planetary helical motor design (120 & 208 VAC), thermally protected with a permanently lubricated gear train.

Actuator to have heat treated cast metal gearing well contained in motor assembly with Series 96 enclosure constructed of 3/16" FRSC engineered resin.

All actuators to have position indicator, manual override & I/O ball pattern for valve mounting. Manual override is used for dislodging motor for manual operation. 2 limit switches shall be supplied as a standard for setting open & close limits. Actuators to have 1/2" NPT conduit entry for on/off wires and monitoring wires. Actuators shall be Series 96 "QuarterMaster" as manufactured by Asahi/America Inc.

ASAHI/AMERICA

Series 82 Electric Actuator

SAMPLE SPECIFICATION

All Series 82 Electric actuators shall be unidirectional motor design (100% 120 VAC), with a permanently lubricated gear train. Actuator shall feature a single cam/coupling for actuating limit switch and connecting to valve stem. Enclosure shall meet Nema 4X. Actuator to have heat treated stainless steel gearing and contained in motor assembly. Actuator to have a single "D" corded wire point for customer wiring. Actuators shall be Series 82 "Electromot" as manufactured by Asahi America Inc.

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Series 79P Pneumatic Actuator

SAMPLE SPECIFICATION

All Series 79P Pneumatic actuators shall be double piston, double rock and single piston design with body materials of Aluminum (Cathodically treated & Pkhan coated), 316 SS, or Glass Filled Polyamide. Shell to be 300 SS with double O-ring sealing & machined flats for manual override. Actuators to have 1/2" NPT air entry ports and travel position indicator. Spring return models shall have concentric spring sets. All actuators to have ISO ball pattern outdoor for valve mounting and Ramor Top and foot patterns for accessory & external mounting. Actuators shall be Series 79P as manufactured by Asahi America Inc.