



Cleanness by Purpose

CHECK Valve

CHY Series



IHARA SCIENCE CORPORATION

CHY Check Valve Series

【Features】

CHY Series is a spring-loaded UHP check valve product. The check valve is high Cv value of Y-type design, available in both a cast and forged body option. Used in Bulk Gas delivery systems to eliminate backflow.

- Configurable cracking pressures; 10 psig standard [to 1"] and 2.2 psig standard [1-1/2" & 2"]
- The valve design originates from our proven Y-Type Bellows Valve (CVY series) engineered design.
- The valve is equipped with 316L SS trim, a 316SS spring, FKM (Viton) o-ring and PCTFE soft seals.
- As standard with a 5Ra or 20Ra micro-inch internal surface finish, and 100% He leak tested.
- Cleaning, assembly, and packaging are conducted in an ISO 4, ISO 5 & ISO 6 cleanroom environment.

Specification

Nominal sizes	1/4" to 2" sizes
Working pressure (※1)	Vac. ~ 1.73MPa (250psi)
Working temperature (※2)	-10 ~ +80°C (14 ~ 176 ° F)
Valve end	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.

Valve Cv value (※3)	UHP Check Valve (CHY Series)	1/4" CHY8 type	1.8
		3/8" 1/2" CHY8 type	11
		3/4" CHY12 type	12
		1" CHY16 type	13
		1-1/2" & 2" CHY32 type	34

Description of CHY Check Valve Model Numbers

CAST = CHY - ① ② ③ - ④ - ⑤ - ⑥

Ex.) CHY - 8TW1.24 - EP [CHY Check Valve, 1/2" Tube weld ends, 1.24mm (.049") tube thickness, EP treated, No Purge Ports, Cast Body]

FORGED = CHY-F - ① ② ③ - ④ - ⑤ - ⑥

Ex.) CHY-F - 16TW1.65 - EP - IOPP - GD4N [CHY Check Valve, 1" Tube weld ends, 1.65mm (.065") tube thickness, EP treated, 1/4" Dual PP Capped, Forged Body]

①		②		③	
Mark	Valve size	Mark	Connection	Mark	Tube thickness
4	1/4"	NPT	Threaded	0.89	.035"
6	3/8"	D	BI-Lok	1.24	.049"
8	1/2"	VM	VCR® (Male)	1.65	.065"
12	3/4"	VF	VCR® (Female)	※ TW option only	
16	1"	TW	Tube weld		
24	1-1/2"				
32	2"				
-	-				

④		⑤		⑥	
Mark	Surface treated	Mark	Purge Port location	Mark	Purge Port feature
EP	Electro polished 5Ra μ in (7Ra max)	(Blank)	No purge ports	(Blank)	No purge ports
BA	Bright Annealed 20Ra μ in (32Ra max)	IOPP	Inlet/Outlet (Up/Downstream)	GD4N	1/4" VCR® (Male) capped w/gasket
		OPP	Outlet (Downstream)		
		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 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.