



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 1" sizes		
Working pressure (※1)	Vac. ~ 1.75MPa (250psi)		
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)	Metal Diaphragm Valve (HFD Series)	1/4" HFD8 type	1.8
		1/2" HFD8 type	2.8
		3/4" HFD8 type	2.8
		3/4" HFD16 type	4.8
		1" HFD16 type	9

Description of Single-Branch (Uniplex) and Multiple-Branch Model Numbers

SINGLE = HV-① - HFD-②-③④ - ⑤ - ⑥ - ⑦ - ⑧-L

Ex.) HV-100 - HFD-A - 8VM - LOH - EP - OPP - GD4N [Header Valve Single, 1" Main x 1/2" Angled Branch (VM), LOTO handle, EP treated, Outlet PP, Capped, Std OAL]

DOUBLE = 2HV-① - HFD-②-③④ - ⑤ - ⑥ - ⑦ - ⑧-L

Ex.) 2HV-200 - HFD - 16VM - EP - OPP - GD4N-L24in [Header Valve Double, 2" Main x 1" Branch (VM), Std handle, EP treated, Outlet PP, Capped, 24in OAL]

①		②		③		④		TW④		⑤	
Mark	Main size	Mark	Valve type	Mark	Branch size	Mark	Connection	Mark	Thickness	Mark	Operational feature
050	1/2"	(blank)	straight design	4	1/4"	NPT	Threaded	1.24	1.24mm	(Blank)	Standard handle
075	3/4"	A	angle design	6	3/8"	D	BI-Lok	1.65	1.65mm	LOH	Lock Out Tag Out Integral Handle
100	1"	*	custom design	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"										
300	3"										
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

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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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