

elows Valve

Pipe-Welded Y-Type Bellows Seal Valve

PYB series



IHARA SCIENCE CORPORATION

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

[Features]

Pipe-Welded Y-Type Bellows Seal Valve(PYB Series) have being developed to reduce troubles ($\mbox{$\%$}1$) due to the surface defects of conventional cast steel body.

At the same time, delivery lead times becomes much shorter.

- Valve body consists of steel pipes, achieves significant weight reduction and high cleanliness.
- Equipped with metal bellows seal achieves high airtightness and high durability.
- Achieves high performance of Cv value through Y-type structure and high lift design.
- Wet contact parts are oil-free treated by precision cleaning.
- Carry out assembly, inspection and packaging, in the clean room (class 1000).
- Compared with conventional cast steel valve, achieve short lead time as the body is made of steel pipes.

($\frak{1}$) Poor appearance due to pin holes, cavities, residual oil, particles generation, etc.

Specification

Nominal size	40A	50A	65A	80A	100A	125A
Nominal Size	150A	200A	250A	300A	I	ı
Working pressure	Vac.∼1MPa					
Working temperature	−10 ~ +80°C					
Leak amount	Intern	nal *2	$\leq 1 \times 10^{-6} \text{Pa} \cdot \text{m}^3/\text{sec.}$			
Leak amount	Exte	ernal	≦5>	< 10 ⁻¹⁰	Pa∙m³,	/sec.

(X2) Case of PTFE seat. Depends on the material.

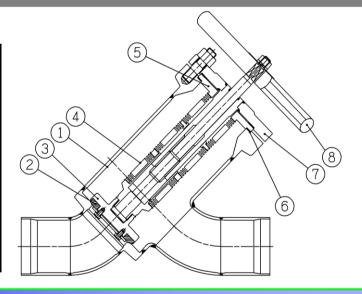
(※3) Case of butt welding of Sch.5S. Depends on connection.

	40A	55	125A	510
	50A	85	150A	730
Cv value	65A	160	200A	1200
	80A	220	250A	1800
	100A	345	300A	2600

	40A	5kg	125A	48kg
	50A	7kg	150A	70kg
Weight ^(※3)	65A	12kg	200A	112kg
	80A	23kg	250A	260kg
	100A	29kg	300A	322kg

Main Materials

	Parts Name	Material
1	Body	316L SS
2	Disk	PTFE
3	Disk Holder	316L SS
4	Bellows	316L SS
⑤	Bellows Flange	316L SS
6	Gasket	PCTFE
7	Bonnet	304 SS
8	Handle	Ductile Iron



Model Numbering

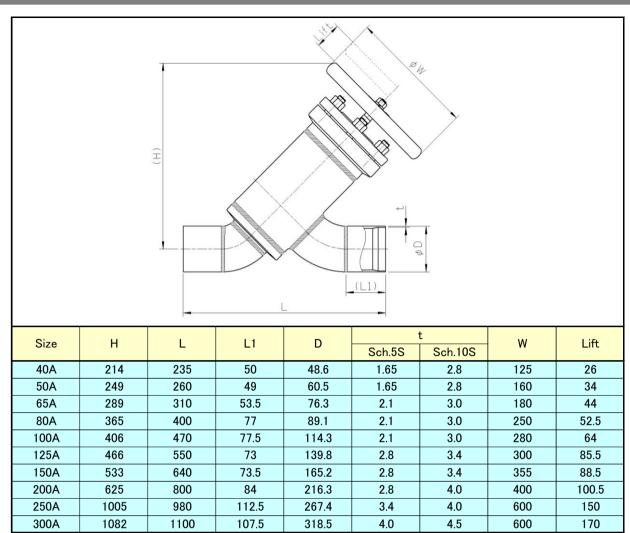
PYB - 1 2 - 6LCT - 3

Ex.) PYB-50PW5-6LCT-EP [50A Sch.5S Pipe BW, PTFE Disk, PCTFE Gasket, Electropolishing]

	①				
Mark	Size	Mark	Size		
40	40A	125	125A		
50	50A	150	150A		
65	65A	200	200A		
80	80A	250	250A		
100	100A	300	300A		

	2			
Mark	Mark Connection (**4)			
PW5	Pipe	Sch.5S		
PW10	(BW)	Sch.10S		

3		
Mark	Internal Finish	
EP	EP Grade	
	(≦Ra0.18 μ m)	
ВА	BA Grade	
	(≦Ra0.8 <i>μ</i> m)	



(X)Sizes of 250A~300A are different structure from above drawing.

High Flow Types, Pneumatic Operation, Purge Ports are available upon requests.



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

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WARRANTY CLAUSE

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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