

# Gas-Mate Series



Eaton's Gas-Mate™ Series quick disconnect couplings are a one-way shut-off safety couplings designed for the connection of gas fired devices or applications.

## Product Features

- Connect and disconnect without the need for wrenches
- Automatic shut off when plug is removed from socket
- In case of fire, heat sensitive plug allows socket valve to close, stopping gas flow
- Tested to meet operating temperatures -40°F to 200°F (-40°C to 93°C) in sizes 3/8", 1/2", 3/4", and 1" when used in accordance with the CSA standard ANSI Z21.41b-2010/CSA 6.9b-2010 in both indoor and outdoor applications. Please note that the 1 1/4" size coupling is rated for indoor use only.
- Standard body material: Brass

## Physical Characteristics

Sizes	Max. Operating Pressure		Min. Burst Pressure		Rated Flow	
	(bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)
All sizes	0.03	0.5	68	1,000	See Chart	See Chart

## Applications & Markets

- Industrial
- Fuel Gas Systems
- Food & Beverage



CANADIAN  
STANDARDS  
ASSOCIATION\*

Complies with the requirements of  
ANSI Z21.41B-2010/CSA 6.96-2010.

\*CSA design certified, in both the United States and Canada, for natural gas, manufactured gas, liquified petroleum and LP gas-air mixtures at pressures not in excess of 1/2 psig (3.5 kPa).

## Capacities

Body Size (in)	Socket/Female P/N	Plug/Male P/N	Capacity (btu/hr)
3/8	100006E	100506	60,000
1/2	100008	100508	90,000
3/4	100010	100510	245,000
1	100012E	100512	310,000
1 1/4	GMS1250FH	GMP1250F	500,000

\*Capacity is based on natural gas having a specific gravity of 0.64 and heat capacity of 1,000 BTU per cubic foot. Inlet pressure is 12 inches water column and the pressure drop is 0.3 inch water column.

FLUID TRANSFER  
AND HYDRAULIC

PNEUMATIC

SPECIAL APPLICATIONS

DIAGNOSTIC

AGRICULTURE

REFRIGERANT

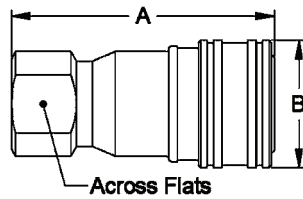


Figure 1

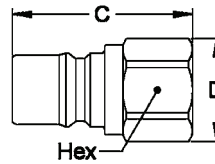


Figure 2

## Sockets/Females

Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions			A	B	Across Flats
							A	B	Across Flats			
							(in)	(in)	(in)	(mm)	(mm)	(mm)
100006E	Socket/Female	3/8	3/8	3/8-18	NPTF	1	2.44	1.13	0.87	62.0	28.7	22.1
100008	Socket/Female	1/2	1/2	1/2-14	NPTF	1	2.84	1.38	1.00	72.1	35.1	25.4
100010	Socket/Female	3/4	3/4	3/4-14	NPTF	1	3.17	1.75	1.31	80.5	44.5	33.3
100012E	Socket/Female	1	1	1-11 1/2	NPTF	1	3.94	2.13	1.50	100.1	54.1	38.1

Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions			A	B	Hex
							A	B	Hex			
							(in)	(in)	(in)	(mm)	(mm)	(mm)
GMS1250FH*	Socket/Female	1 1/4	1 1/4	1 1/4-11 1/2	NPTF	3	4.15	2.28	2.00	105.4	57.9	50.8

\*For indoor use only

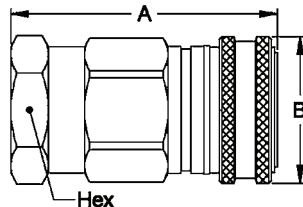


Figure 3

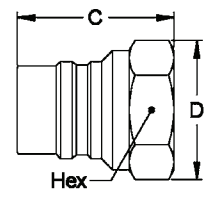


Figure 4

## Plugs/Males

Part Number	Coupling Type	Body Size	Port Size	Thread	Type	Fig.	Dimensions			C	D	Hex
							C	D	Hex			
							(in)	(in)	(in)	(mm)	(mm)	(mm)
100506	Plug/Male	3/8	3/8	3/8-18	NPTF	2	1.59	0.94	0.81	40.4	23.9	20.6
100508	Plug/Male	1/2	1/2	1/2-14	NPTF	2	1.94	1.15	1.00	49.3	29.2	25.4
100510	Plug/Male	3/4	3/4	3/4-14	NPTF	2	2.06	1.51	1.31	52.3	38.4	33.3
100512	Plug/Male	1	1	1-11 1/2	NPTF	2	2.47	1.73	1.50	62.7	43.9	38.1
GMP1250F*	Plug/Male	1 1/4	1 1/4	1 1/4-11 1/2	NPTF	4	2.44	2.17	1.88	62.0	55.1	47.8

\*For indoor use only

## Dust Caps and Dust Plugs

Series	Dust Cap		Dust Plug	
	Metal	Vinyl	Metal	Vinyl
3/8	PDC2HK*	PPDC2HK	PDC2HK*	PPDC2HK
1/2	PDC3HK*	PPDC3HK	PDC3HK*	PPDC3HK
3/4	PDC4HK**	PPDC4HK	PDC4HK**	PPDC4HK
1	PDC6HK**	PPDC6HK	PDC6HK**	PPDC6HK

\*Brass

\*\*Aluminum



CANADIAN STANDARDS ASSOCIATION\*

Complies with the requirements of ANSI Z21.41B-2010/CSA 6.96-2010.

\*CSA design certified, in both the United States and Canada, for natural gas, manufactured gas, liquefied petroleum and LP gas-air mixtures at pressures not in excess of 1/2 psig (3.5 kPa).