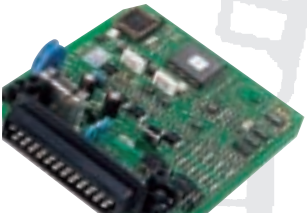
EDITION V

MODEL CODES



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Model Code for HMV -02 Series Variable Displacement Motors

Positions	1	2	3	4	5	6	7	8
HMV	☐	☐	☐	☐	☐	☐	☐	☐
Example:	HMV	210	E1	M	1	H	I	E	F

FRAME SIZE						
55	75	105	135	135D	165	210
●	-	-	-	-	-	-
-	●	-	-	-	-	-
-	-	●	-	-	-	-
-	-	-	●	-	-	-
-	-	-	-	●	-	-
-	-	-	-	-	●	-
-	-	-	-	-	-	●

1 DISPLACEMENT

055 - 54.8 cc/r (3.35 cir)
075 - 75.9 cc/r (4.63 cir)
105 - 105 cc/r (6.41 cir)
135 - 135.6 cc/r (8.27 cir)
135D - 2x135.6 cc/r (2x8.27 cir)
165 - 165 cc/r (10.07 cir)
210 - 210 cc/r (12.81 cir)

2 CONTROL TYPE

●	●	●	●	●	●	●
●	●	●	●	●	●	●
❍	❍	❍	❍	❍	❍	❍
●	●	●	●	●	●	●
●	●	●	●	●	●	●
❍	❍	❍	❍	❍	❍	❍
❍	❍	❍	❍	-	❍	❍
❍	❍	❍	❍	-	❍	❍

E1 - Electric Infinitely Variable Control.
E2 - Electric Two Position Control. (2-Speed)
E4 - Electric Infinitely Variable (E1) w/ Zero Displacement.
H1 - Hydraulic Infinitely Variable Control.
H2 - Hydraulic Two Position Control. (2-Speed)
H4 - Hydraulic Infinitely Variable (H1) w/ Zero Displacement.
EH1P - H1 Control w/ Pressure Override, & Electric Displacement Override. (Hydraulic Override Available.)
EH1PB - H1 Control w/ Pressure Override, Electric Displ. Override & Electric Brake Pressure Shut off. (Hyd. Avail.)

NOTE: E1, E2, H1, and H2 require an external servo supply pressure.

3 CONTROL RANGE

●	●	●	●	❍	●	●
❍	❍	❍	❍	❍	❍	❍
-	-	-	-	●	-	-
❍	❍	❍	❍	❍	❍	❍

L - 8-14 bar (116-203 psi)
M - 10-16 bar (145-232 psi)
N - 4-16 bar (58-232 psi)
X - Not Applicable (E2 and H2 Controls, Pos. 2)

Must Specify w/ Electric Controls.

●	●	●	●	●	●	●
●	●	●	●	●	●	●
❍	❍	❍	❍	❍	❍	❍

4 VOLTAGE

1 - 12 Volt DC (E1, E2, E4, EH1P, & EH1PB Controls Only.)
2 - 24 Volt DC (E1, E2, E4, EH1P, & EH1PB Controls Only.)
X - Not Applicable (H1, H2, or H4 Controls, Pos. 2)

Must Specify w/ Electric Controls.

❍	❍	❍	❍	❍	❍	❍
●	●	●	●	●	●	●
❍	❍	❍	❍	❍	❍	❍

5 CONNECTOR TYPE

A - AMP Junior-Timer (E1, E2, E4, EH1P, & EH1PB Controls Only.)
H - Hirschmann (E1, E2, E4, EH1P, & EH1PB Controls Only.)
X - Not Applicable (H1, H2, or H4 Controls, Pos. 2)

●	●	●	●	-	-	-
▲	▲	▲	❍	●	●	●

6 PORTING

D - Metric Straight Thread Flat Face Port (DIN 3852)
I - Metric Straight Thread O-Ring Port (ISO 6149)

NOTE: High Pressure Work Ports "A" and "B" are SAE Code 62 with Metric Threads (ISO 6162).

●	●	●	-	-	-	-
-	-	-	●	●	●	-
-	-	-	-	-	-	●
-	-	❍	❍	-	❍	-

7 MOUNTING

C - SAE C, 2-Bolt
D - SAE D, 2-Bolt
E - SAE E, 4-Bolt
P - Plug-In

All Shafts are ANSI B92.1

●	●	●	-	-	-	-
-	-	-	●	-	●	-
-	-	-	-	-	-	●
❍	❍	-	-	-	-	-
-	-	❍	-	-	-	-
-	-	-	❍	●	❍	▲

8 SHAFT

C - SAE C 14T, 12/24 dP
D - SAE D 13T, 8/16 dP
F - SAE F 15T, 8/16 dP
H - ANSI 21T, 16/32 dP
23T, 16/32 dP
27T, 16/32 dP

Model Code for HMV -02 Series Variable Displacement Motors

9	10	11	12	13	14	15	16	17	18
X	070	C	10	N	X	R	X	2	X

S = _____

(Only when "S" is selected in pos. 18. Specify requirement(s)). Otherwise omit "S ="

18 SPECIALS

X - None

S - Call out requirement in clear text or use specified code from factory.

FRAME SIZE						
55	75	105	135	135D	165	210
●	●	●	●	●	●	●
c	c	c	c	c	c	c

17 PRODUCTION LEVEL

2 - Assigned at Factory

●	●	●	●	●	●	●

16 COUNTER BALANCE VALVE

	DECELERATION VALVE						
X - Without Counter Balance Valve	●	●	●	●	●	●	●
T - Track Applications	-	❍	❍	❍	-	-	-
W - Wheel Applications	-	❍	❍	❍	-	-	-
H - Hoist Applications	-	❍	❍	❍	-	-	-

15 PORT ORIENTATION

A - Radial Ports (Side)	●	●	●	●	●	●	●
B - Axial Ports (Rear)	❍	❍	❍	❍	❍	❍	❍

14 CROSSOVER RELIEF

	Specify Setting in BAR. (1 bar = 14.5 psi)						
X - Without High Pressure Crossover Relief	●	●	●	●	●	●	●
_ _ _ - Specify setting in bar. (For P Only in Pos.11)	❍	❍	❍	❍	❍	❍	❍

13 PURGE FLOW

N - Normal (Open Loop - ~4 lpm (~1 gpm), Closed Loop - ~10 lpm (~2.6 gpm))	●	●	●	●	●	●	●
R - 50% Reduced (Closed Loop Only)	❍	❍	❍	❍	❍	❍	❍
X - None. (Only applies when "X - Without Purge Relief Valve" is selected in Pos. 12)	❍	❍	❍	❍	❍	❍	❍

12 PURGE RELIEF

10 - 10 bar (145 psi) - (Closed Loop Only)	●	●	●	●	●	●	●
14 - 14 bar (203 psi) - (Closed Loop Only)	❍	❍	❍	❍	❍	❍	❍
5 - 5 bar (73 psi) - (Open Loop)	●/❍	●/❍	●/❍	●/❍	●/❍	●/❍	●/❍
X - Without Purge Relief Valve	❍	❍	❍	❍	❍	❍	❍

11 PURGE / FLUSHING

B - Blocked	❍	❍	❍	❍	❍	❍	❍
C - Closed Loop (Purge Relief - 10 bar)	●	●	●	●	●	●	●
O - Open Loop (Flow Control - 5 bar)	●	●	●	●	●	●	●
P - Plain (Without purge) (Use with Cross Over Relief. Pos. 14)	●	●	●	●	●	●	●

10 MIN DISPLACEMENT

	1 cc/rev = 0.061 cir						
_ _ _ - Specify Setting in cc/rev.	●	●	●	●	●	●	●

9 MAX DISPLACEMENT

	1 cc/rev = 0.061 cir						
X - Standard Setting. Unit Not Destroked.	●	●	●	●	●	●	●
_ _ _ - Specify Setting in cc/rev.	❍	❍	❍	❍	❍	❍	❍

● = Standard
❍ = Option
c = Special, Consult Factory
- = Not Available
*** = With Restriction(s)**
▲ = In Development. Consult Factory.