

# HK Series (Steel)

## ISO 7241-1 B Interchange

Fluid transfer & Hydraulic application



### Product Features

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

### Physical Characteristics

Series	Body Size (in)	ISO Size (mm)	Nominal Flow Diameter (mm)	Max. Operating Pressure				Rated Flow*		Air Inclusion cc. max.	Fluid Loss cc. max.
				Non hazardous liquids & gases Group 2		Hazardous liquids & gases Group 1		(lpm)	(gpm)		
			(bar)	(psi)	(bar)	(psi)					
1HK	1/8	5	4.4	275	4,000	275	4,000	3	0.8	0.6	0.5
2HK	1/4	6.3	5.9	345	5,000	345	5,000	12	3	1.2	0.9
3HK	3/8	10	7.8	275	4,000	275	4,000	23	6	2.9	2.1
4HK	1/2	12.5	10	345	5,000	345	5,000	45	12	3.6	3.5
6HK	3/4	20	17	275	4,000	275	4,000	100	26	11.5	9.3
8HK	1	25	19.6	275	4,000	275	4,000	189	50	18.0	16.9
10HK	1 1/4**	—	26.7	200	2900	37	537	288	76	48.0	48.0
12HK	1 1/2	40	35.1	150	2175	29	421	375	99	91.3	91.3
20HK	2 1/2	50	46	100	1450	21	305	757	200	209.9	209.9

\* For questions related to vacuum please contact Danfoss.

\*\* 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

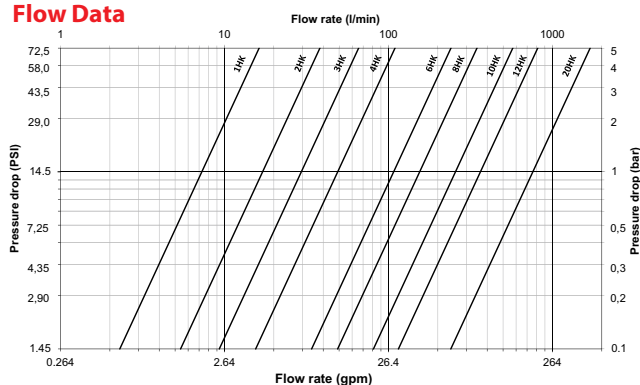
Danfoss Hansen HK Series coupling sets the industry standard for ISO B Couplings. The HK Series features a rugged ball latch mechanism with automatic self-sealing poppet valves in a wide array of port configurations and multiple valved and non-valved configurations.

### European Pressure Equipment Directive

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive 2014/68/EU. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with stipulations of Module A of the European Pressure Equipment Directive 2014/68/EU. They should not be used to convey unstable gases.

Group 1 = Hazardous media / Group 2 = Other media

### Flow Data



Hydraulic Oil viscosity : 30 Cst at 40°C / 104°F

### Seal Elastomer Data\*

Seal Elastomer**	Max. Operation Temperature Range
Nitrile (NBR)	-40°C to +121°C / 40°F to +250°F
Neoprene	-54°C to +100°C / -65°F to +212°F
EPDM	-54°C to +149°C / -65°F to +300°F
FKM	-29°C to +204°C / -15°F to +400°F

\* For reference only, based on Danfoss recommended temperatures.

\*\* For seals not listed contact Danfoss.

Contact Danfoss technical support for further information on fluid compatibility.

# HK Series (Steel)

## ISO 7241-1 B Interchange

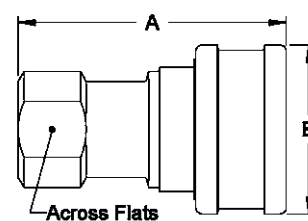


Figure 1

### Sockets (Female)

Part Number HK1-8 Series	Body Size (in)	ISO Size (mm)	Thread Size (Female)			Fig.	Dimensions					
			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	-	-	9/16-18	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	-	-	7/8-14	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 1/16-12	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 1/16-12	1	4.13	2.61	1.88	104.9	66.3	47.8

A=Overall Length, B=Maximum Diameter

To obtain connected length of coupling, add dimensions A (Fig. 1) and E (Fig. 3) together.

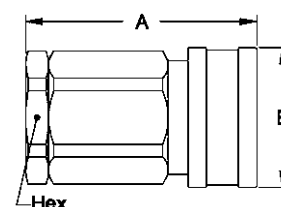


Figure 2

### Sockets (Female)

Part Number HK10/12/20 Series	Body Size (in)	ISO Size (mm)	Thread Size (Female)		Fig.	Dimensions					
			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 (Fig. 2) and E (Fig. 4) together.

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# HK Series (Steel)

## ISO 7241-1 B Interchange

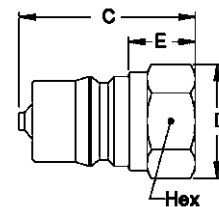


Figure 3

### Plugs (Male)

Part Number HK1-8 Series	Body Size (in)	ISO Size (mm)	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	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	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	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	3/8	10	-	-	3/4-16	3	1.94	1.15	0.79	1.00	49.3	29.2	20.1	25.4
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	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	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	3/4	20	3/4-14	-	-	3	2.36	1.52	0.71	1.31	59.9	38.6	18.0	33.3
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	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	1	25	1-11 1/2	-	-	3	2.85	1.88	0.97	1.63	72.4	47.8	24.6	41.4
8KP36BS	1	25	-	1-11	-	3	2.85	1.88	0.97	1.63	72.4	47.8	24.6	41.4
8KP16	1	25	-	-	1 1/16-12	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 (Fig. 1) and E (Fig. 3) together.

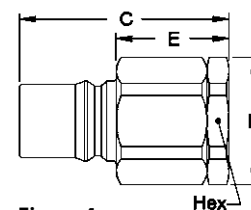


Figure 4

### Plugs (Male)

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

### Dust Plugs and Dust Caps Accessories

Coupling Series	Plug Dust Cap Part No.		Socket Dust Plug Part No.	
	Metal	Vinyl	Metal	Vinyl
1HK	XPDC1HK*	XPPDC1HK	SDC1HK*	XPSDC1HK
2HK	XPDC2HK*	XPPDC2HK	SDC2HK*	XPSDC2HK
3HK	XPDC3HK*	XPPDC3HK	SDC3HK*	XPSDC3HK
4HK	XPDC4HK**	XPPDC4HK(RD)***	SDC4HK**	XPSDC4HK(RD)***
6HK	XPDC6HK**	XPPDC6HK(RD)***	SDC6HK**	XPSDC6HK(RD)***
8HK	XPDC8HK**	XPPDC8HK(RD)***	SDC8HK**	XPSDC8HK(RD)***
12HK	XPDC12HK*		SDC12HK*	
20HK	XPDC20HK*		SDC20HK*	

\*Brass \*\*Aluminum \*\*\*Offered in red by adding RD to end of part number



# HK Series (Brass)

## ISO 7241-1 B Interchange

Fluid transfer & Hydraulic application



### Product Features

- Meets dimensional requirements to ISO standard 7241-1 Series B
- Brass construction with stainless steel springs for greater corrosion resistance and fluid compatibility
- Self-sealing poppet valves provide excellent high and low pressure sealing
- Standard seal material: Nitrile (NBR)
- Seal options available in PTFE, Neoprene, FKM, EPDM, and Kalrez®

### Physical Characteristics

Series	Body Size (in)	ISO Size (mm)	Nominal Flow Diameter (mm)	Max. Operating Pressure				Rated Flow*		Air Inclusion cc. max.	Fluid Loss cc. max.
				Non hazardous liquids & gases Group 2		Hazardous liquids & gases Group 1		(lpm)	(gpm)		
1HK	1/8	5	4.4	207	3,000	207	3,000	3	0.8	0.6	0.5
2HK	1/4	6.3	5.9	186	2,700	186	2,700	12	3	1.2	0.9
3HK	3/8	10	7.8	152	2,200	152	2,200	23	6	2.9	2.1
4HK	1/2	12.5	10	155	2,250	155	2,250	45	12	3.6	3.5
6HK	3/4	20	17	138	2,000	138	2,000	100	26	11.5	9.3
8HK	1	25	19.6	103	1,500	103	1,500	189	50	18.0	16.9
10HK	1 1/4**	—	26.7	83	1,200	37	537	288	76	48.0	48.0
12HK	1 1/2	40	35.1	104	1,500	29	421	375	99	91.3	91.3
20HK	2 1/2	50	46	49	700	21	305	757	200	209.9	209.9

\* For questions related to vacuum please contact Danfoss.

\*\* No ISO Standard available for the 10HK

### Applications & Markets

- Agriculture
- Hydraulic Tool
- General Industry
- Construction
- Fluid Transfer
- Chemical
- Oil and Gas
- Transportation
- Food and Beverage
- Trucks
- Nuclear

Danfoss Hansen HK brass is a general purpose industrial interchange coupling available in valved or non-valved designs, offered in brass for excellent corrosion resistance in rugged applications where stainless steel is unacceptable. The HK Series features a ball latch mechanism with automatic self-sealing poppet valves.

### European Pressure Equipment Directive

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive 2014/68/EU. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with stipulations of Module A of the European Pressure Equipment Directive 2014/68/EU. They should not be used to convey unstable gases.

Group 1 = Hazardous media / Group 2 = Other media

### Flow Data



### Seal Elastomer Data\*

Seal Elastomer	Max. Operation Temperature Range
Nitrile (NBR)	-40°C to +121°C / 40°F to +250°F
Neoprene	-54°C to +100°C / -65°F to +212°F
EPDM	-54°C to +149°C / -65°C to +300°F
FKM	-29°C to +204°C / -15°F to +400°F

\* For reference only, based on Danfoss recommended temperatures.

Contact Danfoss technical support for further information on fluid compatibility.

# HK Series (Brass)

## ISO 7241-1 B Interchange

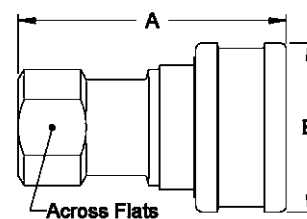


Figure 1

### Sockets (Female)

Part Number HK1-8 Series	Body Size	ISO Size	Thread Size (Female)		Fig.	Dimensions					
	(in)	(mm)	NPTF	BSPP		A (in)	B (in)	Across Flats (in)	A (mm)	B (mm)	Across Flats (mm)
B1H11	1/8	5	1/8-27	-	1	1.91	0.98	0.56	48.5	24.9	14.2
B2H16	1/4	6.3	1/4-18	-	1	2.26	1.14	0.75	57.4	29.0	19.1
B2H16BS	1/4	6.3	-	1/4-19	1	2.31	1.14	0.75	58.7	29.0	19.1
B3H21	3/8	10	3/8-18	-	1	2.56	1.42	0.88	65.0	36.1	22.4
B3H21BS	3/8	10	-	3/8-19	1	2.56	1.42	0.88	65.0	36.1	22.4
B4HP26	1/2	12.5	1/2-14	-	1	2.96	1.86	1.13	75.2	47.2	28.7
B4HP26BS	1/2	12.5	-	1/2-14	1	2.96	1.86	1.13	75.2	47.2	28.7
B6HP31	3/4	20	3/4-14	-	1	3.48	2.22	1.31	88.4	56.4	33.3
B6HP31BS	3/4	20	-	3/4-14	1	3.48	2.22	1.31	88.4	56.4	33.3
B8HP36	1	25	1-11 1/2	-	1	4.13	2.61	1.75	104.9	66.3	44.5
B8HP36BS	1	25	-	1-11	1	4.13	2.61	1.75	104.9	66.3	44.5

A=Overall Length, B=Maximum Diameter

To obtain connected length of coupling, add dimensions A (Fig. 1) and E (Fig. 3) together.

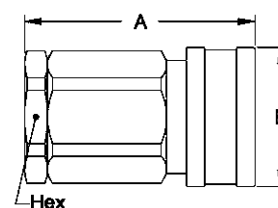


Figure 2

### 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)
B10H41*	1 1/4	-	1 1/4-11 1/2	-	2	4.51	2.73	2.38	114.6	69.3	60.5
B12H41	1 1/2	40	1 1/4-11 1/2	-	2	4.82	3.23	2.38	122.4	82.0	60.5
B12H41BS	1 1/2	40	-	1 1/4-11	2	4.82	3.23	2.38	122.4	82.0	60.5
B12H46	1 1/2	40	1 1/2-11	-	2	4.82	3.23	2.38	122.4	82.0	60.5
B12H46BS	1 1/2	40	-	1 1/2-11	2	4.82	3.23	2.38	122.4	82.0	60.5
B20H51	2 1/2	50	2-11 1/2	-	2	5.55	4.11	3.75	141.0	104.4	95.3
B20H51BS	2 1/2	50	-	2-11	2	5.55	4.11	3.75	141.0	104.4	95.3
B20H56	2 1/2	50	2 1/2-8	-	2	6.14	4.11	3.75	156.0	104.4	95.3
B20H56BS	2 1/2	50	-	2 1/2-11	2	6.14	4.11	3.75	156.0	104.4	95.3
B20H61	2 1/2	50	3-8	-	2	7.00	4.11	4.00	177.8	104.4	101.6
B20H61BS	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 (Fig. 2) and E (Fig. 4) together.

# HK Series (Brass)

## ISO 7241-1 B Interchange

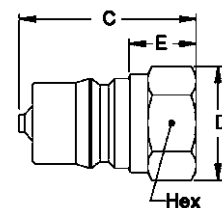


Figure 3

### Plugs (Male)

Part Number HK1-8 Series	Body Size (in)	ISO Size (mm)	Thread Size (Female)		Fig.	Dimensions							
			NPTF	BSPP		C (in)	D (in)	E (in)	Hex (in)	C (mm)	D (mm)	E (mm)	Hex (mm)
B1K11	1/8	5	1/8-27	-	3	1.26	0.65	0.44	0.56	32.0	16.5	11.2	14.2
B2K16	1/4	6.3	1/4-18	-	3	1.52	0.87	0.56	0.75	38.6	22.1	14.2	19.1
B2K16BS	1/4	6.3	-	1/4-19	3	1.52	0.87	0.56	0.75	38.6	22.1	14.2	19.1
B3K21	3/8	10	3/8-18	-	3	1.76	1.01	0.61	0.88	44.7	25.7	15.5	22.4
B3K21BS	3/8	10	-	3/8-19	3	1.76	1.01	0.61	0.88	44.7	25.7	15.5	22.4
B4KP26	1/2	12.5	1/2-14	-	3	2.03	1.30	0.76	1.13	51.6	33.0	19.3	28.7
B4KP26BS	1/2	12.5	-	1/2-14	3	2.03	1.30	0.76	1.13	51.6	33.0	19.3	28.7
B6KP31	3/4	20	3/4-14	-	3	2.36	1.52	0.71	1.31	59.9	38.6	18.0	33.3
B6KP31BS	3/4	20	-	3/4-14	3	2.36	1.52	0.71	1.31	59.9	38.6	18.0	33.3
B8KP36	1	25	1-11 1/2	-	3	2.85	1.88	0.97	1.63	72.4	47.8	24.6	41.4
B8KP36BS	1	25	-	1-11	3	2.85	1.88	0.97	1.63	72.4	47.8	24.6	41.4

C=Overall Length, D=Maximum Diameter, E=Exposed Length when Connected  
To obtain connected length of coupling, add dimensions A (Fig. 1) and E (Fig. 3) together.

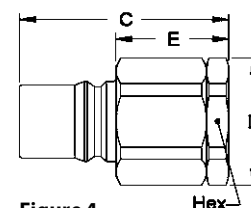


Figure 4

### Plugs (Male)

Part Number HK10/12/20 Series	Body Size (in)	ISO Size (mm)	Thread Size (Female)		Fig.	Dimensions							
			NPTF	BSPP		C (in)	D (in)	E (in)	Hex (in)	C (mm)	D (mm)	E (mm)	Hex (mm)
B10K41*	1 1/4	-	1 1/4-11 1/2	-	4	4.25	2.74	2.33	2.38	108.0	69.6	59.2	60.5
B12K41	1 1/2	40	1 1/4-11 1/2	-	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
B12K41BS	1 1/2	40	-	1 1/4-11	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
B12K46	1 1/2	40	1 1/2-11 1/2	-	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
B12K46BS	1 1/2	40	-	1 1/2-11	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
B20K51	2 1/2	50	2-11 1/2	-	4	5.49	4.33	2.97	3.75	139.4	110.0	75.4	95.3
B20K51BS	2 1/2	50	-	2-11	4	5.49	4.33	2.97	3.75	139.4	110.0	75.4	95.3
B20K56	2 1/2	50	2 1/2-8	-	4	6.08	4.33	3.56	3.75	154.4	110.0	90.4	95.3
B20K56BS	2 1/2	50	-	2 1/2-11	4	6.08	4.33	3.56	3.75	154.4	110.0	90.4	95.3
B20K61	2 1/2	50	3-8	-	4	6.94	4.62	4.42	4.00	176.3	117.3	112.3	101.6
B20K61BS	2 1/2	50	-	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 (Fig. 2) and E (Fig. 4) together.

### Dust Plugs and Dust Caps Accessories

Coupling Series	Plug Dust Cap Part No.		Socket Dust Plug Part No.	
	Metal	Vinyl	Metal	Vinyl
1HK	XPDC1HK*	XPPDC1HK	SDC1HK*	XPDC1HK
2HK	XPDC2HK*	XPPDC2HK	SDC2HK*	XPDC2HK
3HK	XPDC3HK*	XPPDC3HK	SDC3HK*	XPDC3HK
4HK	XPDC4HK**	XPPDC4HK(RD)***	SDC4HK**	XPDC4HK(RD)***
6HK	XPDC6HK**	XPPDC6HK(RD)***	SDC6HK**	XPDC6HK(RD)***
8HK	XPDC8HK**	XPPDC8HK(RD)***	SDC8HK**	XPDC8HK(RD)***
12HK	XPDC12HK*		SDC12HK*	
20HK	XPDC20HK*		SDC20HK*	

\*Brass \*\*Aluminum \*\*\*Offered in red by adding RD to end of part number



# HK Series (Stainless Steel)

## ISO 7241-1 B Interchange

Fluid transfer & Hydraulic application



### Product Features

- Meets dimensional requirements to ISO standard 7241-1 Series B
- 303/316 Stainless steel construction for greater corrosion resistance and fluid compatibility
- Self-sealing poppet valves provide excellent high and low pressure sealing
- Standard body material: 303 or 316 Stainless Steel
- Standard seal material: Nitrile (NBR)
- Seal options available in PTFE, Neoprene, FKM, EPDM, and Kalrez®

### Physical Characteristics

Series	Body Size (in)	ISO Size (mm)	Nominal Flow Diameter (mm)	Max. Operating Pressure				Rated Flow*		Air Inclusion cc. max.	Fluid Loss cc. max.
				Non hazardous liquids & gases Group 2		Hazardous liquids & gases Group 1		(lpm)	(gpm)		
1HK	1/8	5	4.4	344	5,000	344	5,000	3	0.8	0.6	0.5
2HK	1/4	6.3	5.9	255	3,700	255	3,700	12	3	1.2	0.9
3HK	3/8	10	7.8	255	3,700	255	3,700	23	6	2.9	2.1
4HK	1/2	12.5	10	293	4,250	293	4,250	45	12	3.6	3.5
6HK	3/4	20	17	242	3,500	242	3,500	100	26	11.5	9.3
8HK	1	25	19.6	207	3,000	207	3,000	189	50	18.0	16.9
10HK	1 1/4**	—	26.7	118	1,700	37	537	288	76	48.0	48.0
12HK	1 1/2	40	35.1	152	2,200	29	421	375	99	91.3	91.3
20HK	2 1/2	50	46	104	1,500	21	305	757	200	209.9	209.9

\* For questions related to vacuum please contact Danfoss.

\*\* 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

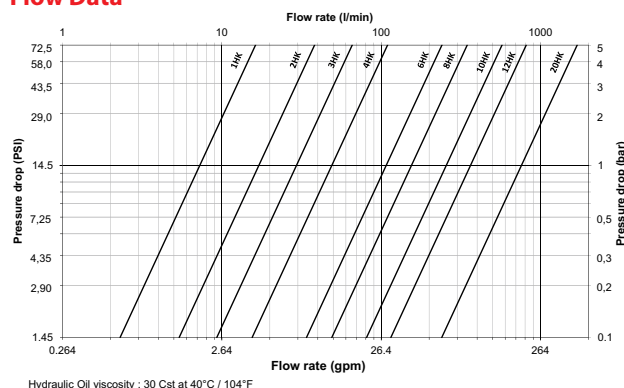
Danfoss Hansen HK stainless steel coupling is a general purpose industrial interchange coupling available in valved or non-valved designs, offered in 303/316 grades of stainless steel for excellent corrosion resistance in rugged applications. The HK Series features a ball latch mechanism with automatic self-sealing poppet valves.

### European Pressure Equipment Directive

Couplings with nominal diameters up to and including 25 mm are designed and manufactured under Article 4.3 of the European Pressure Equipment Directive 2014/68/EU. Couplings with nominal diameters greater than 25 mm are designed and manufactured in accordance with stipulations of Module A of the European Pressure Equipment Directive 2014/68/EU. They should not be used to convey unstable gases.

Group 1 = Hazardous media / Group 2 = Other media

### Flow Data



Seal Elastomer Data*	
Seal Elastomer	Max. Operation Temperature Range
Nitrile (NBR)	-40°C to +121°C / 40°F to +250°F
Neoprene	-54°C to +100°C / -65°F to +212°F
EPDM	-54°C to +149°C / -65°F to +300°F
FKM	-29°C to +204°C / -15°F to +400°F

\*For reference only, based on Danfoss recommended temperatures.

Contact Danfoss technical support for further information on fluid compatibility.

# HK Series (Stainless Steel)

## ISO 7241-1 B Interchange

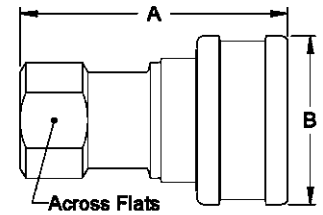


Figure 1

### Sockets (Female)

Part Number HK1-8 Series 303 Stainless Steel	316 Stainless Steel	Body Size (in)	ISO Size (in)	Thread Size (Female)			Fig. Dimensions						
				NPTF	BSPP	SAE	A (in)	B (in)	Across Flats (in)	A (mm)	B (mm)	Across Flats (mm)	
LL1H11	ML1H11	1/8	5	1/8-27	-	-	1	1.91	0.98	0.56	48.5	24.9	14.2
LL1H4	-	1/8	5	-	-	7/16-20	1	2.06	0.98	0.69	52.3	24.9	17.5
LL2H16	ML2H16	1/4	6.3	1/4-18	-	-	1	2.26	1.14	0.75	57.4	29.0	19.1
LL2H16BS	ML2H16BS	1/4	6.3	-	1/4-19	-	1	2.31	1.14	0.75	58.7	29.0	19.1
LL2H6	-	1/4	6.3	-	-	9/16-18	1	2.40	1.14	0.88	61.0	29.0	22.4
LL3H21	ML3H21	3/8	10	3/8-18	-	-	1	2.56	1.42	0.88	65.0	36.1	22.4
LL3H21BS	ML3H21BS	3/8	10	-	3/8-19	-	1	2.56	1.42	0.88	65.0	36.1	22.4
LL3H8	-	3/8	10	-	-	3/4-16	1	2.74	1.42	1.00	69.6	36.1	25.4
LL4HP26	ML4HP26	1/2	12.5	1/2-14	-	-	1	2.96	1.86	1.13	75.2	47.2	28.7
LL4HP26BS	ML4HP26BS	1/2	12.5	-	1/2-14	-	1	2.96	1.86	1.13	75.2	47.2	28.7
LL4HP10	-	1/2	12.5	-	-	7/8-14	1	3.05	1.86	1.25	77.5	47.2	31.8
LL6HP31	ML6HP31	3/4	20	3/4-14	-	-	1	3.48	2.22	1.31	88.4	56.4	33.3
LL6HP31BS	ML6HP31BS	3/4	20	-	3/4-14	-	1	3.48	2.22	1.31	88.4	56.4	33.3
LL6HP12	-	3/4	20	-	-	11/16-12	1	3.67	2.22	1.38	93.2	56.4	35.1
LL8HP36	ML8HP36	1	25	1-11 1/2	-	-	1	4.13	2.61	1.75	104.9	66.3	44.5
LL8HP36BS	ML8HP36BS	1	25	-	1-11	-	1	4.13	2.61	1.75	104.9	66.3	44.5
LL8HP16	-	1	25	-	-	1 1/16-12	1	4.13	2.61	1.88	104.9	66.3	47.8

A=Overall Length, B=Maximum Diameter

To obtain connected length of coupling, add dimensions A (Fig. 1) and E (Fig. 3) together.

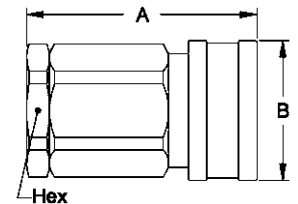


Figure 2

### Sockets (Female)

Part Number HK10/12/20 Series 303 Stainless Steel	Body Size (in)	ISO Size (mm)	Thread Size (Female)		Fig.	Dimensions					
			NPTF	BSPP		A (in)	B (in)	Hex (in)	A (mm)	B (mm)	Hex (mm)
LL10H41*	1 1/4	-	1 1/4-11 1/2	-	2	4.51	2.73	2.38	114.6	69.3	60.5
LL10H41BS*	1 1/4	-	-	1 1/4-11	2	4.51	2.73	2.38	114.6	69.3	60.5
LL12H41	1 1/2	40	1 1/4-11 1/2	-	2	4.82	3.23	2.38	122.4	82.0	60.5
LL12H41BS	1 1/2	40	-	1 1/4-11	2	4.82	3.23	2.38	122.4	82.0	60.5
LL12H46	1 1/2	40	1 1/2-11 1/2	-	2	4.82	3.23	2.38	122.4	82.0	60.5
LL12H46BS	1 1/2	40	-	1 1/2-11	2	4.82	3.23	2.38	122.4	82.0	60.5
LL20H51	2 1/2	50	2-11 1/2	-	2	5.55	4.11	3.75	141.0	104.4	95.3
LL20H51BS	2 1/2	50	-	2-11	2	5.55	4.11	3.75	141.0	104.4	95.3
LL20H56	2 1/2	50	2 1/2-8	-	2	6.14	4.11	3.75	156.0	104.4	95.3
LL20H56BS	2 1/2	50	-	2 1/2-11	2	6.14	4.11	3.75	156.0	104.4	95.3
LL20H61	2 1/2	50	3-8	-	2	7.00	4.11	4.00	177.8	104.4	101.6
LL20H61BS	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 (Fig. 2) and E (Fig. 4) together.



# HK Series (Stainless Steel)

## ISO 7241-1 B Interchange

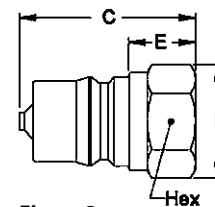


Figure 3

### Plugs (Male)

Part Number HK1-8 Series 303	316	Body Size (in)	ISO Size (mm)	Thread Size (Female)			Fig.	Dimensions							
				NPTF	BSPB	SAE		C (in)	D (in)	E (in)	Hex (in)	C (mm)	D (mm)	E (mm)	Hex (mm)
LL1K11	ML1K11	1/8	5	1/8-27	-	-	3	1.26	0.65	0.44	0.56	32.0	16.5	11.2	14.2
LL1K4	-	1/8	5	-	-	7/16-20	3	1.41	0.79	0.59	0.69	35.8	20.1	15.0	17.5
LL2K16	ML2K16	1/4	6.3	1/4-18	-	-	3	1.52	0.87	0.56	0.75	38.6	22.1	14.2	19.1
LL2K16BS	ML2K16BS	1/4	6.3	-	1/4-19	-	3	1.52	0.87	0.56	0.75	38.6	22.1	14.2	19.1
LL2K6	-	1/4	6.3	-	-	9/16-18	3	1.66	1.01	0.70	0.88	42.2	25.7	17.8	22.4
LL3K21	ML3K21	3/8	10	3/8-18	-	-	3	1.76	1.01	0.61	0.88	44.7	25.7	15.5	22.4
LL3K21BS	ML3K21BS	3/8	10	-	3/8-19	-	3	1.76	1.01	0.61	0.88	44.7	25.7	15.5	22.4
LL3K8	-	3/8	10	-	-	3/4-16	3	1.94	1.15	0.79	1.00	49.3	29.2	20.1	25.4
LL4KP26	ML4KP26	1/2	12.5	1/2-14	-	-	3	2.03	1.30	0.76	1.13	51.6	33.0	19.3	28.7
LL4KP26BS	ML4KP26BS	1/2	12.5	-	1/2-14	-	3	2.03	1.30	0.76	1.13	51.6	33.0	19.3	28.7
LL4KP10	-	1/2	12.5	-	-	7/8-14	3	2.11	1.37	0.84	1.19	53.6	34.8	21.3	30.2
LL6KP31	ML6KP31	3/4	20	3/4-14	-	-	3	2.36	1.52	0.71	1.31	59.9	38.6	18.0	33.3
LL6KP31BS	ML6KP31BS	3/4	20	-	3/4-14	-	3	2.36	1.52	0.71	1.31	59.9	38.6	18.0	33.3
LL6KP12	-	3/4	20	-	-	1 1/8-12	3	2.54	1.59	0.89	1.38	64.5	40.4	22.6	35.1
LL8KP36	ML8KP36	1	25	1-11 1/2	-	-	3	2.85	1.88	0.97	1.63	72.4	47.8	24.6	41.4
LL8KP36BS	ML8KP36BS	1	25	-	1-11	-	3	2.85	1.88	0.97	1.63	72.4	47.8	24.6	41.4
LL8KP16	-	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 (Fig. 1) and E (Fig. 3) together.

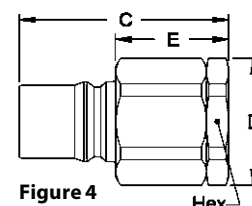


Figure 4

### Plugs (Male)

Part Number HK10/12/20 Series 303 Stainless Steel	Body Size (in)	ISO Size (mm)	Thread Size (Female)		Fig.	Dimensions							
			NPTF	BSPB		C (in)	D (in)	E (in)	Hex (in)	C (mm)	D (mm)	E (mm)	Hex (mm)
LL10K41*	1 1/4	-	1 1/4-11 1/2	-	4	4.25	2.74	2.33	2.38	108.0	69.6	59.2	60.5
LL10K41BS*	1 1/4	-	-	1 1/4-11	4	4.25	2.74	2.33	2.38	108.0	69.6	59.2	60.5
LL12K41	1 1/2	40	1 1/4-11 1/2	-	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
LL12K41BS	1 1/2	40	-	1 1/4-11	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
LL12K46	1 1/2	40	1 1/2-11 1/2	-	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
LL12K46BS	1 1/2	40	-	1 1/2-11	4	4.76	2.74	2.67	2.38	120.9	69.6	67.8	60.5
LL20K51	2 1/2	50	2-11 1/2	-	4	5.49	4.33	2.97	3.75	139.4	110.0	75.4	95.3
LL20K51BS	2 1/2	50	-	2-11	4	5.49	4.33	2.97	3.75	139.4	110.0	75.4	95.3
LL20K56	2 1/2	50	2 1/2-8	-	4	6.08	4.33	3.56	3.75	154.4	110.0	90.4	95.3
LL20K56BS	2 1/2	50	-	2 1/2-11	4	6.08	4.33	3.56	3.75	154.4	110.0	90.4	95.3
LL20K61	2 1/2	50	3-8	-	4	6.94	4.62	4.42	4.00	176.3	117.3	112.3	101.6
LL20K61BS	2 1/2	50	-	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 (Fig. 2) and E (Fig. 4) together.

### Dust Plugs and Dust Caps Accessories

Coupling Series	Plug Dust Cap Part No.		Socket Dust Plug Part No.	
	Metal	Vinyl	Metal	Vinyl
1HK	XPDC1HK*	XPPDC1HK	SDC1HK*	XPSDC1HK
2HK	XPDC2HK*	XPPDC2HK	SDC2HK*	XPSDC2HK
3HK	XPDC3HK*	XPPDC3HK	SDC3HK*	XPSDC3HK
4HK	XPDC4HK**	XPPDC4HK(RD)***	SDC4HK**	XPSDC4HK(RD)***
6HK	XPDC6HK**	XPPDC6HK(RD)***	SDC6HK**	XPSDC6HK(RD)***
8HK	XPDC8HK**	XPPDC8HK(RD)***	SDC8HK**	XPSDC8HK(RD)***
12HK	XPDC12HK*	-	SDC12HK*	-
20HK	XPDC20HK*	-	SDC20HK*	-

\*Brass \*\*Aluminum \*\*\*Offered in red by adding RD to end of part number

