## Series 26 Motor General Specifications

Rotation	Bi-Rotation
Mounting Flange	SAE A 2 Bolt
Max. Continuous Pressure†	210 bar [3000 PSI]*
Max. Intermittent Pressure <sup>††</sup>	240 bar [3500 PSI]**
Minimum Speed at Continuous Pressure	750 RPM
Maximum Rotating Torque at 0 Pressure	4 Nm [36 lb-in]
Maximum Continuous Operating Temperature	105°C [220°F]
Minimum Continuous Oil Viscocity	5.7 cSt [45 SUS]
Minimum Operating Temperature	-29°C [-20°F]
Maximum Inlet Vacuum at Operating Condition	0,8 bar Abs. [11.6 psi Abs.]
Maximum Thrust Load	50 lbs.
Maximum Seal Pressure	150 PSI, 200 PSI @ 1500 RPM

† Continuous - motor may be run continuously at these ratings.

11 Intermittent - intermittent operation, 10% of every minute.

\* 31.8 cm³/rev. [1.94 in³/rev.] displacement max. continuous pressure is 190 bar [2750 PSI].

\*\* 31.8 cm³/rev. [1.94 in³/rev.] displacement max. intermittent pressure is 224 bar [3250 PSI].

For side load limits consult your Eaton representative.

Displacement cm <sup>3</sup> /r [in <sup>3</sup> /r]	7,0	8,8	10,1	11,6	14,5	17,3	20,3
	[.43]	[.54]	[.62]	[.71]	[.88]	[1.06]	[1.24]
Max. Intermittent Pressure bar [PSI]	241	241	241	241	241	241	241
	[3495]	[3495]	[3495]	[3495]	[3495]	[3495]	[3495]
Rated Speed (RPM)	3600	3600	3600	3600	3600	3200	3200
Minimum Output Flow at Continuous	22,2	27,9	32,0	36,7	48,0	50,9	59,8
Rated Speed and Pressure LPM [GPM]	[5.9]	[7.4]	[8.5]	[9.7]	[12.7]	[13.5]	[15.8]
Input Power at Intermittent Rated	11,9	15,0	17,2	19,7	24,7	26,2	30,7
Speed and Pressure kW [HP]	[16.0]	[20.1]	[23.0]	[26.5]	[33.1]	[35.1]	[41.2]

Displacement cm <sup>3</sup> /r [in <sup>3</sup> /r]	23,1	25,2	26,0	28,8	30,3	31,7
	[1.41]	[1.54]	[1.59]	[1.76]	[1.85]	[1.93]
Max. Intermittent Pressure bar [PSI]	241	241	241	241	234	224
	[3495]	[3495]	[3495]	[3495]	[3393]	[3248]
Rated Speed (RPM)	3000	3000	3000	3000	3000	3000
Minimum Output Flow at Continuous	63,8	69,6	71,8	79,5	83,6	87,5
Rated Speed and Pressure LPM [GPM]	[16.8]	[18.4]	[19.0]	[21.0]	[22.1]	[23.1]
Input Power at Intermittent Rated	32,8	35,7	36,9	40,8	41,7	41,8
Speed and Pressure kW [HP]	[43.9]	[47.9]	[49.4]	[54.8]	[55.9]	[56.0]

The performance data in the table above and the following graphs was collected using a mineral base oil with a viscosity of 133 SUS at 49°C [120°F].

### **Ordering Information**

#### Catalog Assemblies Cross Reference

Standard catalog assemblies are built from high production parts and are the most economical pump assemblies available in this series. The standard assembly order number is a preassigned part number and may be used to order the specific standard assembly (see page 24).

## Series 26 Motor Performance Data



DISPLACEMENT	FRONT MOUN DIM A	NT: 2 BOLT SAE A DIM B	AND B DIM C	DIM D	
cm3/r [in3/r]	mm [in]	mm [in]	mm [in]	mm [in]	
7.0 [.43]	69.2 [2.72]	67.9 [2.67]	89.0 [3.50]	96.6 [3.80]	
8.8 [.54]	71.1 [2.80]	69.8 [2.75]	90.9 [3.58]	98.5 [3.88]	
10.2 [.62]	72.6 [2.86]	71.3 [2.81]	92.4 [3.64]	100.0 [3.94]	
11.6 [.71]	74.3 [2.93]	73.0 [2.88]	94.1 [3.71]	101.7 [4.01]	
12.5 [.76]	75.2 [2.96]	74.0 [2.91]	95.1 [3.74]	102.7 [4.04]	
14.6 [.89]	77.5 [3.05]	76.2 [3.00]	97.3 [3.83]	104.9 [4.13]	
17.4 [1.06]	80.7 [3.18]	79.4 [3.13]	100.5 [3.96]	108.1 [4.26]	
20.3 [1.24]	83.9 [3.30]	82.6 [3.25]	103.7 [4.08]	111.3 [4.38]	
23.1 [1.41]	87.1 [3.43]	85.8 [3.38]	106.9 [4.21]	114.5 [4.51]	
26.1 [1.59]	90.3 [3.56]	89.0 [3.51]	110.1 [4.34]	117.7 [4.64]	
28.8 [1.76]	93.5 [3.68]	92.2 [3.63]	113.3 [4.46]	120.9 [4.76]	
31.8 [1.94]	96.7 [3.81]	95.4 [3.76]	116.5 [4.59]	124.1 [4.89]	

## **Series 26 Motor**

Model Code -Single Series 26 Gear Motors can be ordered by using the following Model Code.

A twenty-four digit coding system has been designed to identify the features presently available on single gear pumps. The characters and their relative positions within the code identify specific features.

Use the Model Code Matrix as an aid when assembling the model code for the pump with the features you desire. It may be helpful to photocopy the matrix and write the numbers and letters into the boxes as you select features.

All twenty-four digits of the code must be submitted when ordering.

All dimensions are in inches.

# ADM \* \* \*\* \*\* A 00 00 0 00 0 00 0 A

 1, 2, 3
 4
 5
 6, 7
 8, 9
 10
 11, 12
 13, 14
 15
 16, 17
 18
 19, 20
 21, 22
 23
 24

## 1, 2, 3 26 Series

ADM – Gear Motor

## 4 Unit Type

**A** – Plain

## **5** Output Rotation

**D** – Bi-Directional

L – Left-hand Rotation CCW

 $\boldsymbol{\mathsf{R}}$  – Right-hand Rotation CW

## 6,7 Displacement

(cm<sup>3</sup>/r [in<sup>3</sup>/r]) 01 = 7.0 [.43] 02 = 8.8 [.54] 03 = 10.2 [.62] 04 = 11.6 [.71] 05 = 14.6 [.89] 06 = 17.4 [1.06] 07 = 20.3 [1.24] 08 = 23.1 [1.41] 09 = 25.2 [1.54] 10 = 26.1 [1.59] 11 = 28.8 [1.76] 12 = 30.3 [1.85] 13 = 31.8 [1.94]

## 8,9 Output Shaft

**AA** = 9 Tooth Spline 16/32 Spline, Min. Full Spline 22.4 [.88], Shaft Extension 31.8 [1.25]

**AB** = 11 Tooth Spline 16/32 Spline, Min. Full Spline 22.4 [.88], Shaft Extension 31.8 [1.25]

AC = Straight Shaft Dia 19.05 [.750], Keyway 4.8 x 25.4 [.19 x 1.00], Shaft Extension 31.8 [1.25] (Key Included)

**AD** = Straight Shaft Dia 15.88 [.625], Keyway 4.1 x 18.3 [.16 x .72], Shaft Extension 31.8 [1.25] (Key Included)

AJ = Dia 15.88 [.625], Taper .125:1, .500-20 UNF-2A, Keyway 4.1 x 17.5 [.16 x .69], Shaft Extension 43.7 [1.72] (Key Included)

### 10 Mounting Features

**A** = 2-Bolt A - SAE Flange Series 82-2

# 11, 12 Ports, Sizes and Location- Backplate

01 = Inlet Port 1.0625-12 UN-2B SAE O-Ring Port; Outlet Port 1.0625-12 UN-2B SAE O-Ring Port - Side Ports

**02** = Inlet Port 1.0625-12 UN-2B SAE O-Ring Port; Outlet Port 1.0625-12 UN-2B SAE O-Ring Port - Rear Ports

03 = Inlet Port .875-14 UN-2B SAE O-Ring Port; Outlet Port .875-14 UN-2B SAE O-Ring Port - Side Ports

**04** = Inlet Port .875-14 UN-2B SAE O-Ring Port; Outlet Port .875-14 UN-2B SAE O-Ring Port - Rear Ports

## 13, 14 Case Drain

00 = No Case Drain

**AA =** .5625-18 UNF-2B SAE O-Ring Port - Bottom

**AB** = .5625-18 UNF-2B SAE O-Ring Port - Top

AC = Internal with Bi-Directional Checks, .5625-18 UNF-2B SAE O-Ring Port - Plugged

**AD** = .5625-18 UNF-2B SAE O-Ring Port - Bottom-Plugged

**AE** = .5625-18 UNF-2B SAE O-Ring Port - Top-Plugged

#### 15 Relief Valve Type

**0** = No Relief Valve

**C** = Cross-over

# <sup>16, 17</sup> Relief Valve Setting bar [lbf/in<sup>2</sup>]

**00** = No Relief Valve Setting

**AA** = 117.2 [1700]

**AB** = 141.3 [2050]

**AC =** 31.0 [450]

## 18 Test Data

0 - GenericA - Unit Specific(Used with Relief Valve)

## 19, 20 Special Features

00 - No Special Features

#### 21, 22 Paint

**00 -** None **0A -** Primer per Spec 209-13A **0B -** Black per Spec 209-13B

<sup>23</sup> Identification

0 - Standard

24 Design Code

**A** - A