



QUICK COUPLINGS

HP TYPE

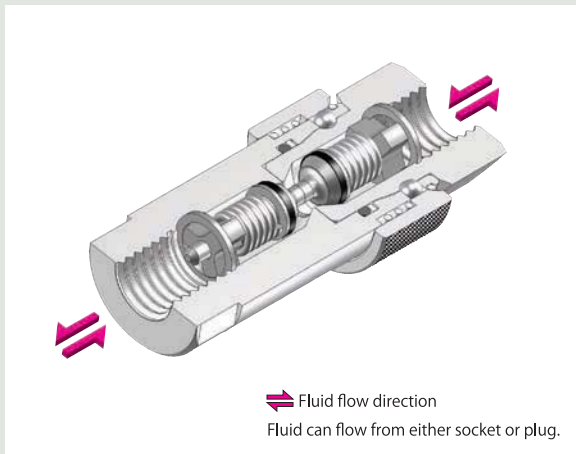
High pressure • Twin valve



NAGAHORI INDUSTRY CO., LTD.

HP TYPE High pressure(20.5MPa) Twin valve

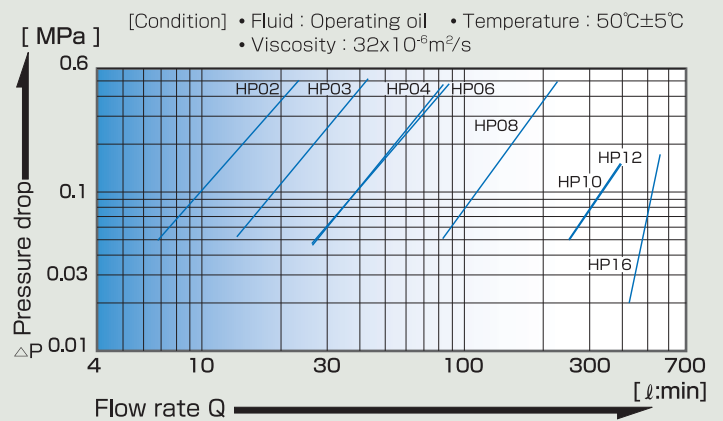
Model for Hydraulic equipment application
Chrome-molybdenum steel body withstands vibration and impact.
The heat treatment assures the durability.



Features

- For preventing unexpected disconnection, single sleeve lock and double sleeve lock are available as option.
- The male type is available as option.
- Please inform us when using for die casting machine in a large pressure variation.

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

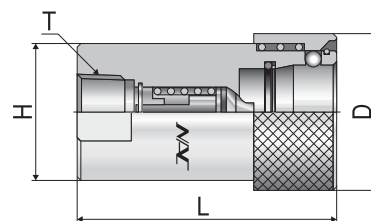
*1 By the environment of one's using, it has a case that the appropriate temperature differs from this table. Continuous use by above minimum/maximum temperature causes a leakage and so on.

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

Chrome-molybdenum steel(Zinc-plated) SOCKET

Model	Weight (g)	Connection size(T)	Dimensions(mm)		
			L	ϕD	H
CHP02S	148	Rc 1/4"	49	30	$\phi 24$ /Face19
CHP03S	234	Rc 3/8"	60	34.5	$\phi 28.5$ /Face23
CHP04S	498	Rc 1/2"	72	44	$\phi 38.5$ /Face35
CHP06S	470	Rc 3/4"	72	44	$\phi 38.5$ /Face35
CHP08S	1044	Rc 1"	93	58.5	$\phi 52$ /Face46
CHP10S	2798	Rc 1 1/4"	138	88	$\phi 64$ /Face58
CHP12S	2728	Rc 1 1/2"	138	88	$\phi 64$ /Face58
CHP16S	7290	Rc 2"	198	123	$\phi 90$ /Face80

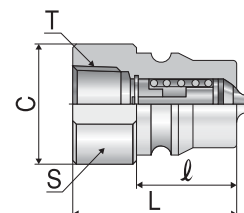
*CHP04 and CHP06, CHP10 and CHP12 can be connected.



PLUG

Model	Weight (g)	Connection size(T)	Dimensions(mm)			
			L	S	C	ℓ
CHP02P	40	Rc 1/4"	32	19	20.5	17.5
CHP03P	66	Rc 3/8"	38	23	25	22.5
CHP04P	122	Rc 1/2"	44	29	32	27.5
CHP06P	144	Rc 3/4"	50	32	35	27.5
CHP08P	364	Rc 1"	61	$\phi 47$ /Face41		36
CHP10P	884	Rc 1 1/4"	80	$\phi 64$ /Face58		58
CHP12P	812	Rc 1 1/2"	80	$\phi 64$ /Face58		58
CHP16P	3330	Rc 2"	115	$\phi 100$ /Face90		83

*CHP04 and CHP06, CHP10 and CHP12 can be connected.



*Please read "User safety guide" before operation.



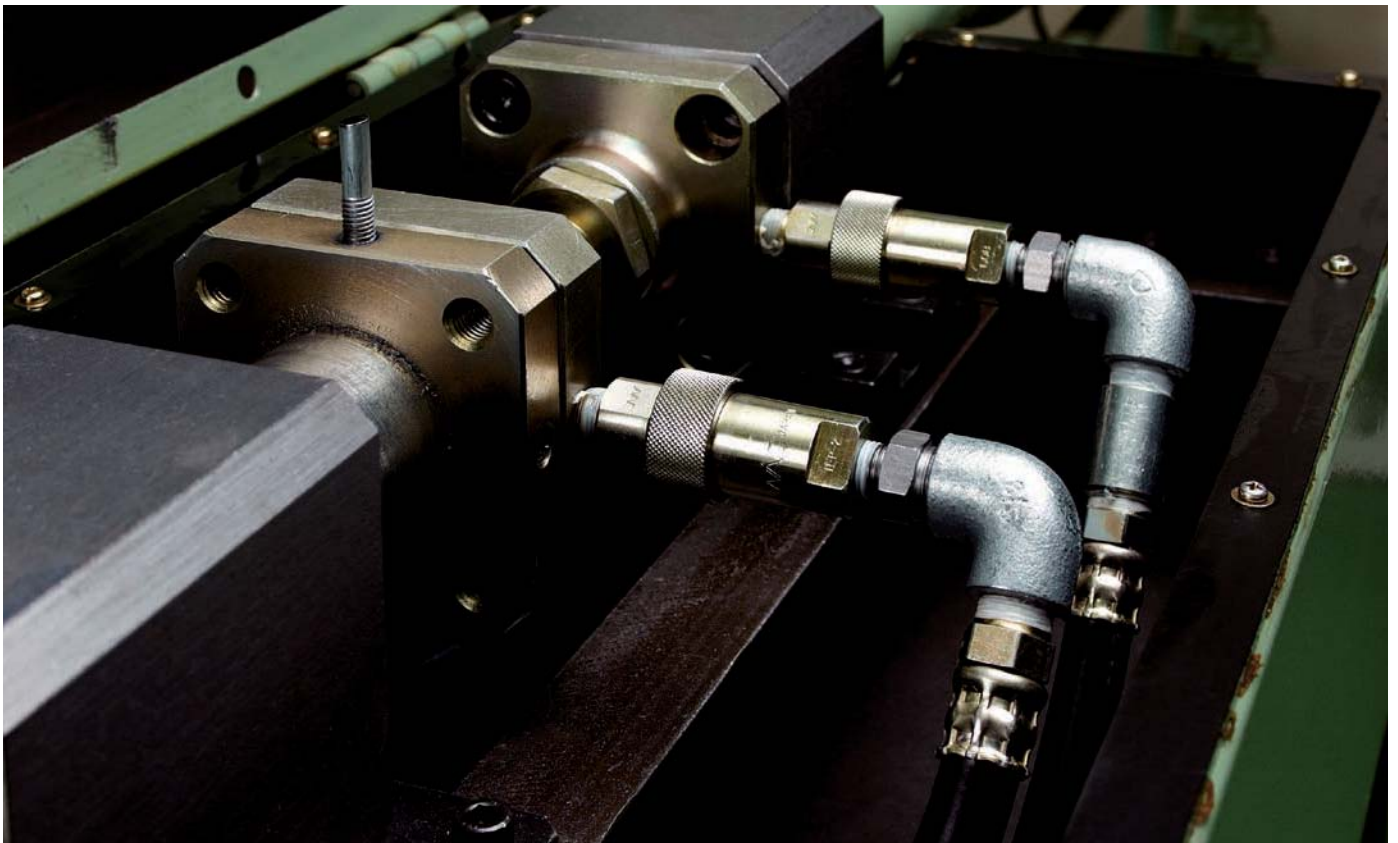
Cautions

- 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



Specifications

Model	CHP02	CHP03	CHP04	CHP06	CHP08	CHP10	CHP12	CHP16
Nominal size	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Nominal pipe size	8A	10A	15A	20A	25A	32A	40A	50A
Body material	Chrome-molybdenum steel(Zinc-plated)							
Connection type	Female thread only							
Packing material, Temperature range *1	Nitrile rubber(NBR) : -20℃~+80℃							
Normal pressure	20.5MPa					18.0MPa		14.0MPa
Maximum pressure	31.0MPa					26.5MPa		20.5MPa
Applicable fluid *2	Oil							

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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	CHP02	CHP03	CHP04	CHP06	CHP08	CHP10	CHP12	CHP16
Smallest area	21	37	77	77	203	595	595	1084




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