

Dymatrix™

The Dymatrix™ product line offers unique flow control solutions that are ideally suited for CMP slurry, DI water, and chemical process applications.

AVSDV / AVSDV-M / AVSDV-T



Sizes: 1/8" - 1"
Body Materials: PFA, PTFE
Diaphragm: PTFE
Connections: Flare, S-300, NPT, other
Operation: Manual multiturn, pneumatic (NC, NO, A-A), toggle (90°, 180°, momentary)
Options: Bypass, travel stop, indicator

DIAPHRAGM VALVES

The AVSDV family is workhorse solution for applications calling for a compact, high life cycle, ultra pure diaphragm valve. They are offered with a wide range of actuation types, sizes and connections.



AVMPV



Sizes: 1/8" - 1"
Body Materials: PTFE, PVDF
Diaphragm: PTFE
Connections: Flare, S-300, NPT, sanitary, other
Operation: Manual multiturn, pneumatic (N/C, N/O, Mix)
Options: Travel stop, indicator

MULTIPOINT MANIFOLD VALVE

The MPV is a custom configured manifold that eliminates tubing, fittings and dead space, and is ideal for high purity applications, especially where space is limited. The zero deadleg and fully flushable diaphragm design meets the most stringent purity requirements.



AVNVM



Sizes: 1/4" - 1/2"
Body Materials: PFA, PTFE
Diaphragm: PTFE
Connections: Flare, S-300, RC, other
Operation: Manual multiturn (push-lock)

NEEDLE VALVE

The AVNVM provides ultra-precise flow control for critical high purity and chemical applications in the semiconductor and life science industries. The design features a parabolic shape that provides a linear flow rate across the full range of operation.



AVPV3 / AVPVM / AVPVSL



Sizes: 1/4" - 1"
Body Materials: PVDF
Diaphragm: Silicone-based rubber
Connections: Flare, S-300, NPT, other
Operation: Manual multiturn, pneumatic (NC)

PINCH VALVES

Dymatrix™ pinch valve allow system owners to reduce stress on CMP slurries, preventing agglomerations and impacts to particle size distributions. The unique design provides an excellent sealing performance and full tube shape restoration.



AVHPR / AVHPRL-M / AVHPRS / AVBPR

PRESSURE REGULATORS



Sizes: 1/4" - 1"
Body Materials: PFA, PTFE
Diaphragm: PTFE
Connections: Flare, S-300, NPT, other
Operation: Manual (optional push-lock), pneumatic (NC, NO, A-A)

Pressure regulators smooth out variations in upstream pressure to meet the desired, downstream value. Back pressure regulators maintain adequate upstream pressure as upstream pressure reduces from branch line cycling.



AVSAS



Sizes: 1/8" - 1/4"
Body Materials: PTFE
Diaphragm: PTFE
O-Ring (Non-wetted): FKM, EPDM, Viton F, Kalrez®
Connections: Flare, S-300, NPT
Operation: Pneumatic (NC)

SUCK BACK VALVE

The suck back valve allows for precise dosing by using suction to prevent dripping from outlets. It uses a single actuator for shut off and suck back for the most compact solution.



AVDIV



Sizes: 1/4" - 1/2"
Body Materials: PTFE
Diaphragm: PTFE, PCTFE
O-Ring (Non-wetted): FKM, EPDM, Viton F, Kalrez®
Connections: Flare, S-300
Operation: Pneumatic

DIVERTING VALVE

The true diverting valve was developed for three-way distribution with a high purity poppet-style diaphragm valve. The small footprint makes the DIV ideal for OEM use.



AVCFV



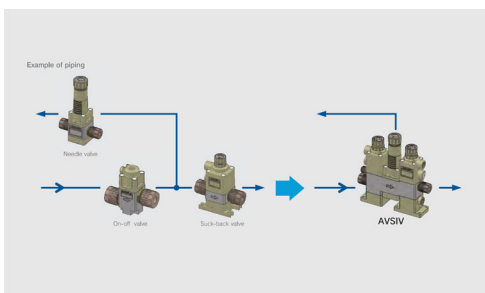
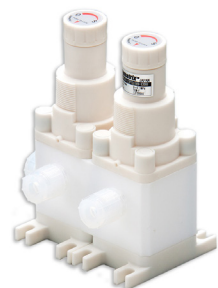
Sizes: 1/4"
Body Materials: PTFE
Diaphragm: PTFE
Connections: FKM, EPDM, Viton F, Kalrez®
Connections: Flare, S-300
Operation: Pneumatic

CONSTANT FLOW VALVE

The CFV controls flowrate independently from media pressure. The simple system design eliminates concerns about pressure fluctuations due to pipe length and back pressure.



AVSIV



SPECIALTY INTEGRATED VALVES

Specialty integrated valves allow for valve combinations that can be customized to meet the needs of any application. To see how an SIV can fit your application, contact Asahi/America engineering with your detailed specifications.