For Low Pressure

MINI CUPLA

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









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

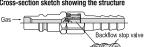
- From cylinders to torches, all piping connections associated with welding and cutting equipment are push-to-connect operations.
- Double-lip seal prevents minor leak during connection. Oxygen and fuel gas CUPLA have different sizes to prevent accidental interconnection.
- Pressure loss is minimized to achieve higher flow rate.
- Various types of end configurations have been standardized to comply with a wide range of welding and cutting equipment applications. Sockets themselves or plugs themselves are interchangeable with MINI CUPLA SUPER's



Structure and Principle of Backflow Prevention

Plug with backflow stop valve (22PHB, 25PHB, 22PFB, 33PHB, 35PHB, 33PFB)

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. Under gas supply Such valve is adopted in both fuel gas and oxygen plug.





Specifications								
Body material		Brass						
Size		1/8", 1/4", 3/8" / M16, W12.5-20						
OIZC	Hose barb	1/4", 5/16", 3/8"						
Pressure unit		MPa	kgf/cm²	bar	PSI			
Working pressure		0.7	7 7		102			
Seal material Working temperature range 1		Seal material	Mark	Working temperature range	Remarks			
		Nitrile rubber	NBR	-20°C to +80°C	Standard material			

^{*1:} The operable temperature range depends on the operating conditions.

Maximum Tightening Torque Nm {kgf ∙ cm				
Model	22PF, 22PFB, 22SF, 25PF, 33PF, 33PFB, 33SF	22SM	33SM	
Torque	12 {122}	9 {92}	11 {112}	

Flow Direction Fluid must run from socket to plug.

Interchangeability

To prevent accidental connection, CUPLA for oxygen are not interchangeable with CUPLA for fuel gas. However, plugs and sockets for oxygen are interchangeable regardless of end configurations and plugs and sockets for fuel gas are interchangeable regardless of end configurations.

*Interchangeable with MINI CUPLA SUPER.

Minimum Cross-Sectional Area

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Socket Plug	22PH	25PH	22PF	22PFF	25PF	22PHB	25PHB	22PFB	21PMT	22PMT
22SH	19.6	19.6	19.6	19.6	19.6	15.9	15.9	15.9	19.6	19.6
25SH	19.6	19.6	19.6	19.6	19.6	15.9	15.9	15.9	19.6	19.6
22SF	19.6	19.6	19.6	19.6	19.6	15.9	15.9	15.9	19.6	19.6
22SM	19.6	19.6	19.6	19.6	19.6	15.9	15.9	15.9	19.6	19.6

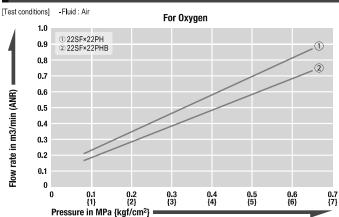
For Fuel Gas

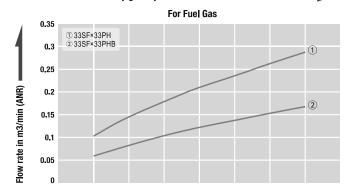
Socket Plug	33PH	35PH	33PF	33РНВ	35PHB	33PFB
33SH	44.1	28.2	44.1	15.9	15.9	15.9
35SH	28.2	28.2	28.2	15.9	15.9	15.9
33SF	19.6	19.6	19.6	15.9	15.9	15.9
33SM	44.1	28.2	44.1	15.9	15.9	15.9

Suitability for Vacuum

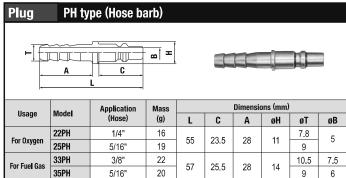
Not suitable for vacuum application in either connected or disconnected condition.

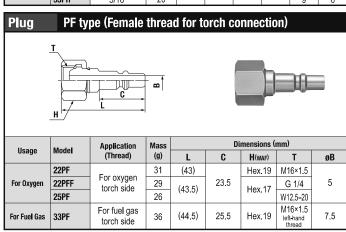
Pressure - Flow Characteristics

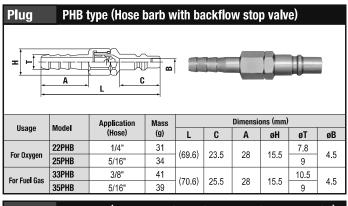


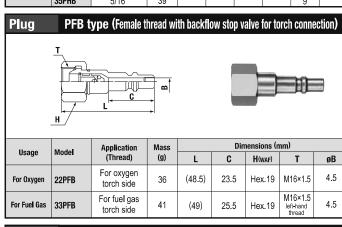


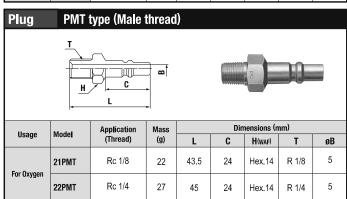
Models and Dimensions WAF: WAF stands for width across flats

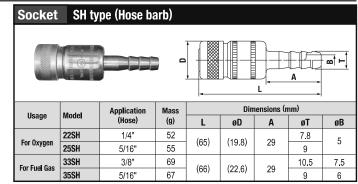


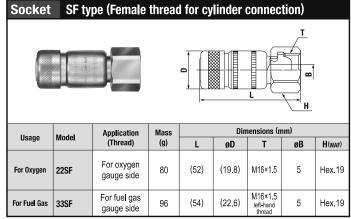


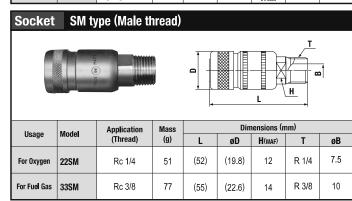


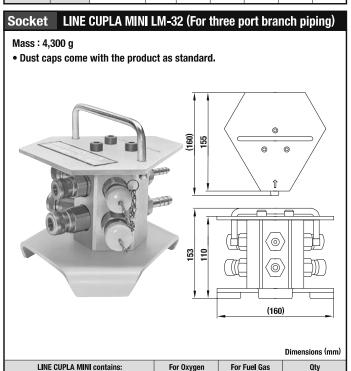












LINE CUPLA MINI contains:	For Oxygen	For Fuel Gas	Qty
Supply port	1/4"	3/8"	Each 1 pc.
Gas outlets	22SM	33SM	Each 3 pc.
Accessories (Plug with backflow stop valve)	22PHB	33PHB	Each 3 pc.