

L7000 Series Full Flow (Brass)



The Eaton L7000 Series brass quick disconnect coupling is a full-flow coupling suited for applications where maximum flow capacity is required and valving is not needed. Mainly used in fluid transfer applications where stainless steel is not a requirement, it can vehicle a wide range of media and offers good corrosion resistance.

Product Features

- Proprietary profile
- Full flow pull-to-connect couplings
- Ball-locking
- Excellent flow performance
- Standard Body Material: Nickel-plated brass
- Optional dust caps and plugs (made of anodized aluminium)
- Standard seal material: NBR, FKM, EPDM

European Pressure Equipment Directive*

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC.

Couplings with nominal diameters greater than 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC.

They should not be used to convey gases in Group 1 (hazardous).

* Group 1 = Hazardous media / Group 2 = Other media

Applications & Markets



- Pressure washing
- Steam-cleaning equipment
- Fluid transfer lines
- Refrigerant circuits
- Applications where maximum flow capacity is required



Physical Characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure (connected)*			
		Liquids in Groups 1 and 2		Gases in Group 2	
		bar	(psi)	bar	(psi)
1/8	8	300	4350	300	4350
1/4	10	230	3335	230	3335
3/8	12	175	2535	175	2535
1/2	15	150	2175	150	2175
3/4	20	125	1810	125	1810
1	25	100	1450	100	1450
1 1/4	33	60	870	30	435
1 1/2	40	50	725	25	360
2	50	40	580	20	290

* Nominal diameters over 25 mm should not be used to convey gases in Group 1 (as per PED 97/23 EC).

Flow data

The nominal flow diameter of the coupling has no impact on pressure drop, as it is wider than the circuit diameter.

Seal Elastomer Data*

Seal Elastomer	Max. Operation Temperature Range
NBR (Nitrile)	-20°C +100°C/-4°F +212°F
FKM (Fluorocarbon)	-20°C +200°C/-4°F +392°F
EPDM (Ethylene-Propylene)**	-40°C +150°C/-40°F +302°F

* For reference only, based on Eaton recommended temperatures.

** In accordance with NF L 17-241 or NAS 1613 rev. 5, depending on size.

Contact Eaton technical support for further information on fluid compatibility.

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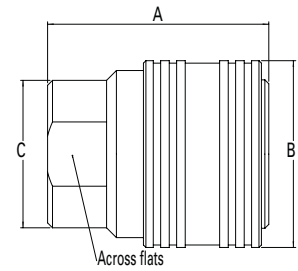


Fig. 1

Sockets (Female)

Part Number			Body Size (in)	Nominal Flow Diameter (mm)	Thread Size** (Female) BSPP	Fig.	Dimensions								Weight	
NBR*	FKM	EPDM					A (in)	B (in)	C (in)	Across flats (in)	A (mm)	B (mm)	C (mm)	Across flats (mm)	lbs	grams
LL0700100	LL07001V0	LL07001E0	1/8	8	1/8-28	1	1.63	0.94	0.83	0.63	41.5	24	21	16	0.21	95
LL0701100	LL07011V0	LL07011E0	1/4	10	1/4-19	1	1.42	1.10	0.83	0.75	36	28	21	19	0.21	96
LL0702100	LL07021V0	LL07021E0	3/8	12	3/8-19	1	1.50	1.34	1.02	0.90	38	34	26	23	0.31	142
LL0703100	LL07031V0	LL07031E0	1/2	15	1/2-14	1	1.77	1.50	1.18	1.06	45	38	30	27	0.43	195
LL0704100	LL07041V0	LL07041E0	3/4	20	3/4-14	1	2.20	1.89	1.50	1.38	56	48	38	35	0.86	391
LL0705100	LL07051V0	LL07051E0	1	25	1-11	1	2.40	2.05	1.77	1.61	61	52	45	41	1.07	484
-	LL07061V0	LL07061E0	1 1/4	33	1 1/4-11	1	2.64	2.95	2.36	2.16	67	75	60	55	2.37	1073
-	LL07071V0	LL07071E0	1 1/2	40	1 1/2-11	1	3.38	3.35	2.83	2.56	86	85	72	65	4.23	1920
-	LL07091V0	LL07091E0	2	50	2-11	1	3.46	3.82	3.27	2.95	88	97	83	75	4.52	2052

* Body sizes 1 1/4, 1 1/2 and 2 are supplied with FKM seals as a standard.

** Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and G (Fig. 2) together

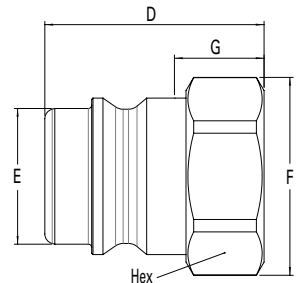


Fig. 2

Plugs (Male)

Part Number			Body Size (in)	Nominal Flow Diameter (mm)	Thread Size* (Female) BSPP	Fig.	Dimensions								Weight			
NBR	FKM	EPDM					D (in)	E (in)	F (in)	G (in)	Hex (in)	D (mm)	E (mm)	F (mm)	G (mm)	Hex (mm)	lbs	grams
LL0700200	LL07002V0	LL07002E0	1/8	8	1/8-28	2	1.02	0.43	0.72	0.41	0.63	26	11	18.4	10.5	16	0.05	21
LL0701200	LL07012V0	LL07012E0	1/4	10	1/4-19	2	1.00	0.56	0.82	0.41	0.75	25.5	14.2	21	10.5	19	0.06	29
LL0702200	LL07022V0	LL07022E0	3/8	12	3/8-19	2	1.10	0.75	1.02	0.42	0.90	28	19	26	10.7	23	0.11	50
LL0703200	LL07032V0	LL07032E0	1/2	15	1/2-14	2	1.30	0.81	1.18	0.51	1.06	33	20.6	30	13	27	0.13	59
LL0704200	LL07042V0	LL07042E0	3/4	20	3/4-14	2	1.57	1.10	1.50	0.55	1.38	40	27.9	38	14	35	0.28	129
LL0705200	LL07052V0	LL07052E0	1	25	1-11	2	1.73	1.27	1.77	0.73	1.61	44	32.4	45	18.5	41	0.38	171
LL0706200	LL07062V0	LL07062E0	1 1/4	33	1 1/4-11	2	2.12	1.73	2.36	0.83	2.16	54	44	60	21	55	1.03	466
LL0707200	LL07072V0	LL07072E0	1 1/2	40	1 1/2-11	2	2.32	2.10	2.83	0.87	2.56	59	53.5	71.9	22	65	1.59	722
LL0709200	LL07092V0	LL07092E0	2	50	2-11	2	2.68	2.47	3.27	1.06	2.95	68	62.8	83	27	75	2.04	923

* Alternative end connections available upon request.

To obtain connected length of coupling add dimensions A (Fig. 1) and G (Fig. 2) together.

Dust Plugs and Dust Caps

Body Size (in)	Socket Dust Plug Part Number	Plug Dust Cap Part Number
1/8	HD0510100	HD0510200
1/4	HD0511100	HD0511200
3/8	HD0512100	HD0512200
1/2	HD0513100	HD0513200
3/4	HD0514100	HD0514200
1	HD0515100	HD0515200
1 1/4	HD0516100	HD0516200
1 1/2	HD0517100	HD0517200
2	HD0519100	HD0519200



Eaton Quick Disconnect Couplings代理商

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45