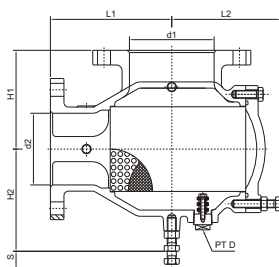


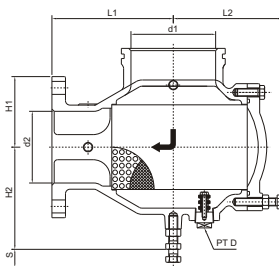
# CSD-1 CSD-2, CSD-3 TYPE INTELLIGENT SUCTION DIFFUSERS



## CONSTRUCTIONS



FLANGED TYPE



GROOVED TYPE

## FEATURES

- This model is designed to enable to check whether the inner screen is clean or not.
- Hinge type construction makes it possible to clean the screen quickly
- Magnet embedded protects pump and piping from damages by ferritin or welding sludges.
- Vane is not placed inside the screen but at the outlet. Thus, this valve maximizes effective operation of pump with minimum pressure loss.

## SPECIFICATIONS

Items	CSD-1	CSD-2	CSD-3
Applicable fluid	Water, liquid		
Applicable pressure	Max 143 PSI	Max 285 PSI	Max 425 PSI
Applicable temperature	Max. 80℃	Max. 120℃	Max. 120℃
End connection	ANSI 125 flanged	ANSI 150 flanged	ANSI 300 flanged
Materials	BODY	Cast iron	Ductile cast iron or Cast steel
	SCREEN	Stainless steel	Stainless steel
	GASKET	NBR, EPDM	EPDM
	DRAIN PLUG	SS, Cast iron	SS, Cast iron
Valve body pressure test	Hydro Test @ 213 PSI	Hydro Test @ 427 PSI	Hydro Test @ 637 PSI
Option	- END CONNECTION: INLET GROOVED END		

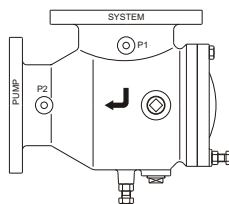
## DIMENSION

(mm)

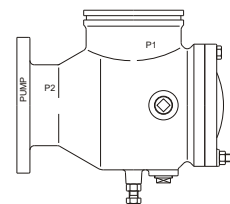
SYSTEM (d1)	PUMP (d2)	L1	L2	H1	H2	S	PT D
50A	50A	113	78	110	78	10	3/8
65A	65A	125	89	115	121	10	3/8
80A	80A	144	109	124	140	10	1/2
100A	100A	180	164	150	160	12	3/4
125A	125A	215	192	175	181	12	1
	100A	180	163	150	160	12	3/4
150A	150A	250	224	205	212	14	1
	125A	215	193	175	181	12	1
200A	200A	320	285	260	274	17	1 1/4
	150A	250	223	205	216	14	1
250A	250A	360	330	310	323	18	1 1/4
	200A	320	280	260	274	17	1 1/4
	150A	320	280	260	274	17	1 1/4
300A	300A	410	372	360	392	23	1 1/2
	250A	360	332	310	323	18	1 1/4
350A	350A	480	421	390	421	23	2
	300A	410	372	360	392	23	1 1/2
	250A	360	331	310	323	18	1 1/4
400A	400A	560	484	450	471	23	2
450A	450A	640	550	510	535	28	2
500A	500A	710	610	570	590	30	2
550A	550A	780	670	625	650	34	2
600A	600A	840	720	680	710	40	2

※ Outlet sizes (d2) can be chaged upon request.

※ Grooved connection at the inlet is available upon request.



FLANGED TYPE  
(STANDARD)

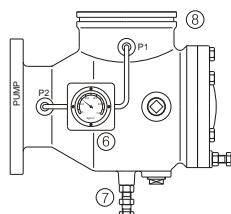
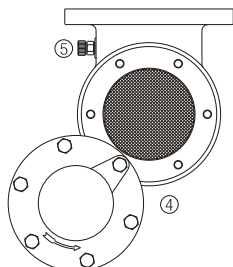
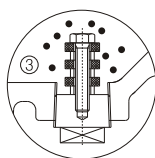
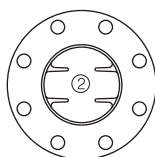
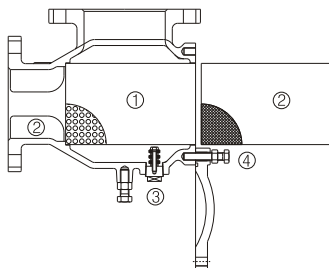


GROOVED TYPE

# CSD-1 CSD-2, CSD-3 TYPE INTELLIGENT SUCTION DIFFUSERS



An intelligent suction diffuser is integration of such features as below.



## ① STRAINER

Pumping efficiency is maximized by 2 types of built-in large orifice screens. Also it is easy to remove screens for cleaning after flushing the piping inside.

## ② FLOW BALANCE

Fluids in a state of pulsation, which run through a screen are stabilized by a vane. Therefore the pressure loss is prevented to the least while efficiency of the operation of pumps is maximized.

## ③ SUCTION OF FERRITE SUBSTANCE IN PIPING

Collecting ferrite iron composition that comes towards the pump side. A permanent magnet installed to a plug protects pumps and other piped facilities. This product provides easy and regular cleaning.

## ④ EASY CLEANING OF SCREEN

Because it is designed in hinge construction, a valve cover is easily assembled and disassembled to make easier the cleaning of inner screens.

## ⑤ PRESSURE LOSS MEASURER

A standard manufactured unit of a differential pressure measurer (at the inlet and outlet) and gages can be attached to check the efficiency drop of pumps which may be incurred from the accumulated foreign substances.

## ⑥ INTELLIGENT ELEMENT AVAILABLE

An attached intelligent element helps the pump keep efficient condition from accumulated foreign substances on the screen. A cleanout status is visible and checked.

## ⑦ SUPPORT BOLT

A support bolt is placed in the center of gravity in order to support the pump and piping line in the firm position. Also it is possible to adjust its height freely.

## ⑧ FLEXIBLE CONNECTION

Grooved-type connection method, which is adopted to construct vibration-proof and quakeproof properties of pumps, is provided upon request.

## ■ INSTALLATION EXAMPLE (SUCTION DIFFUSER)

