

HK Series (Steel)

ISO 7241/1 B Interchange



Product Features

- Meets dimensional requirements to ISO standard 7241/1 Series B
- The coupling that set the industry standard
- Self-sealing poppet valve design provides excellent high and low pressure sealing
- Standard seal material-Buna-N. Seal options available in PTFE, Neoprene, Fluorocarbon, EPDM, and Kalrez®
- Standard body material- zinc-trivalent chromate plated steel with stainless steel springs, balls and retaining rings.
- PTFE back up rings in sockets (females)

Physical Characteristics

Body Size	ISO Size	Nominal Flow Diameter	Max. Operating Pressure		Rated Flow*		Air Inclusion	Fluid Loss
(in)	(mm)	(mm)	(bar)	(psi)	L/min	(gpm)	cc. max.	cc. max.
1/8	5	4.4	275	4000	3	0.8	0.6	0.5
1/4	6.3	5.9	345	5000	12	3	1.2	0.9
3/8	10	7.8	255	4000	23	6	2.9	2.1
1/2	12.5	10	345	5000	45	12	3.6	3.5
3/4	20	17	275	4000	100	26	11.5	9.3
1	25	19.6	275	4000	189	50	18.0	16.9
1 1/4**	-	26.7	118	1700	288	76	48.0	48.0
1 1/2	40	35.1	152	2200	375	99	91.3	91.3
2 1/2	50	46	104	1500	757	200	209.9	209.9

* For questions related to vacuum please contact Eaton.

** No ISO Standard available for the 10HK

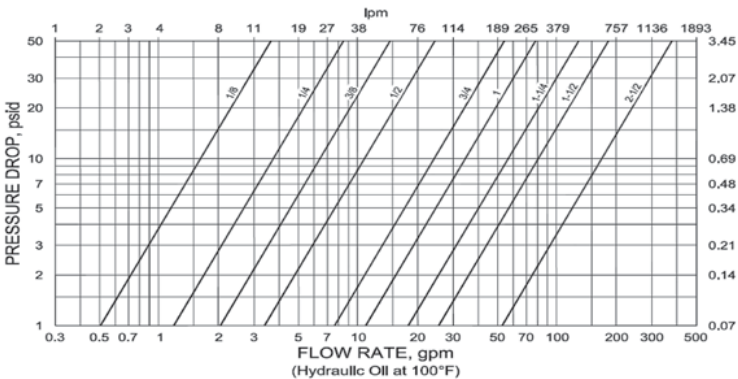
Applications & Markets



- Agriculture
- Hydraulic Tool
- General Industry
- Construction
- Fluid Transfer
- Transportation
- Military
- Law Enforcement/Rescue
- Chemical
- Oil and Gas
- Consumer Products
- HVAC
- Food and Beverage
- Trucks
- Aerospace
- Medical

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.



Seal Elastomer Data*

Seal Elastomer**	Max. Operation Temperature Range
Buna-N	-40°C to +121°C/40°F to +250°F
Neoprene	-54°C to +100°C/-65°F to +212°F
EPR (Ethylene Propylene Rubber)	-54°C to +149°C/-65°F to +300°F
Fluorocarbon	-29°C to +204°C/-15°F to +400°F

* For reference only, based on Eaton recommended temperatures.

** For seals not listed contact Eaton.

Contact Eaton technical support for further information on fluid compatibility.

HK Series (Steel)

ISO 7241/1 B Interchange

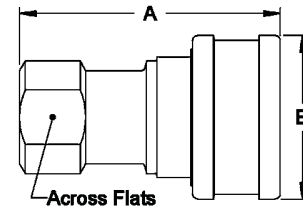


Fig. 1

Sockets (Female)

Part Number
HK1-8 Series

	Body Size	ISO Size	Thread Size (Female)			Fig.	Dimensions					
	(in)	(mm)	NPTF	BSPP	SAE		A (in)	B (in)	Across Flats (in)	A (mm)	B (mm)	Across Flats (mm)
1H11	1/8	5	1/8-27	-	-	1	1.91	0.98	0.56	48.5	24.9	14.2
1H4	1/8	5	-	-	7/16-20	1	2.06	0.98	0.69	52.3	24.9	17.5
2H16	1/4	6.3	1/4-18	-	-	1	2.26	1.14	0.75	57.4	29.0	19.1
2H16BS	1/4	6.3	-	1/4-19	-	1	2.31	1.14	0.75	58.7	29.0	19.1
2H6	1/4	6.3	-	-	5/16-18	1	2.40	1.14	0.88	61.0	29.0	22.4
3H21	3/8	10	3/8-18	-	-	1	2.56	1.42	0.88	65.0	36.1	22.4
3H21BS	3/8	10	-	3/8-19	-	1	2.56	1.42	0.88	65.0	36.1	22.4
3H8	3/8	10	-	-	3/4-16	1	2.74	1.42	1.00	69.6	36.1	25.4
4HP26	1/2	12.5	1/2-14	-	-	1	2.96	1.86	1.13	75.2	47.2	28.7
4HP26BS	1/2	12.5	-	1/2-14	-	1	2.96	1.86	1.13	75.2	47.2	28.7
4HP10	1/2	12.5	-	-	1/2-14	1	3.05	1.86	1.25	77.5	47.2	31.8
6HP31	3/4	20	3/4-14	-	-	1	3.48	2.22	1.31	88.4	56.4	33.3
6HP31BS	3/4	20	-	3/4-14	-	1	3.48	2.22	1.31	88.4	56.4	33.3
6HP12	3/4	20	-	-	1 1/8-12	1	3.67	2.22	1.38	93.2	56.4	35.1
8HP36	1	25	1-11 1/2	-	-	1	4.13	2.61	1.75	104.9	66.3	44.5
8HP36BS	1	25	-	1-11	-	1	4.13	2.61	1.75	104.9	66.3	44.5
8HP16	1	25	-	-	1 1/8-12	1	4.13	2.61	1.88	104.9	66.3	47.8

A=Overall Length, B=Maximum Diameter

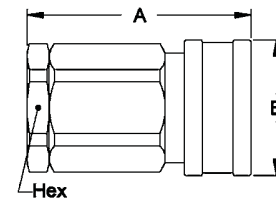


Fig. 2

Sockets (Female)

Part Number
HK10/12/20 Series

	Body Size	ISO Size	Thread Size (Female)		Fig.	Dimensions					
	(in)	(mm)	NPTF	BSPP		A (in)	B (in)	Hex (in)	A (mm)	B (mm)	Hex (mm)
10H41*	1 1/4	-	1 1/4-11 1/2	-	2	4.51	2.73	2.38	114.6	69.3	60.5
10H41BS*	1 1/4	-	-	1 1/4-11	2	4.51	2.73	2.38	114.6	69.3	60.5
12H41	1 1/2	40	1 1/4-11 1/2	-	2	4.82	3.23	2.38	122.4	82.0	60.5
12H41BS	1 1/2	40	-	1 1/4-11	2	4.82	3.23	2.38	122.4	82.0	60.5
12H46	1 1/2	40	1 1/2-11 1/2	-	2	4.82	3.23	2.38	122.4	82.0	60.5
12H46BS	1 1/2	40	-	1 1/2-11	2	4.82	3.23	2.38	122.4	82.0	60.5
20H51	2 1/2	50	2-11 1/2	-	2	5.55	4.11	3.75	141.0	104.4	95.3
20H51BS	2 1/2	50	-	2-11	2	5.55	4.11	3.75	141.0	104.4	95.3
20H56	2 1/2	50	2 1/2-8	-	2	6.14	4.11	3.75	156.0	104.4	95.3
20H56BS	2 1/2	50	-	2 1/2-11	2	6.14	4.11	3.75	156.0	104.4	95.3
20H61	2 1/2	50	3-8	-	2	7.00	4.11	4.00	177.8	104.4	101.6
20H61BS	2 1/2	50	-	3-11	2	7.00	4.11	4.00	177.8	104.4	101.6

A=Overall Length, B=Maximum Diameter

* ISO 7241-1 Series B does not include 1-1/4 inch body size couplings; therefore, Series 10HK is not covered by this standard
To obtain connected length of coupling add Dimensions A and E together.

HK Series (Steel)

ISO 7241/1 B Interchange

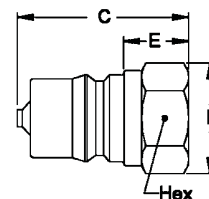


Fig. 3

Plugs (Male)

Part Number HK1-8 Series	High Impulse	Body Size	ISO Size	Thread Size (Female)			Fig.	Dimensions							
				NPTF	BSPP	SAE		C (in)	D (in)	E (in)	Hex (in)	C (mm)	D (mm)	E (mm)	Hex (mm)
1K11	-	1/8	5	1/8-27	-	-	3	1.26	0.65	0.44	0.56	32.0	16.5	11.2	14.2
1K4	-	1/8	5	-	-	7/16-20	3	1.41	0.79	0.59	0.69	35.8	20.1	15.0	17.5
2K16	2K16C	1/4	6.3	1/4-18	-	-	3	1.52	0.87	0.56	0.75	38.6	22.1	14.2	19.1
2K16BS	-	1/4	6.3	-	1/4-19	-	3	1.52	0.87	0.56	0.75	38.6	22.1	14.2	19.1
2K6	2K6C	1/4	6.3	-	-	9/16-18	3	1.66	1.01	0.70	0.88	42.2	25.7	17.8	22.4
3K21	3K21C	3/8	10	3/8-18	-	-	3	1.76	1.01	0.61	0.88	44.7	25.7	15.5	22.4
3K21BS	-	3/8	10	-	3/8-19	-	3	1.76	1.01	0.61	0.88	44.7	25.7	15.5	22.4
3K8	3K8C	3/8	10	-	-	3/4-16	3	1.94	1.15	0.79	1.00	49.3	29.2	20.1	25.4
4KP26	4KP26	1/2	12.5	1/2-14	-	-	3	2.03	1.30	0.76	1.13	51.6	33.0	19.3	28.7
4KP26BS	4KP26BS	1/2	12.5	-	1/2-14	-	3	2.03	1.30	0.76	1.13	51.6	33.0	19.3	28.7
4KP10	4KP10	1/2	12.5	-	-	7/8-14	3	2.11	1.37	0.84	1.19	53.6	34.8	21.3	30.2
6KP31	6KP31	3/4	20	3/4-14	-	-	3	2.36	1.52	0.71	1.31	59.9	38.6	18.0	33.3
6KP31BS	6KP31BS	3/4	20	-	3/4-14	-	3	2.36	1.52	0.71	1.31	59.9	38.6	18.0	33.3
6KP12	6KP12	3/4	20	-	-	1 1/16-12	3	2.54	1.59	0.89	1.38	64.5	40.4	22.6	35.1
8KP36	8KP36	1	25	1-11 1/2	-	-	3	2.85	1.88	0.97	1.63	72.4	47.8	24.6	41.4
8KP36BS	8KP36BS	1	25	-	1-11	-	3	2.85	1.88	0.97	1.63	72.4	47.8	24.6	41.4
8KP16	8KP16	1	25	-	-	1 1/8-12	3	2.85	2.17	0.97	1.88	72.4	55.1	24.6	47.8

C=Overall Length, D=Maximum Diameter, E=Exposed Length when Connected
To obtain connected length of coupling add Dimensions A and E together.

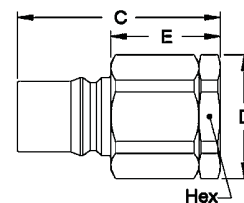


Fig. 4

Plugs (Male)

Part Number HK10/12/20 Series	High Impulse	Body Size	ISO Size	Thread Size (Female)		Fig.	Dimensions								Hex
				NPTF	BSPP		C (in)	D (in)	E (in)	Hex (in)	C (mm)	D (mm)	E (mm)	Hex (mm)	
10K41*	-	1 ¼	-	1 ¼-11 ½	-	4	4.25	2.74	2.33	2.38	108.0	69.6	59.2	60.5	
10K41BS*	-	1 ¼	-	-	1 ¼-11	4	4.25	2.74	2.33	2.38	108.0	69.6	59.2	60.5	
12K41	12K41C	1 ½	40	1 ¼-11 ½	-	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5	
12K41BS	12K41CBS	1 ½	40	-	1 ¼-11	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5	
12K46	12K46C	1 ½	40	1 ½-11 ½	-	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5	
12K46BS	12K46CBS	1 ½	40	-	1 ½-11	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5	
20K51	20K51C	2 ½	60	2-11 ½	-	4	5.49	4.33	2.97	3.75	139.4	110.0	75.4	95.3	
20K51BS	20K51CBS	2 ½	60	-	2-11	4	5.49	4.33	2.97	3.75	139.4	110.0	75.4	95.3	
20K56	20K56C	2 ½	60	2 ½-8	-	4	6.08	4.33	3.56	3.75	154.4	110.0	90.4	95.3	
20K56BS	20K56CBS	2 ½	60	-	2 ½-11	4	6.08	4.33	3.56	3.75	154.4	110.0	90.4	95.3	
20K61	20K61C	2 ½	60	3-8	-	4	6.94	4.62	4.42	4.00	176.3	117.3	112.3	101.6	
20K61BS	20K61CBS	2 ½	60	-	3-11	4	6.94	4.62	4.42	4.00	176.3	117.3	112.3	101.6	

C=Overall Length, D=Maximum Diameter, E=Exposed Length when Connected

* ISO 7241-1 Series B does not include 1-1/4 inch body size couplings; therefore, Series 10HK is not covered by this standard

To obtain connected length of coupling add Dimensions A and E together.

Dust Plugs and Dust Caps Accessories

Coupling Series	Plug Dust Cap Part No.		Socket Dust Plug Part No.	
	Metal	Vinyl	Metal	Vinyl
1HK	PDC1HK*	PPDC1HK	SDC1HK*	PSDC1HK
2HK	PDC2HK*	PPDC2HK	SDC2HK*	PSDC2HK
3HK	PDC3HK*	PPDC3HK	SDC3HK*	PSDC3HK
4HK	PDC4HK**	PPDC4HK	SDC4HK**	PSDC4HK
6HK	PDC6HK**	PPDC6HK	SDC6HK**	PSDC6HK
8HK	PDC8HK**	PPDC8HK	SDC8HK**	PSDC8HK
12HK	PDC12HK*		SDC12HK*	
20HK	PDC20HK*		SDC20HK*	

* Brass ** Aluminum



Eaton Quick Disconnect Couplings代理商

信德迈科技(北京)有限公司 CNMEC Technology Company
北京朝阳区望京SOHO-T1-C座2115室
Tel: 010-8428 2935, 8428 9077
Fax: 010-8428 8762, 139 1096 2635
Http://www.cnmec.biz
Email: sales@cnmec.biz