



QUICK COUPLINGS

ALseries TYPE10

Low pressure • Single valve



NAGAHORI INDUSTRY CO., LTD.

AL TYPE 10

Low pressure Single valve



Brass



Single valve

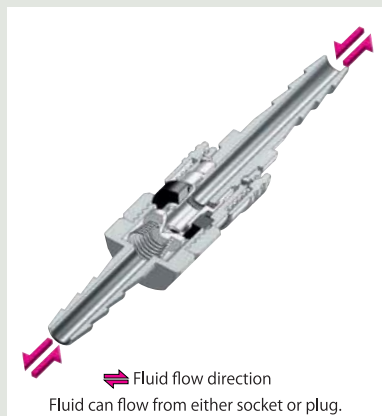


Nitrile rubber



Air

One hand operation works by lighter weight and one touch connection.



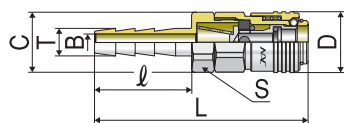
Features

- The light weight design reduces pneumatic operators' burden.
- One hand operation allows fast and easy connection and disconnection.
- Used in air piping, the least air leakage leads to longer lifetime of the compressor and then to saving of electricity.
- Sockets have automatic shut-off valve; fluid in the socket does not run out on disconnection.
- Sockets and plugs can be connected in all AL type10 couplings.
- Fluid can flow from either socket or plug.

Cautions

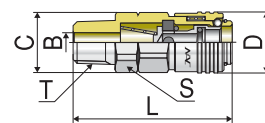
- Packing material should be selected for the applicable fluid.
- Scraps of the seal tape and dust cause fluid leakage. Be careful not to stick them on the couplings.
- Do not impact, hit, pull or bent.
- Do not dismantle. It causes damage to the couplings.

BRASS (Chrome-plated) SOCKET SH (Hose nipple)



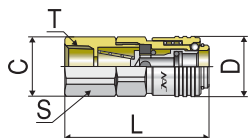
Model	Hose size	Dimensions (mm)							Weight (g)
		L	φD	S	C	φB	φT		
CAL12SH	1/4"	66	19	17	18.5	30	5	8.5	52

SM (Male thread)



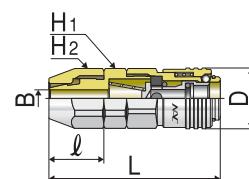
Model	Connection size (T)	Dimensions (mm)							Weight (g)
		L	φD	S	C	φB	φT		
CAL11SM	R 1/8"	45	19	17	18.5	5			48
CAL12SM	R 1/4"	49	19	17	18.5	6			53

SF (Female thread)



Model	Connection size (T)	Dimensions (mm)							Weight (g)
		L	φD	S	C	φB	φT		
CAL12SF	Rc 1/4"	45	19	17	18.5				54

SB (Polyurethane tube connection)



Model	Hose size φO.D. X φI.D.	Dimensions (mm)							Weight (g)
		L	φD	H ₁	H ₂	φB	φT		
CAL11SB	8 x 5	51	19	17	14	15	4		58
CAL12SB	10 x 6.5	53	19	17	17	17	5.3		64



Steel



Single valve



Nitrile rubber



Air

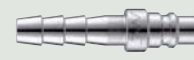


BRASS (Chrome-plated)

STEEL (Chrome-plated)



SH



PH



SM



PM



SF



PF



SB

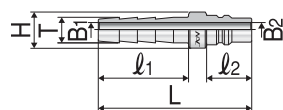


PB

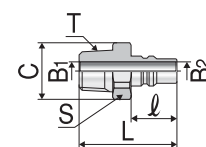
STEEL (Chrome-plated)

PLUG

PH (Hose nipple)

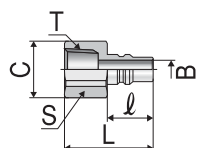


Model	Hose size	Dimensions (mm)							Weight (g)
		L	φH	ℓ ₁	ℓ ₂	φT	φB ₁	φB ₂	
CAL12PH	1/4"	51	12	30	15	8.5	5	5	17



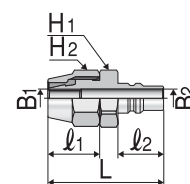
PM (Male thread)

Model	Connection size(T)	Dimensions(mm)						Weight (g)
		L	S	C	ℓ	ϕB ₁	ϕB ₂	
CAL11PM	R 1/8"	31	12	13	15	6	6	10
CAL12PM	R 1/4"	34	17	18.5	15	6	6	21



PF (Female thread)

Model	Connection size(T)	Dimensions(mm)					Weight (g)
		L	S	C	ℓ	ϕB	
CAL12PF	Rc 1/4"	29	17	18.5	15	6	20



PB (Polyurethane tube connection)

Model	Hose size φO.D. X φI.D.	Dimensions (mm)							Weight (g)
		L	H ₁	H ₂	ℓ ₁	ℓ ₂	φB ₁	φB ₂	
CAL11PB	8 x 5	37	14	14	15	15	4.5	6	23
CAL12PB	10 x 6.5	38	17	17	17	15	5.3	6	33

Specifications

Model		CAL11	CAL12
Nominal size		1/8"	1/4"
Nominal pipe size		6A	8A
Body material	Socket	Brass(Chrome-plated)	
	Plug	Steel(Chrome-plated)	
Connection type		Female thread, Male thread, Hose nipple, Polyurethane tube connection	
Packing material	Standard	Nitrile rubber(NBR) : -20℃~+ 80℃	
Temperature range ^{*1}	Option	Fluoro rubber(FKM) : -20℃~+180℃	
Normal pressure		1.0MPa	
Maximum pressure		1.5MPa	
Applicable fluid ^{*2}		Air	

*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	11PM	11PB	12PH	12PM	12PF	12PB
11SM	19.6	11.9	19.6	19.6	19.6	19.6
11SB	12.6	11.9	12.6	12.6	12.6	12.6
12SH	21.2	11.9	21.2	21.2	21.2	21.2
12SM	22.1	11.9	21.2	23.8	23.8	22.1
12SF	22.1	11.9	21.2	23.8	23.8	22.1
12SB	22.1	11.9	21.2	22.1	22.1	22.1




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