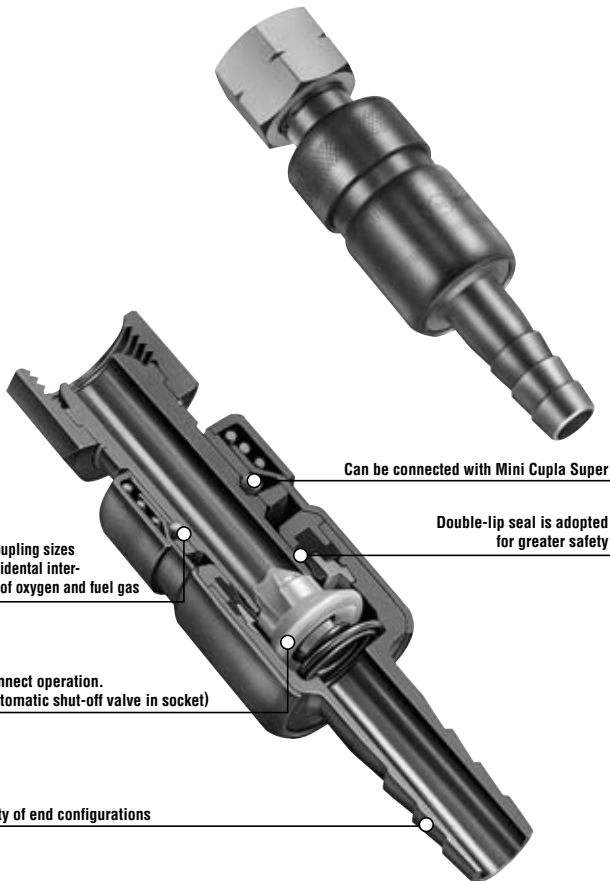


For Oxygen / Fuel Gas

Mini Cupla

Standard type for use on equipment for welding and gas cutting, etc.

Working pressure 0.7 0.7 MPa (7 kgf/cm ²)	Valve structure One-way shut-off	Applicable fluids Oxygen, Fuel Gas
-----------------------------------------------------------------------	--------------------------------------------	----------------------------------------------



Specifications				
Body material	Brass			
Size	1/4" • 5/16" • 3/8"			
Working pressure MPa (kgf/cm ²)	0.7 {7}			
Pressure resistance MPa (kgf/cm ²)	1.0 {10}			
Seal material	Seal material	Mark	Working temperature range	Remarks
Working temperature range	Nitrile rubber	NBR (SG)	-20°C~+80°C	Standard material

Max. Tightening Torque					N·m {kgf·cm}	
Model	22PF • 25PF • 33PF	22PFB • 33PFB	22SF • 33SF	22SM	33SM	
Torque	12 {122}	12 {122}	12 {122}	9 {92}	11 {112}	

Flow Direction

Fluid must run from socket to plug.

Interchangeability

To prevent accidental interconnection, no Cuplas for oxygen (1/4" and 5/16") can be connected with those for fuel gas Cuplas (5/16" and 3/8"). However, oxygen plugs and sockets are interchangeable by themselves and fuel gas plugs and sockets are interchangeable by themselves.

*Also interchangeable with Mini Cupla Super counterparts.

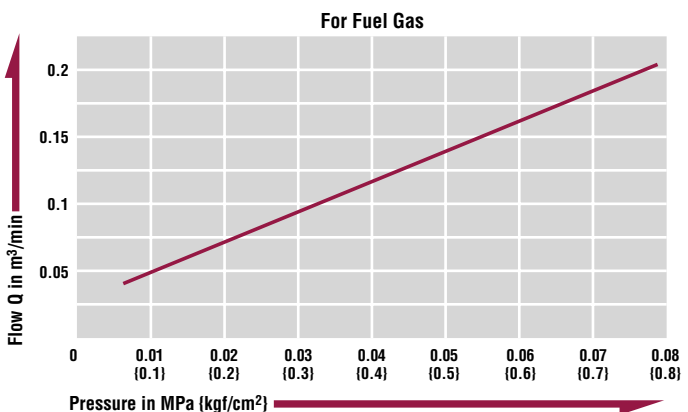
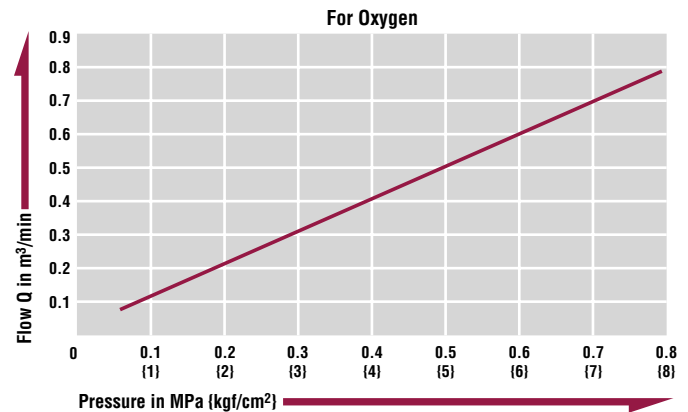
Min. Cross-Sectional Area			(mm ²)
Model	22SP • 25SP	33SP • 35SP	
Min. Cross-Sectional Area	20	44	

Suitability for Vacuum

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

Pressure - Flow Characteristics

[Test conditions] • Fluid : Air • Temperature : Room temperature



Exclusively for oxyacetylene equipment. Many variations with higher flow rates!

- From cylinders to torch, all piping connections associated with oxyacetylene equipment are now in push-to-connection configurations.
- Double-lip seal prevents minor leak during connection. Oxygen and fuel gas couplings have different sizes to prevent accidental inter-connection.
- Pressure loss is minimized to achieve higher flow rate.
- Various end configurations have been standardized to suit a wide range of oxyacetylene equipment applications. Sockets themselves or plugs themselves are interchangeable with Mini Cupla Super's counterparts.
- Line Cupla Mini is also available for multiple piping.

Structure and principle of backflow prevention

Plug with backflow stop valves

Plugs with backflow stop valve in Mini Cupla are designed exclusively for gas welding/cutting to prevent occurrence of gas mixing. Possible backflow of gas during operation can be stopped by cutting the back flow into the cylinder or line. Such valve is adopted in both fuel gas and oxygen plug.

Cross-section sketch showing the structure

