



Cleanness by Purpose

H eader Valve

= Branch/Lateral Piping System =

HV series



IHARA SCIENCE CORPORATION

HV Header Valve Series (Branch/Lateral Piping System)

【Features】

HV Series is a fully integrated Uniplex or Duplex valve product. The branched valve is high CV value of Y-type Bellows valve or Metal Diaphragm valve as standard. The pressure loss caused by branch can be minimized.

- Configurable valve orientation per customer request with multiple options offered (100% He leak tested)
- The branch valve is a Y-Type Bellows Valve (CVY series) or Metal Diaphragm Valve (HFD series) internals
- The valve is equipped with integral 316L SS trim construction for a compact footprint to minimize dead space
- These transitional branch valves come as standard with a 5Ra (EP) or 20Ra (BA) micro-inch internal surface finish
- Cleaning, assembly, and packaging are conducted in an ISO 4, ISO 5 & ISO 6 cleanroom environment.

Specification

Nominal sizes	Main: 1/2" to 6" sizes Branch: 1/4" to 2" sizes		
Working pressure (※1)	Vac. ~1MPa (150psi) Vac. ~2MPa (300psi)		
Working temperature (※2)	-10~+80°C (14~176 ° F)		
Valve end	Tube stub	Compression	NPT
	Metal gasket face seal fitting VCR®		

(※1) Higher pressures available, please inquire.

(※2) PCTFE seat standard (Polyimide, PFA, PVDF, PEEK options)

(※3) Specification of specific valve.

Branch Valve Outlet Cv value (※3)	Y-Type Bellows Valve (CVY Series)	1/2" CVY8 type	5
		3/4" CVY12 type	9
		1" CVY16 type	11
		1" CVY16-HF type	20
		1.50" CVY32 type	26
		2" CVY32 type	34

Description of Single-Branch (Uniplex) in Cast and Forged Option Model Numbers

HV- ① - CVY- ②③ - 30016C - ④ - ⑤ - ⑥ - ⑦ - ⑧ - L

Ex.) HV-100 - CVY- 8TWVM - EP - OPP - GD4N [Header Valve Single, Cast valve body, 1" Main x 1/2" Branch (VM), Std handle, EP treated, Outlet PP, Capped, Std OAL]

HV- ① - CVY- F - ②③ - 3006LC - ④ - ⑤ - ⑥ - ⑦ - ⑧ - L

Ex.) HV-100 - CVY-F- 8TWVM - EP - OPP - GD4N [Header Valve Single, Forged valve body, 1" Main x 1/2" Branch (VM), Std handle, EP treated, Outlet PP, Capped, Std OAL]

①		②		③		TW③		④		⑤	
Mark	Main Tube	Mark	Branch size	Mark	Connection	Mark	Thickness	Mark	Cv	Mark	Operational feature
050	1/2"	4	1/4"	NPT	Threaded	1.24	1.24mm	(Blank)	standard flow	(Blank)	Standard handle
075	3/4"	6	3/8"	D	BI-Lok	1.65	1.65mm	H	high flow	*	*
100	1"	8	1/2"	VM	VCR® (Male)	※ TW option only				NC	Normally-Closed
150	1-1/2"	12	3/4"	VF	VCR® (Female)					NO	Normally-Open
200	2"	16	1"	TW	Tube weld						
250	2-1/2"	24	1-1/2"								
300	3"	32	2"								
400	4"										
600	6"										

Not all part number configurations are possible, please inquire with our sales staff.

⑥		⑦		⑧		L	
Mark	Surface treated	Mark	Purge Port location	Mark	Purge Port feature	Mark	Main Tube end-to-end
EP	Electro polished 5Ra μ in (7Ra max)	(Blank)	No purge ports	(Blank)	No purge ports	(Blank)	standard OAL
BA	Bright Annealed 20Ra μ in (32Ra max)	IOPP	Inlet/Outlet (Up/Downstream)	GD4N	1/4" VCR® (Male) capped w/gasket	Lin	length in inches
		OPP	Outlet (Downstream)			Lmm	length in millimeters
		IPP	Inlet (Upstream)				

Related Products

DVF Compact Diaphragm Valve (1MPa – 150psi)



HFD High Flow Diaphragm Valve



CVY Y-Type Bellows Seal Valve



PYB Pipe-Welded Y-Type Bellows Seal Valve (1MPa~2MPa)



ISO9001, ISO14001 Certified Office

Certified office for high-pressure gas facility testing and manufacturing.

certified office for N valves and N-II fittings

IHARA SCIENCE CORPORATION

◆Head Office

11-3 Takanawa 3-chome Minato-ku, Tokyo 108-0074 Japan
TEL: 03-6721-6981 FAX: 03-6721-6991

◆IHARA SCIENCE TAIWAN Co.,Ltd

B2, 7F, No. 51, Sec. 2, Gongyi Rd., Nantun Dist., Taichung City 408330,
Taiwan (R.O.C.)
TEL: +886-4-2319-1116 FAX: +886-4-2319-1126

◆IHARA KOREA Co.,Ltd

Digital Empire II 103-905, Sinwon-ro 88, Yeongtong-Gu, Suwon-Si
Gyeonggi-Do, 443-734, South Korea
TEL: +82-31-695-6800 FAX: +82-31-695-6808

◆IHARA SCIENCE USA CORPORATION

17971 Sky Park Circle, Suite B, Irvine, California 92614 U.S.A.
TEL: 949-387-3727
FAX: 949-387-3739

◆NANTONG IHARA SCIENCE Co.,Ltd

No.1692-8 Xinghu Road, Economic & Technological Development
Zone, Nantong, Jiangsu 226010 P.R.China TEL: +86-513-89072116
FAX: +86-513-81520182



WARNING

If you don't select and handle fittings, valves and related accessories in an adequate manner, it may damage human beings and applicable systems.

Within the responsibility and authorization of users and piping designers, fittings, valves and related accessories shall be adequately selected, used and maintained based on the applicable conditions and product conformity to the system to be applied. Please read carefully the operation manual and feel free to contact with Ihara if you have any question or request.

WARRANTY CLAUSE

1. Warranty Period

The warranty period of the products is one (1) year from putting into service or one and half (1.5) years after delivery whichever comes earlier. However, the products specially specified and/or the cases used under deviating from the specification shall be exempted.

2. Scope of Warranty

Any failure and damage under maker's responsibility will be found during the warranty period, the substitutes and/or replacement parts shall be provided free of charge. The warranty shall not be applied to a claim for the

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