

H5000 Series (Steel)



Eaton's H5000 Series steel quick disconnect coupling is a pull to connect double shut-off coupling. Featuring the original Eaton's Gromelle™ profile, it remains as the series users prefer when it comes to severe hydraulic applications such as high pressure, pressure impulses, heavy mechanical loads and frequent connection and disconnection cycles. The unique sleeve lock option offers a reliable solution and benefit to the end user when safety is a concern.

Product Features

- Proprietary profile
- Pull-to-connect with double shut-off valving
- Ball-locking
- Optional safety sleeve lock prevents accidental disconnections
- Optional dust caps and plugs (made of anodized aluminium)
- Pressure performance
- Standard body material: Zinc trivalent steel
- Standard seal material: NBR, FKM, EPDM
- The heat treatment of the plug and use of high strength steel for the socket sleeve provide superior mechanical and hydraulic performance. The design of the valve gives the coupling increased robustness when disconnected.

Physical Characteristics

Body Size (in)	Nominal Flow Diameter (mm)	Max. Operating Pressure*		Hazardous liquids & gases in Group 1		Rated Flow**		Fluid Loss ml-cc.
		Non hazardous liquids & gases in Group 2 (bar)	(psi)	(bar)	(psi)	(lpm)	(gpm)	
1/8	3.8	1,000	14,500	1,000	14,500	6.1	1.61	0.4
1/4	5.7	700	10,150	700	10,150	11.6	3.06	1
3/8	7.6	600	8,700	600	8,700	16.7	4.41	2
1/2	10.3	500	7,250	500	7,250	25.5	6.74	2.5
3/4	14.2	400	5,800	400	5,800	55	14.53	5.5
1	16.5	300	4,350	300	4,350	87	22.98	9
1 1/4	20.5	200	2,900	200	2,900	140	36.98	23
1 1/2	25.8	150	2,175	38	550	208	54.95	36
2	34.7	100	1,450	28	405	357	94.3	70

* For pulsating pressures when disconnected apply a multiplier of 0.5

** Indicated values refer to a 1 bar/14.5 psi pressure drop.

European Pressure Equipment Directive

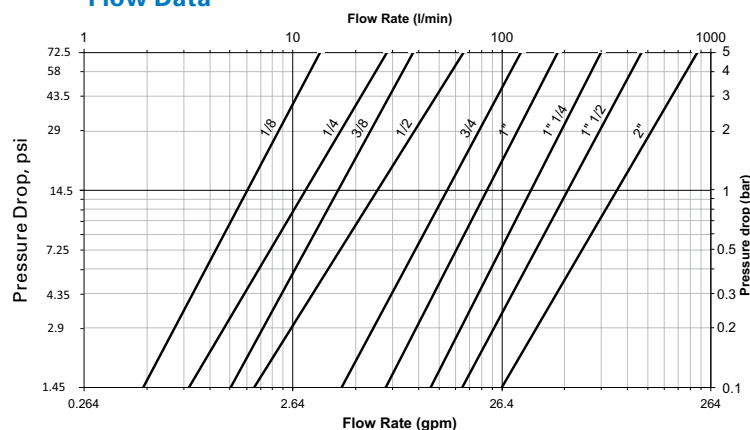
Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 3.3 of the European Pressure Equipment Directive 97/23 EC. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with the stipulations of Module A of the European 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

- Automobile
- Agriculture
- Construction
- Oil and Gas
- Railway
- Aeronautics
- Food processing
- Iron and Steel Industry
- Electronics
- Laboratories
- General hydraulic applications

Flow Data



Test Fluid: Oil viscosity 30 cSt at 40°C/104°F

Seal Elastomer Data*

Seal Elastomer	Max. Operation Temperature Range
NBR (Nitrile)	-20°C +100°C/-4°F +212°F
FKM	-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

Contact Eaton technical support for further information on fluid compatibility.

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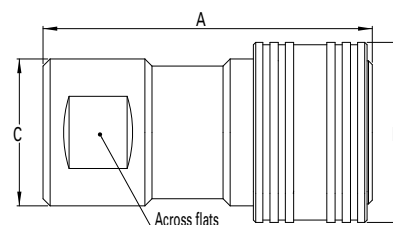


Figure 1

Sockets (Female)

Part Number			Body Size	Nominal Flow Diameter	Thread Size** (Female)			Fig.	Dimensions								Weight	
NBR*	FKM	EPDM			NPT	BSP	Metric		A (in)	B (in)	C (in)	Across flats (in)	A (mm)	B (mm)	C (mm)	Across flats (mm)	lbs	grams
HA0500100	HA05001V0	HA05001E0	1/8	3.8	-	1/8-28	-	1	1.65	0.94	0.83	0.63	42	24	21	16	0.19	88
HA0520100	HA05201V0	HA05201E0	1/8	3.8	1/8-27	-	-	1	1.65	0.94	0.83	0.63	42	24	21	16	0.19	88
HA0530100	HA05301V0	HA05301E0	1/8	3.8	-	-	M10x100	1	1.65	0.94	0.83	0.63	42	24	21	16	0.19	88
HA0501100	HA05011V0	HA05011E0	1/4	5.7	-	1/4-19	-	1	1.97	1.10	0.94	0.75	50	28	24	19	0.27	122
HA0521100	HA05211V0	HA05211E0	1/4	5.7	1/4-18	-	-	1	1.97	1.10	0.94	0.75	50	28	24	19	0.27	122
HA0531100	HA05311V0	HA05311E0	1/4	5.7	-	-	M14x150	1	1.97	1.10	0.94	0.75	50	28	24	19	0.27	122
HA0502100	HA05021V0	HA05021E0	3/8	7.6	-	3/8-19	-	1	2.32	1.34	1.10	0.90	59	34	28	23	0.43	197
HA0522100	HA05221V0	HA05221E0	3/8	7.6	3/8-18	-	-	1	2.32	1.34	1.10	0.90	59	34	28	23	0.43	197
HA0532100	HA05321V0	HA05321E0	3/8	7.6	-	-	M18x150	1	2.32	1.34	1.10	0.90	59	34	28	23	0.43	197
HA0503100	HA05031V0	HA05031E0	1/2	10.3	-	1/2-14	-	1	2.71	1.50	1.22	1.06	69	38	31	27	0.50	226
HA0523100	HA05231V0	HA05231E0	1/2	10.3	1/2-14	-	-	1	2.71	1.50	1.22	1.06	69	38	31	27	0.50	226
HA0533100	HA05331V0	HA05331E0	1/2	10.3	-	-	M22x150	1	2.71	1.50	1.22	1.06	69	38	31	27	0.50	226
HA0504100	HA05041V0	HA05041E0	3/4	14.2	-	3/4-14	-	1	3.50	1.89	1.57	1.38	89	48	40	35	1.27	577
HA0524100	HA05241V0	HA05241E0	3/4	14.2	3/4-14	-	-	1	3.50	1.89	1.57	1.38	89	48	40	35	1.27	577
HA0534100	HA05341V0	HA05341E0	3/4	14.2	-	-	M27x150	1	3.50	1.89	1.57	1.38	89	48	40	35	1.27	577
HA0505100	HA05051V0	HA05051E0	1	16.5	-	1-11	-	1	3.89	2.05	1.77	1.61	99	52	45	41	1.59	720
HA0525100	HA05251V0	HA05251E0	1	16.5	1-11 1/2	-	-	1	3.89	2.05	1.77	1.61	99	52	45	41	1.59	720
-	HA05061V0	HA05061E0	1 1/4	20.5	-	1 1/4-11	-	1	5.20	2.95	2.44	2.16	132	75	62	55	4.77	2,165
-	HA05071V0	HA05071E0	1 1/2	25.8	-	1 1/2-11	-	1	5.90	3.35	2.95	2.56	150	85	75	65	7.72	3,500
-	HA05091V0	HA05091E0	2	34.7	-	2-11	-	1	6.69	3.82	3.35	2.95	170	97	85	75	10.67	4,840

* 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 J (Fig. 3) together.

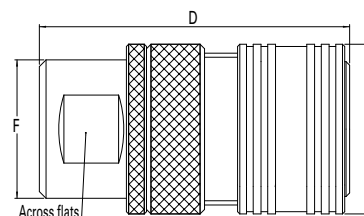


Figure 2

Sockets with Sleeve Lock (Female)

Part Number			Body Size	Nominal Flow Diameter	Thread Size** (Female)			Fig.	Dimensions								Weight	
NBR*	FKM	EPDM			NPT	BSP	Metric		D (in)	E (in)	F (in)	Across flats (in)	D (mm)	E (mm)	F (mm)	Across flats (mm)	lbs	grams
HA0500300	HA05003V0	HA05003E0	1/8	3.8	-	1/8-28	-	2	1.65	0.94	0.83	0.63	42	24	21	16	0.19	91
HA0520300	HA05203V0	HA05203E0	1/8	3.8	1/8-27	-	-	2	1.65	0.94	0.83	0.63	42	24	21	16	0.19	91
HA0530300	HA05303V0	HA05303E0	1/8	3.8	-	-	M10x100	2	1.65	0.94	0.83	0.63	42	24	21	16	0.19	91
HA0501300	HA05013V0	HA05013E0	1/4	5.7	-	1/4-19	-	2	1.97	1.10	0.94	0.75	50	28	24	19	0.27	134
HA0521300	HA05213V0	HA05213E0	1/4	5.7	1/4-18	-	-	2	1.97	1.10	0.94	0.75	50	28	24	19	0.27	134
HA0531300	HA05313V0	HA05313E0	1/4	5.7	-	-	M14x150	2	1.97	1.10	0.94	0.75	50	28	24	19	0.27	134
HA0502300	HA05023V0	HA05023E0	3/8	7.6	-	3/8-19	-	2	2.32	1.34	1.10	0.90	59	34	28	23	0.43	225
HA0522300	HA05223V0	HA05223E0	3/8	7.6	3/8-18	-	-	2	2.32	1.34	1.10	0.90	59	34	28	23	0.43	225
HA0532300	HA05323V0	HA05323E0	3/8	7.6	-	-	M18x150	2	2.32	1.34	1.10	0.90	59	34	28	23	0.43	225
HA0503300	HA05033V0	HA05033E0	1/2	10.3	-	1/2-14	-	2	2.71	1.50	1.22	1.06	69	38	31	27	0.50	310
HA0523300	HA05233V0	HA05233E0	1/2	10.3	1/2-14	-	-	2	2.71	1.50	1.22	1.06	69	38	31	27	0.50	310
HA0533300	HA05333V0	HA05333E0	1/2	10.3	-	-	M22x150	2	2.71	1.50	1.22	1.06	69	38	31	27	0.50	310
HA0504300	HA05043V0	HA05043E0	3/4	14.2	-	3/4-14	-	2	3.50	1.89	1.57	1.38	89	48	40	35	1.27	665
HA0524300	HA05243V0	HA05243E0	3/4	14.2	3/4-14	-	-	2	3.50	1.89	1.57	1.38	89	48	40	35	1.27	665
HA0534300	HA05343V0	HA05343E0	3/4	14.2	-	-	M27x150	2	3.50	1.89	1.57	1.38	89	48	40	35	1.27	665
HA0505300	HA05053V0	HA05053E0	1	16.5	-	1-11	-	2	3.89	2.05	1.77	1.61	99	52	45	41	1.59	813
HA0525300	HA05253V0	HA05253E0	1	16.5	1-11 1/2	-	-	2	3.89	2.05	1.77	1.61	99	52	45	41	1.59	813
-	HA05063V0	HA05063E0	1 1/4	20.5	-	1 1/4-11	-	2	5.20	2.95	2.44	2.16	132	75	62	55	4.77	2,230
-	HA05073V0	HA05073E0	1 1/2	25.8	-	1 1/2-11	-	2	5.90	3.35	2.95	2.56	150	85	75	65	7.72	3,585
-	HA05093V0	HA05093E0	2	34.7	-	2-11	-	2	6.69	3.82	3.35	2.95	170	97	85	75	10.67	5,658

* 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 D (Fig. 2) and J (Fig. 3) together.

FLUID TRANSFER
AND HYDRAULIC

PNEUMATIC

SPECIAL APPLICATIONS

DIAGNOSTIC

AGRICULTURE

REFRIGERANT

H5000 Series (Steel)

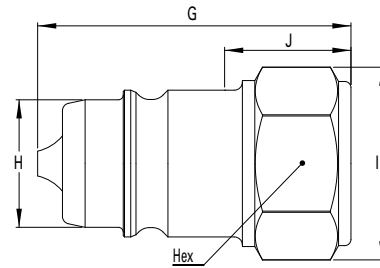


Figure 3

Plugs (Male)

Part Number			Nominal																Weight	
			Body	Flow																
NBR*	FKM	EPDM	Flow	Diameter	Thread Size** (Female)			Dimensions												
			(in)	(mm)	NPT	BSPP	Metric	Fig.	G (in)	H (in)	I (in)	J (in)	Hex (in)	G (mm)	H (mm)	I (mm)	J (mm)	Hex (mm)	lbs	grams
HA0500200	HA05002V0	HA05002E0	1/8	3.8	-	1/8-28	-	3	1.10	0.43	0.72	0.39	0.63	28	11	18.4	10	16	0.05	23
HA0520200	HA05202V0	HA05202E0	1/8	3.8	1/8-27	-	-	3	1.10	0.43	0.72	0.39	0.63	28	11	18.4	10	16	0.05	23
HA0530200	HA05302V0	HA05302E0	1/8	3.8	-	-	M10x100	3	1.10	0.43	0.72	0.39	0.63	28	11	18.4	10	16	0.05	23
HA0501200	HA05012V0	HA05012E0	1/4	5.7	-	1/4-19	-	3	1.38	0.56	0.86	0.55	0.75	35	14.2	21.8	14	19	0.08	37
HA0521200	HA05212V0	HA05212E0	1/4	5.7	1/4-18	-	-	3	1.38	0.56	0.86	0.55	0.75	35	14.2	21.8	14	19	0.08	37
HA0531200	HA05312V0	HA05312E0	1/4	5.7	-	-	M14x150	3	1.38	0.56	0.86	0.55	0.75	35	14.2	21.8	14	19	0.08	37
HA0502200	HA05022V0	HA05022E0	3/8	7.6	-	3/8-19	-	3	1.65	0.75	1.04	0.7	0.90	42	19	26.4	18	23	0.15	70
HA0522200	HA05222V0	HA05222E0	3/8	7.6	3/8-18	-	-	3	1.65	0.75	1.04	0.7	0.90	42	19	26.4	18	23	0.15	70
HA0532200	HA05322V0	HA05322E0	3/8	7.6	-	-	M18x150	3	1.65	0.75	1.04	0.7	0.90	42	19	26.4	18	23	0.15	70
HA0503200	HA05032V0	HA05032E0	1/2	10.3	-	1/2-14	-	3	1.97	0.81	1.22	0.94	1.06	50	20.6	31	24	27	0.20	92
HA0523200	HA05232V0	HA05232E0	1/2	10.3	1/2-14	-	-	3	1.97	0.81	1.22	0.94	1.06	50	20.6	31	24	27	0.20	92
HA0533200	HA05332V0	HA05332E0	1/2	10.3	-	-	M22x150	3	1.97	0.81	1.22	0.94	1.06	50	20.6	31	24	27	0.20	92
HA0504200	HA05042V0	HA05042E0	3/4	14.2	-	3/4-14	-	3	2.48	1.10	1.58	1.10	1.38	63	27.9	40.2	28	35	0.48	217
HA0524200	HA05242V0	HA05242E0	3/4	14.2	3/4-14	-	-	3	2.48	1.10	1.58	1.10	1.38	63	27.9	40.2	28	35	0.48	217
HA0534200	HA05342V0	HA05342E0	3/4	14.2	-	-	M27x150	3	2.48	1.10	1.58	1.10	1.38	63	27.9	40.2	28	35	0.48	217
HA0505200	HA05052V0	HA05052E0	1	16.5	-	1-11	-	3	2.79	1.27	1.87	1.22	1.61	71	32.4	47.5	31	41	0.63	287
HA0525200	HA05252V0	HA05252E0	1	16.5	1-11 1/2	-	-	3	2.79	1.27	1.87	1.22	1.61	71	32.4	47.5	31	41	0.63	287
-	HA05062V0	HA05062E0	1 1/4	20.5	-	1 1/4-11	-	3	3.82	1.85	2.49	1.89	2.16	97	46.9	63.2	48	55	1.98	900
-	HA05072V0	HA05072E0	1 1/2	25.8	-	1 1/2-11	-	3	4.29	2.20	2.94	2.04	2.56	109	56	74.7	52	65	3.30	1500
-	HA05092V0	HA05092E0	2	34.7	-	2-11	-	3	4.76	2.56	3.30	1.97	2.95	121	65	84	50	75	4.06	1840

* Body sizes 1/4, 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 J (Fig. 3) together for standard version ; add dimensions D (Fig. 2) and J (Fig. 3) together for sleeve lock version.

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

