

L7000 Series Full Flow (Steel)



The Eaton L7000 Series steel quick disconnect coupling is a full-flow coupling with a rugged construction. Similarly to Eaton H5000 Series, the heat treatment and hardened materials give the coupling excellent resistance to mechanical and hydraulic demands. It is suited for applications where maximum flow capacity is a requirement and valving is not needed.

Product Features

- Proprietary profile
- Full flow pull-to-connect couplings
- Ball-locking
- Excellent flow performance
- Standard Body Material: Zinc-plated steel (made of anodized aluminium)
- Optional dust caps and plugs
- 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 in accordance with the stipulations of Module A of the European Pressure

Equipment Directive 97/23 EC. They should not be used to convey unstable gases.

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

Applications & Markets



- 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)*			
		Non hazardous liquids & gases in Group 2		Hazardous liquids & gases in Group 1	
		bar	(psi)	bar	(psi)
3/8	8	1000	14500	1000	14500
1/4	10	700	10150	700	10150
3/8	12	600	8700	600	8700
1/2	15	500	7250	500	7250
3/4	20	400	5800	400	5800
1	25	300	4350	300	4350
1 1/4	33	200	2900	30	435
1 1/2	40	150	2175	24	345
2	50	100	1450	19	275

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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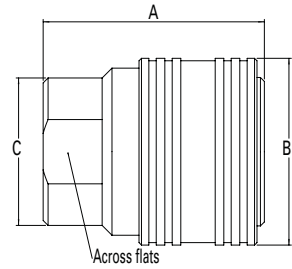


Fig. 1

Sockets (Female)

Part Number	FKM	EPDM	Body Size (in)	Nominal Flow Diameter (mm)	Thread Size** (Female)	Fig.	Dimensions								Weight	
							A (in)	B (in)	C (in)	Across flats (in)	A (mm)	B (mm)	C (mm)	Across flats (mm)	lbs	grams
LA0700100	LA07001V0	LA07001E0	1/8	8	1/8-28	1	1.63	0.94	0.83	0.63	41.5	24	21	16	0.19	86
LA0701100	LA07011V0	LA07011E0	1/4	10	1/4-19	1	1.42	1.10	0.83	0.75	36	28	21	19	0.19	87
LA0702100	LA07021V0	LA07021E0	3/8	12	3/8-19	1	1.50	1.34	1.02	0.90	38	34	26	23	0.28	129
LA0703100	LA07031V0	LA07031E0	1/2	15	1/2-14	1	1.77	1.50	1.18	1.06	45	38	30	27	0.39	177
LA0704100	LA07041V0	LA07041E0	3/4	20	3/4-14	1	2.20	1.89	1.50	1.38	56	48	38	35	0.78	355
LA0705100	LA07051V0	LA07051E0	1	25	1-11	1	2.40	2.05	1.77	1.61	61	52	45	41	0.97	440
-	LA07061V0	LA07061E0	1 1/4	33	1 1/4-11	1	2.64	2.95	2.36	2.16	67	75	60	55	2.15	975
-	LA07071V0	LA07071E0	1 1/2	40	1 1/2-11	1	3.38	3.35	2.83	2.56	86	85	72	65	3.85	1745
-	LA07091V0	LA07091E0	2	50	2-11	1	3.46	3.82	3.27	2.95	88	97	83	75	4.11	1865

* 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

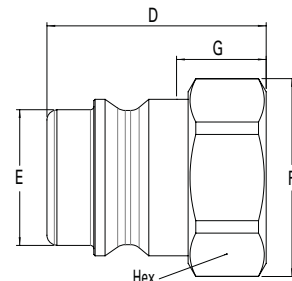


Fig. 2

Plugs (Male)

Part Number	FKM	EPDM	Body Size (in)	Nominal Flow Diameter (mm)	Thread Size* (Female)	Fig.	Dimensions								Weight			
							D (in)	E (in)	F (in)	G (in)	Hex (in)	D (mm)	E (mm)	F (mm)	G (mm)	Hex (mm)	lbs	grams
LA0700200	LA07002V0	LA07002E0	1/8	8	1/8-28	2	1.02	0.43	0.72	0.41	0.63	26	11	18.4	10.5	16	0.04	19
LA0701200	LA07012V0	LA07012E0	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	26
LA0702200	LA07022V0	LA07022E0	3/8	12	3/8-19	2	1.10	0.75	1.02	0.42	0.90	28	19	26	10.7	23	0.10	45
LA0703200	LA07032V0	LA07032E0	1/2	15	1/2-14	2	1.30	0.81	1.18	0.51	1.06	33	20.6	30	13	27	0.12	54
LA0704200	LA07042V0	LA07042E0	3/4	20	3/4-14	2	1.57	1.10	1.50	0.55	1.38	40	27.9	38	14	35	0.26	117
LA0705200	LA07052V0	LA07052E0	1	25	1-11	2	1.73	1.27	1.77	0.73	1.61	44	32.4	45	18.5	41	0.34	155
LA0706200	LA07062V0	LA07062E0	1 1/4	33	1 1/4-11	2	2.12	1.73	2.36	0.83	2.16	54	44	60	21	55	0.94	424
LA0707200	LA07072V0	LA07072E0	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	1.45	656
LA0709200	LA07092V0	LA07092E0	2	50	2-11	2	2.68	2.47	3.27	1.06	2.95	68	62.8	83	27	75	1.85	839

* 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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