ENGINEERING



Count on availability when you need it most H1B Bent Axis Motors Rapid Delivery Center

Faster

time to market

Danfoss RDCs ensure you have the product you want, when you want it





Shorten your design cycle with lead times to bring you what you want when you want it

Danfoss Rapid Delivery Centers (RDCs) enable OEMs to bring machines to market faster.

H1B Bent Axis Hydraulic Motors

Danfoss RDCs featuring the H1B Bent Axis Hydraulic Motor offer up to 130 million combinations of motor configurations, bringing the versatility you need when designing your vehicle on a schedule.

Your RDC is an authorized assembly and warranty center, and is held to very strict quality standards. All H1B motors from your distributor have been hydraulically tested.

H1B - Meeting your needs

Efficiency and performance are optimized using the latest computer aided design tools in conjunction with unrivaled hydrostatic system experience.

- Designed for the rugged environments of mobile machinery
- 7,000 psi pressure capability
- Shortest package length in the market
- 0 degree capability for free wheeling and anti-slip systems
- Robust evolution of our own successful Series 51
- · Controls are common across displacement sizes and external replacement of shaft seals results in fewer service parts
- Speed and temperature sensor-ready
- Superior controls less than 4% hysterisis

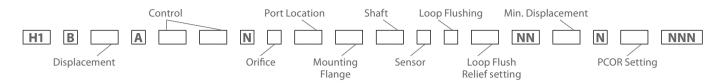
Local inventories include:

- 60 cm³
- 80 cm³
- 110 cm³
- 160 cm³
- 250 cm^{3*} *At participating locations only



H1B configurations at your local RDC

Proportional



Control - Electric Proportional

Code	Control Signal	De-energized position	PCOR	BPD
L1-BA	12 VDC	Max	No	No
L2-BA	24 VDC	Max	No	No
M1-CA	12 VDC	Min	No	No
M2-CA	24 VDC	Min	No	No
K1-KA	12 VDC	Min	Yes	No
K2-KA	24 VDC	Min	Yes	No
D1-MA	12 VDC	Max	Yes	No
D2-MA	24 VDC	Max	Yes	No
D1-M1	12 VDC	Max	Yes	Yes
D2-M2	24 VDC	Max	Yes	Yes
K1-K1	12 VDC	Min	Yes	Yes
K2-K2	24 VDC	Min	Yes	Yes

PCOR = Pressure Compensator Override, BDP = Brake Pressure Defeat

Displacement

080-80 cm³/rev (4.9 CIR) 110-110 cm³/rev (6.7 CIR) 160-160 cm³/rev (9.8 CIR) 250-250 cm³/rev (15.3 CIR)

Orifice

A 1.2 mm B 0.8 mm

C 0.6 mm

Port Location

PA Axial Ports
PB Side Ports

Mounting Flange

CS Cartridge (80 cm³ only)

VS SAE

Shaft

AS 14T 12/24 (60 & 80 cm³ only)

HS W35×2×30×16 (80 cm³ only)

JS W40×2×30×18 (80 & 110 cm³ only)

ES 13T 8/16 (110 cm³ only)

FS 15T 8/16 (160 & 250 cm³ only)

KS W45×2×30×24 (160 cm³ only)

DS 27T 16/32 (250 cm³ only)

Sensor

S 4.5-8 V speed, temperature, direction

B 7-32 V speed only

P Plugged, sensor not included

N None

Loop Flushing

A 6.5 bar shiftN No loop flushing

Loop Flushing Relief Valve

5 l/m, 16 bar, fixed (60/80 cm³ only) 10 l/m, 16 bar, fixed (60/80/110 cm³ only)

15 1/ 16 L 6 L(110 3 L)

15 l/m, 16 bar, fixed (110 cm³ only)

20 l/m, 16 bar, fixed (160/250 cm³ only)

30 l/m, 16 bar, fixed (160/250 cm³ only) 40 l/m, 16 bar, fixed (160/250 cm³ only)

40 1/111, 10 Dai, 11Xeu (100/250 Citi Offin)

50 l/m, 16 bar, fixed (160/250 cm³ only)

Minimum Displacement

80 cm³: 000 and 016 to 054 110 cm³: 000 and 022 to 074 160 cm³: 000 and 032 to 108 250 cm³: 000 and 050 to 169

PCOR Setting

00 Without

16 160 bar

17 170 bar

18 180 bar

19 190 bar

20 200 bar

21 210 bar

22 220 bar

23 230 bar

24 240 bar

25 250 bar

26 260 bar

27 270 bar

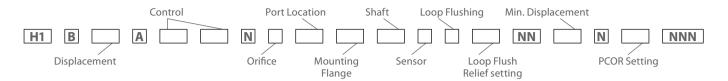
28 280 bar

29 290 bar

30 300 bar

H1B configurations at your local RDC

Two position



Control - Two position

Code	Control Signal	De-energized position	PCOR	BPD
E1-AA	12 VDC	Max	No	No
E2-AA	24 VDC	Max	No	No
F1-EA	12 VDC	Min	No	No
F2-EA	24 VDC	Min	No	No
T1-DA	12 VDC	Min	Yes	No
T2-DA	24 VDC	Min	Yes	No
P1-DA	12 VDC	Min	Yes	No
P2-DA	24 VDC	Min	Yes	No
T1-D1	12 VDC	Min	Yes	Yes
P1-D1	12 VDC	Min	Yes	Yes
T2-D2	24 VDC	Min	Yes	Yes
P2-D2	24 VDC	Min	Yes	Yes
HE-HE	Hyd	Max	No	No
HF-HF	Hyd	Min	No	No
TA-DA	Pressure compensated, no shift	Min	Yes	No
TA-D1	Pressure compensated, no shift – BPD 12 VDC	Min	Yes	Yes
TA-D2	Pressure compensated, no shift – BPD 24 VDC	Min	Yes	Yes

PCOR = Pressure Compensator Override, BDP = Brake Pressure Defeat

Dis	pla	cem	ent

060 - 60 cm³/rev (3.7 CIR) 080 - 80 cm3/rev (4.9 CIR) 110 - 110 cm³/rev (6.7 CIR)

Orifice

A 1.2 mm 0.8 mm C 0.6 mm

Port Location

TA Axial Ports **TB Side Ports**

Mounting Flange

CS Cartridge (60 & 80 cm³ only) VS SAE

Shaft

GS W30×2×30×14 (60 cm³ only) AS 14T 12/24 (60 & 80 cm³ only) HS W35×2×30×16 (80 cm³ only) JS W40×2×30×18 (80 & 110 cm³ only)

ES 13T 8/16 (110 cm³ only)

Sensor

4.5-8 V speed, temperature, direction 7-32 V speed only Plugged, sensor not included None **Loop Flushing** A 6.5 Bar shift

No loop flushing

Loop Flushing Relief Valve

5 l/m, 16 bar, fixed (60/80 cm³ only) 10 l/m, 16 bar, fixed (60/80/110 cm³ only) 15 l/m, 16 bar, fixed (110 cm³ only) 20 l/m, 16 bar, fixed (160/250 cm³ only) 30 l/m, 16 bar, fixed (160/250 cm³ only) 40 l/m, 16 bar, fixed (160/250 cm³ only) 50 l/m, 16 bar, fixed (160/250 cm³ only)

Minimum Displacement

60 cm3: 000 and 012 to 040 80 cm3: 000 and 016 to 054 110 cm³: 000 and 022 to 074

PCOR Setting 00 Without









Danfoss Power Solutions

Danfoss Power Solutions is a global manufacturer and supplier of high-quality hydraulic and electronic components. We specialize in providing state-of-the-art technology and solutions that excel in the harsh operating conditions of the mobile off-highway market. Building on our extensive applications expertise, we work closely with you to ensure exceptional performance for a broad range of off-highway vehicles. We help OEMs around the world speed up system development, reduce costs and bring vehicles to market faster.

Danfoss Power Solutions – your strongest partner in mobile hydraulics.

Products we offer:

- Bent Axis Motors
- Closed Circuit Axial Piston Pumps and Motors Open Circuit Axial Piston Pumps
- Displays
- Electrohydraulic Power Steering
- Electrohydraulics
- Hydraulic Power Steering
- Integrated Systems
- Joysticks and Control Handles

- · Microcontrollers and Software
- · Orbital Motors
- PLUS+1® GUIDE
- Proportional Valves
- Sensors
- Steering
- · Transit Mixer Drives

Wherever off-highway vehicles are at work, so is Danfoss Power Solutions. We offer you expert worldwide support for ensuring the best possible solutions for outstanding performance. And with an extensive network of Global Service Partners, we also provide you with comprehensive global service for all of our components.

Go to www.powersolutions.danfoss.com for further product information.

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