

L7000 Series Full Flow (Steel)



Eaton's 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 trivalent plated steel
- 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 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)
1/8	8	1,000	14,500	1,000	14,500
1/4	10	700	10,150	700	10,150
3/8	12	600	8,700	600	8,700
1/2	15	500	7,250	500	7,250
3/4	20	400	5,800	400	5,800
1	25	300	4,350	300	4,350
1 1/4	33	200	2,900	30	435
1 1/2	40	150	2,175	24	345
2	50	100	1,450	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

L7000 Series Full Flow (Steel)

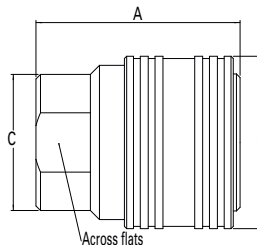


Figure 1

Sockets (Female)

Part Number			Body Size (in)	Nominal Flow Diameter (mm)	Thread Size** (Female)	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
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

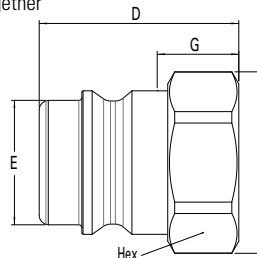


Figure 2

Plugs (Male)

Part Number			Body Size	Nominal Flow Diameter	Thread Size* (Female)	Dimensions										Weight		
NBR	FKM	EPDM	(in)	(mm)	BSPP	Fig.	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	⅝	8	⅝-28	2	1.02	0.43	0.72	0.41	0.63	26	11	18.4	10.5	16	0.04	19
LA0701200	LA07012V0	LA07012E0	¾	10	¾-19	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	⅞	12	⅞-19	2	1.10	0.75	1.02	0.42	0.90	28	19	26	10.7	23	0.10	45
LA0703200	LA07032V0	LA07032E0	1½	15	1½-14	2	1.30	0.81	1.18	0.51	1.06	33	20.6	30	13	27	0.12	54
LA0704200	LA07042V0	LA07042E0	¾	20	¾-14	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	1¼	33	1¼-11	2	2.12	1.73	2.36	0.83	2.16	54	44	60	21	55	0.94	424
LA0707200	LA07072V0	LA07072E0	1½	40	1½-11	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
	Anodized Aluminium	Anodized Aluminium
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

Socket Dust Plug



Plug Dust Cap



L7000 Series Full Flow (Brass)



Eaton's 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	4,350	300	4,350
1/4	10	230	3,335	230	3,335
3/8	12	175	2,535	175	2,535
1/2	15	150	2,175	150	2,175
3/4	20	125	1,810	125	1,810
1	25	100	1,450	100	1,450
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.

L7000 Series Full Flow (Brass)

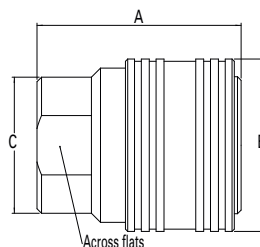


Figure 1

Sockets (Female)

Part Number			Body Size	Nominal Flow Diameter	Thread Size** (Female)	Dimensions										Weight	
NBR*	FKM	EPDM	(in)	(mm)	BSPP	Fig.	A (in)	B (in)	C (in)	Across flats (in)	A (mm)	B (mm)	C (mm)	Across flats (mm)	lbs	grams	
LL0700100	LL07001V0	LL07001E0	⅛	8	⅜-28	1	1.63	0.94	0.83	0.63	41.5	24	21	16	0.21	95	
LL0701100	LL07011V0	LL07011E0	¼	10	¼-19	1	1.42	1.10	0.83	0.75	36	28	21	19	0.21	96	
LL0702100	LL07021V0	LL07021E0	⅜	12	⅜-19	1	1.50	1.34	1.02	0.90	38	34	26	23	0.31	142	
LL0703100	LL07031V0	LL07031E0	½	15	½-14	1	1.77	1.50	1.18	1.06	45	38	30	27	0.43	195	
LL0704100	LL07041V0	LL07041E0	¾	20	¾-14	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 ¼	33	1 ¼-11	1	2.64	2.95	2.36	2.16	67	75	60	55	2.37	1073	
-	LL07071V0	LL07071E0	1 ½	40	1 ½-11	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

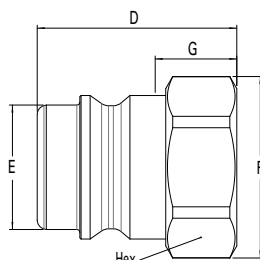


Figure 2

Plugs (Male)

Part Number			Body Size	Nominal Flow Diameter	Thread Size* (Female)	Dimensions											Weight	
NBR	FKM	EPDM	(in)	(mm)	BSPP	Fig.	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	⅛	8	⅛-28	2	1.02	0.43	0.72	0.41	0.63	26	11	18.4	10.5	16	0.05	21
LL0701200	LL07012V0	LL07012E0	¼	10	¼-19	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	⅜	12	⅜-19	2	1.10	0.75	1.02	0.42	0.90	28	19	26	10.7	23	0.11	50
LL0703200	LL07032V0	LL07032E0	½	15	½-14	2	1.30	0.81	1.18	0.51	1.06	33	20.6	30	13	27	0.13	59
LL0704200	LL07042V0	LL07042E0	¾	20	¾-14	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	1¼	33	1¼-11	2	2.12	1.73	2.36	0.83	2.16	54	44	60	21	55	1.03	466
LL0707200	LL07072V0	LL07072E0	1½	40	1½-11	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

Socket Dust Plug



Plug Dust Cap



L7000 Series

Full Flow (Stainless Steel)



Eaton's L7000 Series stainless steel 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 and offers excellent corrosion resistance.

Product Features

- Proprietary profile
- Full flow pull-to-connect couplings
- Ball-locking
- Excellent flow performance
- Standard body material: AISI 316L Stainless steel
- Optional dust caps and plugs (made of anodized aluminium)
- Standard seal material: 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 D1 of the European Pressure Equipment Directive 97/23 EC. They should not be used to convey unstable gases.

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)	
		bar	(psi)
1/8	8	300	4,350
1/4	10	230	3,335
3/8	12	175	3,535
1/2	15	150	2,175
3/4	20	125	1,810
1	25	100	1,450
1 1/4	33	100	1,450
1 1/2	40	75	1,085
2	50	40	580

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
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.

L7000 Series Full Flow (Stainless Steel)

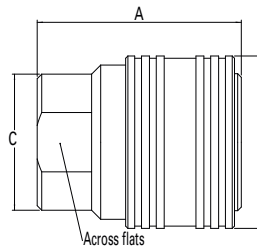


Figure 1

Sockets (Female)

Part Number		Body Size	Nominal Flow Diameter	Thread Size* (Female)	Dimensions									Weight	
FKM	EPDM	(in)	(mm)	BSPP	Fig.	A (in)	B (in)	C (in)	Across flats (in)	A (mm)	B (mm)	C (mm)	Across flats (mm)	lbs	grams
LZ07001V0	LZ07001E0	⅛	8	⅛-28	1	1.63	0.94	0.83	0.63	41.5	24	21	16	0.19	86
LZ07011V0	LZ07011E0	¼	10	¼-19	1	1.42	1.10	0.83	0.75	36	28	21	19	0.19	87
LZ07021V0	LZ07021E0	⅜	12	⅜-19	1	1.50	1.34	1.02	0.90	38	34	26	23	0.28	129
LZ07031V0	LZ07031E0	½	15	½-14	1	1.77	1.50	1.18	1.06	45	38	30	27	0.39	177
LZ07041V0	LZ07041E0	¾	20	¾-14	1	2.20	1.89	1.50	1.38	56	48	38	35	0.78	355
LZ07051V0	LZ07051E0	1	25	1-11	1	2.40	2.05	1.77	1.61	61	52	45	41	0.97	440
LZ07061V0	LZ07061E0	1¼	33	1¼-11	1	2.64	2.95	2.36	2.16	67	75	60	55	2.15	975
LZ07071V0	LZ07071E0	1½	40	1½-11	1	3.38	3.35	2.83	2.56	86	85	72	65	3.85	1745
LZ07091V0	LZ07091E0	2	50	2-11	1	3.46	3.82	3.27	2.95	88	97	83	75	4.11	1865

*Alternative end connections available upon request.

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

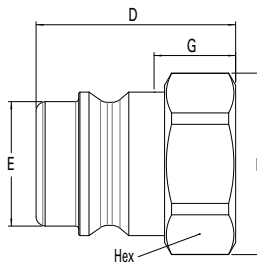


Figure 2

Plugs (Male)

Part Number		Body Size	Nominal Flow Diameter	Thread Size* (Female)	Dimensions											Weight	
FKM	EPDM	(in)	(mm)	BSPP	Fig.	D (in)	E (in)	F (in)	G (in)	Hex (in)	D (mm)	E (mm)	F (mm)	G (mm)	Hex (mm)	lbs	grams
LZ07002V0	LZ07002E0	⅛	8	⅛-28	2	1.02	0.43	0.72	0.41	0.63	26	11.0	18.4	10.5	16	0.04	19
LZ07012V0	LZ07012E0	¼	10	¼-19	2	1.00	0.56	0.82	0.41	0.75	25.5	14.2	21	10.5	19	0.06	26
LZ07022V0	LZ07022E0	⅜	12	⅜-19	2	1.10	0.75	1.02	0.42	0.90	28	19.0	26	10.7	23	0.10	45
LZ07032V0	LZ07032E0	½	15	½-14	2	1.30	0.81	1.18	0.51	1.06	33	20.6	30	13	27	0.12	54
LZ07042V0	LZ07042E0	¾	20	¾-14	2	1.57	1.10	1.50	0.55	1.38	40	27.9	38	14	35	0.26	117
LZ07052V0	LZ07052E0	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
LZ07062V0	LZ07062E0	1¼	33	1¼-11	2	2.12	1.73	2.36	0.83	2.16	54	44.0	60	21	55	0.94	424
LZ07072V0	LZ07072E0	1½	40	1½-11	2	2.32	2.10	2.83	0.87	2.56	59	53.5	71.9	22	65	1.45	656
LZ07092V0	LZ07092E0	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	Socket Dust Plug Part Number	Plug Dust Cap Part Number
(in)	Anodized Aluminium	Anodized Aluminium
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

Socket dust plug



Plug dust cap