# For Multi-Port Connection (Automatic) Multi Cupla MALC-01 Type for Low Pressure Use One-way shut-off type for Low pressure use Working pressure Valve structure Applicable fluids Applicable fluids

# Solo use of socket is possible. Suitable for operation of ejector pins to open / close valve gates in molding.

- Solo use of socket is possible.
- As in the case of Multi Cupla MALC-SP type and MALC-HSP type, the distance between the socket plate and the plug plate is designed to be 30 mm when connected. This means the Multi Cupla MALC-01 type can also be installed mixed with any size of MALC-SP type and MALC-HSP type on the same plate.
- A 2 mm axial eccentricity allowance eliminates precise centering at installation.
- Compact size with "thread screw mount" and "with flange" types available.



Specifications							
Body material	Socket: Brass (Nickel plated) Plug: Brass (Nickel plated)						
Pressure unit	MPa	kgf/cm²		bar		PSI	
Working pressure	1.0		10	10		145	
Seal material	Sealing mater	ial	Mark		Working temperature range		
Working temperature range	nitrile rubber		NBR (SG)		-20°C to +80°C		

Max. Tightening Torque	Nm {kgf•cm}
Thread screw mount	15 {153}
Flange	1.5 {15}

## Interchangeability

Socket and plug of MALC-01 Type can be connected regardless of end configuration. Not interchangeable with MALC-SP Type (for medium pressure use) MALC-1SP or MALC-HSP Type (for high pressure use) MALC-1HSP.

Min. Cross-Sectional A	rea (mm²)
Min. cross-sectional area	28

# **Suitability for Vacuum**

Not suitable for vacuum application in either connected or disconnected condition.

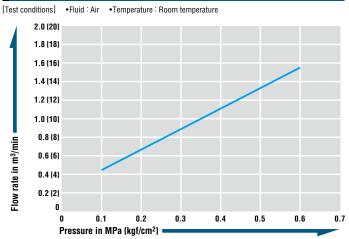
## Load Required to Maintain Connection When Line Is Pressurized

$$F = (P \times 160) + 50 \{ f = p \times 1.6 + 5 \}$$

Minimum load required to maintain connection F [N] {f [kgf]}
Actual value of pressure P [MPa] {p [kgf/cm²]}

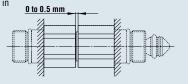
Assign the actual value of pressure [P (MPa), p (kgf/cm²)] to the above formula. Maintain the connection with this load [F (N), f (kgf)] or more. However, the maximum acceptable load is 500 N  $\{51\ kgf\}$ .

### **Pressure - Flow Characteristics**

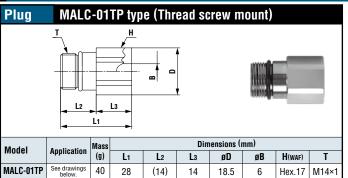


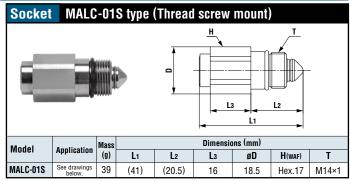
# Acceptable distance between plates

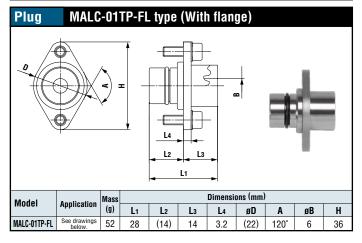
Socket and plug or plate must be used in contact with each other. Maximum 0.5 mm distance between socket and plug or plate is acceptable.

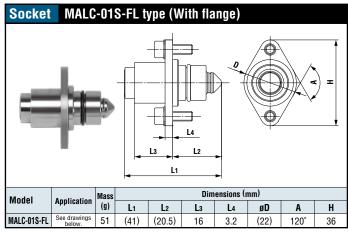


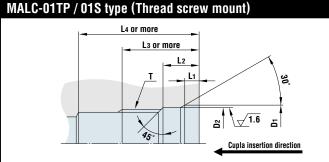












**Dimensions of End Configurations** 

