



# QUICK COUPLINGS

**S・P TYPE**

Medium pressure • Twin valve



**NAGAHORI INDUSTRY CO., LTD.**

# S·P TYPE Medium pressure Twin valve



Steel

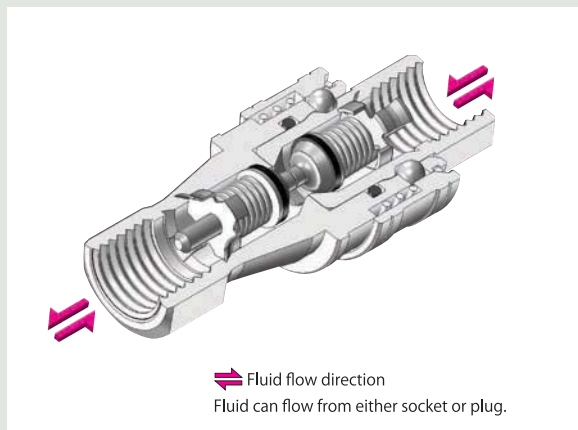
Twin valve

Nitrile rubber

Oil

Air

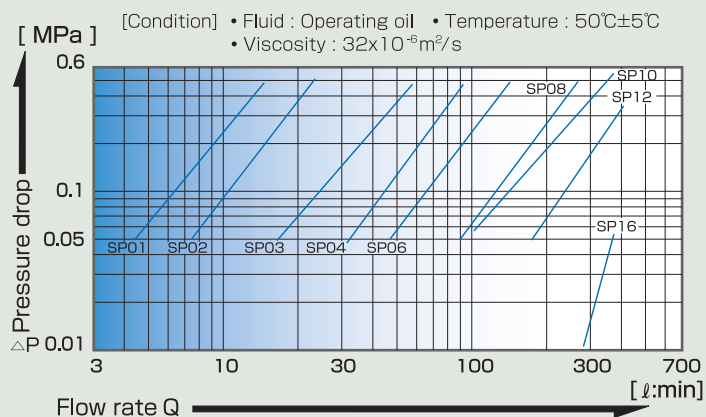
**Twin shut off valve makes neither fluid spout nor air mixture.**



## Features

- Both socket and plug have automatic shut-off valves for medium pressure applications.
- When disconnecting, both socket and plug are sealed by automatic shut-off valves instantly.
- Various packing materials enable a wide range of application.
- SUS316 is available as option.

## Flow rate - Pressure drop characteristics



## Packing material and temperature's range

Packing material	Symbol	Temperature *1	Characteristics *2
Nitrile rubber	NBR	-20°C~+ 80°C	Oil resistance
Fluoro rubber	FKM	-20°C~+180°C	Heat, oil resistance
Perfluoro®	P	*3	Chemical resistance
Ethylene propylene	EPDM	-30°C~+130°C	Weathering resistance
Heat resistant FKM	A	+10°C~+200°C	Steam resistance
Kalrez®	K	*4	Chemical, heat resistance

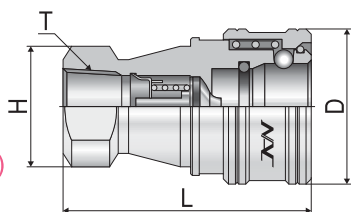
\*1 By the environment of one's using, it has a case that the appropriate temperature differs from this table. Continuous use by above minimum/maximum temperature causes a leakage and so on.

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

\*3 Perfluoro® is registered trademarks from DAIKIN Industries, Ltd. Please contact us additionally on your order.

\*4 Kalrez® is trademarks or registered trademarks of affiliates of DuPont de Nemours, Inc. Please contact us additionally on your order.

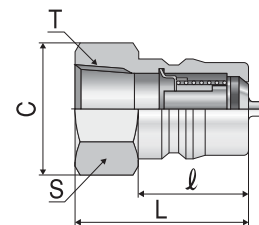
## STEEL (Zinc-plated) SOCKET



Model	Weight (g)	Connection size(T)	Dimensions(mm)		
			L	φD	H
*CSP01S	79	Rc 1/8"	48	24	φ18/Face14
CSP02S	128	Rc 1/4"	58	28	φ22/Face19
CSP03S	195	Rc 3/8"	65	35	φ25/Face21
CSP04S	400	Rc 1/2"	72	45	φ35/Face29
CSP06S	670	Rc 3/4"	88	55	φ41/Face35
CSP08S	1000	Rc 1"	102	65	φ48/Face41
*CSP10S	1603	Rc 1 1/4"	115	77.5	φ59/Face54
*CSP12S	2361	Rc 1 1/2"	124	87.5	φ69/Face63
*CSP16S	3752	Rc 2"	132	109	φ86/Face77

\*Option

## PLUG



Model	Weight (g)	Connection size(T)	Dimensions(mm)			
			L	S	C	ℓ
*CSP01P	18	Rc 1/8"	29	14	16	19
CSP02P	33	Rc 1/4"	36	17	19.5	22
CSP03P	58	Rc 3/8"	40	21	24	25
CSP04P	116	Rc 1/2"	44	29	33	28
CSP06P	203	Rc 3/4"	52	35	40	36
CSP08P	341	Rc 1"	62	41	47	40
*CSP10P	612	Rc 1 1/4"	70	54	62	45
*CSP12P	878	Rc 1 1/2"	75	65	75	49
*CSP16P	1572	Rc 2"	80	φ84/Face77		52

\*Option



Brass

Stainless steel  
(SUS304)

Twin valve



Fluoro rubber



Oil



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.
- Scraps of the seal tape and dust cause fluid leakage. Be careful not to stick them on the couplings.
- When connecting to a female thread or a hose, please use a nipple.

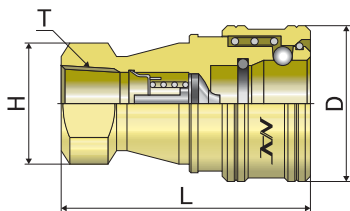
## SOCKET



## PLUG

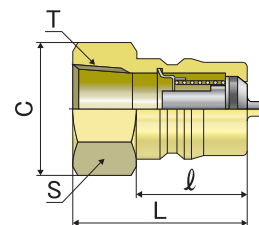


## BRASS SOCKET



Model	Weight (g)	Connection size(T)	Dimensions(mm)		
			L	φD	H
CSP10S2	1717	Rc1 1/4"	115	77.5	φ59/Face54
CSP12S2	2526	Rc1 1/2"	124	87.5	φ69/Face63
CSP16S2	3956	Rc2"	132	109	φ86/Face77

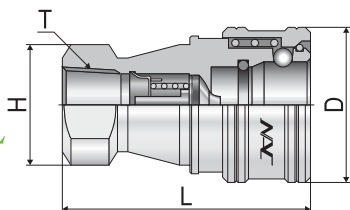
## PLUG



Model	Weight (g)	Connection size(T)	Dimensions(mm)			
			L	S	C	ℓ
CSP10P2	664	Rc1 1/4"	70	54	62	45
CSP12P2	996	Rc1 1/2"	75	65	75	49
CSP16P2	1638	Rc2"	80	φ84/Face77		52

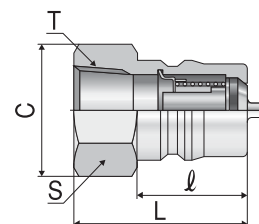
## STAINLESS STEEL (SUS304)

## SOCKET



Model	Weight (g)	Connection size(T)	Dimensions(mm)		
			L	φD	H
CSP10S3	1603	Rc1 1/4"	115	77.5	φ59/Face54
CSP12S3	2361	Rc1 1/2"	124	87.5	φ69/Face63
CSP16S3	3752	Rc2"	132	109	φ86/Face77

## PLUG



Model	Weight (g)	Connection size(T)	Dimensions(mm)			
			L	S	C	ℓ
CSP10P3	612	Rc1 1/4"	70	54	62	45
CSP12P3	878	Rc1 1/2"	75	65	75	49
CSP16P3	1572	Rc2"	80	φ84/Face77		52

## Specifications

Model		CSP01	CSP02	CSP03	CSP04	CSP06	CSP08	CSP10	CSP12	CSP16
Nominal size		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Nominal pipe size		6A	8A	10A	15A	20A	25A	32A	40A	50A
Body material		—						Brass, Stainless steel(SUS304)		
		Steel(Zinc-plated)								
Connection type		Female thread only								
Packing material Temperature range,*1	Brass, Stainless steel	—						Fluoro rubber(FKM) : -20℃~+180℃		
	Steel	Nitrile rubber(NBR) : -20℃~+80℃								
Normal pressure	Brass	—						2.0MPa		1.5MPa
Maximum pressure		—						3.0MPa		2.3MPa
Normal pressure	Stainless steel	—						3.0MPa		2.0MPa
Maximum pressure		—						4.5MPa		3.0MPa
Normal pressure	Steel	7.5MPa			4.5MPa			3.0MPa		2.0MPa
Maximum pressure		10.0MPa			6.5MPa			4.5MPa		3.0MPa
Applicable fluid *2	Brass, Stainless steel	—						Air, Water, Oil, etc.		
	Steel	Air, Oil, 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 (mm<sup>2</sup>)

Model	CSP01	CSP02	CSP03	CSP04	CSP06	CSP08	CSP10	CSP12	CSP16
Smallest area	13	23	55	83	143	234	378	536	803

