



Miniature Shear Valve

Product Data Sheet

Kloehn miniature valves offer a wide variety of fluid flow possibilities for the fluidic designer. The valves are light weight requiring minimum space (less than 2 cubic inches). The valve housings come in two body types, Distribution and Non-Distribution for both loop and distribution type flow patterns.

Physical

- Height: KV: 1.50"; KVP:1.91"
- Housing: .75" Square
- Mass: 28g

Environmental

- Operating Temperature of 10°C to 95°C
- RoHS compliant

Mechanical

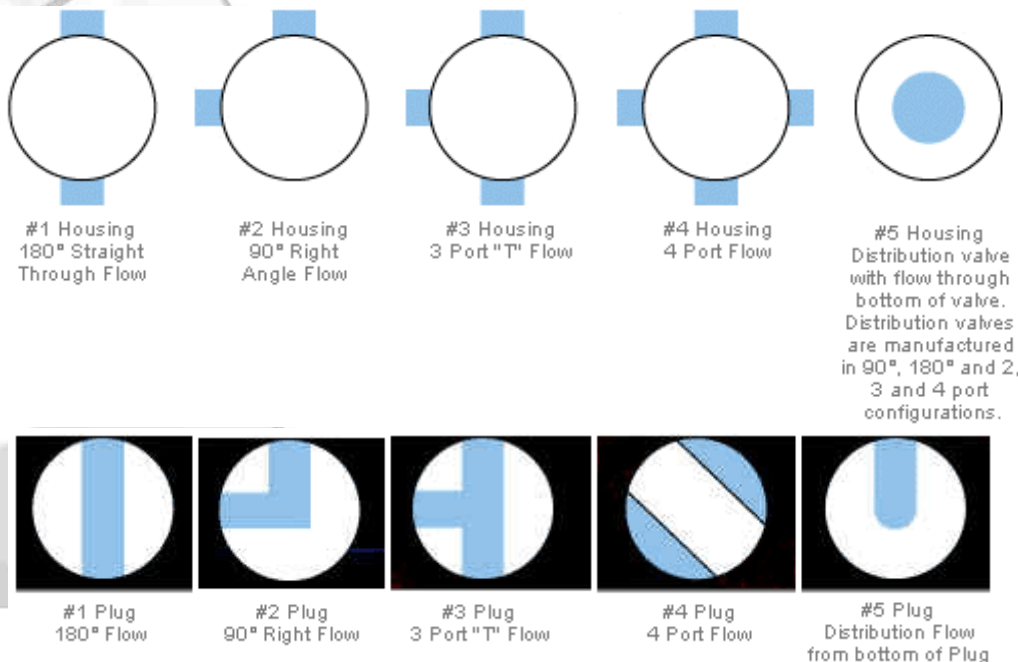
- Orifice Diameter: .059" - custom sizes are available
- Pressure rating: 100psi
- Mount Style: KV and KVD styles are free standing; KVP and KVPD styles are for panel mount applications up to 0.150" thick.
- 1/4-28 UNF threads to accept a variety of fittings and adapters.
- Valve plug is manually rotated by turning the drive lever clockwise or counterclockwise; 360° range of motion.

Chemical

- Wetted Materials: Kel-F (CTFE) and PTFE(Teflon®)
- Housing: Aluminum, hard black anodized.

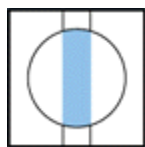
Housing and Plug Configurations

There are five valve housing configurations and five tapered plug configurations that are combined to form twelve standard valve configurations.

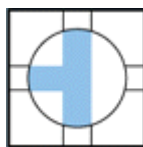


Valve Configuration and Part Number

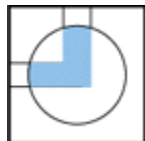
The chart below shows the standard valve configurations. These configurations can be modified for applications where the designer needs round valve housings in place of the standard 3/4" square valve housings. See the sales representative.



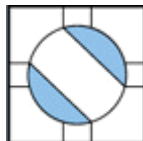
#1 180° Housing, #1 180° Plug.
For straight through flow.
7010KV 7010KVP



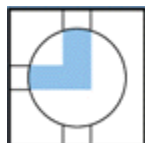
#4 4 Port Housing, #3
"T" Plug
For flow through 4 ports.
7016KV 7016KVP



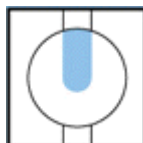
#2 90° Housing, #2 90° Plug
For single right hand flow.
7011KV 7011KVP



#4 4 Port Housing, #4
Port Plug
For two right angle flow
through 4 ports.
7017KV 7017KVP



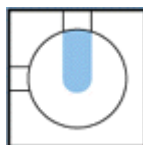
#3 3 Port Housing, #2 90° Plug
For right hand flow through
3 ports.
7012KV 7012KVP



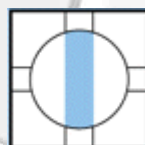
#5 1 180° Distribution
Housing.
#5 Distribution Plug
For single flow from
bottom through 2 ports.
7018KVD 7018KVPD



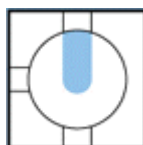
#3 3 Port Housing, #3 "T" Plug
For flow through 3 ports.
7013KV 7013KVP



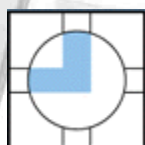
#5 2 90° Distribution
Housing.
#5 Distribution Plug
For single flow from
bottom through 2 right
angle ports.
7019KVD 7019KVPD



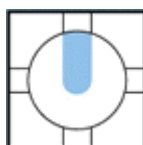
#4 4 Port Housing, #1 180° Plug
For straight flow through
4 ports.
7014KV 7014KVP



#5 3 Port Distribution
Housing.
#5 Distribution Plug
For single flow from
bottom through 3 ports.
7020KVD 7020KVPD



#4 4 Port Housing, #3 90° Plug
For single right angle flow through
4 ports.
7015KV 7015KVP



#5 4 Port Distribution
Housing.
#5 Distribution Plug
For single flow from
bottom through 4 ports.
7021KVD 7021KVPD

