



QUICK COUPLINGS

S·P-V TYPE

Medium pressure • Twin valve

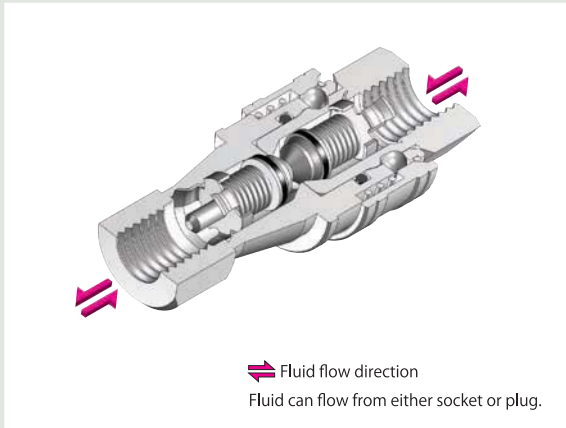
Vacuum



NAGAHORI INDUSTRY CO., LTD.

S·P-VTYPE Medium pressure Twin valve

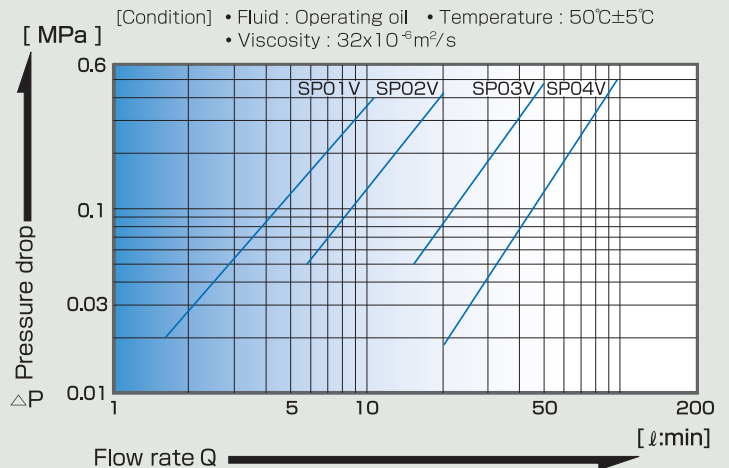
Airtightly automatic shut-off valves apply for vacuum application.



Features

- Both socket and plug have automatic shut-off valves, offering high performance on vacuum applications (1.3×10^{-1} Pa).
- The double O-ring type is available as option.

Flow rate - Pressure drop characteristics



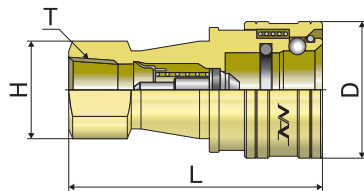
Packing material and temperature's range

Packing material	Neoprene	Nitrile rubber hydride(H-NBR)
Symbol	CR	H-NBR
Temperature *1	$-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$	$-15^{\circ}\text{C} \sim +120^{\circ}\text{C}$
Advantage *2	Resistant to CFC-12, HCFC-22 and HFC-134a	Resistant to HFC-134a, R410A, R407C and R404A
Application	Production line for air conditioner	Production line for air conditioner and refrigerator

*1 By the environment of one's using, it has a case that the appropriate temperature differs from this table. Continuous use by above minimum/maximum temperature causes a leakage and so on.

*2 Above characteristics are standard. O-ring durability depends on the temperature of fluid, kinds of chemicals and viscosity.

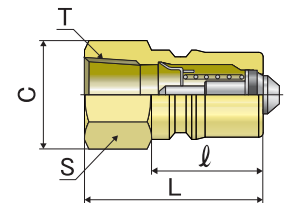
BRASS SOCKET



Model	Weight (g)	Connection size(T)	Dimensions (mm)		
			L	ϕD	H
*CSP01S2V	87	Rc $\frac{1}{8}$ "	48	24	$\phi 18$ /Face14
CSP02S2V	137	Rc $\frac{1}{4}$ "	58	28	$\phi 22$ /Face19
CSP03S2V	209	Rc $\frac{3}{8}$ "	65	35	$\phi 25$ /Face21
CSP04S2V	424	Rc $\frac{1}{2}$ "	72	45	$\phi 35$ /Face29

*Option

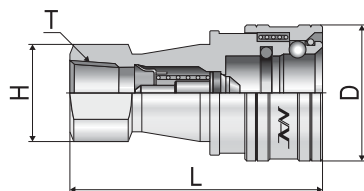
PLUG



Model	Weight (g)	Connection size(T)	Dimensions (mm)			
			L	S	C	ℓ
*CSP01P2V	19	Rc $\frac{1}{8}$ "	29	14	16	19
CSP02P2V	36	Rc $\frac{1}{4}$ "	36	17	19.5	22
CSP03P2V	62	Rc $\frac{3}{8}$ "	40	21	24	25
CSP04P2V	128	Rc $\frac{1}{2}$ "	44	29	33	28

*Option

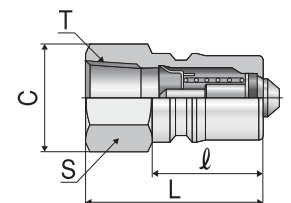
STAINLESS STEEL (SUS304) SOCKET



Model	Weight (g)	Connection size(T)	Dimensions (mm)		
			L	ϕD	H
*CSP01S3V	79	Rc $\frac{1}{8}$ "	48	24	$\phi 18$ /Face14
CSP02S3V	128	Rc $\frac{1}{4}$ "	58	28	$\phi 22$ /Face19
CSP03S3V	195	Rc $\frac{3}{8}$ "	65	35	$\phi 25$ /Face21
CSP04S3V	400	Rc $\frac{1}{2}$ "	72	45	$\phi 35$ /Face29

*Option

PLUG



Model	Weight (g)	Connection size(T)	Dimensions (mm)			
			L	S	C	ℓ
*CSP01P3V	18	Rc $\frac{1}{8}$ "	29	14	16	19
CSP02P3V	33	Rc $\frac{1}{4}$ "	36	17	19.5	22
CSP03P3V	58	Rc $\frac{3}{8}$ "	40	21	24	25
CSP04P3V	116	Rc $\frac{1}{2}$ "	44	29	33	28

*Option

*Please read "User safety guide" before operation.



Brass



Stainless steel
(SUS304)



Twin valve



Neoprene



Water



Air



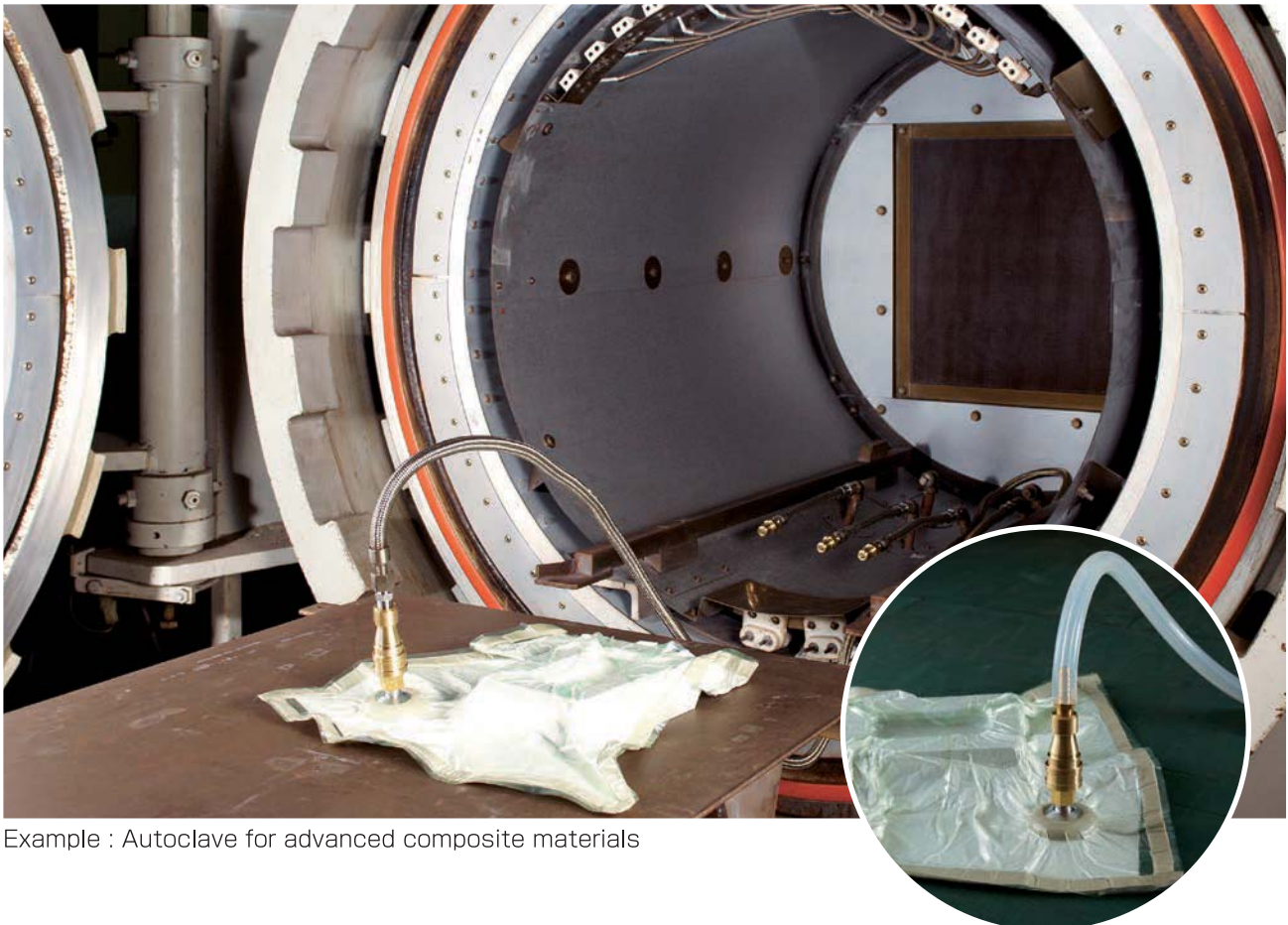
Cautions

- Packing material should be selected for the applicable fluid.
- Different sizes are not interchangeable.
- When mounting on the male thread, excessive tightening may cause the crack of the couplings.
- Do not apply pressure on a socket or a plug when disconnecting. It may damage the valve.

SOCKET



PLUG



Example : Autoclave for advanced composite materials

Specifications

Model		CSP01V	CSP02V	CSP03V	CSP04V
Nominal size		1/8"	1/4"	3/8"	1/2"
Nominal pipe size		6A	8A	10A	15A
Body material		Brass, Stainless steel(SUS304)			
Connection type		Female thread only			
Packing material Temperature range *1	Standard	Neoprene(CR) : -20℃~+80℃			
	Option	Fluoro rubber(FKM) : -20℃~+180℃			
		Nitrile rubber hydride(H-NBR) : -15℃~+120℃			
Normal pressure	Brass	5.0MPa			3.0MPa
Maximum pressure		7.5MPa			4.5MPa
Normal pressure	Stainless steel	7.5MPa			4.5MPa
Maximum pressure		10.0MPa			6.5MPa
Applicable fluid	*2	Air, Water, Inert gas, etc.			

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*2 Above characteristics are standard, O-ring durability depends on the temperature of fluid, kinds of chemicals and viscosity.

Flow's smallest area

Unit (mm²)

Model	CSP01V	CSP02V	CSP03V	CSP04V
Smallest area	15	23.1	52	98.2



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