


Air Couplers

Chemical Resistant Type / 316 Stainless Steel

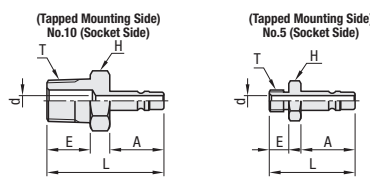
Air Couplers (Plugs) – Threaded

RoHS 10



MCPMSS


(Tapped Mounting Side) No.10 (Socket Side)
(Tapped Mounting Side) No.5 (Socket Side)



Material: 316 Stainless Steel

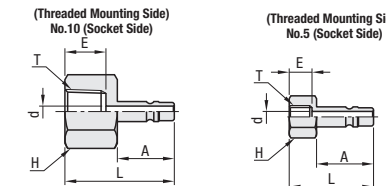
Air Couplers (Plugs) – Tapped

RoHS 10



MCPFSS


(Threaded Mounting Side) No.10 (Socket Side)
(Threaded Mounting Side) No.5 (Socket Side)



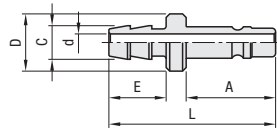
Material: 316 Stainless Steel

Air Couplers (Plugs) – Tube Connection

RoHS 10



MCPHSS



Material: 316 Stainless Steel

Part Number	Thread Dia.	L	A	E	Wrench Flats	Inner Dia.	Mass		
Type	No.	T			H	d	(g)		
MCPMSS	5	M5	19.8	12.5	4.5	8	2.4	3	
	10	R 1/8	27	10	12	2.4	9		
MCPFSS	5	M5	18.5	12.5	5	8	2.4	3	
	10	Rc 1/8	24	9	14	2.4	12		
MCPHSS	2.5	2.5	23.3	12.5	8	2.9	7	1.6	4
	4	4	4	4.7	8	2.4	12	12	

Specification

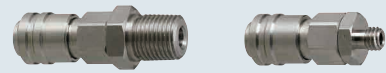
Type	Plugs / Sockets
Applicable Fluid	Air or Water
Operating Temperature Range	-15~180°C
Max. Operating Pressure	0.98 MPa
Pressure Resistant	1.47 MPa
Seal Material	Fluorine
Structure of Valve	Single Passage Opening Closing Type (Only socket has valve structure)

Features

- The socket has the embedded automatic valve which is excellent in pressure resistance.
- Made of 316 Stainless Steel and excellent in chemical and corrosion resistance.

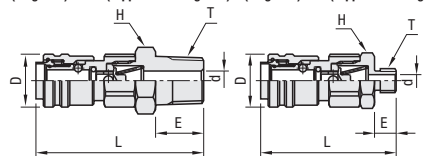
Air Couplers (Sockets) – Threaded

RoHS 10



MCSMSS

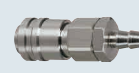
(Plug Side) No.10 (Tapped Mounting Side) (Plug Side) No.5 (Tapped Mounting Side)



Material: 316 Stainless Steel

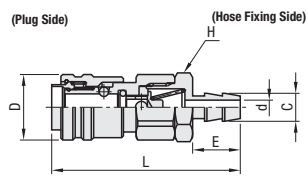
Air Couplers (Sockets) – Tube Connection

RoHS 10



MCSHSS

(Plug Side) (Hose Fixing Side)



Material: 316 Stainless Steel

Part Number	Thread Dia.	L	D	E	Wrench Flats	Inner Dia.	Mass	
Type	No.	T			H	d	(g)	
MCSMSS	5	M5	28.2	11	4.5	10	2.5	10
	10	R 1/8	34.9	10	12	4	16	


Part Number	Applicable Tube I.D.	L	D	C	E	H	Inner Dia.	Mass
Type	No.	I.D. (mm)					d	(g)
MCSHSS	2.5	2.5	30.7	11	2.9	7	1.6	12
	4	4	31.7	4.7	8	10	2.4	19

Part Number Example
MCPMSS5
MCSMSS10

High Chemical Resistant O-Rings

High-Heat Resistant O-Rings

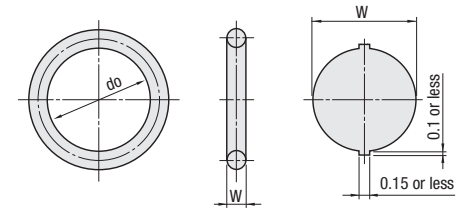
High Chemical Resistant O-Rings – High-Heat Resistant O-Rings



Type	Grade	Color	Max. Operating Temp.	Material
MPPEM	Chemical Resistant Grade	Black	260°C	Perfluoro Rubber
MPPEJ	Special Heat Resistant Grade	Black	320°C	

Features

- (1) Excellent resistance required in extreme conditions such as strong acid, strong alkali, amines, steam and high temperature polar solvent (260~320°C).
- (2) Low gas precipitation, with low out-gas property and can be used under high vacuum.
- (3) Heavy metal and molding agents are not used in the process of production.



P Series (For Mounting, Dynamic)

Part Number	Type	No.	Nominal Number	W	Inner Dia.		Matching Material								
					do	MPPEM / MPPEJ Tolerance	d	Tolerance	D	Tolerance					
MPPEM Chemical Resistant Grade		3	3	1.9±0.08	2.8	±0.16	3	0 -0.05	6	+0.05 0					
		4	4		3.8		7								
		5	5		4.8		8								
		6	6		5.8	±0.18	9								
		7	7		6.8		10								
		8	8		7.8	±0.19	11								
		9	9		8.8		12								
		10	10		9.8	±0.20	13								
		11	11		10.8	±0.21	15								
		12	12		11.8		16								
		14	14		13.8	±0.22	18								
		15	15		14.8		19								
		MPPEJ Special Heat Resistant Grade			16	16	2.4±0.09		15.8		±0.24	16	0 -0.06	20	+0.06 0
					18	18			17.8		±0.25	22			
					20	20			19.8		±0.26	24			
21	21			20.8	±0.27	25									
22	22			21.8		26									
24	24			23.7	±0.28	30									
25	25			24.7	±0.30	31									
26	26			25.7	±0.31	32									
28	28			27.7	±0.33	28									
29	29			28.7		29									
30	30			29.7	±0.34	30									
						36		±0.08 0							

Specifications

Type	Color	MPPEM	MPPEJ
		Chemical Resistant Grade	Special Heat Resistant Grade
Hardness (Shore)		75	74
Tensile Strength (kgf/cm ²)		216	161
Elongation (%)		183	205
Operating Temp. Range (°C)		260	320
Compression Set	200°C x 70h (%)	21	19
	230°C x 70h (%)	31	26

Part Number Example
MPPEM5

Chemical Resistance Data (MPPEM Chemical Resistant)

[Evaluation] A: V = -5% B: 5~20% C: 21~35%

Chemicals	Soaking Temperature	Soaking Time	Volume Change
	(°C)	(Day)	(V%)
Sodium Hydroxide (50%)	150	7	A
Ammonia Water (35%)	45	20	A
Ammonia	100	7	A
N-Butylamine	23	7	A
Formic Acid (12%)	100	7	B
Chlorosulfonic Acid	23	7	A
Hydrochloric Acid (37%)	24	28	B
Nitric Acid (65%)	40	30	B
Sulfuric Acid (94%)	70	14	A
Phosphoric Acid (45%)	60	7	A
Hydrogen Sulfide	70	7	A
Hydrogen Fluoride (50%)	80	7	B
MIBK (Methyl Isobutyl Ketone)	118	7	A
Dimethylformamide	153	7	B
1,2-Dichlorobenzene	180	7	B
Chlorobenzol	100	7	A
R123(CFC)	24	28	C
Steam	121	7	A
Phenol	220	7	A
Ethylene Oxide	23	7	A

*Data above are not guaranteed values but experimental value.
For actual use, confirm the applicability under specific conditions.