# **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 Cuplas 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 counterparts.

• Line Cupla Mini is also available for multiple piping.



Double-lip seal is adopted for greater safety

Different Cupla sizes prevent accidental interconnection of oxygen and fuel gas

Push-to-connect operation (Built-in automatic shut-off valve in socket)

Wide variety of end configurations

#### Structure and Principle of Backflow Prevention

#### Plug with backflow stop valve



Specifications										
Body mate	erial	Brass								
Size	Thread	1/8", 1/4", 3/8" / M16, W12.5-20								
0120	Hose barb	1/4", 5/16", 3/8"								
Pressure	unit	MPa	kgf/cm²	bar	PSI					
Working p	ressure	0.7	).7 7 7		102					
Seal material Working temperature range		Seal material	Mark	Working temperature range	Remarks					
		Nitrile rubber	NBR (SG)	-20°C to +80°C	Standard material					

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

### **Flow Direction**



#### Interchangeabilit

To prevent accidental interconnection, no Cuplas for oxygen can be connected with those for fuel gas Cuplas. However, oxygen plugs and sockets are interchangeable regardless of end configurations and fuel gas plugs and sockets are interchangeable regardless of end configurations.

Also Mini Cupla models for oxygen are interchangeable with Mini Cupla Super models for oxygen, while fuel gas models are interchangeable.

Min. Cross-Sectional Area (mm <sup>2</sup> )										
For Oxygen										
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	33P	'H	35PH	3	3PF	33P	HB	35PHB	3	3PFB

Socket	33PH	35PH	33PF	33PHB	35PHB	33858
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**

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



For Fuel Gas



#### Mini Cupla WAF : WAF stands for width across flats.



For Oxygen

22PMT

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45

24

Hex.14

Socket SH type (Hose barb)								
lloomo	Model	Application	Mass	Mass Dimensions (m				
Usaye		(Hose)	(g)	L	øD	Α	øT	øB
	22SH	1/4"	52	(0.1)	(10.0)	29	7.8	5
For uxygen	25SH	5/16"	55	(04)	(19.8)		9	5
For Fuel Gas	33SH	3/8"	69	(05)	(22.6)	00	10.5	7.5
	35SH	5/16"	67	(65)		29	9	6

## **Socket** SF type (Female thread for cylinder connection)

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Usage	Model	Application	Mass (g)	Dimensions (mm)					
				L	øD	Т	øB	H(WAF)	
For Oxygen	22SF	For oxygen gauge side	80	(52)	(19.8)	M16x 1.5	5	Hex.19	
For Fuel Gas	33SF	For fuel gas gauge side	96	(54)	(22.6)	M16x1.5 left-hand thread	5	Hex.19	

### Socket SM type (Male thread)



## Socket Line Cupla Mini LM-32 (For three port branch piping)



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• Dust caps come with the product as standard.



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.	

Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.