Mega-Mini HA

Compact, High-Pressure, Pneumatically-Actuated Valves

Color Text Marking

Color text printing on the actuator allows for quick differentiation between normally-open (blue) or normally-closed (red) valves.

End-Connections

Available in tube-stub, UJR (VCR® compatible), and UPG end-configurations. This allows for flexible designs in new gas lines as well as installation in existing lines without costly modifications.

Ultra-Smooth Internal Finish

All internal surfaces undergo a UP Treatment as standard, resulting in a surface finish of 2 Ra average, 5 Ra maximum.

Minimal Internal Volume

0.92 cc total internal volume for the male UJR version ensures excellent gas displacement characteristics. This is 3 times less than the internal volume of competitive valves!



Space-Saving Actuator

Our unique actuator design is a compact 1.46" (37 mm) width, and offers superior performance in a highly compact size.

Alloy Diaphragm

Nickel-cobalt alloy diaphragm minimizes particle generation, and provides a durable shut-off surface against the seat.

PCTFE Seat

PCTFE is standard with polyimide as optional. The seat is fixed to ensure robust shut-off performance and minimize particle generation.

Stringent Leakage Standards

Seat and external leakage successfully test at 5x10⁻¹¹ acc/ sec — which is two orders of magnitude tighter than industry standards.

General Specifications

Available Sizes 1/4"

Surface Finish 2 Ra average, 5 Ra maximum

Tested Durability Over 400,000 cycles

Operating Specifications

Max Operating Pressure 2,973 psi (20.5 MPa)

Min Operating Pressure Vacuum

Temperature Range $14 \, ^{\circ}\text{F} \sim 104 \, ^{\circ}\text{F} (-10 \, ^{\circ}\text{C} \sim 40 \, ^{\circ}\text{C})$

Materials of Construction

Body SS 316L

Diaphragm Nickel-cobalt alloy

Standard Seat PCTFE

Optional Seat Polyimide

Actuator Aluminum alloy

Functional Performance

Maximum Cv 0.05

Leakage Across Seat (Design) 1 x 10⁻¹⁰ scc/sec He

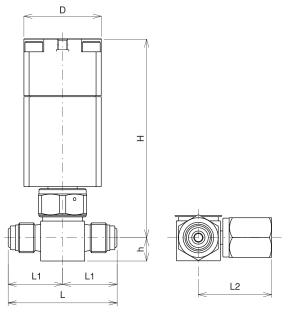
Leakage Across Seat (Tested) < 5 x 10⁻¹¹ scc/sec He

Inboard Leakage (Design) 2 x 10⁻¹⁰ scc/sec He

Inboard Leakage (Tested) < 5 x 10⁻¹¹ scc/sec He

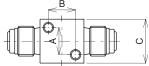


Dimensions

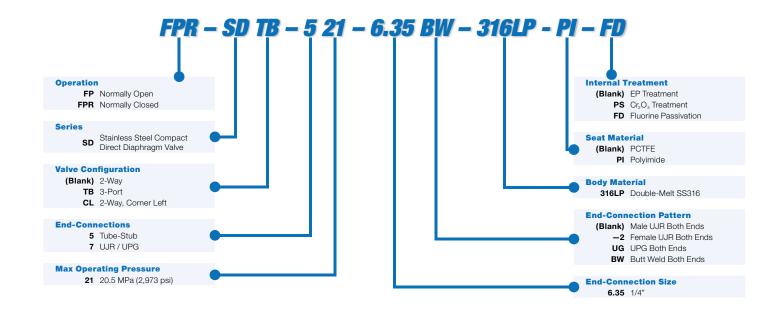


Part Number	L	L1	L2	h	Н	D	A	В	C
FPR-SD-721-6.35UG	41.0			11.1	95	37	13	13	21
FPR-SD-721-6.35UG-2	66.0			11.1	95	37	13	13	21
FPR-SD-721-6.35-316LP	52.0			11.1	95	37	13	13	21
FPR-SD-721-6.35-2-316LP	71.6			11.1	95	37	13	13	21
FPR-SDTB-721-6.35UG-2	66.0	33	33	11.1	95	37	13	13	21
FP-SDTB-721-6.35-2-316LP	71.6	35.8	35.8	11.1	95	37	13	13	21

All dimensions in millimeters.



Part Number Designation



Fujikin

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