



Cleanness by Purpose

Branch Valve

= Branch/Lateral Piping System =



IHARA SCIENCE CORPORATION

BV Branch Valve Series (Branch/Lateral Piping System)

【Features】

BV 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 orientation as a vertical or horizontal cross or tee & bottom outlet option (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 316L SS trim construction & a 7Ra micro-inch (or better) internal surface finish
- These transitional branch valves are a superior compact design to minimize flow "dead space"
- Cleaning, assembly, and packaging in an ISO 4, ISO 5 & ISO 6 cleanroom double-bagged with UHP N2 purging

Specification

Nominal sizes	Main: 1/2" to 3" sizes Branch: 1/4" to 1" sizes
Working pressure (※1)	Vac.~1.75MPa (250psi)
Working temperature (※2)	-10~+80°C (14~176° F)
Valve ends	Tube stub weld
	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 Double-Branch (Duplex) Model Numbers

BV① - ② - HFD③ - ④⑤ - ⑥ - ⑦ - ⑧ - ⑨

Ex.) BV100 - SHC - HFD8-A - 8VM - LOH - EP - OPP - GD4N [Single Horz Cross BV, 1" Main x 1/2" Branch (VM), LOTO handle, EP, Outlet PP w/Cap]

BV① - ② - HFD③ - ④⑤ - ⑥ - ⑦ - ⑧ - ⑨

Ex.) BV200 - DHC - HFD16-A - 16VM - EP - OPP - GD4N [Duplex Horz Cross BV, 2" Main x 1" Branch (VM), Std handle, EP, Outlet PP w/ Cap]

①		②		②		③		④	
Mark	Main size	Mark	Uniplex Configuration	Mark	Duplex Configuration	Mark	Valve type	Mark	Branch size
050	1/2"	SHC	Single Horz Cross	DHC	Dual Horz Cross	8-A	1/2" design	4	1/4"
075	3/4"	SHT	Single Horz Tee	DHT	Dual Horz Tee	16-A	1" design	6	3/8"
100	1"	SVC	Single Vertical Cross	DVC	Dual Vertical Cross			8	1/2"
150	1-1/2"	SVT	Single Vertical Tee	DVT	Dual Vertical Tee			12	3/4"
200	2"	-	-	-	-			16	1"
300	3"	-	-	-	-				

⑤		⑥		⑦		⑧		⑨	
Mark	Connection	Mark	Operational feature	Mark	Surface treated	Mark	Purge Port location	Mark	Purge Port feature
NPT	Threaded	(Blank)	Standard handle	EP	Electro polished 5Ra μ in (7Ra max)	(Blank)	No purge ports	(Blank)	No purge ports
D	BI-Lok	LOH	Lock Out Tag Out Integral Handle	BA	Bright Annealed 20Ra μ in (32Ra max)	IOPP	Inlet/Outlet (Up/Downstream)	GD4N	1/4" VCR® (Male) capped w/gasket
VM	VCR® (Male)	NC	Normally-Closed			OPP	Outlet (Downstream)		
VF	VCR® (Female)	NO	Normally-Open			IPP	Inlet (Upstream)		
TW	Tube weld								

※ Horizontal ("Horz") configurations describe outlet flow to the valve in the horizontal direction (horizontal plane).

※ Vertical ("Vert") configurations describe outlet flow to the valve in the vertical direction (vertical plane).

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

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 liquidated damages.

■ URL : <http://www.ihara-sc.co.jp/>

■ Please be advised that the contents of this catalogue may be revised without notice when improvements or modifications are made on the time.