



QUICK COUPLINGS

SPE TYPE (PAT.)

Medium pressure • Twin valve

Large & Smooth flow



NAGAHORI INDUSTRY CO., LTD.



Brass



Twin valve



Fluoro rubber



Water

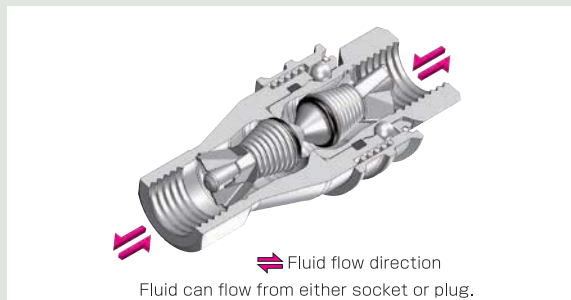


Oil



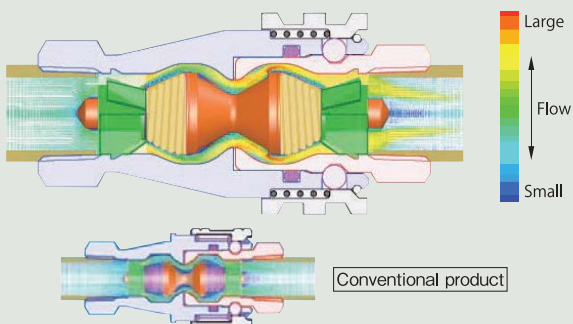
Air

New technology of twin valve model
Large and smooth flow assures efficient works and energy saving.



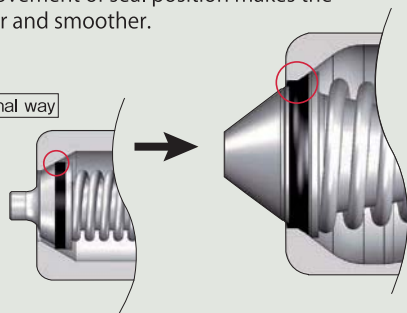
Features

1 Analyzing the factor of resistance to the flow in the inner structure, we found the solutions to reduce the loss.



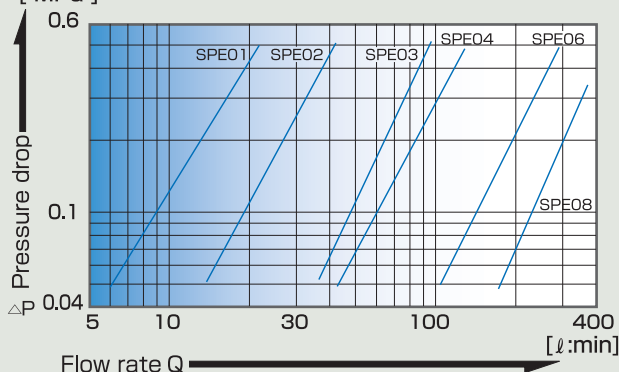
2 The improvement of seal position makes the flow larger and smoother.

Conventional way



Flow rate - Pressure drop characteristics

[Condition] • Fluid : Operating oil • Temperature : 50°C±5°C
[MPa] • Viscosity : 32x10⁻⁶m²/s



Comparison of the average flow

Model	Conventional ratio
CSPE01	130%
CSPE02	183%
CSPE03	160%
CSPE04	164%
CSPE06	188%
CSPE08	169%

*The measuring direction : flow from socket to plug

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

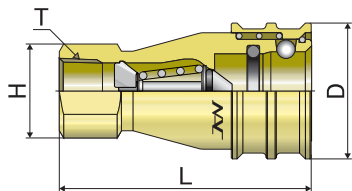
*1 By the environment of one's using, it has a case that the appropriate temperature differs from this table. Continuous use by above minimum/maximum temperature causes a leakage and so on.

*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.

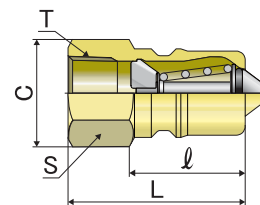
*4 Kalrez® is trademarks or registered trademarks of affiliates of DuPont de Nemours, Inc. Please contact us additionally on your order.

BRASS SOCKET



Model	Weight (g)	Connection size(T)	Dimensions(mm)		
			L	φD	H
CSPE01S2	71	Rc 1/8"	48	24	φ15/Face13
CSPE02S2	124	Rc 1/4"	58	28	φ20/Face17
CSPE03S2	200	Rc 3/8"	65	35	φ24/Face21
CSPE04S2	362	Rc 1/2"	72	45	φ30/Face26
CSPE06S2	664	Rc 3/4"	88	55	φ40/Face35
CSPE08S2	956	Rc 1"	102	65	φ47/Face41

PLUG



Model	Weight (g)	Connection size(T)	Dimensions(mm)			
			L	S	C	ℓ
CSPE01P2	17	Rc 1/8"	29	13	15	19
CSPE02P2	33	Rc 1/4"	36	17	20	22
CSPE03P2	56	Rc 3/8"	40	21	24	25
CSPE04P2	94	Rc 1/2"	44	26	30	28
CSPE06P2	203	Rc 3/4"	52	35	40	36
CSPE08P2	318	Rc 1"	62	41	47	40



Stainless steel
(SUS304)



Twin valve



Fluoro rubber



Water



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.

Stainless steel (SUS304) is approved for marine use by NIPPON KAIJI KYOKAI(NK).
Approval No. 10FV103B

SOCKET



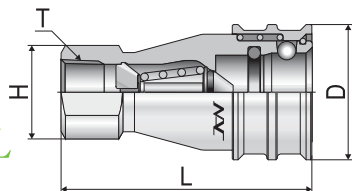
PLUG



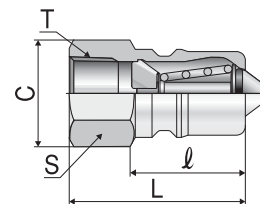
- Interchangeable with conventional SP TYPE.
- Male thread type is option.

STAINLESS STEEL (SUS304)

SOCKET



Model	Weight (g)	Connection size(T)	Dimensions(mm)		
			L	φD	H
CSPE01S3	66	Rc 1/8"	48	24	φ15/Face13
CSPE02S3	118	Rc 1/4"	58	28	φ20/Face17
CSPE03S3	192	Rc 3/8"	65	35	φ24/Face21
CSPE04S3	350	Rc 1/2"	72	45	φ30/Face26
CSPE06S3	628	Rc 3/4"	88	55	φ40/Face35
CSPE08S3	900	Rc 1"	102	65	φ47/Face41



PLUG

Model	Weight (g)	Connection size(T)	Dimensions(mm)			
			L	S	C	ℓ
CSPE01P3	15	Rc 1/8"	29	13	15	19
CSPE02P3	31	Rc 1/4"	36	17	20	22
CSPE03P3	54	Rc 3/8"	40	21	24	25
CSPE04P3	94	Rc 1/2"	44	26	30	28
CSPE06P3	193	Rc 3/4"	52	35	40	36
CSPE08P3	299	Rc 1"	62	41	47	40

Specifications

Model		CSPE01	CSPE02	CSPE03	CSPE04	CSPE06	CSPE08
Nominal size		1/8"	1/4"	3/8"	1/2"	3/4"	1"
Nominal pipe size		6A	8A	10A	15A	20A	25A
Body material		Brass, Stainless steel(SUS304)					
Connection type		Female thread only					
Packing material, Temperature range		*1 Fluoro rubber(FKM) : -20℃~+180℃					
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, Oil, etc.					

*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.

Flow's smallest area

Unit (mm²)

Model	CSPE01	CSPE02	CSPE03	CSPE04	CSPE06	CSPE08
Smallest area	18	33	66	101	214	327




NAGAHORI INDUSTRY CO., LTD.
NAC JAPAN <http://www.nac-corp.co.jp>