# **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 1¼" size coupling is rated for indoor use only.
- Standard body material: Brass

### **Physical Characteristics**

Sizes	Max. Operating Pressure		Min. Burst Press	sure	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.

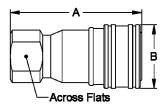
#### **Capacities**

Body Size	Socket/Female P/N	Plug/Male P/N	Capacity
(in)			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

<sup>\*</sup>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.

<sup>\*</sup>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).

# **Gas-Mate Series**



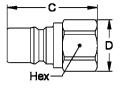


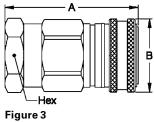
Figure 1

Figure 2

#### **Sockets/Females**

Coupling	Body	Port				Dime	ension	S			
Туре	Size	Size	Thread	Type	Fig.	Α	В	Across Flats	Α	В	Across Flats
						(in)	(in)	(in)	(mm)	(mm)	(mm)
Socket/Female	3/8	3/8	3/8-18	NPTF	1	2.44	1.13	0.87	62.0	28.7	22.1
Socket/Female	1/2	1/2	1/2-14	NPTF	1	2.84	1.38	1.00	72.1	35.1	25.4
Socket/Female	3/4	3/4	3/4-14	NPTF	1	3.17	1.75	1.31	80.5	44.5	33.3
Socket/Female	1	1	1-11 1/2	NPTF	1	3.94	2.13	1.50	100.1	54.1	38.1
Coupling Type	Body Size	Port Size	Thread	Туре	Fig.	Dime A	nsion B	s Hex	A	В	Hex
						(in)	(in)	(in)	(mm)	(mm)	(mm)
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
	Socket/Female Socket/Female Socket/Female Socket/Female Coupling	Socket/Female 3/8 Socket/Female 1/2 Socket/Female 3/4 Socket/Female 1 Coupling Body Size	Type Size Size  Socket/Female 3/8 3/8  Socket/Female 1/2 1/2  Socket/Female 3/4 3/4  Socket/Female 1 1  Coupling Body Port Size	Type         Size         Size         Thread           Socket/Female         3/8         3/8         3/8-18           Socket/Female         1/2         1/2         1/2-14           Socket/Female         3/4         3/4         3/4-14           Socket/Female         1         1         1-11 1/2           Coupling Type         Body Size         Port Size         Thread	Type         Size         Size         Thread         Type           Socket/Female         3/8         3/8         3/8-18         NPTF           Socket/Female         1/2         1/2         1/2-14         NPTF           Socket/Female         3/4         3/4         3/4-14         NPTF           Socket/Female         1         1         1-11 1/2         NPTF           Coupling Type         Body Size         Port Size         Thread         Type	Type         Size         Size         Thread         Type         Fig.           Socket/Female         3/8         3/8         3/8-18         NPTF         1           Socket/Female         1/2         1/2         1/2-14         NPTF         1           Socket/Female         3/4         3/4         3/4-14         NPTF         1           Socket/Female         1         1         1-11 1/2         NPTF         1           Coupling Type         Body Size         Thread         Type         Fig.	Type         Size         Size         Thread         Type         Fig.         A           Socket/Female         3/8         3/8         3/8-18         NPTF         1         2.44           Socket/Female         1/2         1/2         1/2-14         NPTF         1         2.84           Socket/Female         3/4         3/4         3/4-14         NPTF         1         3.17           Socket/Female         1         1         1-111/2         NPTF         1         3.94           Coupling Type         Body Size         Port Size         Thread         Type         Fig.         A           (in)	Type         Size         Size         Thread         Type         Fig.         A         B           Socket/Female         3/8         3/8         3/8-18         NPTF         1         2.44         1.13           Socket/Female         1/2         1/2         1/2-14         NPTF         1         2.84         1.38           Socket/Female         3/4         3/4         3/4-14         NPTF         1         3.17         1.75           Socket/Female         1         1         1-111/2         NPTF         1         3.94         2.13           Coupling Type         Body Size         Port Size         Thread         Type         Fig.         Dimersions A         B           (in)         (in)         (in)         (in)         (in)	Type         Size         Size         Thread         Type         Fig.         A         B         Across Flats           Socket/Female         3/8         3/8-18         NPTF         1         2.44         1.13         0.87           Socket/Female         1/2         1/2         1/2-14         NPTF         1         2.84         1.38         1.00           Socket/Female         3/4         3/4-14         NPTF         1         3.17         1.75         1.31           Socket/Female         1         1-111/2         NPTF         1         3.94         2.13         1.50           Coupling Type         Body Size         Thread         Type         Fig.         Dimensions         Hex           (in)         (in)         (in)         (in)         (in)	Type         Size         Size         Thread         Type         Fig.         A         B         Across Flats         A           Socket/Female         3/8         3/8 - 18         NPTF         1         2.44         1.13         0.87         62.0           Socket/Female         1/2         1/2         1/2-14         NPTF         1         2.84         1.38         1.00         72.1           Socket/Female         3/4         3/4-14         NPTF         1         3.17         1.75         1.31         80.5           Socket/Female         1         1         1-11 1/2         NPTF         1         3.94         2.13         1.50         100.1           Coupling Type         Body Size         Port Size         Thread         Type         Fig.         Dimensions         Hex         A           (in)         (in)         (in)         (in)         (in)         (in)         (in)	Type         Size         Size         Thread         Type         Fig.         A         B         Across Flats         A         B           Socket/Female         3/8         3/8         3/8-18         NPTF         1         2.44         1.13         0.87         62.0         28.7           Socket/Female         1/2         1/2         1/2-14         NPTF         1         2.84         1.38         1.00         72.1         35.1           Socket/Female         3/4         3/4-14         NPTF         1         3.17         1.75         1.31         80.5         44.5           Socket/Female         1         1         1-11 1/2         NPTF         1         3.94         2.13         1.50         100.1         54.1           Coupling Type         Body Size         Thread         Type         Fig.         Dimetrial         Hex         A         B           Image: April 1         1         1.11 1/2         1.75         1.31         1.50         100.1         54.1           Image: April 2         1         1.75         1.75         1.75         1.75         1.75         1.75         1.75         1.75         1.75         1.75         1.75

<sup>\*</sup>For indoor use only



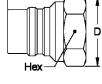


Figure 4

#### Plugs/Males

Part	Coupling	Body	Port				Dimensions					
Number	Туре	Size	Size	Thread	Type	Fig.	С	D	Hex	С	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

<sup>\*</sup>For indoor use only

## **Dust Caps and Dust Plugs**

Series	Dust Cap Metal	Vinyl	Dust Plug 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



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

<sup>\*</sup>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).

<sup>\*</sup>Brass

<sup>\*\*</sup>Aluminum