Features

Brass Poppet

LV / EZ

M0

Viking Lever

42

Directair

Directai

- Compact and Simple Design
- 4-Way, 3-Position
- Rotary Disc, Direct Operated Valves
- Side Porting
- Detent Action Smooth Lever Actuation
- General Pneumatic Applications

Flow Rating

Port Size	Cv (ANSI)	Cv (JIS)
1/4"	0.5	0.4
3/8"	1.4	2.72
1/2"	1.5	3.26

Service Kit & Parts Available

Disk and Seal Service Kit:

HV4200 HV4400 HVRK420001 HVRK440001

Operation

These closed center valves have a 90° lever movement. In neutral position, the inlet is closed to pressure and outlets are closed to exhaust. With clockwise (CW) rotation, inlet (IN) is connected to C2, C1 is connected to exhaust (EXH). With counter-clockwise (CCW) rotation, inlet (IN) is connected to C1, C2 is connected to exhaust (EXH). These valves are recommended for stationary air cylinders, and as throttling valves for positioning air cylinders. They are not to be used on punch presses or press brakes.



Operating Pressure

0 - 150 PSIG (0 - 10 bar)

Operating Temperature

32° - 166°F (0° - 60°C)

Lubrication

Filtered and lubricated air recommended for maximum valve life and minimum maintenance.

Materials

Cover	Zinc
Body	Aluminum
Seals	Polyurethane

ANSI Cv vs. JIS Cv

For Pneumatic Valve flow, the measurement \mathbf{Cv} – Coefficient of Flow – is used to convey to the user how much air can flow through a given valve. Most valve manufacturers publish this information in their catalogs to assist the user in choosing the proper valve for their application. In publishing this data however, there are discrepancies in how the \mathbf{Cv} is calculated, resulting in some \mathbf{Cv} 's being OVERSTATED by **20 to 40**%. This can adversely affect the user's application because the valve flows LESS than the published \mathbf{Cv} .

The reason for the large discrepancy is in the method of calculation - the ANSI (NFPA) or the JIS standard. Parker's **Cv** valve is calculated using the ANSI (NFPA)

T3.21.3-1990 standard. The ANSI (NFPA) method is a structured test using very specific tube sizes and lengths, inlet pressures and pressure drops, and volume chambers.



HV Model Number Index



