



Pneumatic Division North America
Richland, Michigan 49083

VAL-SIF-114

“HV” Hand Valve

ISSUED: August, 2000

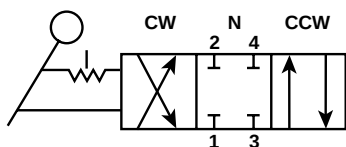
HV Hand Valve

Features

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

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. 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.



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



Specifications

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

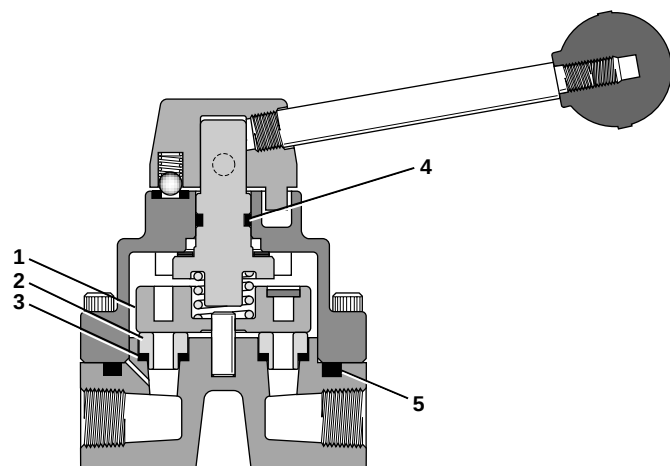
Seals - Polyurethane

ANSI Cv vs. JIS Cv

For Pneumatic Valve flow, the measurement **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 **Cv** is calculated, resulting in some **Cv**'s being **OVERSTATED** by **20 to 40%**. This can adversely affect the user's application because the valve flows **LESS** than the published **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.



(HVN4200-8 Shown)

Part Numbers

- 1 Disk
- 2 Seal
- 3 Seal O-Ring
- 4 Stem O-Ring
- 5 Body Gasket

Service Kit & Parts Available

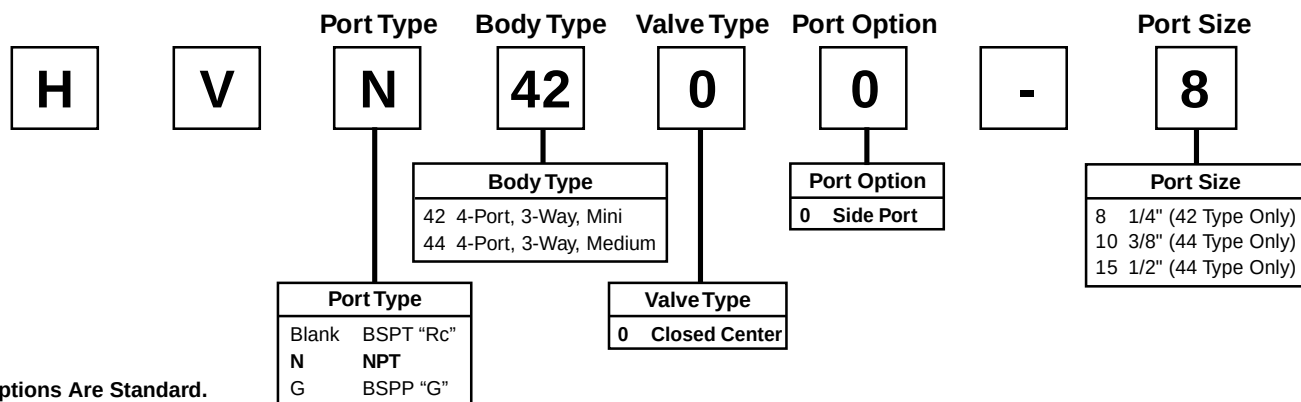
Disk and Seal Service Kit:

Consists of items #1, 2, 3, 4 & 5

HV4200 **HVRK420001**

HV4400 **HVRK440001**

HV Hand Valve Ordering Code



Bold Options Are Standard.

Dimensions

