

# 600/700 Series



Eaton's 600/700 Series quick connect couplings are designed for use in oxyacetylene service. The 600/700 Series can also be used with compressed air and other gases.

## Product Features

- Safety sleeve lock prevents accidental disconnections
- Non-Interchangeable design prevents crossing of lines
- Color coded sleeves for easy identification: –600 green, –700 red
- Designed for use with compressed air and other gases
- OSHA compliant
- Standard body material: Brass
- Standard seal material: Buna-N

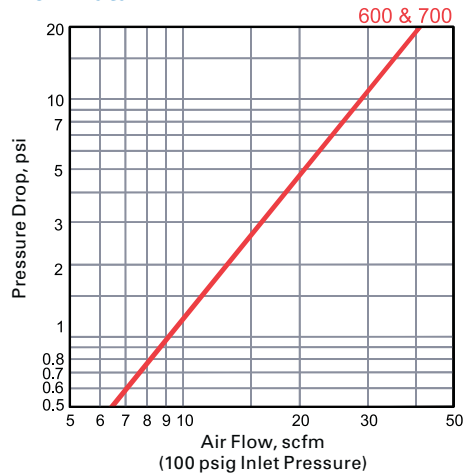
## Physical Characteristics

Series	Body Size	Max. Operating Pressure		Min. Burst Pressure		Rated Flow	
	(in)	(bar)	(psi)	(bar)	(psi)	(lpm)	scfm
600 & 700	1/4	103	1,500	412	6,000	595	21

## Applications & Markets

- Breathing Equipment
- Welding
- Shipyards
- General Pnuematics
- Construction
- Nitrous Oxide
- Series 600 couplings are not to be used with oxygen at pressures exceeding 100 psig.
- Series 700 couplings are not to be used with acetylene at pressures exceeding 15 psig.

## Flow Data



! Series 600 and 700 couplings with sleeve lock feature comply with OSHA requirements,\* which state couplings shall be a type that cannot be unlocked or disconnected by means of straight pull without rotary motion.

**! WARNING**

Oxygen increases combustibility. Fire and explosion could occur causing severe bodily injury or death. Be sure to select the proper coupling for your application and use it only within the specified service pressure range.

\*Series 600 and 700 couplings with sleeve lock feature comply with O.S.H.A. requirements, Sec. 1915.35 (f)(5), 1916.35 (f)(5), 1917.35 (f)(5), and 1926.350 (f)(5).

# 600 Series

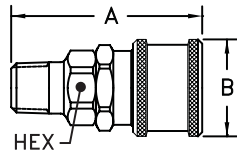


Figure 1

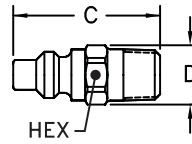


Figure 2

## Male End Connections

Part Number Standard*	Oxygen Service	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
									A	B	Hex	A	B	Hex
									(in)	(in)	(in)	(mm)	(mm)	(mm)
GR601	GR601SL	Socket/Female	1/4	1/8	1/8-27	NPTF	Brass	1	1.84	1.00	0.69	46.7	25.4	17.5
GR603	GR603SL	Socket/Female	1/4	1/4	1/4-18	NPTF	Brass	1	2.03	1.00	0.69	51.6	25.4	17.5
GR604R†	GR604RSL	Socket/Female	1/4	9/16	9/16-18	UNF	Brass	1	1.92	1.00	0.69	48.8	25.4	17.5
GR605	GR605SL	Socket/Female	1/4	3/8	3/8-18	NPTF	Brass	1	1.99	1.00	0.69	50.5	25.4	17.5

Part Number Standard*	Oxygen Service	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
									C	D	Hex	C	D	Hex
									(in)	(in)	(in)	(mm)	(mm)	(mm)
O1A	—	Plug/Male	1/4	1/8	1/8-27	NPTF	Brass	2	1.41	0.63	0.56	35.8	16.0	14.2
O3A	—	Plug/Male	1/4	1/4	1/4-18	NPTF	Brass	2	1.56	0.63	0.56	39.6	16.0	14.2
O4R†	—	Plug/Male	1/4	9/16	9/16-18	UNF	Brass	2	1.41	0.63	0.56	35.8	16.0	14.2

†R.H. Thread—30° Female Flare  
 \*Without sleeve lock

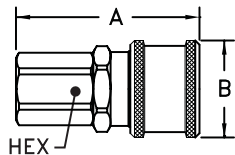


Figure 1

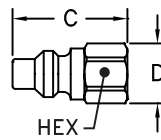


Figure 2

## Female End Connections

Part Number Standard*	Oxygen Service	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
									A	B	Hex	A	B	Hex
									(in)	(in)	(in)	(mm)	(mm)	(mm)
GR600	GR600SL	Socket/Female	1/4	1/8	1/8-27	NPTF	Brass	1	1.73	1.00	0.69	43.9	25.4	17.5
GR602	GR602SL	Socket/Female	1/4	1/4	1/4-18	NPTF	Brass	1	1.95	1.00	0.69	49.5	25.4	17.5
GR604	GR604SL	Socket/Female	1/4	3/8	3/8-18	NPTF	Brass	1	2.03	1.00	0.69	51.6	25.4	17.5
GR605R‡	GR605RSL	Socket/Female	1/4	9/16	9/16-18	UNF	Brass	1	1.95	1.00	0.69	49.5	25.4	17.5

Part Number Standard*	Oxygen Service	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	Dimensions					
									C	D	Hex	C	D	Hex
									(in)	(in)	(in)	(mm)	(mm)	(mm)
O0A	—	Plug/Male	1/4"	1/8	1/8-27	NPTF	Brass	2	1.22	0.63	0.56	31.0	16.0	14.2
O2A	—	Plug/Male	1/4"	1/4	1/4-18	NPTF	Brass	2	1.41	0.77	0.69	35.8	19.6	17.5
O5R‡	—	Plug/Male	1/4	9/16	9/16-18	UNF	Brass	2	1.38	0.77	0.69	35.1	19.6	17.5

‡R.H. Thread—Inverted Flare  
 \*Without sleeve lock

FLUID TRANSFER  
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PNEUMATIC

SPECIAL APPLICATIONS

DIAGNOSTIC

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# 600 Series

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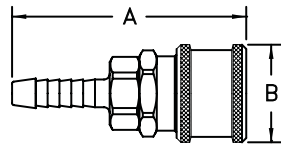


Figure 1

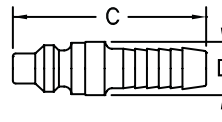
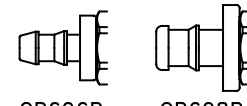


Figure 2



GR606P  
Figure 1A

GR608P

## Hose Stem End Connections

### Part Number

Standard*	Oxygen Service	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
							A	B	A	B
							(in)	(in)	(mm)	(mm)
GR606	GR606SL	Socket/Female	1/4	1/4	Brass	1	2.47	1.00	62.74	25.40
GR606P§	GR606PSL§	Socket/Female	1/4	1/4	Brass	1, 1A	2.24	1.00	56.90	25.40
GR607	GR607SL	Socket/Female	1/4	5/16	Brass	1	2.47	1.00	62.74	25.40
GR608	GR608SL	Socket/Female	1/4	3/8	Brass	1	2.47	1.00	62.74	25.40
GR608P§	—	Socket/Female	1/4	3/8	Brass	1, 1A	2.31	1.00	58.67	25.40

### Part Number

Standard*	Oxygen Service	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
							C	D	C	D
							(in)	(in)	(mm)	(mm)
07A	—	Plug/Male	1/4	1/4	Brass	2	2.03	0.56	51.56	14.22
08A	—	Plug/Male	1/4	5/16	Brass	2	2.03	0.56	51.56	14.22
09A	—	Plug/Male	1/4	3/8	Brass	2	2.04	0.56	51.82	14.22

§For use with push-on style hose

\*Without sleeve lock

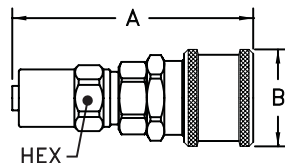


Figure 1

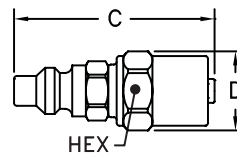


Figure 2

## Hose Clamp End Connections

### Part Number

Standard*	Oxygen Service	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions					
								A	B	Hex	A	B	Hex
								(in)	(in)	(in)	(mm)	(mm)	(mm)
GR60B3	GR60B3SL	Socket/Female	1/4	1/4	1/2	Brass	1	2.56	1.00	0.63	65.0	25.4	16.0
GR60B5	GR60B5SL	Socket/Female	1/4	1/4	9/16	Brass	1	2.56	1.00	0.69	65.0	25.4	17.5
GR60B7	GR60B7SL	Socket/Female	1/4	1/4	5/8	Brass	1	2.56	1.00	0.75	65.0	25.4	19.1
GR60C5	—	Socket/Female	1/4	5/16	9/16	Brass	1	2.62	1.00	0.69	66.5	25.4	17.5
GR60D7	—	Socket/Female	1/4	3/8	5/8	Brass	1	2.68	1.00	0.75	68.1	25.4	19.1
GR60D9	—	Socket/Female	1/4	3/8	11/16	Brass	1	2.68	1.00	0.81	68.1	25.4	20.6
GR60D11	—	Socket/Female	1/4	3/8	3/4	Brass	1	2.68	1.00	0.88	68.1	25.4	22.4

### Part Number

Standard*	Oxygen Service	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions					
								C	D	Hex	C	D	Hex
								(in)	(in)	(in)	(mm)	(mm)	(mm)
6B3	—	Plug/Male	1/4	1/4	1/2	Brass	2	2.13	0.70	0.63	54.1	17.8	16.0
6B5	—	Plug/Male	1/4	1/4	9/16	Brass	2	2.13	0.77	0.69	54.1	19.6	17.5
6B7	—	Plug/Male	1/4	1/4	5/8	Brass	2	2.13	0.84	0.75	54.1	21.3	19.1
6D7	—	Plug/Male	1/4	3/8	5/8	Brass	2	2.25	0.84	0.75	57.2	21.3	19.1
6D9	—	Plug/Male	1/4	3/8	11/16	Brass	2	2.25	0.91	0.81	57.2	23.1	20.6
6D11	—	Plug/Male	1/4	3/8	3/4	Brass	2	2.25	0.98	0.88	57.2	24.9	22.4

\*Without sleeve lock

PNEUMATIC

SPECIAL APPLICATIONS

DIAGNOSTIC

AGRICULTURE

REFRIGERANT

# 700 Series

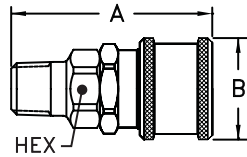


Figure 1

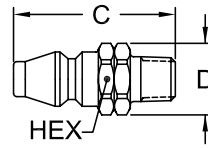


Figure 2

## Male End Connections

Part Number									Dimensions					
Standard*	Acetylene Service	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	A	B	Hex	A	B	Hex
									(in)	(in)	(in)	(mm)	(mm)	(mm)
RD701	—	Socket/Female	1/4	1/8	1/8-27	NPTF	Brass	1	1.85	1.00	0.69	47.0	25.4	17.5
RD703	RD703SL	Socket/Female	1/4	1/4	1/4-18	NPTF	Brass	1	2.04	1.00	0.69	51.8	25.4	17.5
RD704L†	RD704LSL	Socket/Female	1/4	9/16	9/16-18	UNF	Brass	1	1.93	1.00	0.69	49.0	25.4	17.5
RD705	RD705SL	Socket/Female	1/4	3/8	3/8-18	NPTF	Brass	1	2.00	1.00	0.69	50.8	25.4	17.5

Part Number									Dimensions					
Standard*	Acetylene Service	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	C	D	Hex	C	D	Hex
									(in)	(in)	(in)	(mm)	(mm)	(mm)
A1	—	Plug/Male	1/4	1/8	1/8-27	NPTF	Brass	2	1.47	0.63	0.56	37.3	16.0	14.2
A3P	—	Plug/Male	1/4	1/4	1/4-18	NPTF	Brass	2	1.63	0.63	0.56	41.4	16.0	14.2
A4L†	—	Plug/Male	1/4	9/16	9/16-18	UNF	Brass	2	1.50	0.63	0.56	38.1	16.0	14.2

†L.H. Thread—30° Female Flare  
 \*Without sleeve lock

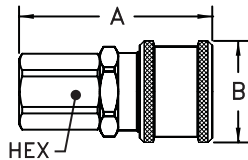


Figure 1

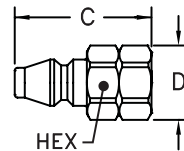


Figure 2

## Female End Connections

Part Number									Dimensions					
Standard*	Acetylene Service	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	A	B	Hex	A	B	Hex
									(in)	(in)	(in)	(mm)	(mm)	(mm)
RD700	RD700SL	Socket/Female	1/4	1/8	1/8-27	NPTF	Brass	1	1.74	1.00	0.69	44.2	25.4	17.5
RD702	RD702SL	Socket/Female	1/4	1/4	1/4-18	NPTF	Brass	1	1.96	1.00	0.69	49.8	25.4	17.5
RD704	RD704SL	Socket/Female	1/4	3/8	3/8-18	NPTF	Brass	1	2.04	1.00	0.69	51.8	25.4	17.5
RD705L‡	RD705LSL	Socket/Female	1/4	9/16	9/16-18	UNF	Brass	1	1.96	1.00	0.69	49.8	25.4	17.5

Part Number									Dimensions					
Standard*	Acetylene Service	Coupling Type	Body Size	Port Size	Thread	Type	Material	Fig.	C	D	Hex	C	D	Hex
									(in)	(in)	(in)	(mm)	(mm)	(mm)
A2	—	Plug/Male	1/4	1/4	1/4-18	NPTF	Brass	2	1.46	0.77	0.69	37.1	19.6	17.5
A5L‡	—	Plug/Male	1/4	9/16	9/16-18	UNF	Brass	2	1.38	0.77	0.69	35.1	19.6	17.5

‡L.H. Thread—Inverted Flare  
 \*Without sleeve lock

FLUID TRANSFER  
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SPECIAL APPLICATIONS

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# 700 Series

FLUID TRANSFER  
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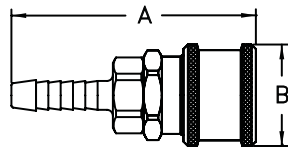


Figure 1

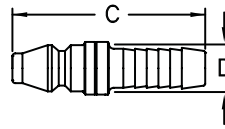
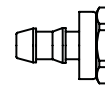
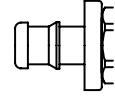


Figure 2



RD706P  
Figure 1A



RD708P

## Hose Stem End Connections

Part Number Standard*	Acetylene Service	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
							A	B	A	B
							(in)	(in)	(mm)	(mm)
RD706	RD706SL	Socket/Female	1/4	1/4	Brass	1	2.48	1.00	63.0	25.4
RD706P <sup>§</sup>	—	Socket/Female	1/4	1/4	Brass	1	2.25	1.00	57.2	25.4
RD707	RD707SL	Socket/Female	1/4	5/16	Brass	1	2.48	1.00	63.0	25.4
RD708	RD708SL	Socket/Female	1/4	3/8	Brass	1	2.48	1.00	63.0	25.4
RD708P	—	Socket/Female	1/4	3/8	Brass	1	2.32	1.00	58.9	25.4

Part Number Standard*	Acetylene Service	Coupling Type	Body Size	Hose I.D.	Material	Fig.	Dimensions			
							C	D	C	D
							(in)	(in)	(mm)	(mm)
A7	—	Plug/Male	1/4	1/4	Brass	2	2.00	0.56	50.8	14.2
A8	—	Plug/Male	1/4	5/16	Brass	2	2.06	0.56	52.3	14.2
A9	—	Plug/Male	1/4	3/8	Brass	2	2.10	0.56	53.3	14.2

§For use with push-on style hose  
\*Without sleeve lock

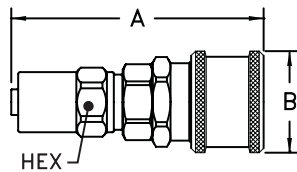


Figure 1

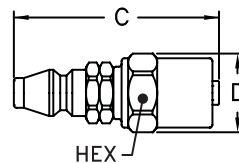


Figure 2

## Hose Clamp End Connections

Part Number Standard*	Acetylene Service	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions					
								A	B	Hex	A	B	Hex
								(in)	(in)	(in)	(mm)	(mm)	(mm)
RD70B3	RD70B3SL	Socket	1/4	1/4	1/2	Brass	1	2.57	1.00	0.63	65.3	25.4	16.0
RD70B7	—	Socket	1/4	1/4	5/8	Brass	1	2.57	1.00	0.75	65.3	25.4	19.1
RD70D7	—	Socket	1/4	3/8	5/8	Brass	1	2.69	1.00	0.75	68.3	25.4	19.1
RD70D9	—	Socket	1/4	3/8	11/16	Brass	1	2.69	1.00	0.81	68.3	25.4	20.6

Part Number Standard*	Acetylene Service	Coupling Type	Body Size	Hose I.D.	Hose O.D.	Material	Fig.	Dimensions					
								C	D	Hex	C	D	Hex
								(in)	(in)	(in)	(mm)	(mm)	(mm)
7B3	—	Plug	1/4	1/4	1/2	Brass	2	2.19	0.70	0.63	55.6	17.8	16.0
7B7	—	Plug	1/4	1/4	5/8	Brass	2	2.19	0.84	0.75	55.6	21.3	19.1

\*Without sleeve lock

## Dust Caps and Dust Plugs

Series	Dust Cap	Dust Plug
600	PPDC1HK	PSDC1HK
700	PPDC1HK	PSDC1HK



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