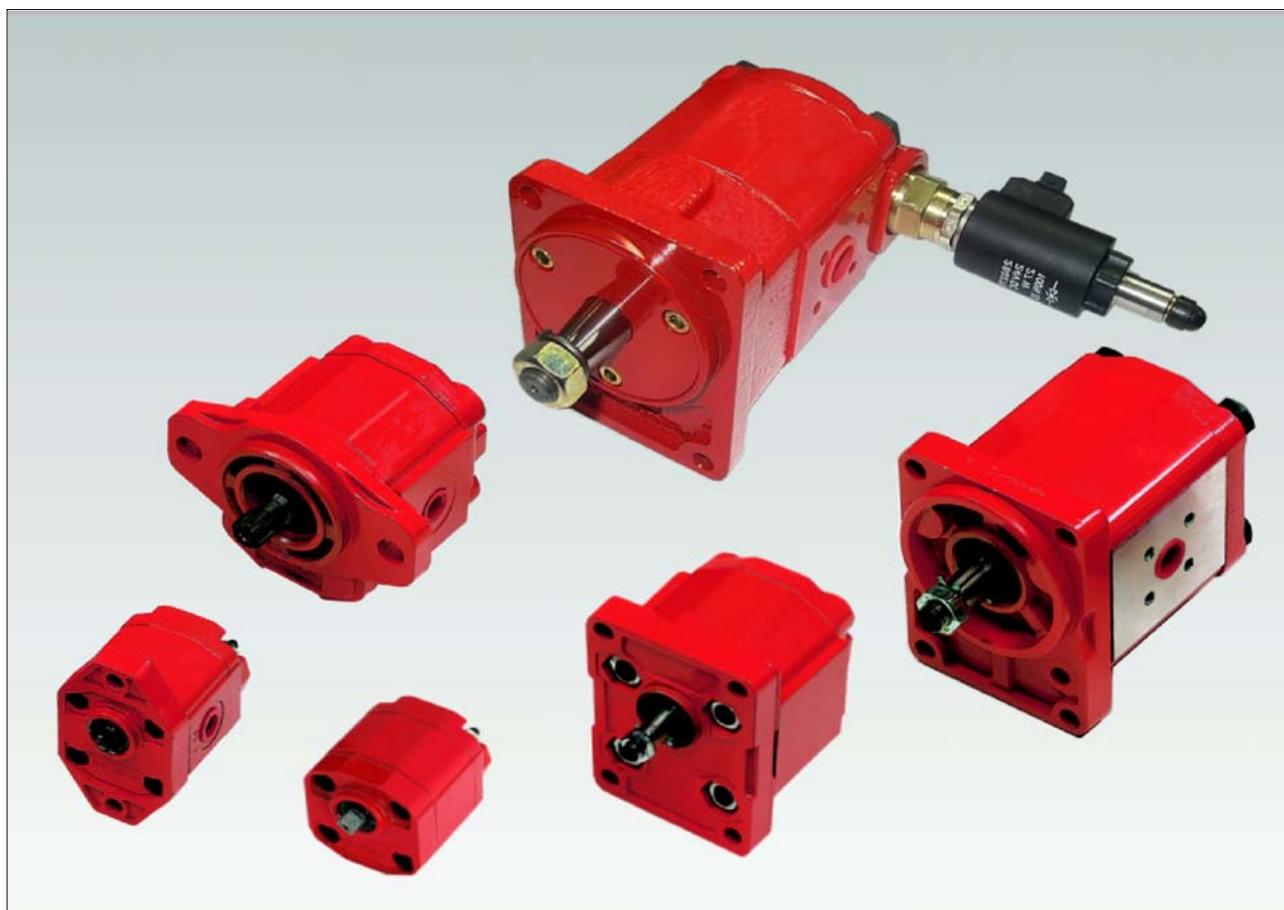
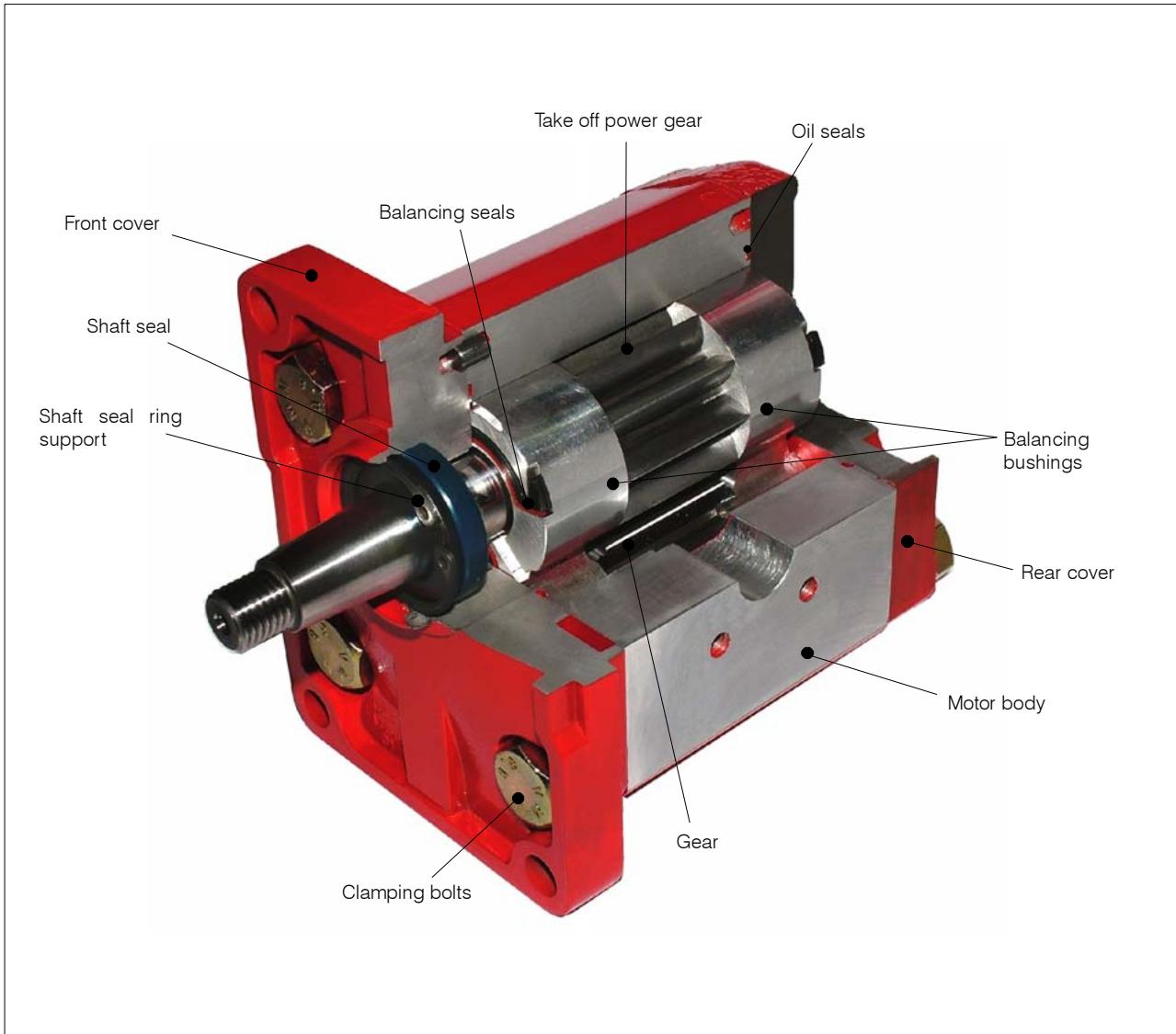


Gear Motors





Contents

| | | |
|---|--|----|
| 1 | General information | 3 |
| 2 | Technical information | 4 |
| 3 | Gear motors group APM05 - APMR05 | 16 |
| 4 | Gear motors group APM100 | 25 |
| 5 | Gear motors group APM200 - APMR200 - APFM200 | 38 |
| 6 | Accessories | 60 |
| 7 | Composition of product code | 61 |

1 General information

1.1 Introduction to the product

Gear motors are widely used in modern hydraulic systems due to their high performance, long service life, and low purchase and maintenance costs.

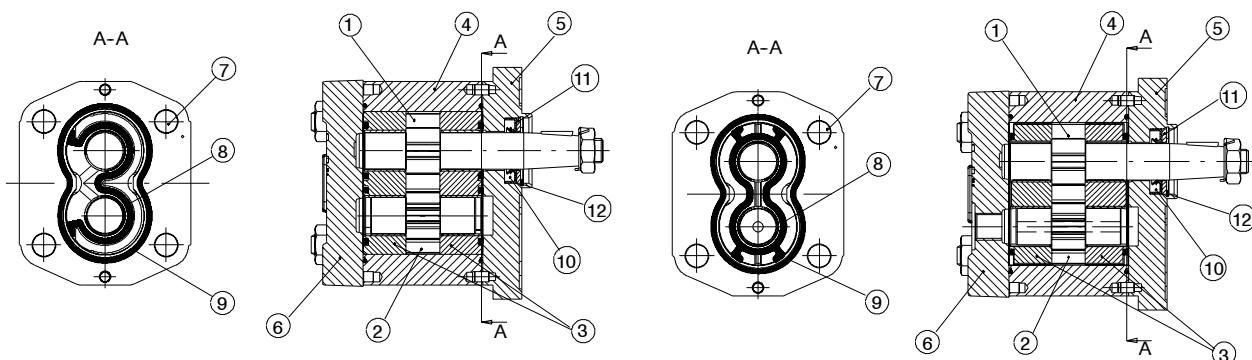
Product development has made it possible to achieve high operating pressures, excellent volumetric and mechanical efficiency, and lower noise levels, in operation, by means of:

- meticulous CAD design of the gear teeth and balancing areas
- an exacting choice of high-performance materials
- carefully controlled heat treatments

- increasingly tight coupling tolerances, and a high standard of surface finish.

- dedicated first running in cycle for motors specifically set up Bucher Hydraulics S.p.A. has achieved these results by constantly improving its design, control, and manufacturing techniques in line with the latest technological developments, while simultaneously introducing a Quality Control System which ensures that every single product offers the same high standards.

Product description



1 - Take off power gear

2 - Gear

3 - Balancing bushings

4 - Motor body

5 - Front cover

6 - Rear cover

7 - Clamping bolts

8 - Pressure balancing seals

9 - Oil seals

10 - Shaft seal

11 - Shaft seal ring support

12 - Seeger elastic ring

Referring to the motor shown in the figure, feeding pressurised oil ($Q - \Delta p$) into the inlet port of the motor, the gear 1 and 2 turn, and power, as torque and speed ($M - n$) can be obtained at the output shaft end.

The gears are made from high strength steel alloy.

The bushings (3) serve a dual purpose:

- to act as a bearing for the gears
- to balance axial and radial thrust in proportion to the change in operating pressure.

The gears-bushings assembly is fitted inside the motor body (4), in which generally the inlet and outlet ports are formed. The motor body is made of high strength extruded aluminium alloy. The front cover (5), which also acts as a mounting flange, and the rear cover (6) are connected to one another by clamping bolts (7).

The motor assembly is completed by a series of seals:

- Balancing seals (8) can be fitted in recesses in the bushings as shown in the figure, or in the covers. Their purpose is to delimit the longitudinal balancing area separating the high and low pressure zones.
- Oil seals (9) prevent oil from leaking out.
- A shaft seal with a steel supporting ring (11) locked by a seeger elastic ring (12) purpose of preventing oil leaks

from the gear shaft end and preventing dust or other pollutants from entering the motor itself. Unless otherwise specified, the seals are nitrile NBR compound offering high mechanical strength and heat resistance.

Viton FKM seals are available on request.

(see 2.2 Recommended fluids/Allowed temperatures)

Versions available

The Bucher Hydraulics S.p.A. product range includes motors of groups APM05-APM100-APM200 (corresponding to the common group denominations: 05-1-2).

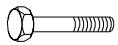
For front flange, shaft-end and inlet-outlet versions, motors are available in many and different European, American and special customised configurations. Moreover motors of the groups 05 and 2 are also available in the reversible rotating version with external threaded drain port. For the group 2, the version with internal drain connection, which does not require any hose, is also available.

Bucher Hydraulics S.p.A. will examine any request for special versions, features, and customisations not shown in this catalogue. To make such a request, please contact our Sales Department.

1.2 Non-standard symbols used in the text



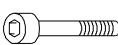
Check nut

Hexagonal-head screw
(TE screw)

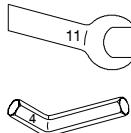
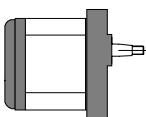
O-Ring



Lock washer

Socket head screw
(TCE screw)

Woodruff key

Dinamometric
spannersVersion with front and rear
cover in cast iron,
available

Square key

2 Technical information

2.1 Identifying the rotation direction

The rotation direction of a gear motor is identified by looking at the motor from the front and with the take off shaft turned upwards (see figures below).

Motors with clockwise rotation (D) have a take off shaft which turns clockwise, with the inlet port on the left and the outlet port on the right.

Motors with counterclockwise rotation (S) have a take off shaft which turns counterclockwise, with the inlet port on the right and the outlet port on the left.

The figure also shows the pressure flow inside the motors as the oil is transferred from the inlet port to the outlet port.

As regards reversible motors (R), the ports are alternatively

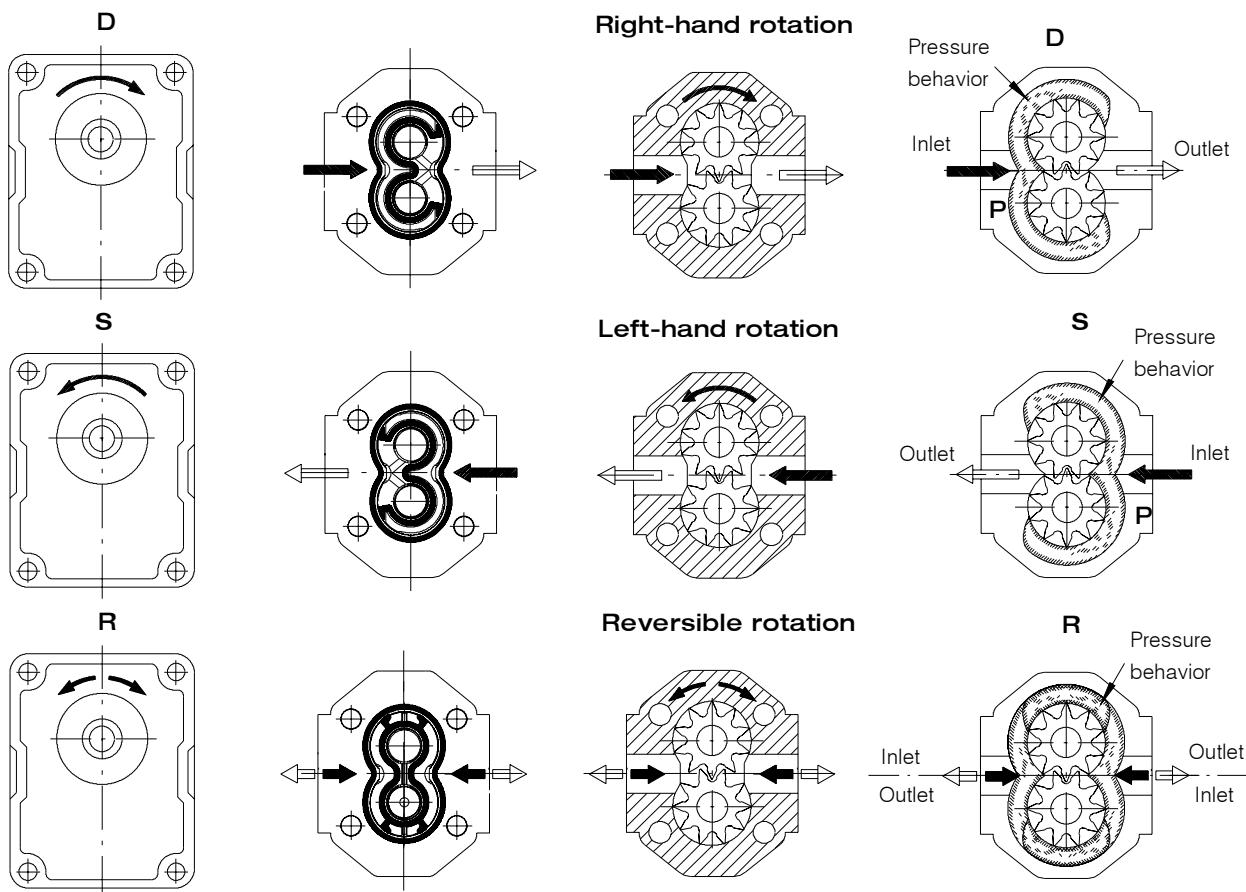
for high and low pressure.

Motors with a unidirectional rotation (D or S) have the denomination APM. Motors with reversible rotation have the denomination APMR.

It is possible to change the rotation direction of the entire range of motors without having to replace any component, except for the AP100 group, for which it is necessary to replace the front cover.

To ensure a good technical result, we recommend in any case that such inversion be carried out at our factory.

Technical descriptions are available on request, which show the correct procedure for the motor rotation inversion.



2.2 Recommended fluids/Allowed temperatures

We recommend using only mineral oil-based hydraulic fluids that comply with the ISO/DIN standards.

Viscosity range: recommended **20 ÷ 120 mm²/s (cSt)**
permitted up to **700 mm²/s (cSt)**

Operating temperature

| Type of seals | Temperature | |
|---------------|-----------------|--------------------------|
| | APM05 APMR05 | APM100 APM200-APMR200 |
| Buna N | -15 + 65° C | -15 + 80° C |
| Viton* | -10 + 80° C | -10 + 120° C |

* Caution! – Use of motors at temperatures above 80°C must always be agreed upon with our Technical Office, and in any case this can cause a significant worsening in the volumetric efficiency.

For use under conditions different from those indicated in this catalogue, please contact our Sales Department.

2.3 Outlet

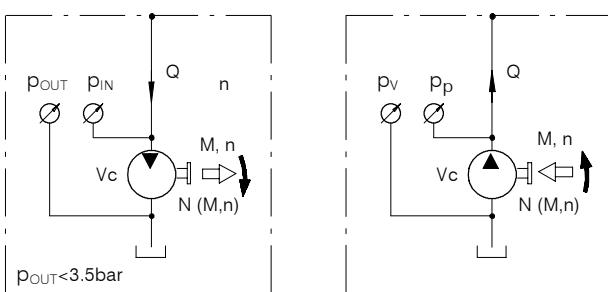
2.3.1 Unidirectional motors

As a matter of principle, unidirectional motors correspond to counter rotating pumps. The balancing seals are not symmetric and, consequently, two different pressure sides: inlet High-pressure and outlet Low-pressure side, which must not be exchanged each other, are defined. The outlet Low-pressure side loads the back side of the oil retaining shaft seal, a dedicated steel ring for supporting it, is adopted. The maximum outlet Low-pressure value is limited by the shaft seal and its support and it must be **M1 ≤ 3.5 bar (50 PSI)**, although the real value is related to the shaft speed: for detailed information, please, contact our Sales Dept.

To keep P out below the suggested value, the following must be avoided:

- long distance between motor and tank
- long stretches of piping
- special features such as: bends; reductions in diameter; quick couplings; etc.

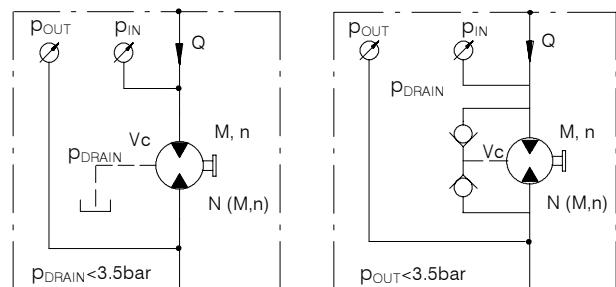
Having filtration on the return it is also advisable to choose a filter of a suitable size to minimise any pressure drop and to take measures to prevent gradual clogging over time.



2.3.2 Reversible motors

Reversible rotating motors have symmetric balancing seals and both port, inlet and outlet, can be, alternatively, operate as inlet High-pressure and outlet Low-pressure port. A sealed area is connected to the back side of the oil retaining shaft seal and its pressure must be limited connecting it to the tank, through a drain threaded port, which is generally, placed on the motor rear cover.

The drain hose must be chosen in order to avoid that the pressure at the drain port does not exceed 3,5 bar. Motors with internal drain connection, are available, but adopting this solution the outlet Low-pressure side must be ≤3,5 bar.



2.4 Filtration

A short service life of a gear motor is normally due to the presence of impurities in the oil.

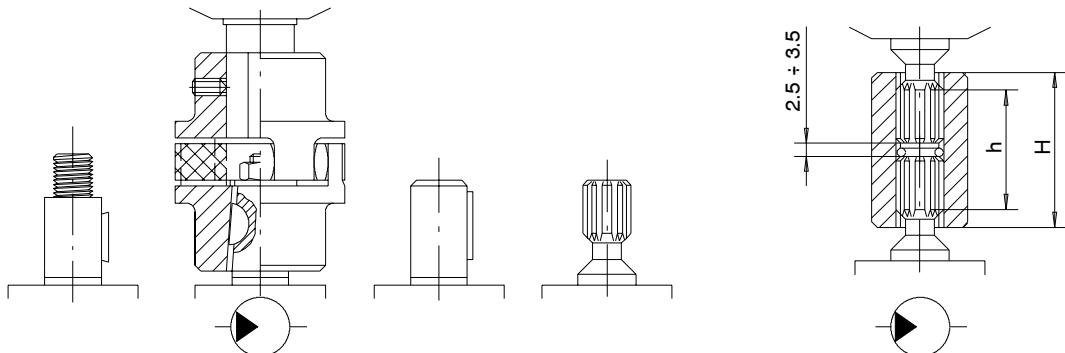
It is therefore essential to have an effective filter in the system and to carry out regular maintenance to ensure a long, trouble-free service life.

When possible and compatible with the hydraulic circuit installed, Bucher Hydraulics S.p.A. recommends that the system have total filtration (high and low pressure, return). In any case, the filtering system must constantly ensure an oil contamination class equal to or less than those shown in the following table.

| Operating pressure | > 170 bar 2430 PSI | < 170 bar 2430 PSI |
|-----------------------------------|-----------------------|-----------------------|
| Contamination class NAS 1638 | 9 | 10 |
| Contamination class ISO 4406 | 18/15 | 19/16 |
| Obtain with filter $\beta_x = 75$ | 20 | 25 |

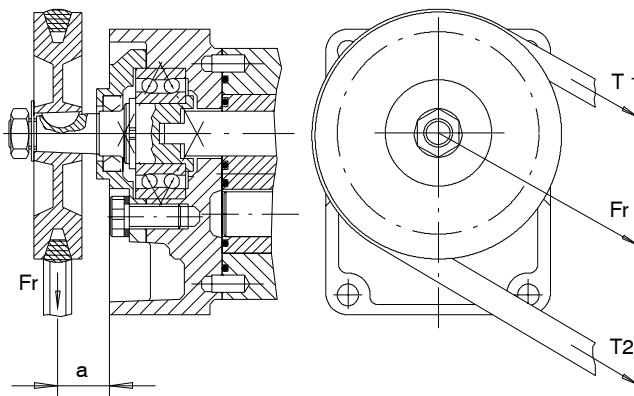
We also recommend that an adequate air filter be installed on the tank to prevent contaminating substances such as dust, sand, etc. from getting into the oil, as these substances can enter the tank through the air flow caused by the level variations in the tank itself.

2.5 Gear Motor-driven unit Coupling



Absolutely no radial or axial forces should be transmitted to the motor shaft in the gear motor-driven unit coupling. Such forces cause rapid and irregular wear on the balancing surface of the bushings and gear supports, with a consequent worsening in motor performance. The coupling joint must be able to absorb any discrepancies in the coaxial alignment of the gear motor-driven unit shafts without placing any load on the motor shaft. In the couplings between splined shafts, the connecting sleeve must be free to move along its axis. The length of the sleeve must be sufficient to cover the splined sections of the gear motor-driven unit shafts completely in any position.

(Example 1)



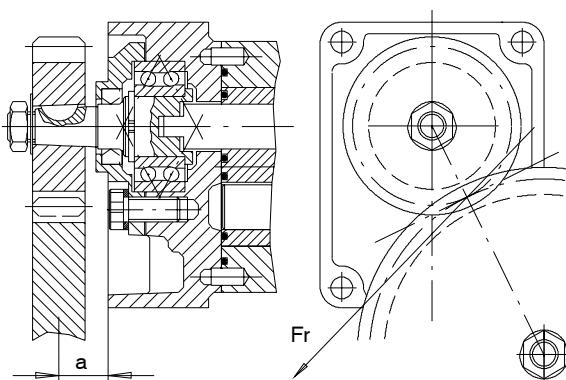
The distance between the ends of the shafts must be between **2.5 ± 3.5 mm (.10" ± .14")**.

Make sure that the splined coupling is suitably lubricated to protect it against rapid deterioration.

If there are radial and/or axial loads on the take off shaft, such as when it is coupled to a V-belt and pulley or pair of gear wheels, it should be fitted with a front cover with supporting bearings. (See examples 1 and 2)

Depending on the motor model concerned, these supports can replace the front cover of the motor (e.g. 201 K8 and 201 K0) or can be fitted in addition to and over the front cover.

(Example 2)



The allowed radial load values "Fr" in relation to "a" are shown in the diagrams of each version equipped with cover with support bearings.

2.6 General installation precautions

In addition to the recommendations regarding fluids, filtration, coupling, etc., we suggest the following:

- For unidirectional motors check always the rotation direction of the motor's take off shaft; it must be compatible with the rotation direction of the motor itself.
- Be particularly careful in cleaning and make sure, when connecting the high and low pressure piping, that no chips, rag threads, teflon tape, etc. get into the motor circulation system.
- Check the tightness of the high and low pressure fittings, the correct positioning of the O-Ring, and make sure there is no dirt between the flange and the motor body.
- To ensure the best heat distribution inside the tank, make sure the return pipe is not too close to the pump's suction piping.

The pipes themselves should be below oil tank level to prevent the formation of foam.

- Do not subject the motors to operating conditions different from those indicated on section 2.8; for extreme operations, always contact our Technical Department.
- Never use fluids different from those indicated in section 2.2.
- Ambient temperature range: -20 ± +50°C
- Any mounting position is allowed
- In the event of motor painting, do not use solvents or paints that are incompatible with the material of the seals. Do not bake paint with excessively high temperatures.
- Do not paint over the product identification plate; the warranty will not be valid if this plate is illegible.

2.6.1 Directives and standards

- Atex:

The equipment and protective systems of these catalogue ARE NOT intended for use in potentially explosive atmospheres that is to say where there is an explosive atmosphere referred to in Article 2 of the Directive 99/92/EC and referred to Article 1.3 of the Directive 94/9/EC.

- Machinery safety

Hydraulic motors are excluded by Directive 98/37/EC

- ISO 9001: 2000

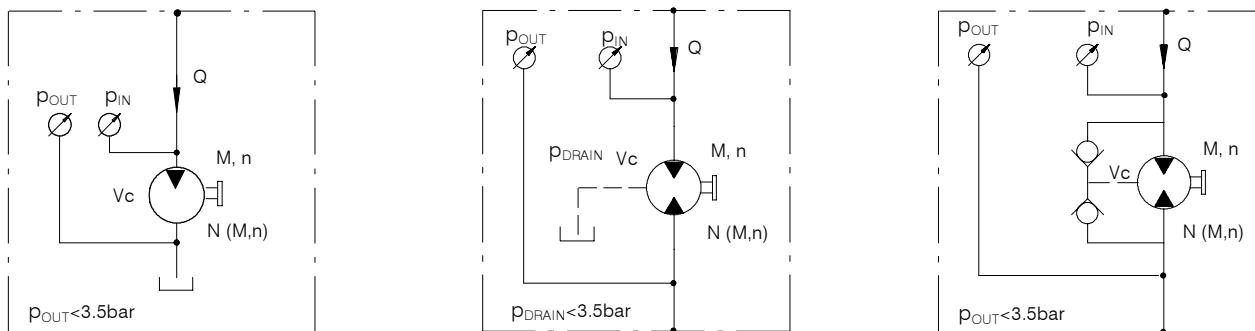
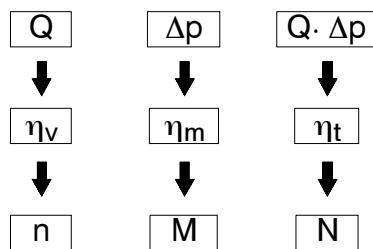
Bucher Hydraulics S.p.A. is certified for research, development and production of directional control valves, gear pumps and motors, power units, electro motors pumps, cartridge valves and integrated manifolds for hydraulic applications.

2.7 Calculating the specifications of a gear motor

The following parameters are defined:

- Vc** = (cm³/r) motor displacement;
- n** = (r/min) no. of rpms of the outlet shaft;
- Q** = (l/min) flow rate;
- Δp** = (bar) P_{IN}-P_{OUT}, operating Δp pressure;
- M** = (Nm) outlet torque;
- N** = (kW) outlet power;
- η_v** = (%) volumetric efficiency;
- η_m** = (%) mechanical efficiency;
- η_t** = (%) total efficiency ($\eta_t = \eta_v \cdot \eta_m$)

2.7.1 Parameter relationships



$$Q = \frac{V_c \cdot n}{10 \cdot \eta_v}$$

$$\Delta p = \frac{M}{1.592 \cdot V_c \cdot \eta_m} \cdot 10^4$$

$$V_c = \frac{10 \cdot Q}{n} \cdot \eta_v$$

$$V_c = 1.592 \cdot \frac{M}{\Delta p \cdot \eta_m} \cdot 10^4$$

$$n = \frac{10 \cdot Q}{V_c} \cdot \eta_v$$

$$M = 1.592 \cdot V_c \cdot \Delta p \cdot \eta_m \cdot 10^{-4}$$

$$N = \frac{Q \cdot \Delta p}{6.12 \cdot 10^4} \cdot \eta_t$$

Example

APM100/2.5 Vc= 2.5 cm³/r Q= 4 l/min Δp=200 bar ηv= 94% ηm= 87%

$$n = \frac{10 \cdot 4}{2.5} \cdot 94 = 1500 \text{ r/min.}$$

$$\eta_t = 0.94 \cdot 0.87 = 0.82 = 82\%$$

$$N = \frac{4 \cdot 200 \cdot 82}{6.12 \cdot 10^4} = 1.07 \text{ kW}$$

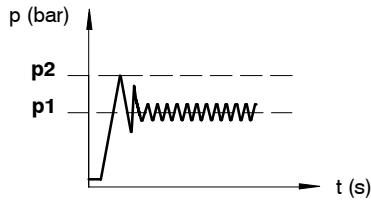
$$M = 1.592 \cdot 2.5 \cdot 200 \cdot 87 \cdot 10^{-4} = 7 \text{ Nm}$$

2.8 High inlet pressure

Pressure levels:

p₁ = continuous pressure

p₂ = max. peak pressure



Application of motor operating at a high number of load cycles has to be submitted to our approval

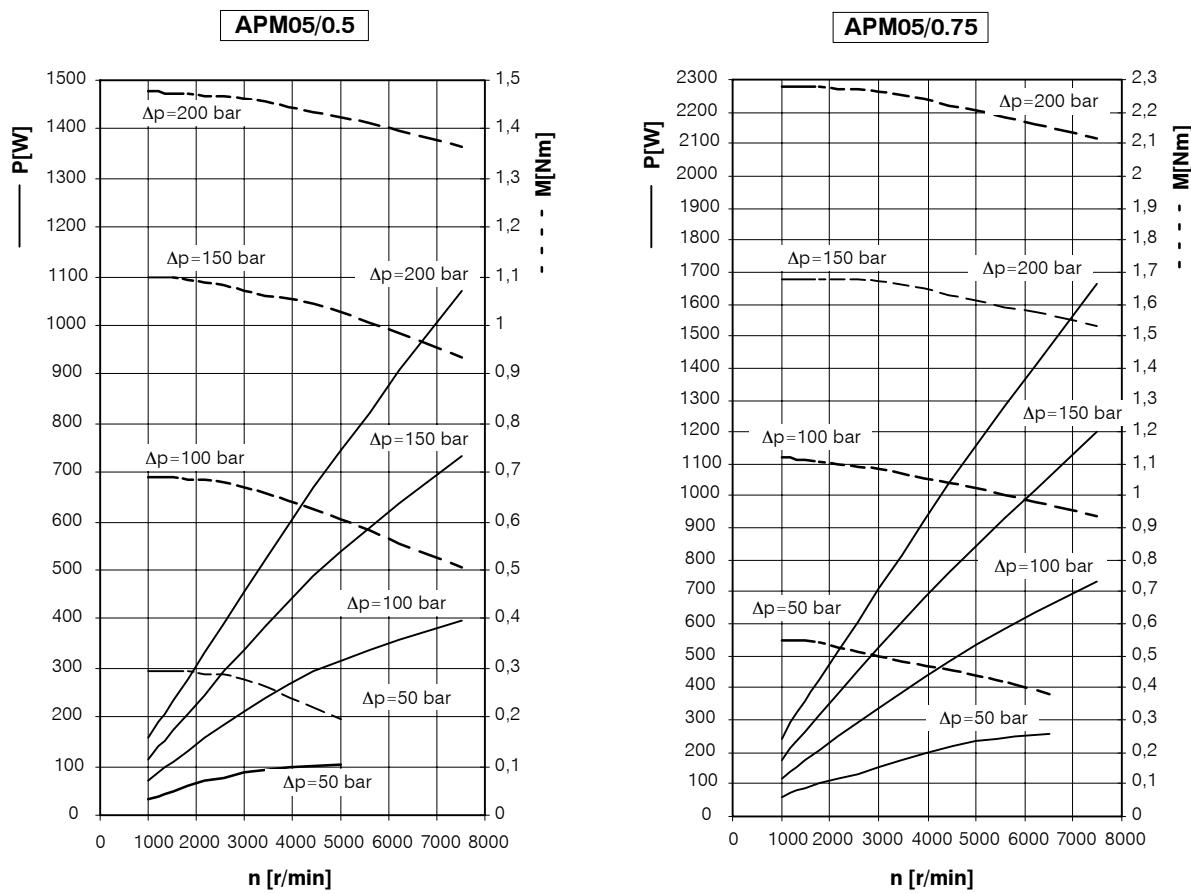
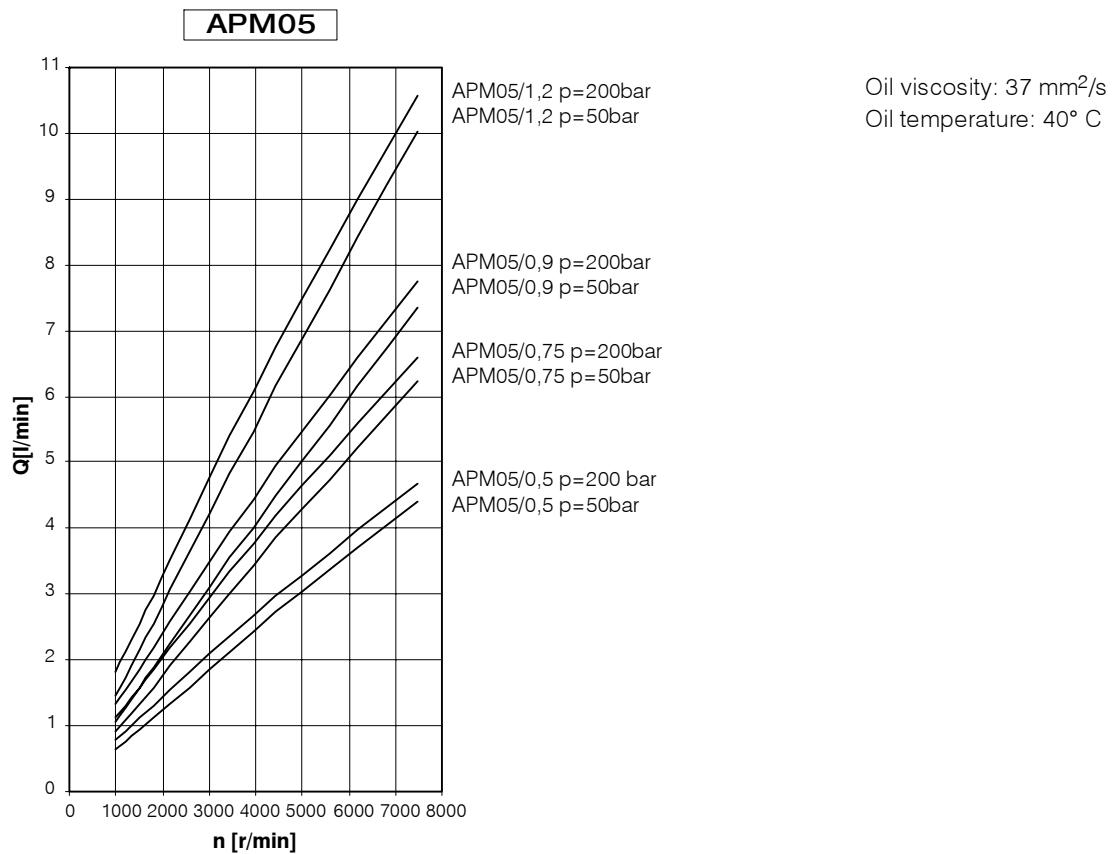
| APM05 | Displacement | | Max. pressure | | | | n min. | n max. | |
|--------------------|--------------|---------------------------|--------------------------|------------|---------------|------------|---------------|---------------|--------------|
| | Type | cm³/rev | Cu. In. P. R. | P1 | | P2 | | | |
| | | | | bar | P.S.I. | bar | P.S.I. | r/min | r/min |
| APM05/0.5 | 0.5 | .030 | .030 | 190 | 2700 | 230 | 3300 | 800 | 7000 |
| APM05/0.75 | 0.75 | .045 | .045 | 190 | 2700 | 230 | 3300 | 800 | 7000 |
| APM05/0.9 | 0.9 | .055 | .055 | 190 | 2700 | 230 | 3300 | 800 | 7000 |
| APM05/1.2 | 1.2 | .073 | .073 | 170 | 2400 | 200 | 2900 | 700 | 6000 |
| APM05/1.6 | 1.6 | .097 | .097 | 170 | 2400 | 200 | 2900 | 700 | 6000 |
| APMR05/0.5 | 0.5 | .030 | .030 | 170 | 2400 | 210 | 3000 | 800 | 7000 |
| APMR05/0.75 | 0.75 | .045 | .045 | 170 | 2400 | 210 | 3000 | 800 | 7000 |
| APMR05/0.9 | 0.9 | .055 | .055 | 170 | 2400 | 210 | 3000 | 800 | 7000 |
| APMR05/1.2 | 1.2 | .073 | .073 | 150 | 2200 | 180 | 2600 | 700 | 6000 |

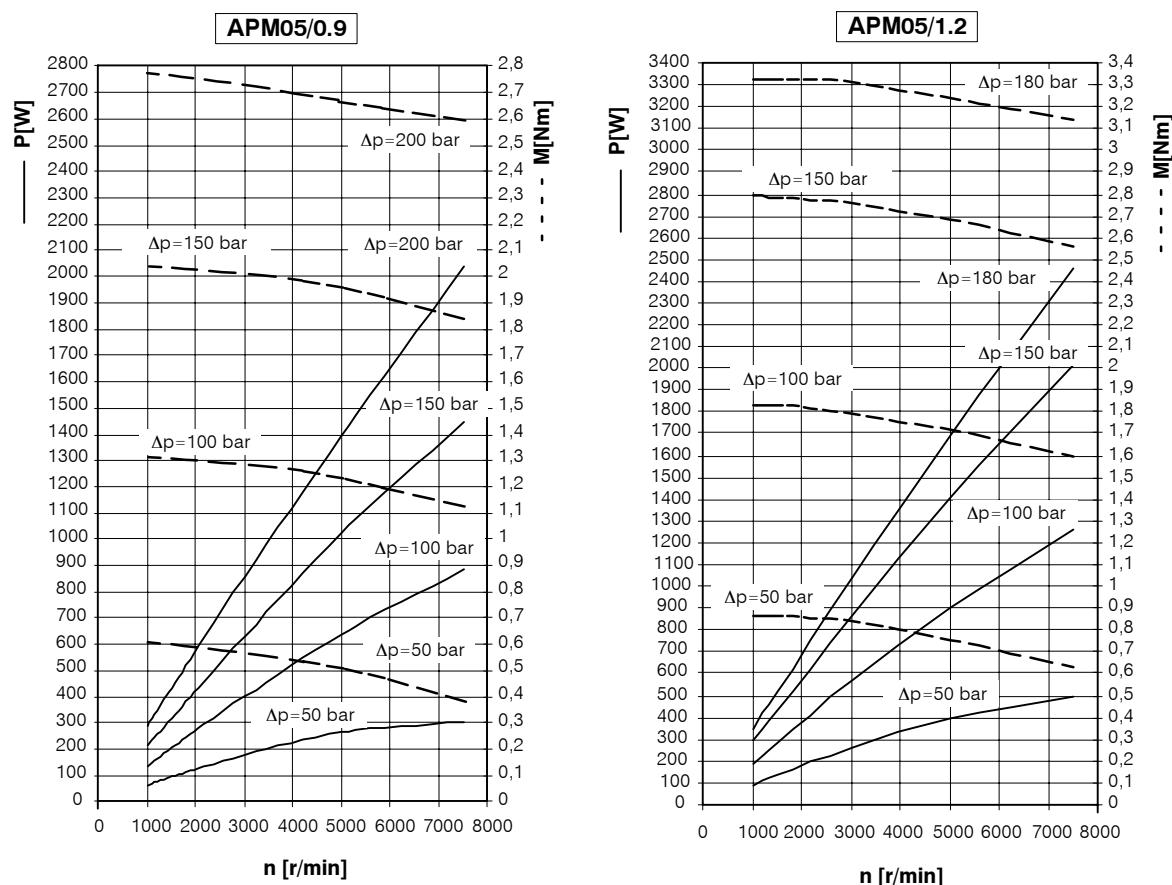
| APM100 | Displacement | | Max. pressure | | | | n min. | n max. | |
|-------------------|--------------|---------------------------|--------------------------|------------|---------------|------------|---------------|---------------|--------------|
| | Type | cm³/rev | Cu. In. P. R. | P1 | | P2 | | | |
| | | | | bar | P.S.I. | bar | P.S.I. | r/min | r/min |
| APM100/2.5 | 2.5 | .152 | .152 | 210 | 3000 | 280 | 4000 | 650 | 5000 |
| APM100/3.5 | 3.5 | .213 | .213 | 210 | 3000 | 250 | 3600 | 650 | 4000 |
| APM100/4.3 | 4.3 | .262 | .262 | 210 | 3000 | 250 | 3600 | 550 | 4000 |
| APM100/5 | 5.0 | .305 | .305 | 210 | 3000 | 250 | 3600 | 500 | 3500 |
| APM100/6.5 | 6.5 | .396 | .396 | 190 | 2700 | 240 | 3400 | 500 | 3000 |
| APM100/8 | 7.8 | .476 | .476 | 180 | 2600 | 230 | 3300 | 500 | 3000 |
| APM100/10 | 10.0 | .610 | .610 | 150 | 2150 | 200 | 2900 | 500 | 2500 |

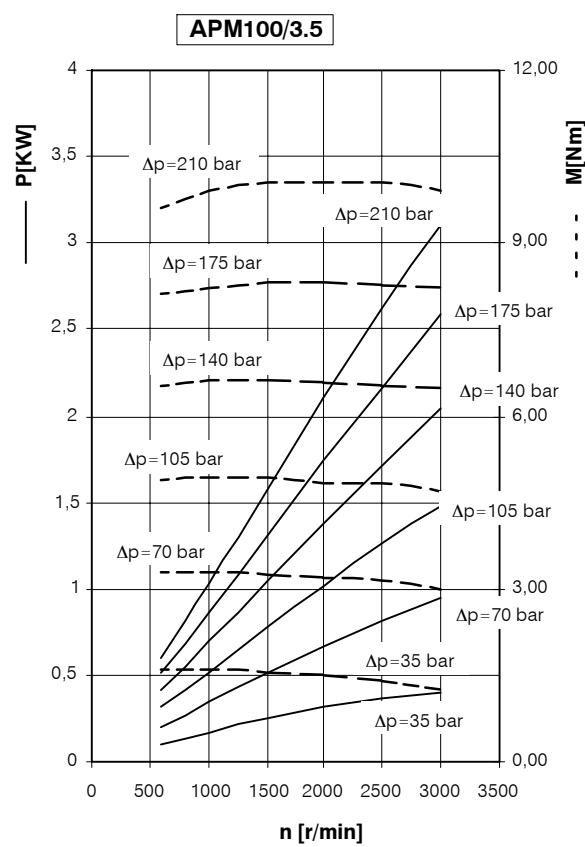
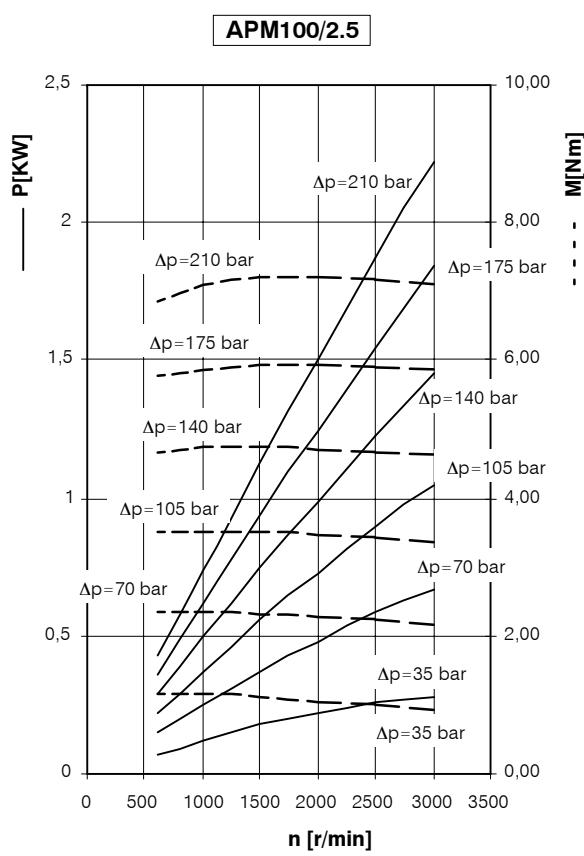
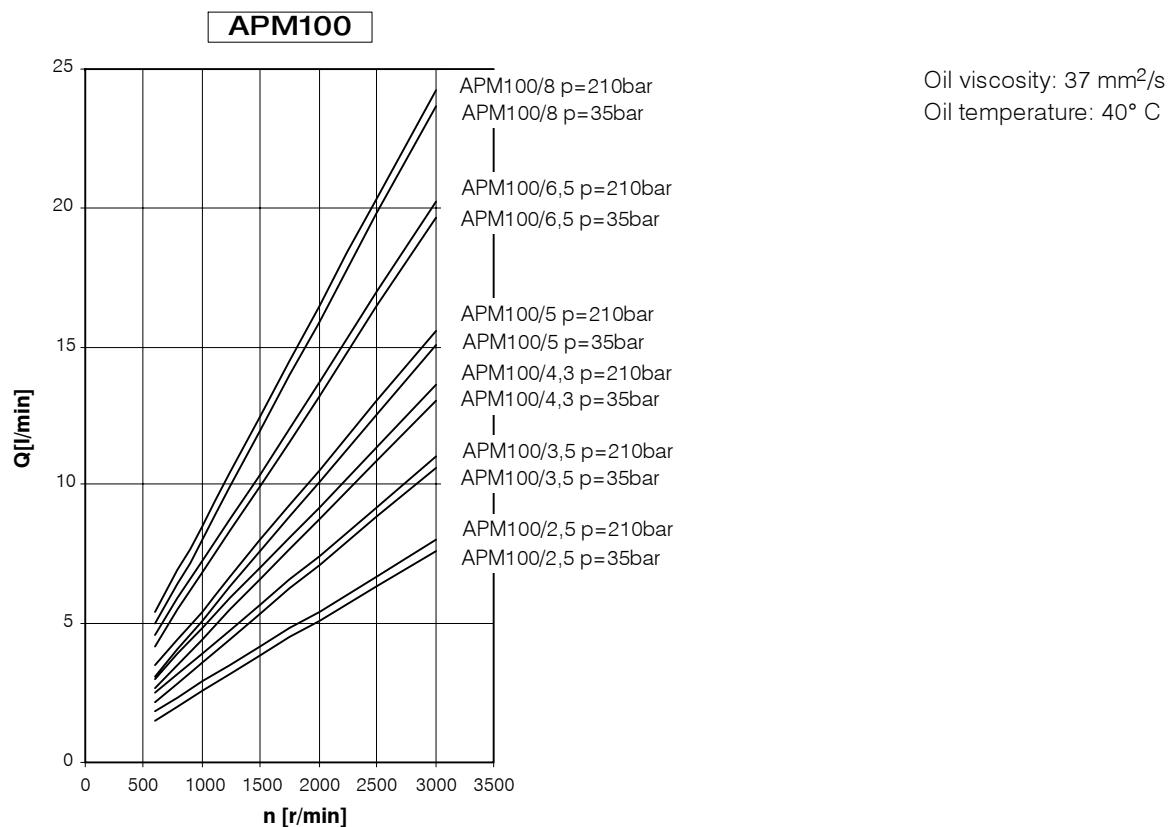
| Type | Displacement | | Max. pressure | | | | n min. | n max. |
|--------------------|---------------------------|--------------------------|---------------|---------------|------------|---------------|---------------|---------------|
| | cm³/rev | Cu. In. P. R. | P1 | | P2 | | | |
| | | | bar | P.S.I. | bar | P.S.I. | r/min | r/min |
| APM200/8.5 | 8.3 | .506 | 220 | 3150 | 250 | 3600 | 650 | 4000 |
| APM200/11 | 11.0 | .671 | 210 | 3000 | 250 | 3600 | 650 | 4000 |
| APM200/15 | 15.0 | .915 | 210 | 3000 | 250 | 3600 | 650 | 3500 |
| APM200/19 | 18.9 | 1.159 | 200 | 2900 | 240 | 3400 | 650 | 3000 |
| APM200/22 | 21.9 | 1.342 | 190 | 2800 | 230 | 3300 | 600 | 3000 |
| APM200/26 | 25.9 | 1.586 | 180 | 2600 | 220 | 3150 | 600 | 2500 |
| APFM200/8.5 | 8.3 | .506 | 220 | 3150 | 250 | 3600 | 650 | 4000 |
| APFM200/11 | 11.0 | .671 | 210 | 3000 | 250 | 3600 | 650 | 4000 |
| APFM200/15 | 15.0 | .915 | 210 | 3000 | 250 | 3600 | 650 | 3500 |
| APFM200/19 | 18.9 | 1.159 | 200 | 2900 | 240 | 3400 | 650 | 3000 |
| APFM200/22 | 21.9 | 1.342 | 190 | 2800 | 230 | 3300 | 600 | 3000 |
| APFM200/26 | 25.9 | 1.586 | 180 | 2600 | 220 | 3150 | 600 | 2500 |
| APMR200/8.5 | 8.3 | .506 | 220 | 3150 | 250 | 3600 | 650 | 4000 |
| APMR200/11 | 11.0 | .671 | 210 | 3000 | 250 | 3600 | 650 | 4000 |
| APMR200/15 | 15.0 | .915 | 210 | 3000 | 250 | 3600 | 650 | 3500 |
| APMR200/19 | 18.9 | 1.159 | 200 | 2900 | 240 | 3400 | 650 | 3000 |
| APMR200/22 | 21.9 | 1.342 | 190 | 2800 | 230 | 3300 | 600 | 3000 |
| APMR200/26 | 25.9 | 1.586 | 180 | 2600 | 220 | 3150 | 600 | 2500 |

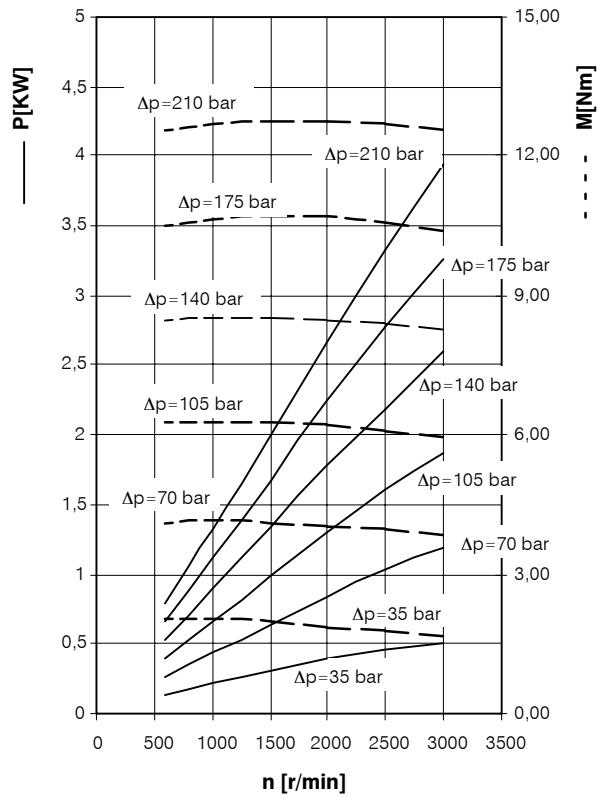
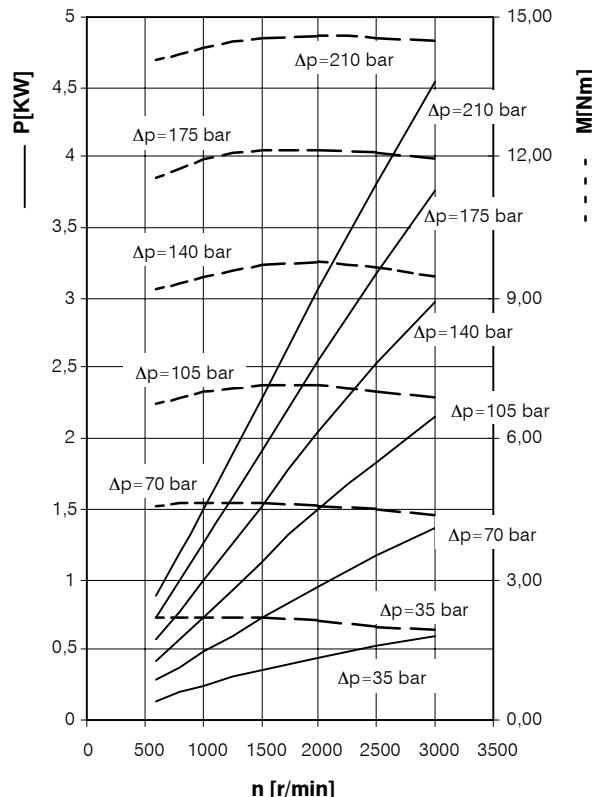
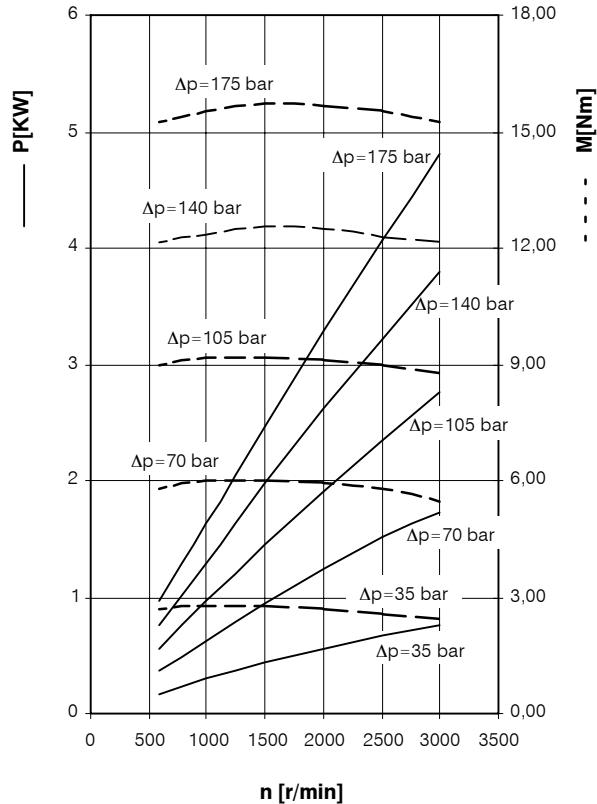
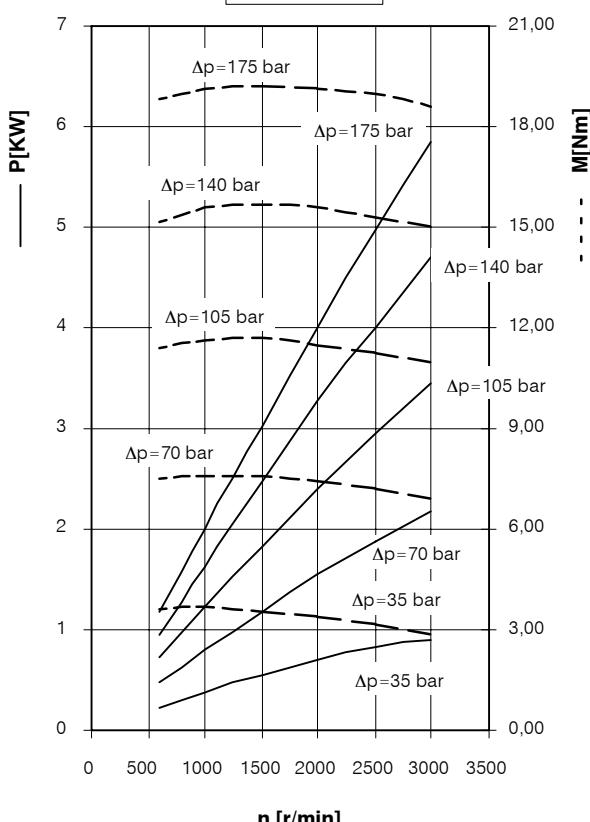
N.B.: Please contact our Sales Department if even one of the operating limits indicated in the tables above (temperature, pressure, rpm) is exceeded, as well as in the case of two or more maximum values at the same time, or for applications with particularly heavy-duty cycles.

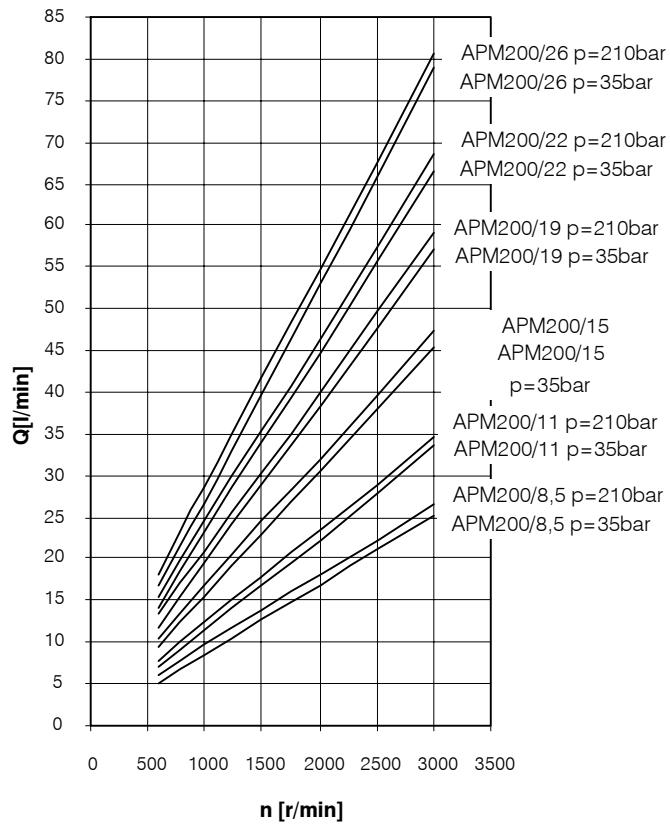
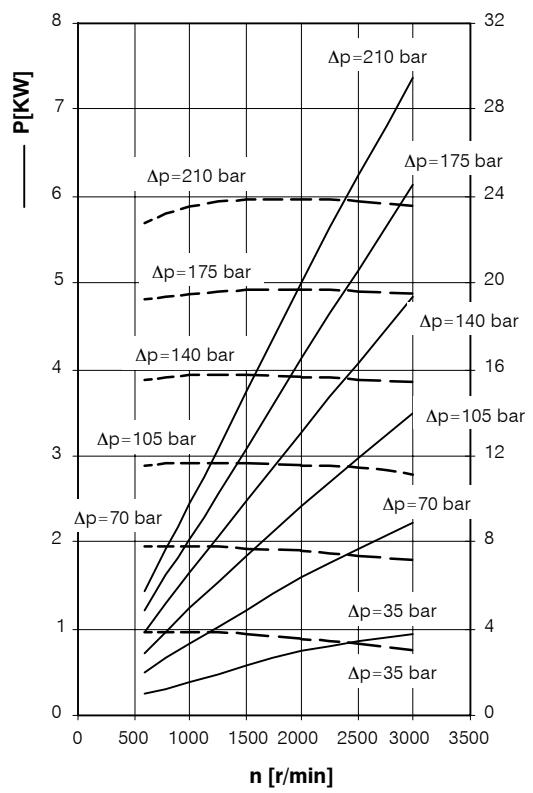
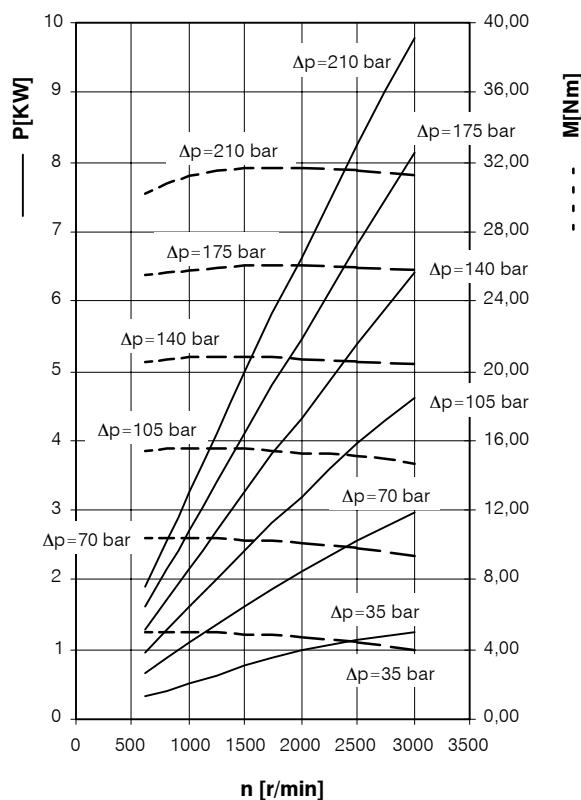
2.9 Diagrams

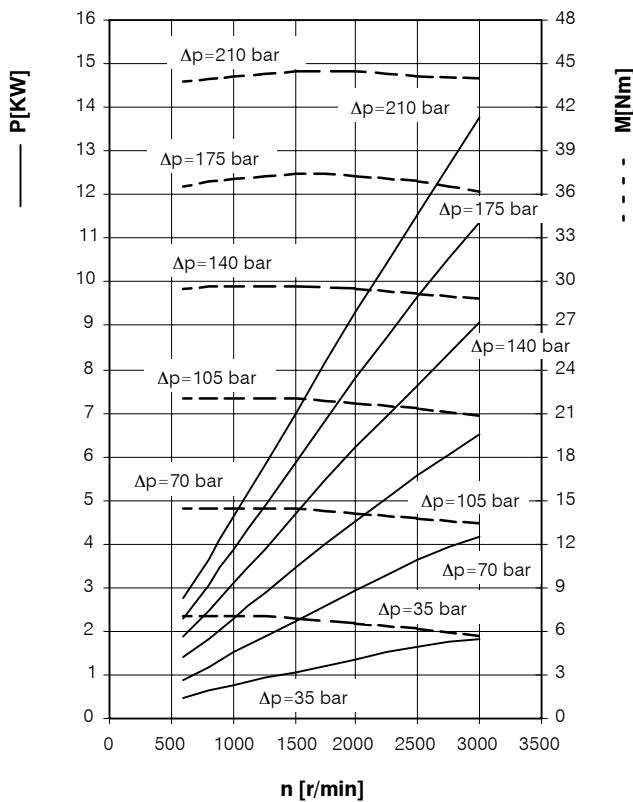
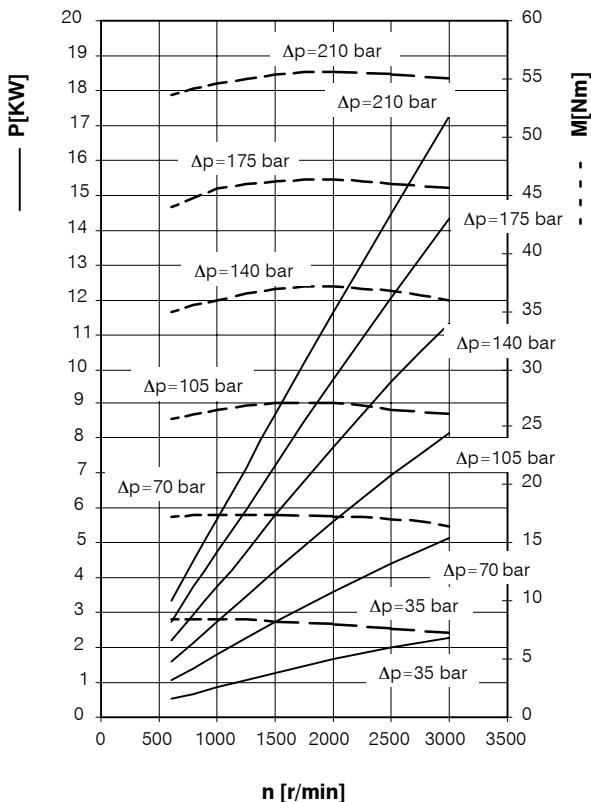
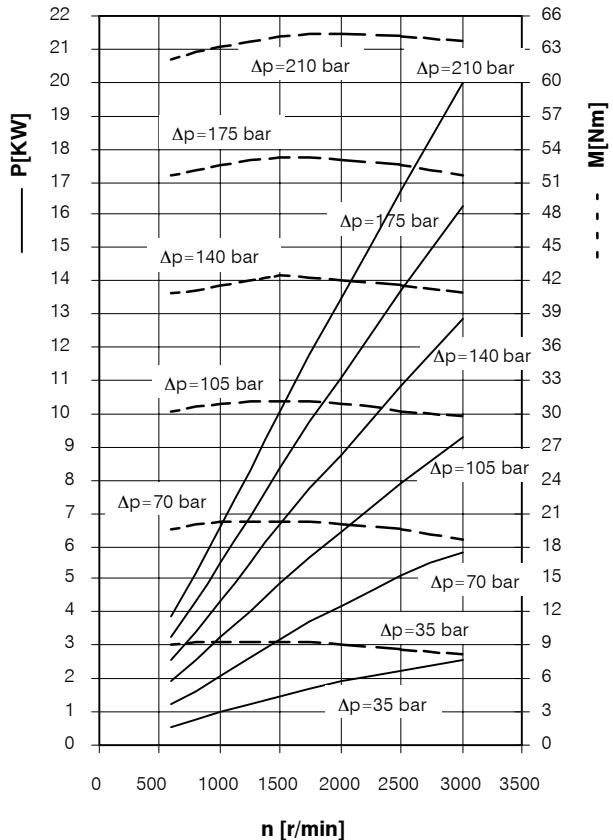
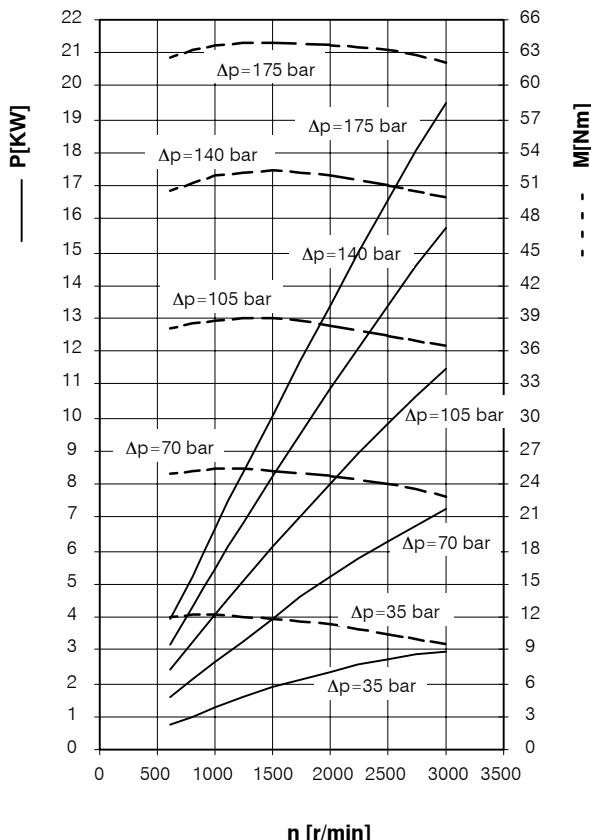






APM100/4.3**APM100/5****APM100/6.5****APM100/8**

APM200

APM200/8,5

APM200/11


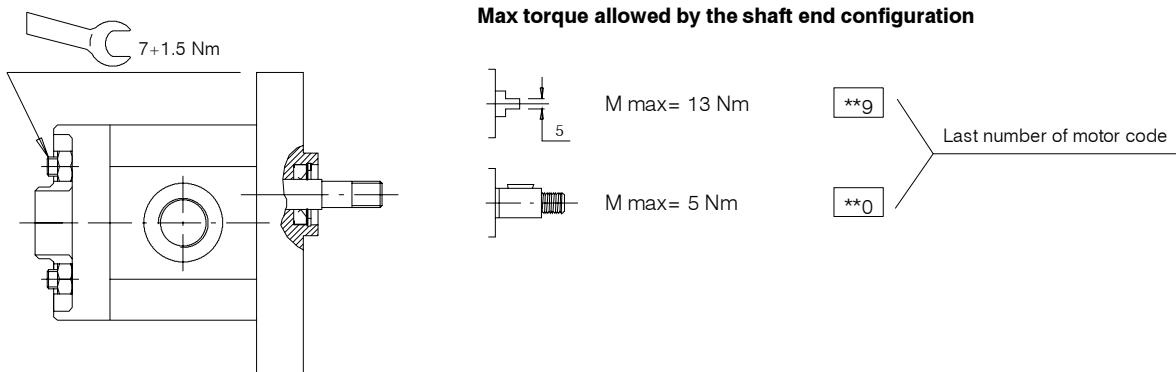
APM200/15**APM200/19****APM200/22****APM200/26**

3 Gear motors group APM05



| Type | Displacement | | Max. pressure | | | | n min. | n max. | | |
|--------------------|----------------------|----------------|---------------|--------|-----|--------|--------|--------|--|--|
| | cm ³ /rev | Cu.In. P.R. | P1 | | P2 | | | | | |
| | | | bar | P.S.I. | bar | P.S.I. | | | | |
| APM05/0.5 | 0.5 | .030 | 190 | 2700 | 230 | 3300 | 800 | 7000 | | |
| APM05/0.75 | 0.75 | .045 | 190 | 2700 | 230 | 3300 | 800 | 7000 | | |
| APM05/0.9 | 0.9 | .055 | 190 | 2700 | 230 | 3300 | 800 | 7000 | | |
| APM05/1.2 | 1.2 | .073 | 170 | 2400 | 200 | 2900 | 700 | 6000 | | |
| APM05/1.6 | 1.6 | .097 | 170 | 2400 | 200 | 2900 | 700 | 6000 | | |
| APMR05/0.5 | 0.5 | .030 | 170 | 2400 | 210 | 3000 | 800 | 7000 | | |
| APMR05/0.75 | 0.75 | .045 | 170 | 2400 | 210 | 3000 | 800 | 7000 | | |
| APMR05/0.9 | 0.9 | .055 | 170 | 2400 | 210 | 3000 | 800 | 7000 | | |
| APMR05/1.2 | 1.2 | .073 | 150 | 2200 | 180 | 2600 | 700 | 6000 | | |

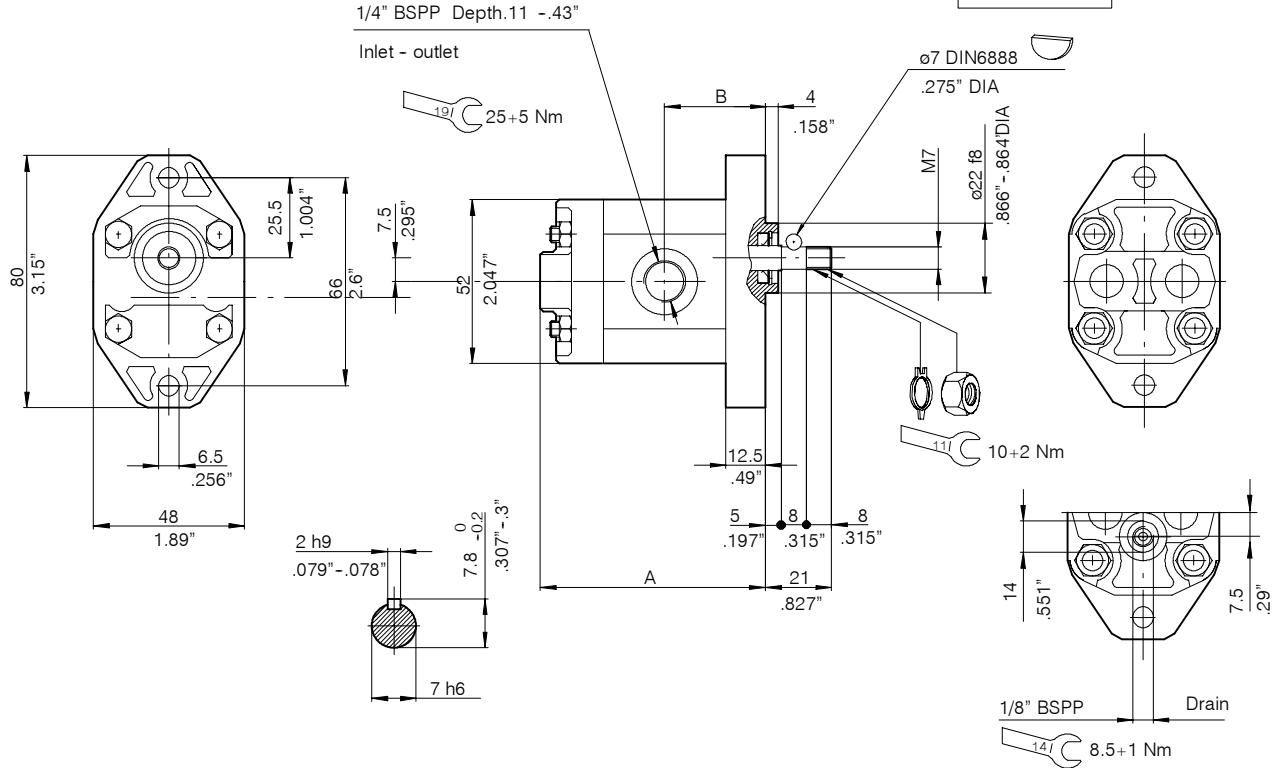
Max torque allowed by the shaft end configuration



Notes:

- For codes and dimensions regarding accessories, see section 6.
- For the types of motors without ordering code, contact our Sales Department.
- For reversible motors inlet and outlet ports have same sizes as per inlet unidirectional rotation

Group **APM05** Code **810**
APMR05



| Type | Displacement cm ³ /rev | Dimensions | | | |
|-------------------|--------------------------------------|------------|-------|------|-------|
| | | A | | B | |
| | | mm | inch. | mm | inch. |
| APM05/0.5 | 0.5 | 67 | 2.64 | 30.5 | 1.2 |
| APM05/0.75 | 0.75 | 69 | 2.72 | 31.5 | 1.24 |
| APM05/0.9 | 0.9 | 70.5 | 2.77 | 32 | 1.26 |
| APM05/1.2 | 1.2 | 73 | 2.87 | 33.5 | 1.32 |

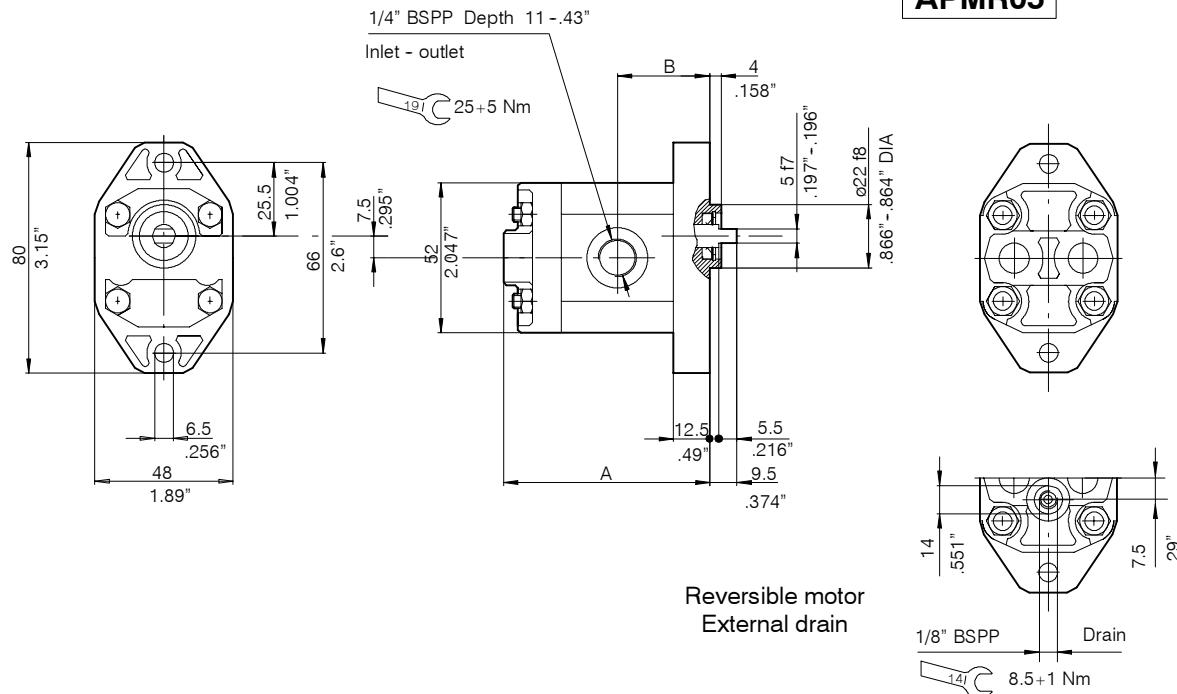
Unidirectional gear motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|------------------------|---|--------------|------------------------|---|
| APM05/0.5 D | | | APM05/0.5 S | | |
| APM05/0.75 D | 200.1004.6150.1 |  | APM05/0.75 S | |  |
| APM05/0.9 D | 200.1005.6150.3 | | APM05/0.9 S | | |
| APM05/1.2 D | 200.1006.6150.1 | | APM05/1.2 S | 200.1006.6160.5 | |

Reversible gear motor

| Type | Order Code | Reversible motor |
|-------------|------------------------|------------------|
| APMR05/0.5 | 200.1003.6140.1 | |
| APMR05/0.75 | | |
| APMR05/0.9 | | |
| APMR05/1.2 | | |

Group **APM05** **APMR05** Code **819**



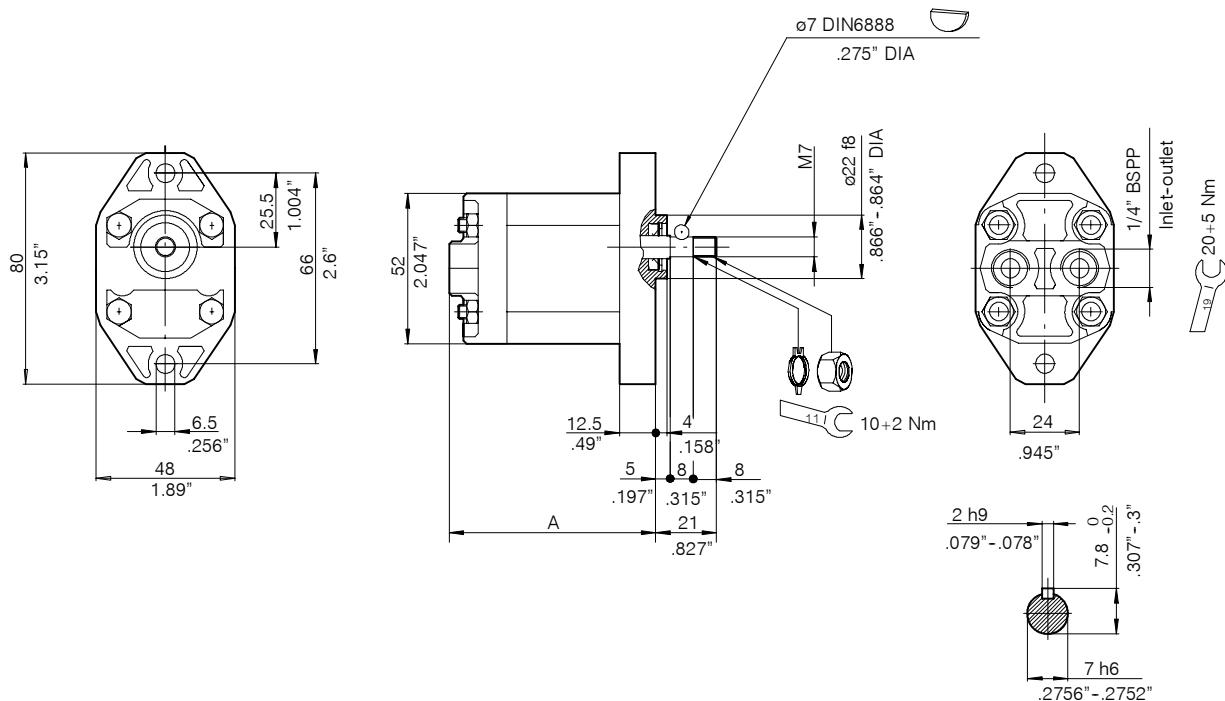
| Type | Displacement cm ³ /rev | Dimensions | | | |
|-------------------|--------------------------------------|------------|-------|------|-------|
| | | A | | B | |
| | | mm | inch. | mm | inch. |
| APM05/0.5 | 0.5 | 67 | 2.64 | 30.5 | 1.2 |
| APM05/0.75 | 0.75 | 69 | 2.72 | 31.5 | 1.24 |
| APM05/0.9 | 0.9 | 70.5 | 2.77 | 32.3 | 1.26 |
| APM05/1.2 | 1.2 | 73 | 2.87 | 33.5 | 1.32 |
| APM05/1.6 | 1.6 | 77 | 3.03 | 35.5 | 1.40 |
| APM05/2.3 | 2.3 | 83 | 3.27 | 39.5 | 1.55 |

Unidirectional gear motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|---------------------|-----------------------|--------------|---------------------|-------------------------|
| APM05/0.5 D | | | APM05/0.5 S | | |
| APM05/0.75 D | | | APM05/0.75 S | | |
| APM05/0.9 D | | | APM05/0.9 S | | |
| APM05/1.2 D | | | APM05/1.2 S | | |
| APM05/1.6 D | 200100864201 | | APM05/1.6 S | 200100864601 | |
| APM05/2.3 D | | | APM05/2.3 S | | |

Reversible gear motor

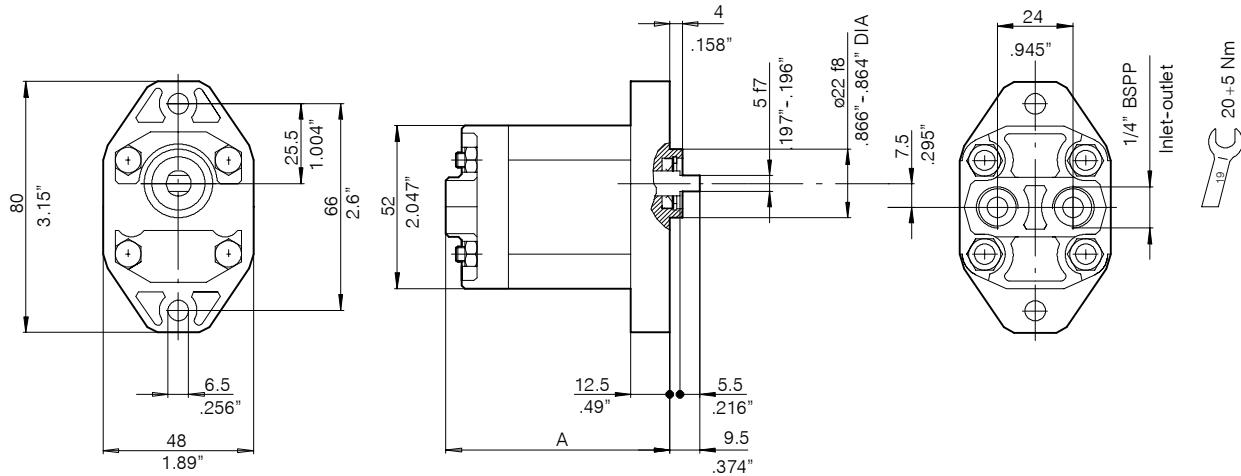
| Type | Order Code | Reversible motor |
|-------------|------------|------------------|
| APMR05/0.5 | | |
| APMR05/0.75 | | |
| APMR05/0.9 | | |
| APMR05/1.2 | | |
| APMR05/1.6 | | |
| APMR05/2.3 | | |

Group **APM05** Code **310**


| Type | Displacement cm ³ /rev | Dimensions | |
|-------------------|--------------------------------------|------------|-------|
| | | A | |
| | | mm | inch. |
| APM05/0.5 | 0.5 | 67 | 2.64 |
| APM05/0.75 | 0.75 | 69 | 2.72 |
| APM05/0.9 | 0.9 | 70.5 | 2.77 |
| APM05/1.2 | 1.2 | 73 | 2.87 |

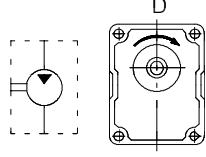
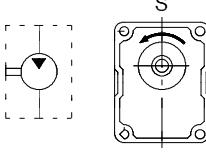
Unidirectional gear motor

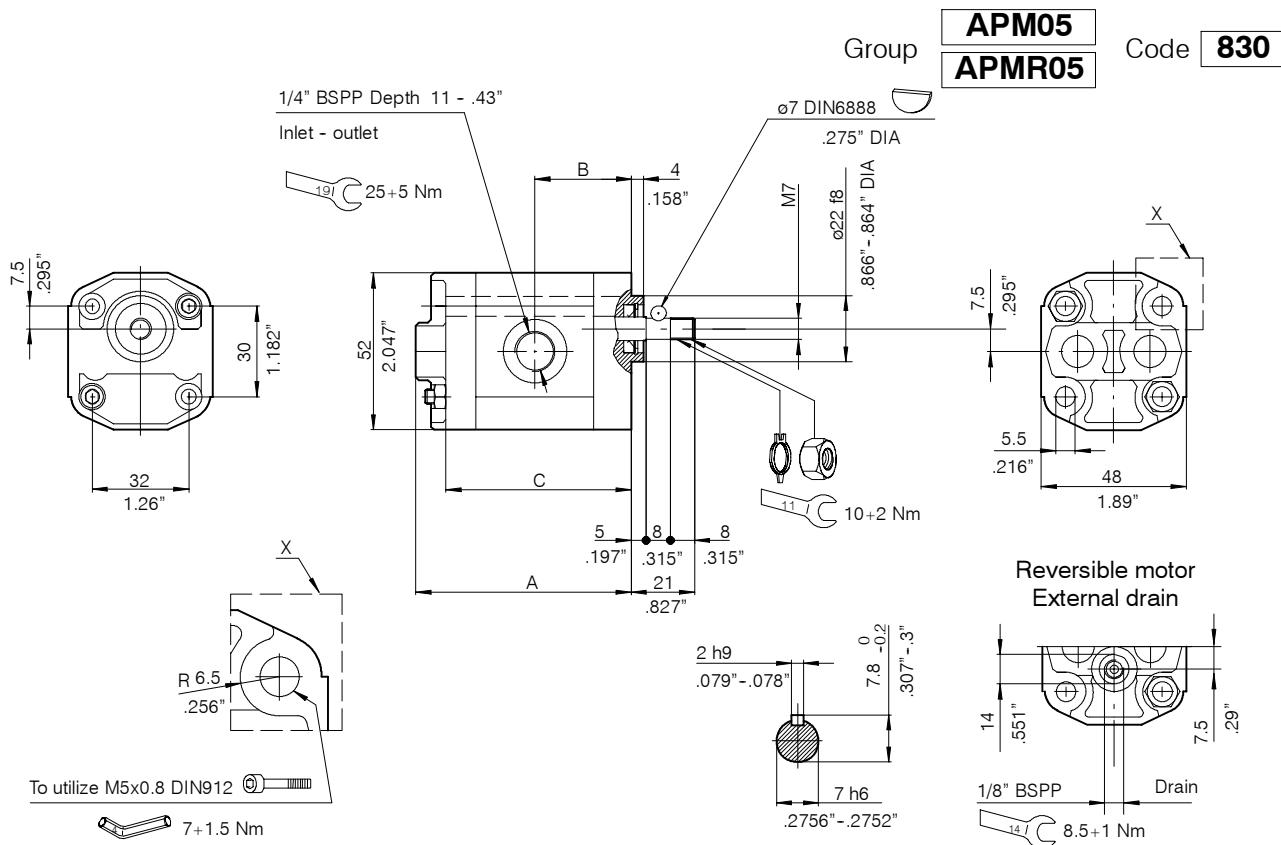
| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|---------------------|-----------------------|--------------|------------|-------------------------|
| APM05/0.5 D | | | APM05/0.5 S | | |
| APM05/0.75 D | 200100460201 | | APM05/0.75 S | | |
| APM05/0.9 D | 200100560202 | | APM05/0.9 S | | |
| APM05/1.2 D | | | APM05/1.2 S | | |



| Type | Displacement cm ³ /rev | Dimensions | |
|-------------------|--------------------------------------|------------|-------|
| | | A | |
| | | mm | inch. |
| APM05/0.5 | 0.5 | 67 | 2.64 |
| APM05/0.75 | 0.75 | 69 | 2.72 |
| APM05/0.9 | 0.9 | 70.5 | 2.77 |
| APM05/1.2 | 1.2 | 73 | 2.87 |
| APM05/1.6 | 1.6 | 77 | 3.03 |
| APM05/1.6 | 1.6 | 77 | 3.03 |
| APM05/2.3 | 2.3 | 83 | 3.27 |

Unidirectional gear motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|------------|---|--------------|------------|---|
| APM05/0.5 D | |  | APM05/0.5 S | |  |
| APM05/0.75 D | | | APM05/0.75 S | | |
| APM05/0.9 D | | | APM05/0.9 S | | |
| APM05/1.2 D | | | APM05/1.2 S | | |
| APM05/1.6 D | | | APM05/1.6 S | | |
| APM05/2.3 D | | | APM05/2.3 S | | |



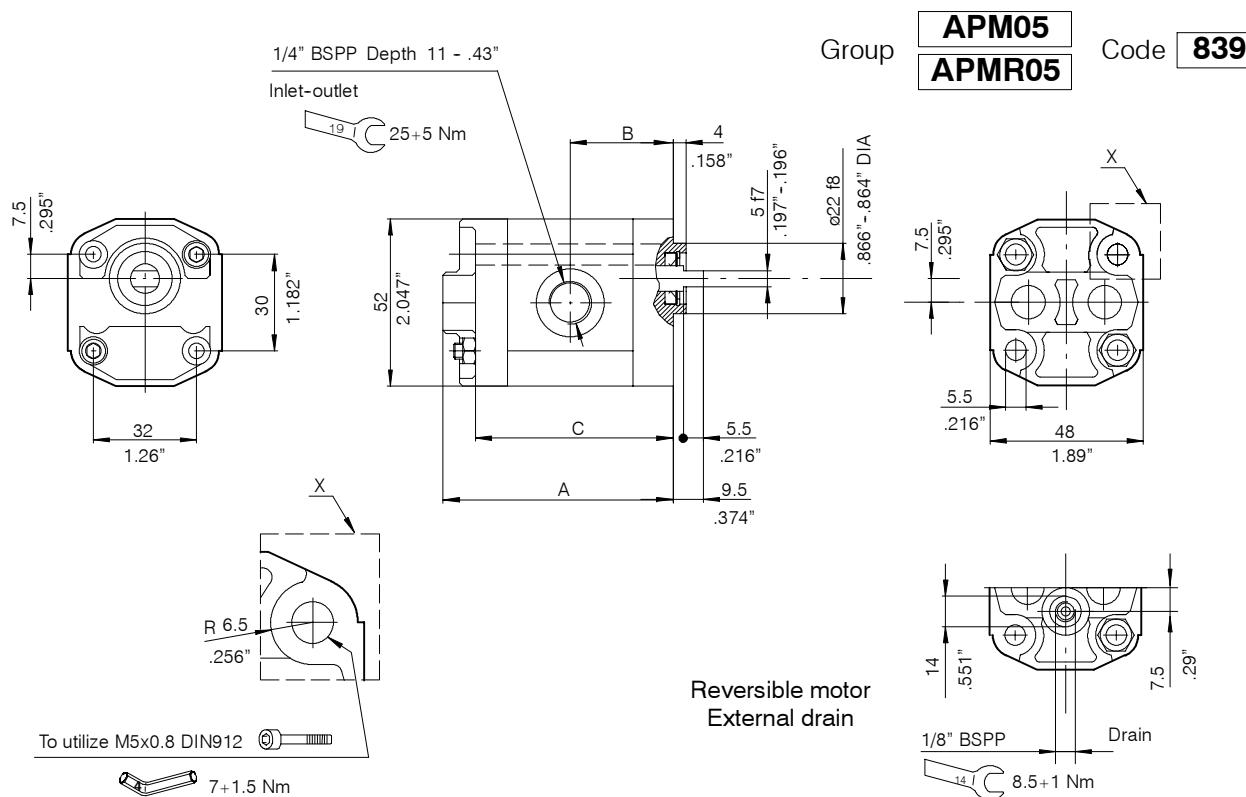
| Type | Displacement cm ³ /rev | Dimensions | | | | | |
|-------------------|--------------------------------------|------------|-------|------|-------|------|-------|
| | | A | | B | | C | |
| | | mm | inch. | mm | inch. | mm | inch. |
| APM05/0.5 | 0.5 | 67 | 2.64 | 30.5 | 1.2 | 56 | 2.20 |
| APM05/0.75 | 0.75 | 69 | 2.72 | 31.5 | 1.24 | 58 | 2.28 |
| APM05/0.9 | 0.9 | 70.5 | 2.77 | 32 | 1.26 | 59.5 | 2.34 |
| APM05/1.2 | 1.2 | 73 | 2.87 | 33.5 | 1.32 | 62 | 2.44 |

Unidirectional gear motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|------------|---|--------------|------------|---|
| APM05/0.5 D | |  | APM05/0.5 S | |  |
| APM05/0.75 D | | | APM05/0.75 S | | |
| APM05/0.9 D | | | APM05/0.9 S | | |
| APM05/1.2 D | | | APM05/1.2 S | | |

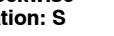
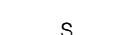
Reversible gear motor

| Type | Order Code | Reversible motor |
|-------------|------------|---|
| APMR05/0.5 | |  |
| APMR05/0.75 | |  |
| APMR05/0.9 | |  |
| APMR05/1.2 | |  |



| Type | Displacement cm ³ /rev | Dimensions | | | | | |
|-------------------|--------------------------------------|------------|-------|------|-------|------|-------|
| | | A | | B | | C | |
| | | mm. | inch. | mm | inch. | mm | inch. |
| APM05/0.5 | 0.5 | 67 | 2.64 | 30.5 | 1.2 | 56 | 2.20 |
| APM05/0.75 | 0.75 | 69 | 2.72 | 31.5 | 1.24 | 58 | 2.28 |
| APM05/0.9 | 0.9 | 70.5 | 2.77 | 32 | 1.26 | 59.5 | 2.34 |
| APM05/1.2 | 1.2 | 73 | 2.87 | 33.5 | 1.32 | 62 | 2.44 |
| APM05/1.6 | 1.6 | 77 | 3.03 | 35.5 | 1.40 | 66 | 2.60 |
| APM05/2.3 | 2.3 | 83 | 3.27 | 39.5 | 1.55 | | |

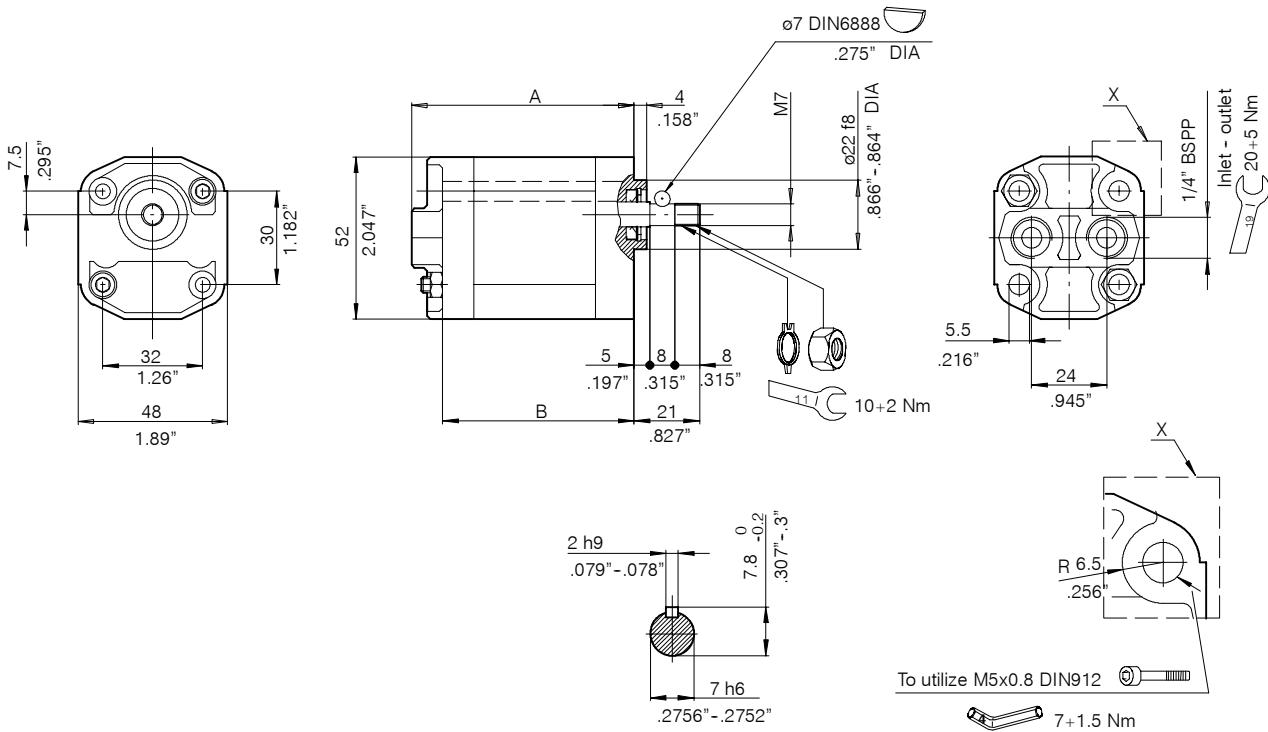
Unidirectional gear motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|------------|---|--------------|---------------------|---|
| APM05/0.5 D | |  | APM05/0.5 S | |  |
| APM05/0.75 D | |  | APM05/0.75 S | |  |
| APM05/0.9 D | |  | APM05/0.9 S | |  |
| APM05/1.2 D | |  | APM05/1.2 S | |  |
| APM05/1.6 D | |  | APM05/1.6 S | 200100834602 |  |
| APM05/2.3 D | |  | APM05/2.3 S | |  |

Reversible gear motor

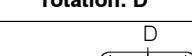
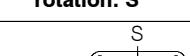
| Type | Order Code | Reversible motor |
|-------------|------------|------------------|
| APMR05/0.5 | | |
| APMR05/0.75 | | |
| APMR05/0.9 | | |
| APMR05/1.2 | | |
| APMR05/1.6 | | |
| APMR05/2.3 | | |

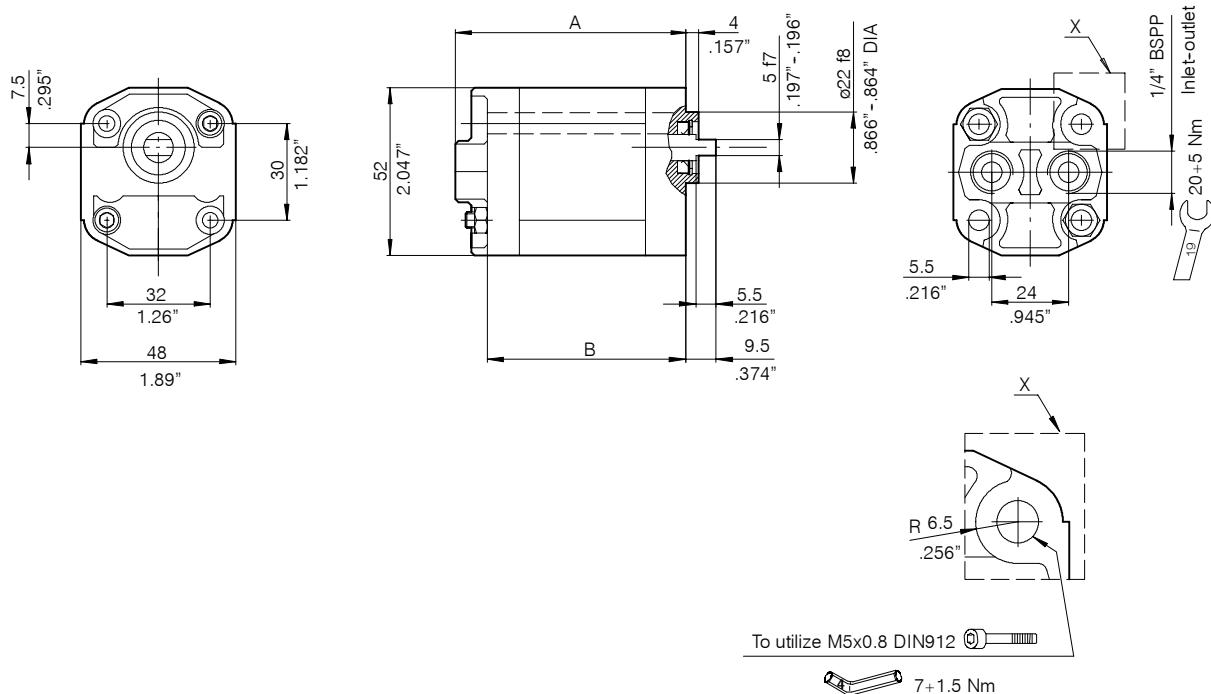
Group **APM05** Code **330**



| Type | Displacement cm ³ /rev | Dimensions | | | |
|-------------------|--------------------------------------|------------|-------|------|-------|
| | | A | | B | |
| | | mm | inch. | mm | inch. |
| APM05/0.5 | 0.5 | 67 | 2.64 | 56 | 2.20 |
| APM05/0.75 | 0.75 | 69 | 2.72 | 58 | 2.28 |
| APM05/9 | 0.9 | 70.5 | 2.77 | 59.5 | 2.34 |
| APM05/1.2 | 1.2 | 73 | 2.87 | 62 | 2.44 |

Unidirectional gear motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|------------|---|--------------|------------|---|
| APM05/0.5 D | |  | APM05/0.5 S | |  |
| APM05/0.75 D | | | APM05/0.75 S | | |
| APM05/0.9 D | | | APM05/0.9 S | | |
| APM05/1.2 D | | | APM05/1.2 S | | |

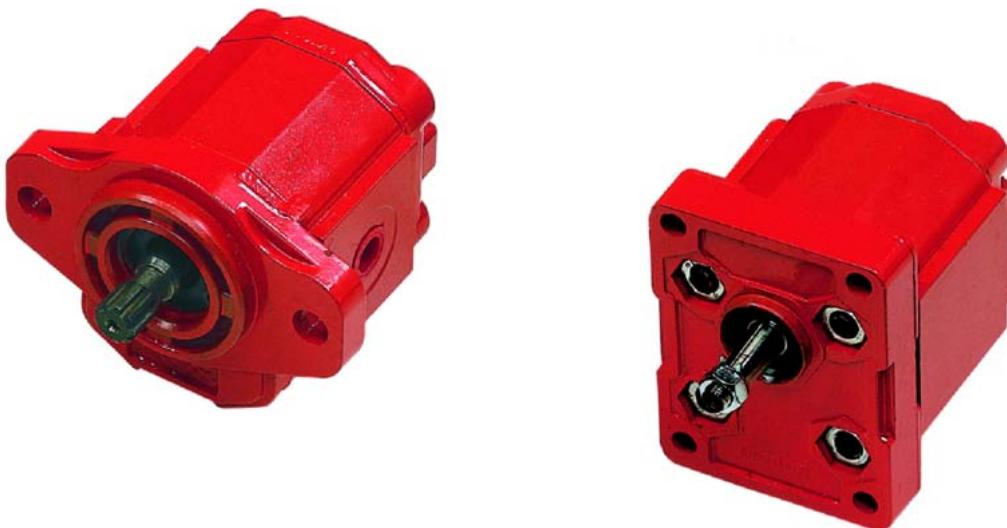
Group **APM05** Code **339**


| Type | Displacement cm ³ /rev | Dimensions | | | |
|-------------------|--------------------------------------|------------|-------|------|-------|
| | | A | | B | |
| | | mm | inch. | mm | inch. |
| APM05/0.5 | 0.5 | 67 | 2.64 | 56 | 2.20 |
| APM05/0.75 | 0.75 | 69 | 2.72 | 58 | 2.28 |
| APM05/0.9 | 0.9 | 70.5 | 2.77 | 59.5 | 2.34 |
| APM05/1.2 | 1.2 | 73 | 2.87 | 62 | 2.44 |
| APM05/1.6 | 1.6 | 77 | 3.03 | 66 | 2.60 |
| APM05/2.3 | 2.3 | 83 | 3.27 | | |

Unidirectional gear motor

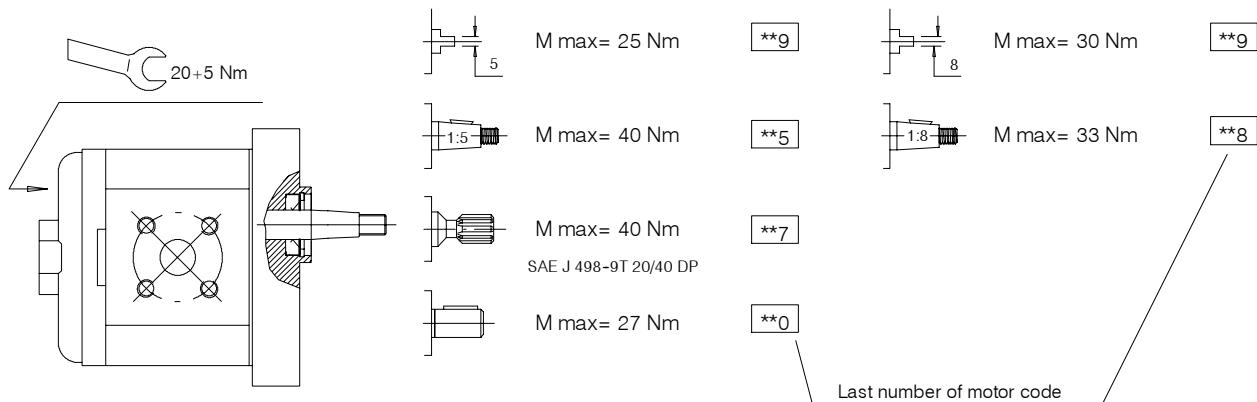
| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|------------|-----------------------|--------------|------------|-------------------------|
| APM05/0.5 D | | | APM05/0.5 S | | |
| APM05/0.75 D | | | APM05/0.75 S | | |
| APM05/0.9 D | | | APM05/0.9 S | | |
| APM05/1.2 D | | | APM05/1.2 S | | |
| APM05/1.6 D | | | APM05/1.6 S | | |
| APM05/2.3 D | | | APM05/2.3 S | | |

4 Gear motors group APM100



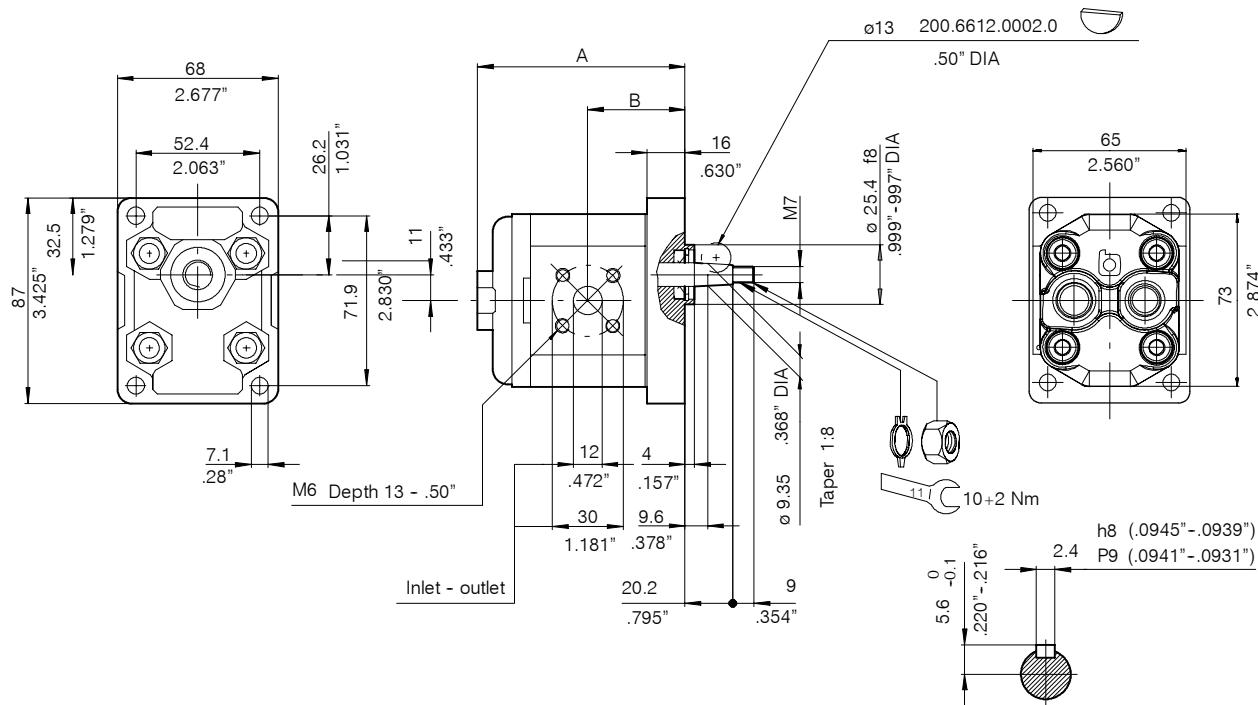
| Type | Displacement | | Max. pressure | | | | n min. | n max. | | |
|-------------------|----------------------|----------------|---------------|--------|-----|--------|--------|--------|--|--|
| | cm ³ /rev | Cu.In. P.R. | P1 | | P2 | | | | | |
| | | | bar | P.S.I. | bar | P.S.I. | | | | |
| APM100/2.5 | 2.5 | .152 | 210 | 3000 | 280 | 4000 | 650 | 5000 | | |
| APM100/3.5 | 3.5 | .213 | 210 | 3000 | 250 | 3600 | 650 | 4000 | | |
| APM100/4.3 | 4.3 | .262 | 210 | 3000 | 250 | 3600 | 550 | 4000 | | |
| APM100/5 | 5 | .305 | 210 | 3000 | 250 | 3600 | 500 | 3500 | | |
| APM100/6.5 | 6.5 | .396 | 190 | 2700 | 240 | 3400 | 500 | 3000 | | |
| APM100/8 | 7.8 | .476 | 180 | 2600 | 230 | 3300 | 500 | 3000 | | |
| APM100/10 | 10 | .610 | 150 | 2150 | 200 | 2900 | 500 | 2500 | | |

Max torque allowed by the shaft end configuration



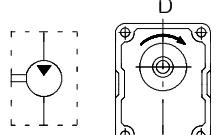
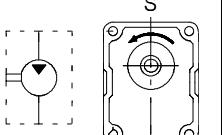
Notes:

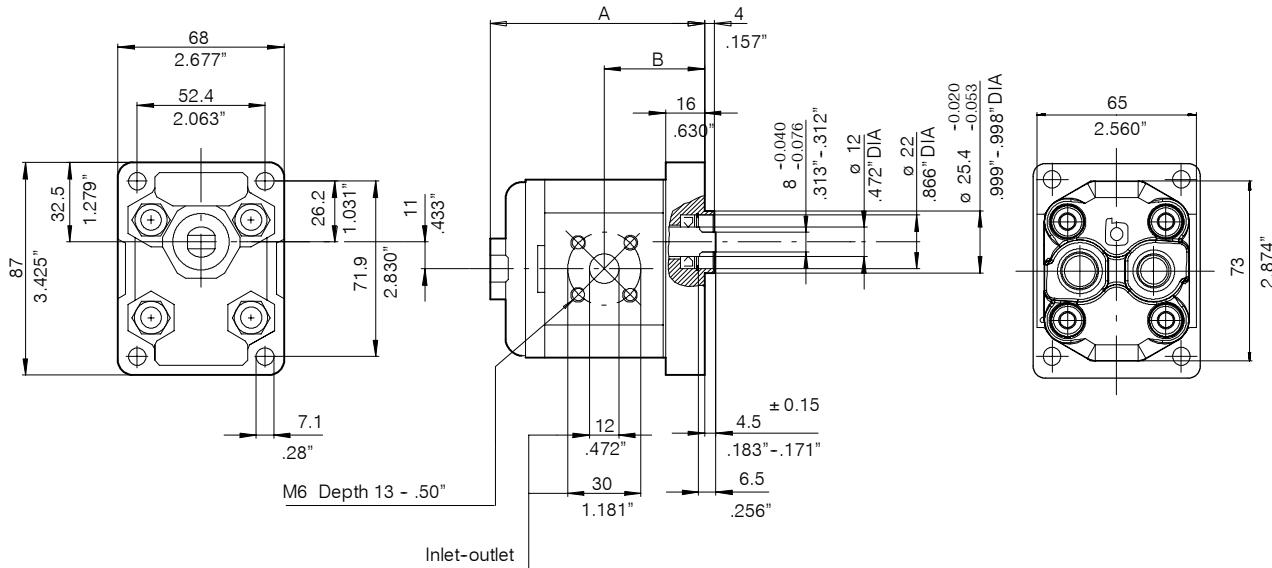
- For codes and dimensions regarding accessories, see section 6.
- For the types of motors without ordering code, contact our Sales Department.
- For reversible motors inlet and outlet ports have same sizes as per inlet unidirectional rotation



| Type | Displacement cm ³ /rev | Dimensions | | | |
|-------------------|--------------------------------------|------------|-------|------|-------|
| | | A | | B | |
| | | mm | inch. | mm | inch. |
| APM100/2.5 | 2.5 | 88 | 3.46 | 41 | 1.61 |
| APM100/3.5 | 3.5 | 92 | 3.62 | 43.5 | 1.71 |
| APM100/4.3 | 4.3 | 96 | 3.78 | 45 | 1.77 |
| APM100/5 | 5 | 98.5 | 3.88 | 46.5 | 1.83 |
| APM100/6.5 | 6.5 | 103.5 | 4.07 | 49 | 1.93 |
| APM100/8 | 7.8 | 109 | 4.29 | 52 | 2.05 |

Unidirectional gear motor

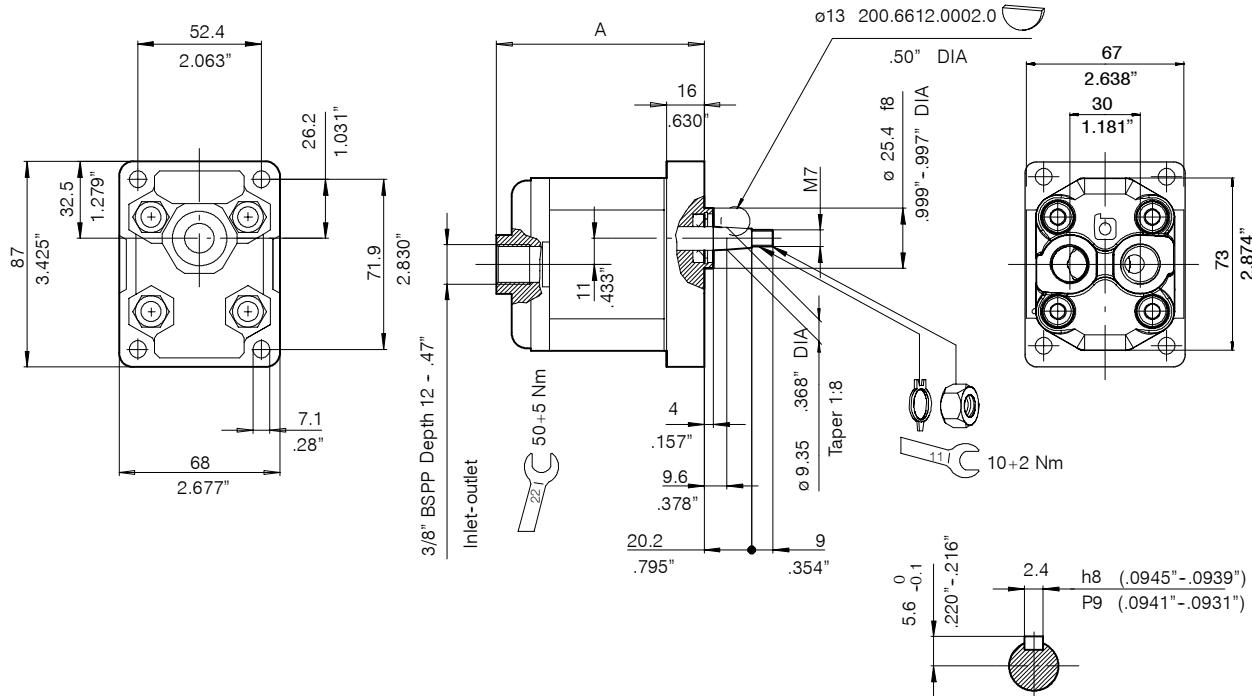
| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|---------------------|---|--------------|---------------------|---|
| APM100/2.5 D | 200101313209 |  | APM100/2.5 S | 200101313601 |  |
| APM100/3.5 D | 200101413501 | | APM100/3.5 S | 200101413601 | |
| APM100/4.3 D | 200101513501 | | APM100/4.3 S | 200101513601 | |
| APM100/5 D | 200101613501 | | APM100/5 S | 200101613601 | |
| APM100/6.5 D | 200101713501 | | APM100/6.5 S | 200101713601 | |
| APM100/8 D | 200101813501 | | APM100/8 S | | |



| Type | Displacement cm ³ /rev | Dimensions | | | |
|-------------------|--------------------------------------|------------|-------|------|-------|
| | | A | | B | |
| | | mm | inch. | mm | inch. |
| APM100/2.5 | 2.5 | 88 | 3.46 | 41 | 1.61 |
| APM100/3.5 | 3.5 | 92 | 3.62 | 43.5 | 1.71 |
| APM100/4.3 | 4.3 | 96 | 3.78 | 45 | 1.77 |
| APM100/5 | 5 | 98.5 | 3.88 | 46.5 | 1.83 |
| APM100/6.5 | 6.5 | 103.5 | 4.07 | 49 | 1.93 |
| APM100/8 | 7.8 | 109 | 4.29 | 52 | 2.05 |
| APM100/10 | 10 | 118 | 4.64 | 56.5 | 2.22 |

Unidirectional gear motor

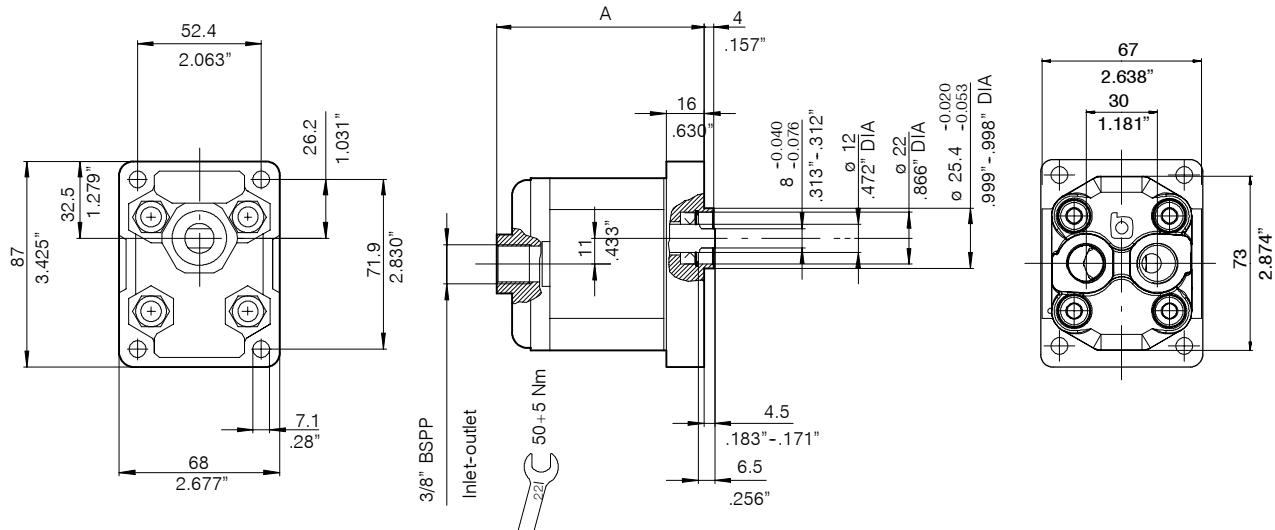
| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|---------------------|-----------------------|--------------|---------------------|-------------------------|
| APM100/2.5 D | | | APM100/2.5 S | | |
| APM100/3.5 D | | | APM100/3.5 S | | |
| APM100/4.3 D | 200101514501 | D | APM100/4.3 S | 200101514601 | S |
| APM100/5 D | | | APM100/5 S | | |
| APM100/6.5 D | | | APM100/6.5 S | | |
| APM100/8 D | | | APM100/8 S | | |
| APM100/10 D | | | APM100/10 S | | |



| Type | Displacement cm³/rev | Dimensions | |
|-------------------|-------------------------|------------|-------|
| | | A | |
| | | mm | inch. |
| APM100/2.5 | 2.5 | 88 | 3.46 |
| APM100/3.5 | 3.5 | 92 | 3.62 |
| APM100/4.3 | 4.3 | 96 | 3.78 |
| APM100/5 | 5 | 98.5 | 3.88 |
| APM100/6.5 | 6.5 | 103.5 | 4.07 |
| APM100/8 | 7.8 | 109 | 4.29 |

Unidirectional gear motor

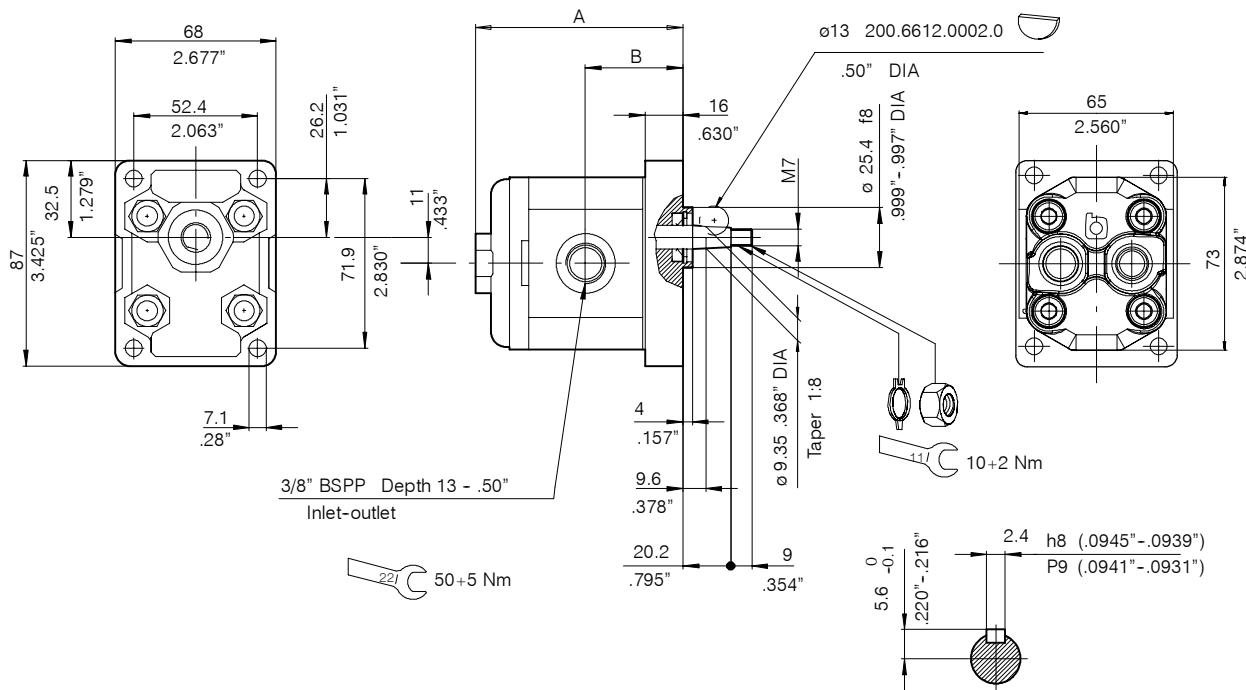
| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|---------------------|-----------------------|--------------|---------------------|-------------------------|
| APM100/2.5 D | | | APM100/2.5 S | | |
| APM100/3.5 D | | | APM100/3.5 S | | |
| APM100/4.3 D | 200101513502 | | APM100/4.3 S | 200101513602 | |
| APM100/5 D | | | APM100/5 S | | |
| APM100/6.5 D | | | APM100/6.5 S | | |
| APM100/8 D | | | APM100/8 S | | |



| Type | Displacement cm³/rev | Dimensions | |
|-------------------|-------------------------|------------|-------|
| | | A | |
| | | mm | inch. |
| APM100/2.5 | 2.5 | 88 | 3.46 |
| APM100/3.5 | 3.5 | 92 | 3.62 |
| APM100/4.3 | 4.3 | 96 | 3.78 |
| APM100/5 | 5 | 98.5 | 3.88 |
| APM100/6.5 | 6.5 | 103.5 | 4.07 |
| APM100/8 | 7.8 | 109 | 4.29 |
| APM100/10 | 10 | 118 | 4.64 |

Unidirectional gear motor

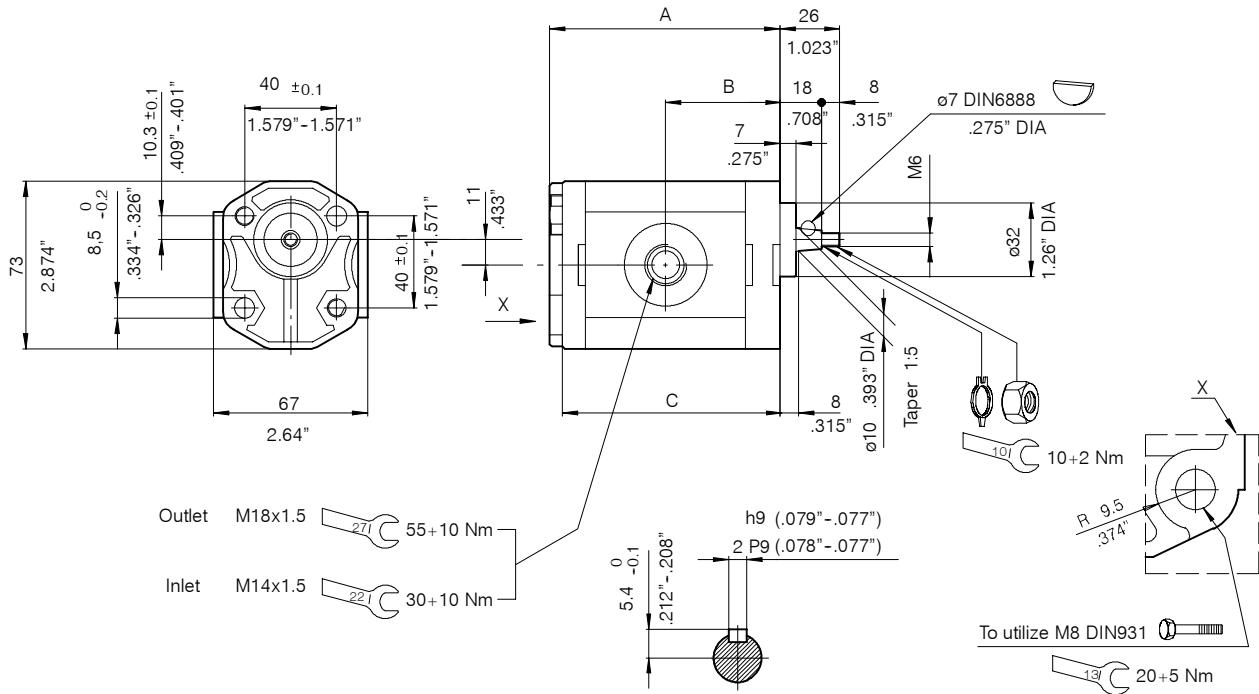
| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|------------|-----------------------|--------------|---------------------|-------------------------|
| APM100/2.5 D | | | APM100/2.5 S | 200101314601 | |
| APM100/3.5 D | | | APM100/3.5 S | | |
| APM100/4.3 D | | | APM100/4.3 S | | |
| APM100/5 D | | | APM100/5 S | | |
| APM100/6.5 D | | | APM100/6.5 S | | |
| APM100/8 D | | | APM100/8 S | | |
| APM100/10 D | | | APM100/10 S | | |



| Type | Displacement cm ³ /rev | Dimensions | | | |
|-------------------|--------------------------------------|------------|-------|------|-------|
| | | A | | B | |
| | | mm | inch. | mm | inch. |
| APM100/2.5 | 2.5 | 88 | 3.46 | 41 | 1.61 |
| APM100/3.5 | 3.5 | 92 | 3.62 | 43.5 | 1.71 |
| APM100/4.3 | 4.3 | 96 | 3.78 | 45 | 1.77 |
| APM100/5 | 5 | 98.5 | 3.88 | 46.5 | 1.83 |
| APM100/6.5 | 6.5 | 103.5 | 4.07 | 49 | 1.93 |
| APM100/8 | 7.8 | 109 | 4.29 | 52 | 2.05 |

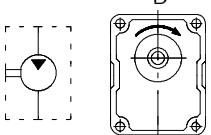
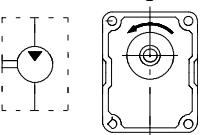
Unidirectional gear motor

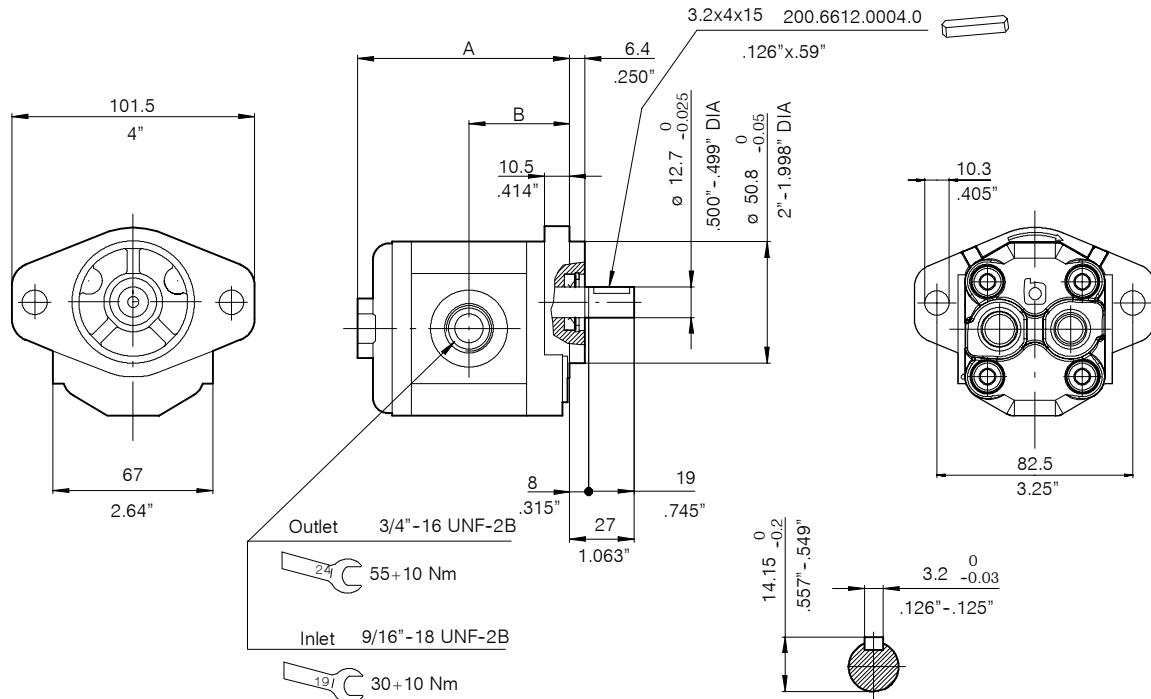
| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|---------------------|-----------------------|--------------|---------------------|-------------------------|
| APM100/2.5 D | | | APM100/2.5 S | 200101313602 | |
| APM100/3.5 D | | | APM100/3.5 S | | |
| APM100/4.3 D | 200101513503 | | APM100/4.3 S | | |
| APM100/5 D | | | APM100/5 S | | |
| APM100/6.5 D | | | APM100/6.5 S | | |
| APM100/8 D | | | APM100/8 S | | |



| Type | Displacement cm ³ /rev | Dimensions | | | | | |
|-------------------|--------------------------------------|------------|-------|------|-------|------|-------|
| | | A | | B | | C | |
| | | mm | inch. | mm | inch. | mm | inch. |
| APM100/2.5 | 2.5 | 79 | 2.99 | 39 | 1.53 | 75.5 | 2.97 |
| APM100/3.5 | 3.5 | 83 | 3.27 | 41 | 1.61 | 80 | 3.15 |
| APM100/4.3 | 4.3 | 87 | 3.42 | 43 | 1.69 | 83.5 | 3.29 |
| APM100/5 | 5 | 89.5 | 3.52 | 44.5 | 1.75 | 86 | 3.38 |
| APM100/6.5 | 6.5 | 94.5 | 3.72 | 47 | 1.85 | 91 | 3.58 |
| APM100/8 | 7.8 | 100 | 3.98 | 50 | 1.97 | 97 | 3.81 |

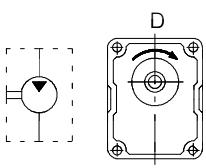
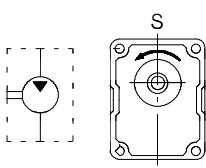
Unidirectional gear motor

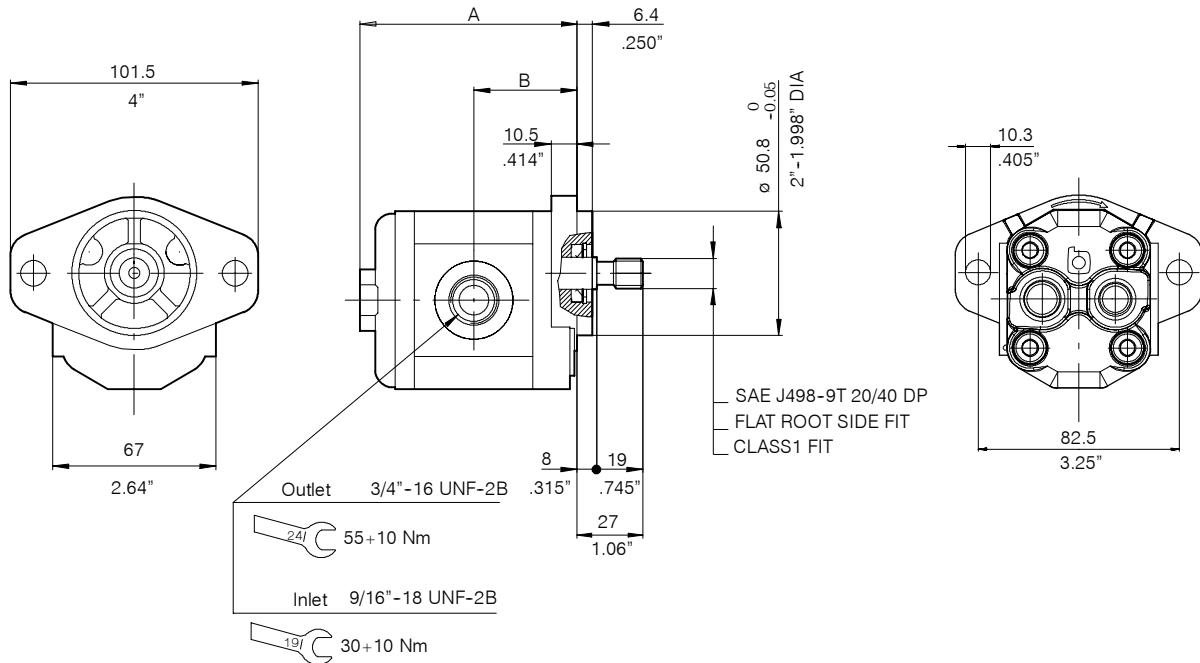
| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|------------|---|--------------|---------------------|---|
| APM100/2.5 D | |  | APM100/2.5 S | |  |
| APM100/3.5 D | | | APM100/3.5 S | 200101442601 | |
| APM100/4.3 D | | | APM100/4.3 S | 200101542604 | |
| APM100/5 D | | | APM100/5 S | 200101642603 | |
| APM100/6.5 D | | | APM100/6.5 S | | |
| APM100/8 D | | | APM100/8 S | | |

Group **APM100** Code **880**


| Type | Displacement cm ³ /rev | Dimensions | | | |
|-------------------|--------------------------------------|------------|-------|------|-------|
| | | A | | B | |
| | | mm | inch. | mm | inch. |
| APM100/2.5 | 2.5 | 89 | 3.50 | 42 | 1.65 |
| APM100/3.5 | 3.5 | 93 | 3.66 | 44.5 | 1.75 |
| APM100/4.3 | 4.3 | 97 | 3.82 | 46 | 1.81 |
| APM100/5 | 5 | 99.5 | 3.92 | 47.5 | 1.87 |
| APM100/6.5 | 6.5 | 104.5 | 4.11 | 50 | 1.97 |
| APM100/8 | 8 | 110 | 4.33 | 53 | 2.09 |

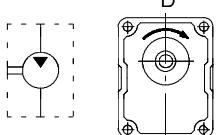
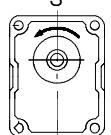
Unidirectional gear motor

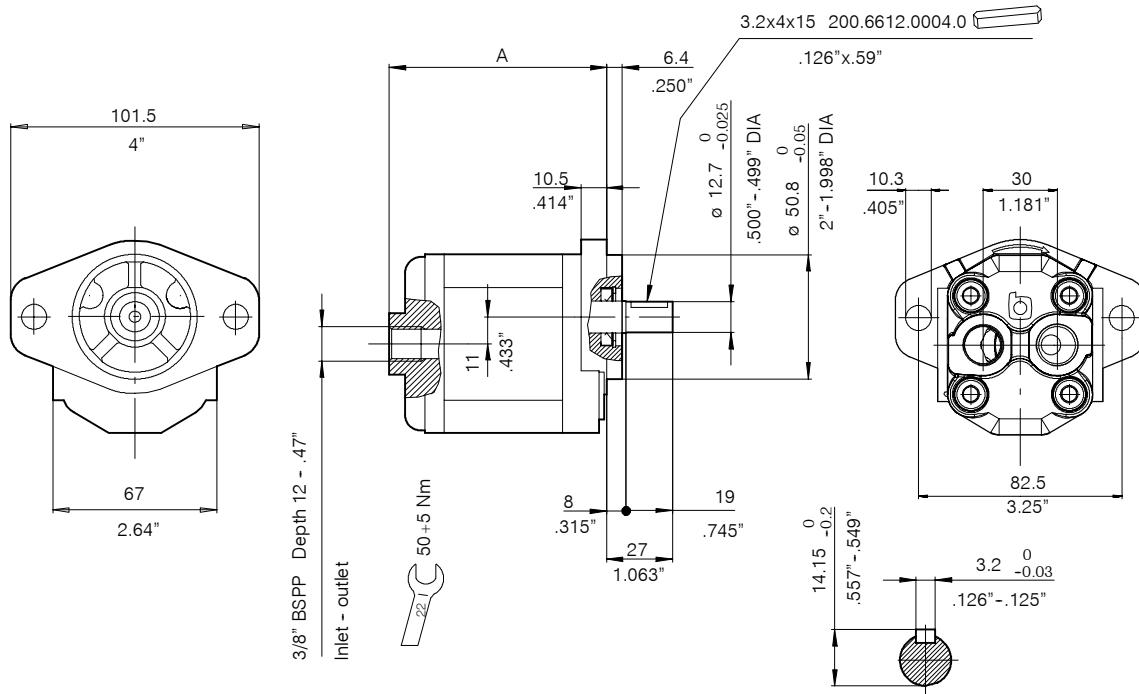
| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|---------------------|---|--------------|---------------------|---|
| APM100/2.5 D | 200101380501 |  | APM100/2.5 S | 200101380601 |  |
| APM100/3.5 D | 200101480501 | | APM100/3.5 S | 200101480601 | |
| APM100/4.3 D | 200101580501 | | APM100/4.3 S | 200101580601 | |
| APM100/5 D | | | APM100/5 S | | |
| APM100/6.5 D | | | APM100/6.5 S | | |
| APM100/8 D | | | APM100/8 S | | |

Group **APM100** Code **887S**


| Type | Displacement cm ³ /rev | Dimensions | | | |
|-------------------|--------------------------------------|------------|-------|------|-------|
| | | A | | B | |
| | | mm | inch. | mm | inch. |
| APM100/2.5 | 2.5 | 89 | 3.50 | 42 | 1.65 |
| APM100/3.5 | 3.5 | 93 | 3.66 | 44.5 | 1.75 |
| APM100/4.3 | 4.3 | 97 | 3.82 | 46 | 1.81 |
| APM100/5 | 5 | 99.5 | 3.92 | 47.5 | 1.87 |
| APM100/6.5 | 6.5 | 104.5 | 4.11 | 50 | 1.97 |
| APM100/8 | 7.8 | 110 | 4.33 | 53 | 2.09 |

Unidirectional gear motor

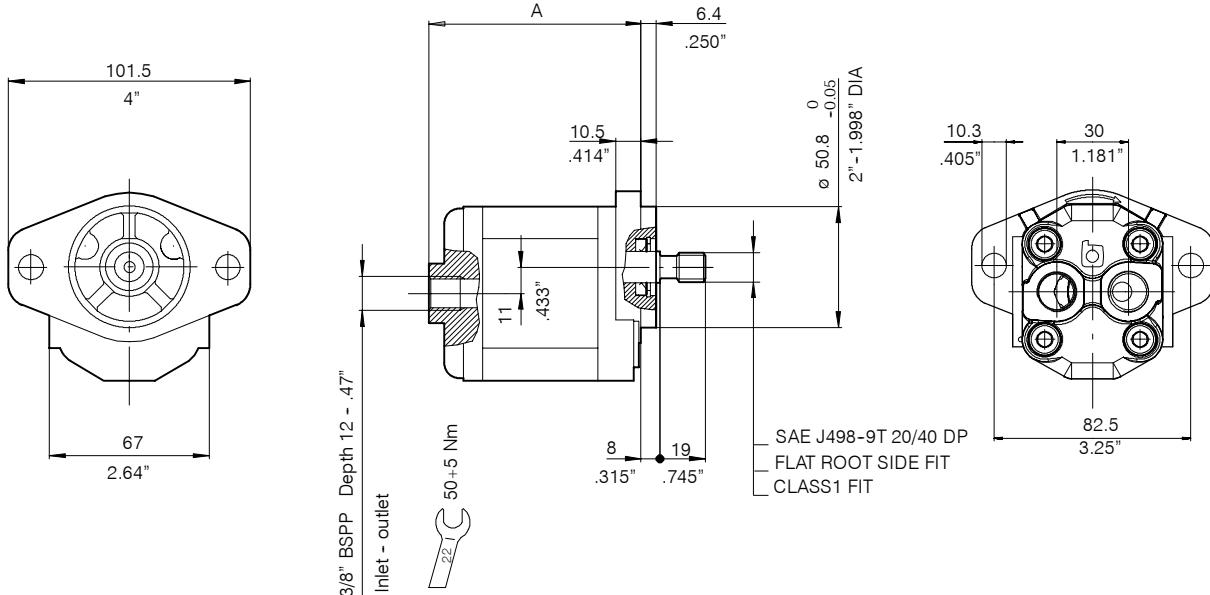
| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|---------------------|---|--------------|------------|---|
| APM100/2.5 D | 200101386501 |  | APM100/2.5 S | |  |
| APM100/3.5 D | | | APM100/3.5 S | | |
| APM100/4.3 D | | | APM100/4.3 S | | |
| APM100/5 D | | | APM100/5 S | | |
| APM100/6.5 D | | | APM100/6.5 S | | |
| APM100/8 D | | | APM100/8 S | | |



| Type | Displacement cm ³ /rev | Dimensions | |
|-------------------|--------------------------------------|------------|-------|
| | | A | |
| | | mm | inch. |
| APM100/2.5 | 2.5 | 89 | 3.50 |
| APM100/3.5 | 3.5 | 93 | 3.66 |
| APM100/4.3 | 4.3 | 97 | 3.82 |
| APM100/5 | 5 | 99.5 | 3.92 |
| APM100/6.5 | 6.5 | 104.5 | 4.11 |
| APM100/8 | 7.8 | 110 | 4.33 |

Unidirectional gear motor

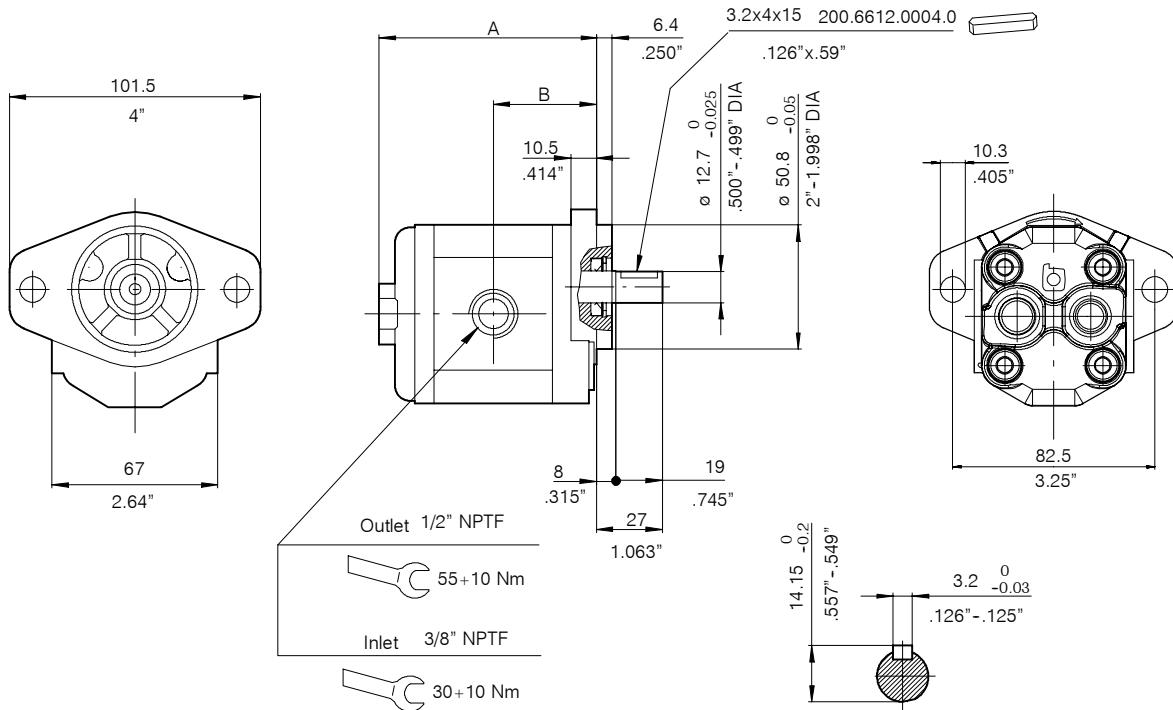
| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|---------------------|--------------------------|--------------|---------------------|----------------------------|
| APM100/2.5 D | | | APM100/2.5 S | | |
| APM100/3.5 D | | | APM100/3.5 S | | |
| APM100/4.3 D | | | APM100/4.3 S | | |
| APM100/5 D | 200101680501 | D | APM100/5 S | 200101680602 | S |
| APM100/6.5 D | | | APM100/6.5 S | | |
| APM100/8 D | | | APM100/8 S | | |

Group **APM100** | Code **387S**


| Type | Displacement cm ³ /rev | Dimensions | |
|---------------------|--------------------------------------|------------|-------|
| | | A | |
| | | mm | inch. |
| APM100/2.5 D | 2.5 | 89 | 3.50 |
| APM100/3.5 D | 3.5 | 93 | 3.66 |
| APM100/4.3 D | 4.3 | 97 | 3.82 |
| APM100/5 D | 5 | 99.5 | 3.92 |
| APM100/6.5 D | 6.5 | 104.5 | 4.11 |
| APM100/8 D | 8 | 110 | 4.33 |

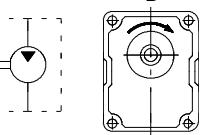
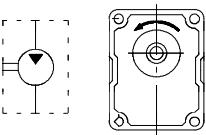
Unidirectional gear motor

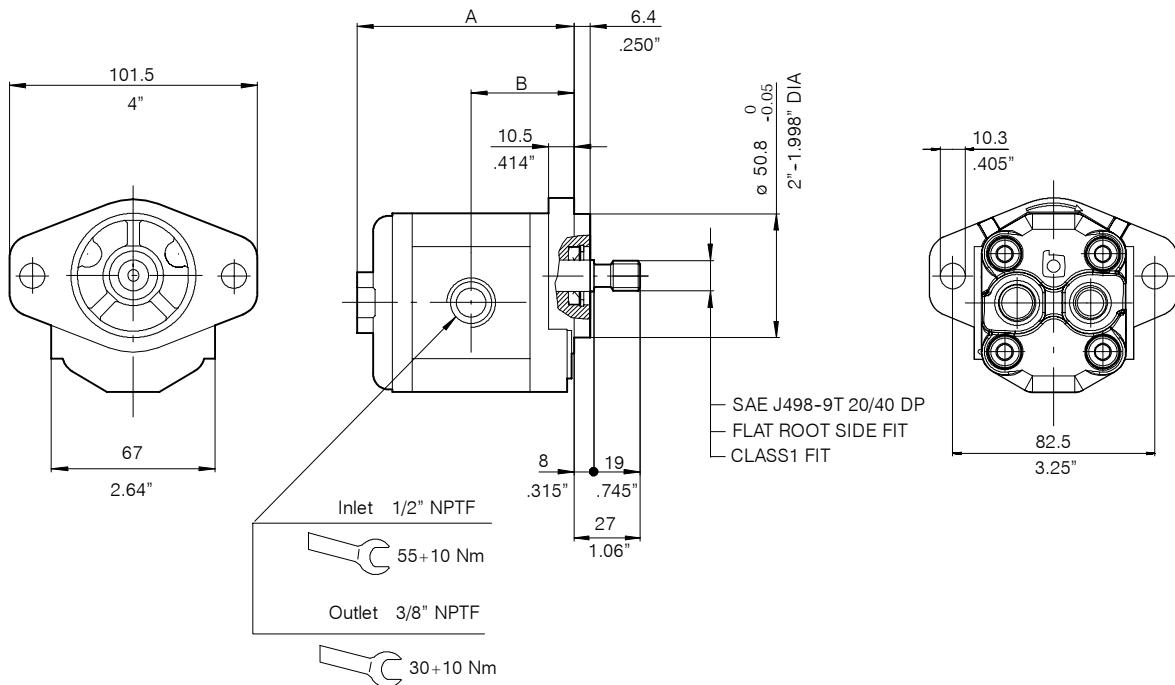
| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|------------|--------------------------|--------------|------------|----------------------------|
| APM100/2.5 D | | | APM100/2.5 S | | |
| APM100/3.5 D | | | APM100/3.5 S | | |
| APM100/4.3 D | | | APM100/4.3 S | | |
| APM100/5 D | | | APM100/5 S | | |
| APM100/6.5 D | | | APM100/6.5 S | | |
| APM100/8 D | | | APM100/8 S | | |

Group **APM100** Code **880 NPTF**


| Type | Displacement cm ³ /rev | Dimensions | | | |
|-------------------|--------------------------------------|------------|-------|------|-------|
| | | A | | B | |
| | | mm | inch. | mm | inch. |
| APM100/2.5 | 2.5 | 89 | 3.50 | 42 | 1.65 |
| APM100/3.5 | 3.5 | 93 | 3.66 | 44.5 | 1.75 |
| APM100/4.3 | 4.3 | 97 | 3.82 | 46 | 1.81 |
| APM100/5 | 5 | 99.5 | 3.92 | 47.5 | 1.87 |
| APM100/6.5 | 6.5 | 104.5 | 4.11 | 50 | 1.97 |
| APM100/8 | 8 | 110 | 4.33 | 53 | 2.09 |

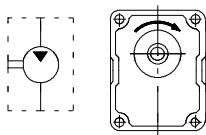
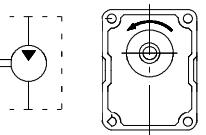
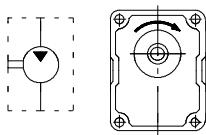
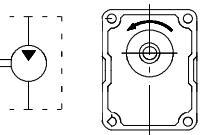
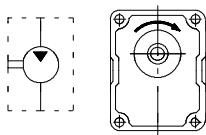
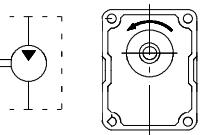
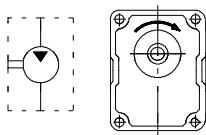
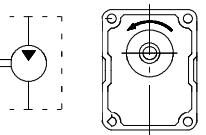
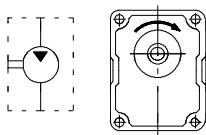
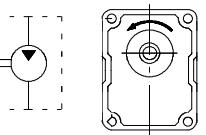
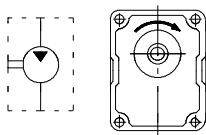
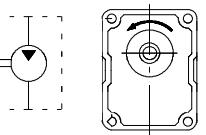
Unidirectional gear motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|------------|---|--------------|------------|---|
| APM100/2.5 D | |  | APM100/2.5 S | |  |
| APM100/3.5 D | | | APM100/3.5 S | | |
| APM100/4.3 D | | | APM100/4.3 S | | |
| APM100/5 D | | | APM100/5 S | | |
| APM100/6.5 D | | | APM100/6.5 S | | |
| APM100/8 D | | | APM100/8 S | | |

Group **APM100** Code **887S NPTF**


| Type | Displacement cm ³ /rev | Dimensions | | | |
|-------------------|--------------------------------------|------------|-------|------|-------|
| | | A | | B | |
| | | mm | inch. | mm | inch. |
| APM100/2.5 | 2.5 | 89 | 3.50 | 42 | 1.65 |
| APM100/3.5 | 3.5 | 93 | 3.66 | 44.5 | 1.75 |
| APM100/4.3 | 4.3 | 97 | 3.82 | 46 | 1.81 |
| APM100/5 | 5 | 99.5 | 3.92 | 47.5 | 1.87 |
| APM100/6.5 | 6.5 | 104.5 | 4.11 | 50 | 1.97 |
| APM100/8 | 7.8 | 110 | 4.33 | 53 | 2.09 |

Unidirectional gear motor

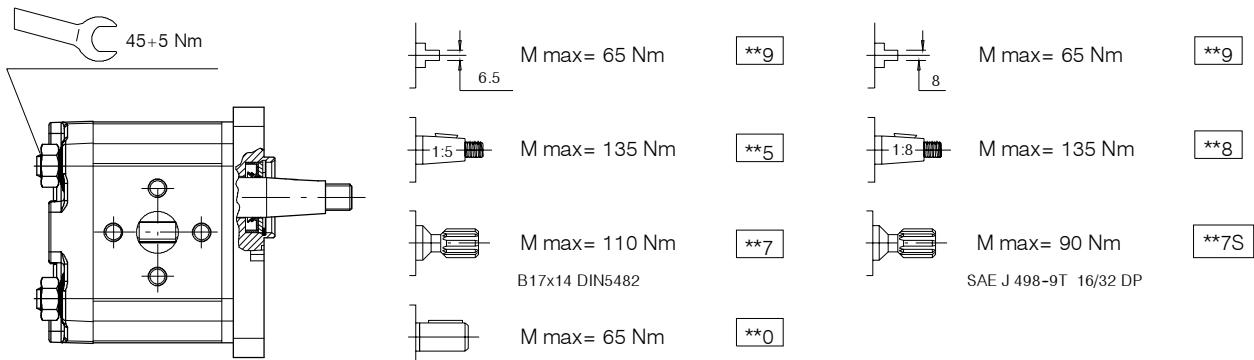
| Type | Order Code | Clockwise rotation: D | Type | Order Code | C.clockwise rotation: S |
|--------------|------------|---|--------------|------------|---|
| APM100/2.5 D | |  | APM100/2.5 S | |  |
| APM100/3.5 D | |  | APM100/3.5 S | |  |
| APM100/4.3 D | |  | APM100/4.3 S | |  |
| APM100/5 D | |  | APM100/5 S | |  |
| APM100/6.5 D | |  | APM100/6.5 S | |  |
| APM100/8 D | |  | APM100/8 S | |  |

5 Gear motors group APM200



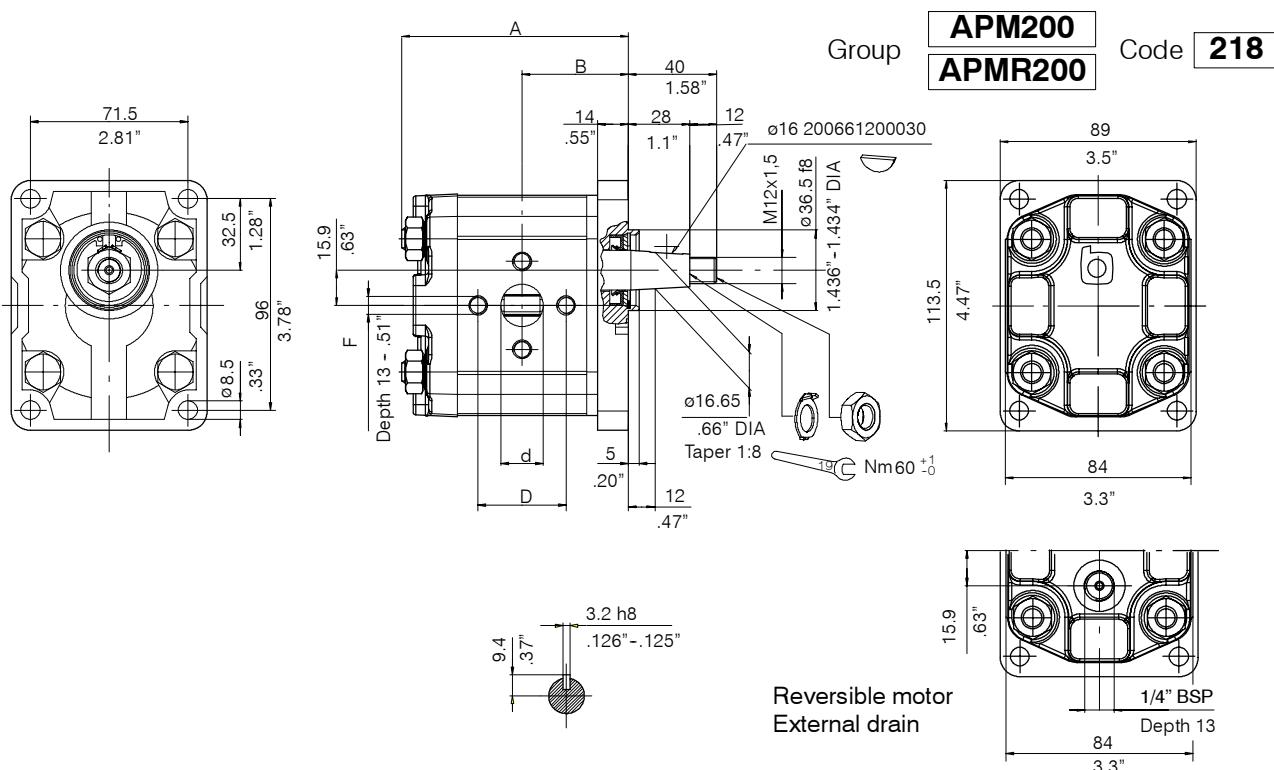
| APM200 | Displacement | | Max. pressure | | | | n min. | n max. | |
|--------------------|--------------|----------------------|----------------|-----|--------|-----|---------------|---------------|-------|
| | Type | cm ³ /rev | Cu.In. P.R. | P1 | | P2 | | | |
| | | | | bar | P.S.I. | bar | P.S.I. | r/min | r/min |
| APM200/8.5 | 8.3 | .506 | | 220 | 3150 | 250 | 3600 | 650 | 4000 |
| APM200/11 | 11.0 | .671 | | 210 | 3000 | 250 | 3600 | 650 | 4000 |
| APM200/15 | 15.0 | .915 | | 210 | 3000 | 250 | 3600 | 650 | 3500 |
| APM200/19 | 18.9 | 1.159 | | 200 | 2900 | 240 | 3400 | 650 | 3000 |
| APM200/22 | 21.9 | 1.342 | | 190 | 2750 | 230 | 3300 | 600 | 3000 |
| APM200/26 | 25.9 | 1.586 | | 180 | 2600 | 220 | 3150 | 600 | 2500 |
| APFM200/8.5 | 8.3 | .506 | | 220 | 3150 | 250 | 3600 | 650 | 4000 |
| APFM200/11 | 11.0 | .671 | | 210 | 3000 | 250 | 3600 | 650 | 4000 |
| APFM200/15 | 15.0 | .915 | | 210 | 3000 | 250 | 3600 | 650 | 3500 |
| APFM200/19 | 18.9 | 1.159 | | 200 | 2900 | 240 | 3400 | 650 | 3000 |
| APFM200/22 | 21.9 | 1.342 | | 190 | 2750 | 230 | 3300 | 600 | 3000 |
| APFM200/26 | 25.9 | 1.586 | | 180 | 2600 | 220 | 3150 | 600 | 2500 |
| APMR200/8.5 | 8.3 | .506 | | 220 | 3150 | 250 | 3600 | 650 | 4000 |
| APMR200/11 | 11.0 | .671 | | 210 | 3000 | 250 | 3600 | 650 | 4000 |
| APMR200/15 | 15.0 | .915 | | 210 | 3000 | 250 | 3600 | 650 | 3500 |
| APMR200/19 | 18.9 | 1.159 | | 200 | 2900 | 240 | 3400 | 650 | 3000 |
| APMR200/22 | 21.9 | 1.342 | | 190 | 2750 | 230 | 3300 | 600 | 3000 |
| APMR200/26 | 25.9 | 1.586 | | 180 | 2600 | 220 | 3150 | 600 | 2500 |

Max torque allowed by the shaft end configuration



Notes:

- For codes and dimensions regarding accessories, see section 6.
- For the types of motors without ordering code, contact our Sales Department.
- For reversible motors inlet and outlet ports have same sizes as per inlet unidirectional rotation



| Type | Displacement cm ³ /rev | Dimensions | | | | Outlet | | | | Inlet | | | | | |
|-------------------|--------------------------------------|------------|------|------|------|--------|------|----|------|---------|------|------|------|----|------|
| | | A | | B | | d | | D | | F | | d | | D | |
| | | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| APM200/8.5 | 8.3 | 88 | 3.46 | 40.3 | 1.59 | 13.5 | .53 | 30 | 1.18 | M6X1 | | | | | |
| APM200/11 | 10.95 | | | 104 | 4.09 | 48.3 | 1.90 | | | | | 13.5 | .53 | 30 | 1.18 |
| APM200/15 | 14.95 | | | | | | | | | M6X1 | | | | | |
| APM200/19 | 18.9 | 114 | 4.50 | 54.3 | 2.14 | | | | | | | 19 | .75 | 40 | 1.58 |
| APM200/22 | 21.9 | | | | | | | | | M8X1.25 | | | | | |
| APM200/26 | 25.9 | 118 | 4.64 | 56.5 | 2.22 | | | | | | | | | | |

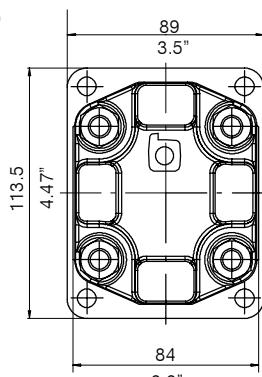
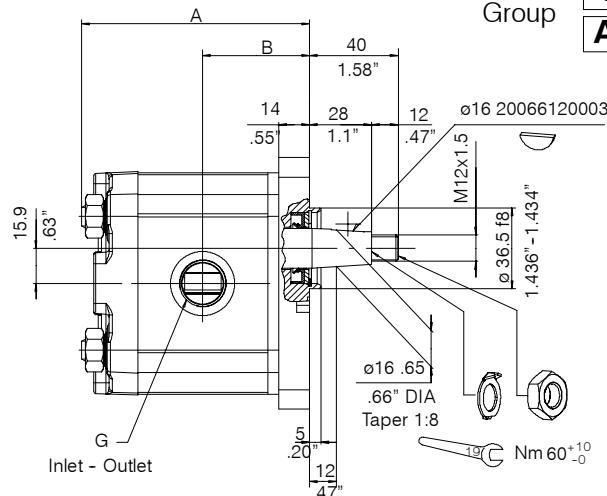
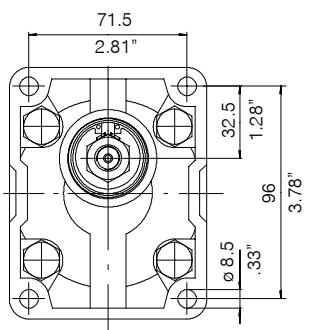
Unidirectional motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | Counterclockwise rotation: S |
|--------------|------------------------|-----------------------|--------------|------------------------|------------------------------|
| APM200/8.5 D | 200.1023.1350.3 | | APM200/8.5 S | 200.1023.1360.4 | |
| APM200/11 D | 200.1024.1350.4 | | APM200/11 S | 200.1024.1360.3 | |
| APM200/15 D | 200.1025.1350.3 | | APM200/15 S | 200.1025.1360.3 | |
| APM200/19 D | 200.1026.1350.3 | | APM200/19 S | 200.1026.1360.2 | |
| APM200/22 D | 200.1027.1350.2 | | APM200/22 S | 200.1027.1360.2 | |
| APM200/26 D | 200.1028.1350.1 | | APM200/26 S | 200.1028.1360.3 | |

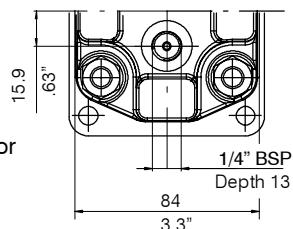
Reversible motor

| Type | Order Code | Reversible motor Internal drain | Type | Order Code | Reversible motor External drain |
|----------------|------------|---------------------------------|----------------|------------|---------------------------------|
| APMR200/8.5 ID | | | APMR200/8.5 ED | | |
| APMR200/11 ID | | | APMR200/11 ED | | |
| APMR200/15 ID | | | APMR200/15 ED | | |
| APMR200/19 ID | | | APMR200/19 ED | | |
| APMR200/22 ID | | | APMR200/22 ED | | |
| APMR200/26 ID | | | APMR200/26 ED | | |

APM200 Group
APMR200 Code **818**



Reversible motor
External drain



| Type | Displacement cm³/rev | Dimensions | | | | Outlet | Inlet | | |
|-------------------|-------------------------|------------|-------|------|-------|--------|-------|--|--|
| | | A | | B | | G | G | | |
| | | mm | inch. | mm | inch. | BSPP | BSPP | | |
| APM200/8.5 | 8.3 | 88 | 3.46 | 40.3 | 1.59 | 3/8" | | | |
| APM200/11 | 10.95 | 104 | 4.09 | 48.3 | 1.90 | 1/2" | 3/8" | | |
| APM200/15 | 14.95 | | | | | | | | |
| APM200/19 | 18.9 | 114 | 4.50 | 54.3 | 2.14 | 3/4" | 1/2" | | |
| APM200/22 | 21.9 | 118 | 4.64 | 56.5 | 2.22 | | | | |
| APM200/26 | 25.9 | | | | | | | | |

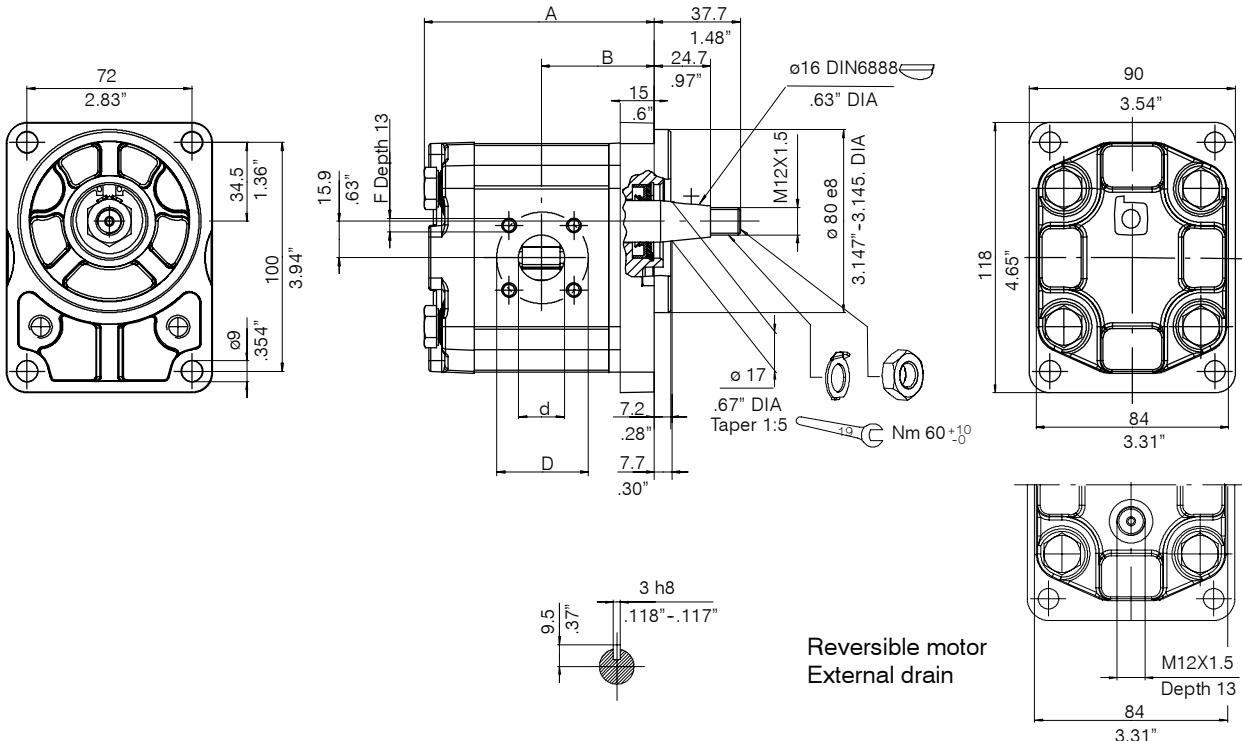
Unidirectional motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | Counterclockwise rotation: S |
|--------------|------------------------|-----------------------|--------------|------------------------|------------------------------|
| APM200/8.5 D | 200.1023.1320.7 | D | APM200/8.5 S | | S |
| APM200/11 D | | | APM200/11 S | | |
| APM200/15 D | 200.1025.1350.5 | | APM200/15 S | | |
| APM200/19 D | 200.1026.1350.4 | | APM200/19 S | 200.1026.1360.3 | |
| APM200/22 D | | | APM200/22 S | | |
| APM200/26 D | | | APM200/26 S | | |

Reversible motor

| Type | Order Code | Reversible motor Internal drain | Type | Order Code | Reversible motor External drain |
|----------------|------------|---------------------------------|----------------|------------|---------------------------------|
| APMR200/8.5 ID | | R | APMR200/8.5 ED | | R |
| APMR200/11 ID | | | APMR200/11 ED | | |
| APMR200/15 ID | | | APMR200/15 ED | | |
| APMR200/19 ID | | | APMR200/19 ED | | |
| APMR200/22 ID | | | APMR200/22 ED | | |
| APMR200/26 ID | | | APMR200/26 ED | | |

Group **APM200**
APMR200 Code **225**



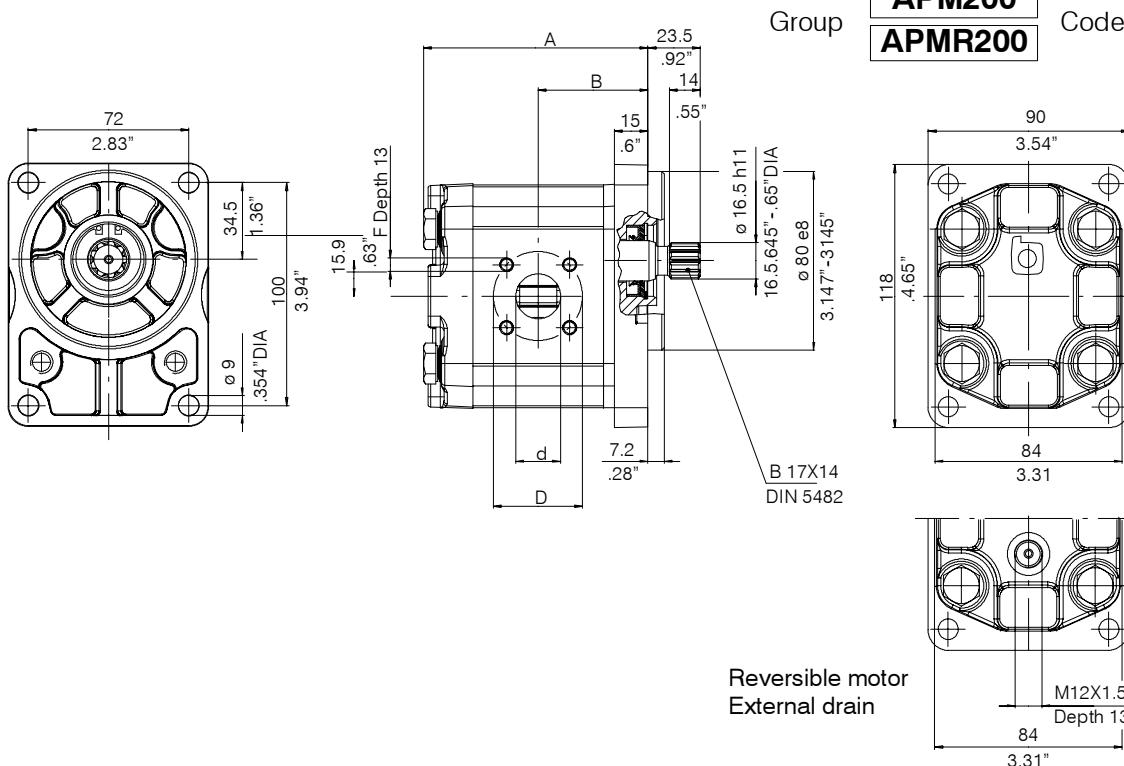
| Type | Displacement cm³/rev | Dimensions | | | | Outlet | | | | Inlet | | | | |
|-------------------|-------------------------|------------|------|------|------|--------|------|----|------|-------|----|------|----|------|
| | | A | | B | | d | | D | | F | d | | D | |
| | | mm | inch | mm | inch | mm | inch | mm | inch | mm | mm | inch | mm | inch |
| APM200/8.5 | 8.3 | 85 | 3.35 | 41.3 | 1.63 | 15 | .59 | | | | | | | |
| APM200/11 | 10.95 | | | 101 | 4 | 49.3 | 1.94 | | | | | | | |
| APM200/15 | 14.95 | | | | | | | 40 | 1.58 | M6X1 | 15 | .59 | 35 | 1.38 |
| APM200/19 | 18.9 | 113 | 4.44 | 55.3 | 2.18 | | | | | | | | | M6X1 |
| APM200/22 | 21.9 | 117 | 4.60 | 57.5 | 2.26 | | | | | | | | | |

Unidirectional motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | Counterclockwise rotation: S |
|--------------|------------------------|-----------------------|--------------|------------------------|------------------------------|
| APM200/8.5 D | 200.1023.2250.1 | | APM200/8.5 S | | |
| APM200/11 D | 200.1024.2250.3 | | APM200/11 S | 200.1024.2260.1 | |
| APM200/15 D | | | APM200/15 S | | |
| APM200/19 D | | | APM200/19 S | | |
| APM200/22 D | | | APM200/22 S | | |

Reversible motor

| Type | Order Code | Reversible motor Internal drain | Type | Order Code | Reversible motor External drain |
|----------------|------------|---------------------------------|----------------|------------|---------------------------------|
| APMR200/8.5 ID | | | APMR200/8.5 ED | | |
| APMR200/11 ID | | | APMR200/11 ED | | |
| APMR200/15 ID | | | APMR200/15 ED | | |
| APMR200/19 ID | | | APMR200/19 ED | | |
| APMR200/22 ID | | | APMR200/22 ED | | |

APM200
APMR200
Code **227**

| Type | Displacement cm³/rev | Dimensions | | | | Outlet | | | | Inlet | | | | | | | |
|-------------------|-------------------------|------------|------|------|------|--------|------|----|------|-------|------|------|------|-----|----|------|------|
| | | A | | B | | d | | D | | F | d | | D | | | | |
| | | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | | | |
| APM200/8.5 | 8.3 | 85 | 3.35 | 41.3 | 1.63 | 15 | .59 | 20 | .79 | 40 | 1.58 | M6X1 | 15 | .59 | 35 | 1.38 | M6X1 |
| APM200/11 | 10.95 | 101 | 4 | 49.3 | 1.94 | | | | | | | | | | | | |
| APM200/15 | 14.95 | | | | | | | | | | | | | | | | |
| APM200/19 | 18.9 | 113 | 4.44 | 55.3 | 2.18 | | | | | | | | | | | | |
| APM200/22 | 21.9 | 117 | 4.60 | 57.5 | 2.26 | | | | | | | | | | | | |
| APM200/26 | 25.9 | | | | | | | | | | | | | | | | |

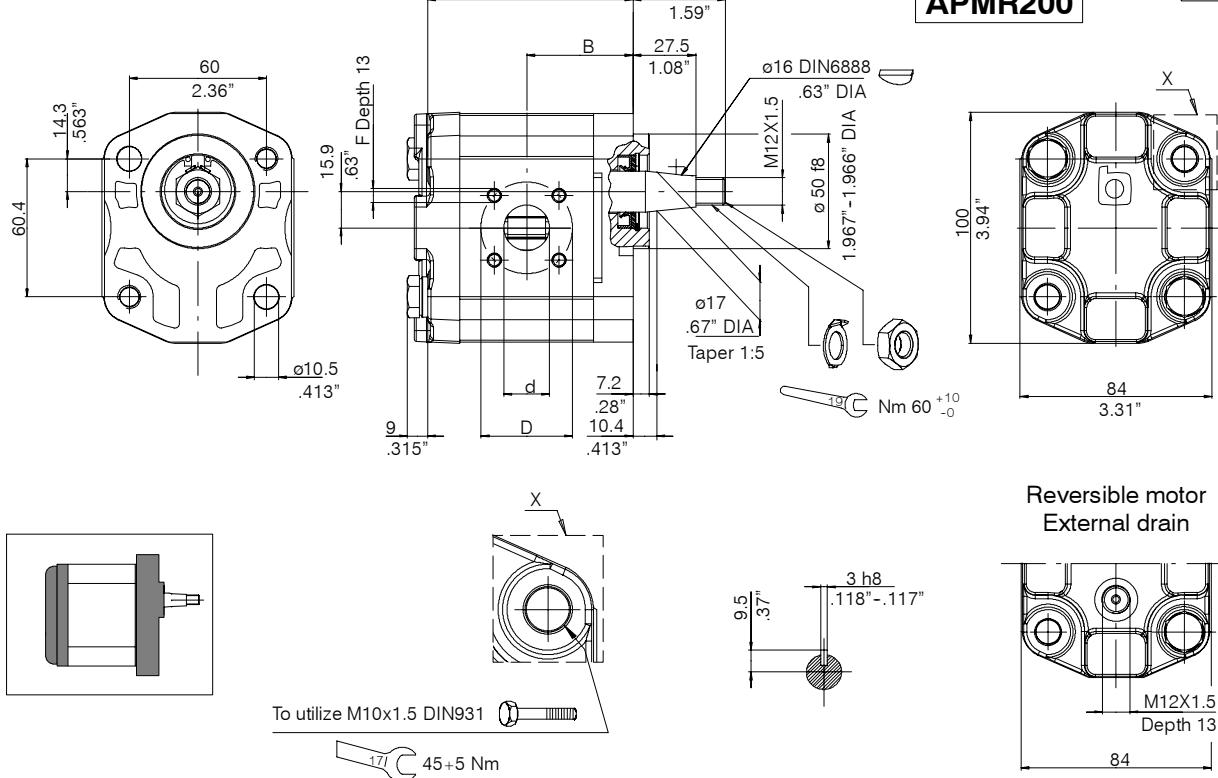
Unidirectional motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | Counterclockwise rotation: S |
|--------------|------------------------|-----------------------|--------------|------------------------|------------------------------|
| APM200/8.5 D | | | APM200/8.5 S | 200.1023.2560.2 | |
| APM200/11 D | 200.1024.2520.3 | | APM200/11 S | | |
| APM200/15 D | | | APM200/15 S | | |
| APM200/19 D | | | APM200/19 S | 200.1026.2560.1 | |
| APM200/22 D | | | APM200/22 S | 200.1027.2530.3 | |
| APM200/26 D | | | APM200/26 S | 200.1028.2530.2 | |

Reversible motor

| Type | Order Code | Reversible motor Internal drain | Type | Order Code | Reversible motor External drain |
|----------------|------------|---------------------------------|----------------|------------|---------------------------------|
| APMR200/8.5 ID | | | APMR200/8.5 ED | | |
| APMR200/11 ID | | | APMR200/11 ED | | |
| APMR200/15 ID | | | APMR200/15 ED | | |
| APMR200/19 ID | | | APMR200/19 ED | | |
| APMR200/22 ID | | | APMR200/22 ED | | |
| APMR200/26 ID | | | APMR200/26 ED | | |

Group **APM200**
APMR200 Code **235**



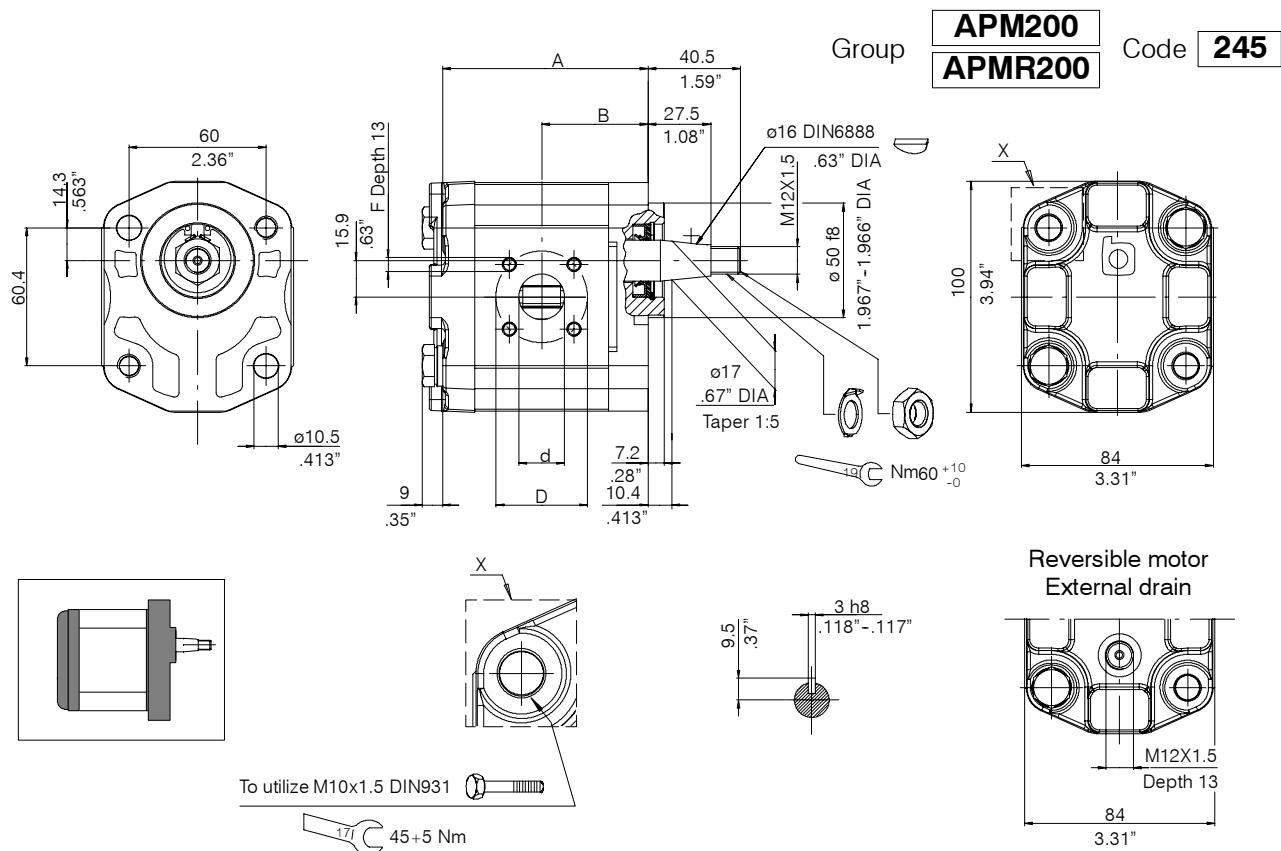
| Type | Displacement cm³/rev | Dimensions | | | | Outlet | | | | Inlet | | | | |
|-------------------|-------------------------|------------|------|------|------|--------|------|----|------|-------|------|------|------|------|
| | | A | | B | | d | | D | | F | d | | D | |
| | | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm |
| APM200/8.5 | 8.3 | 74 | 2.9 | 40 | 1.57 | 15 | .59 | | | | | | | |
| APM200/11 | 10.95 | | | 90 | 3.55 | 46.5 | 1.83 | | | 40 | 1.58 | M6X1 | 15 | .59 |
| APM200/15 | 14.95 | | | | | 20 | .79 | | | | | | 35 | 1.38 |
| APM200/19 | 18.9 | 102 | 4 | 52.3 | 2.06 | | | 40 | 1.58 | M6X1 | 15 | .59 | | M6X1 |
| APM200/22 | 21.9 | 106 | 4.17 | 54.5 | 2.15 | 20 | .79 | | | | 35 | 1.38 | | M6X1 |

Unidirectional motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | Counterclockwise rotation: S |
|--------------|------------|-----------------------|--------------|------------------------|------------------------------|
| APM200/8.5 D | | | APM200/8.5 S | 200.1023.3260.1 | |
| APM200/11 D | | | APM200/11 S | 200.1024.3260.1 | |
| APM200/15 D | | | APM200/15 S | | |
| APM200/19 D | | | APM200/19 S | | |
| APM200/22 D | | | APM200/22 S | | |

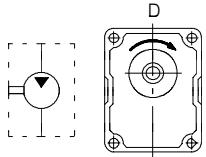
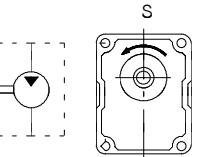
Reversible motor

| Type | Order Code | Reversible motor Internal drain | Type | Order Code | Reversible motor External drain |
|----------------|------------|---------------------------------|----------------|------------|---------------------------------|
| APMR200/8.5 ID | | | APMR200/8.5 ED | | |
| APMR200/11 ID | | | APMR200/11 ED | | |
| APMR200/15 ID | | | APMR200/15 ED | | |
| APMR200/19 ID | | | APMR200/19 ED | | |
| APMR200/22 ID | | | APMR200/22 ED | | |

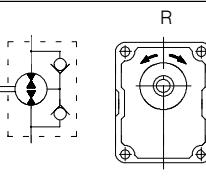
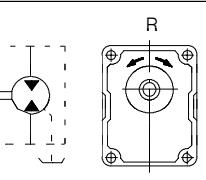


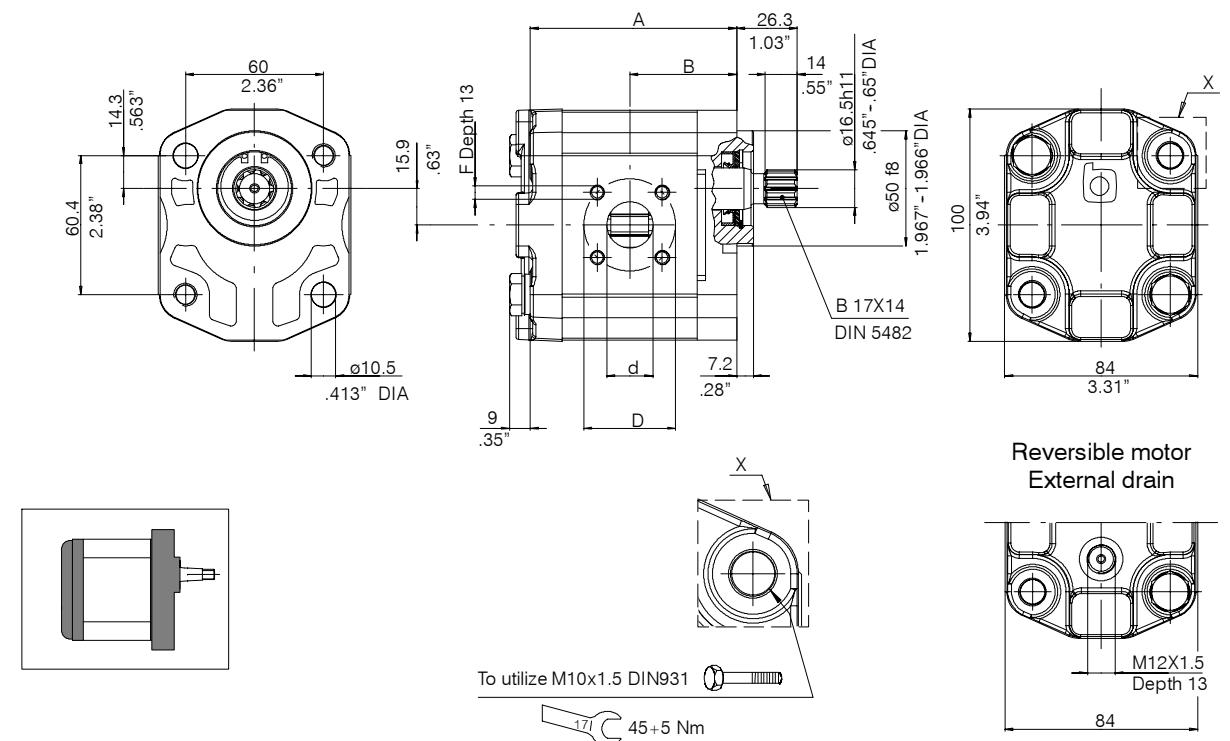
| Type | Displacement cm³/rev | Dimensions | | | | Outlet | | | | Inlet | | | | |
|-------------------|-------------------------|------------|------|------|------|--------|------|----|------|-------|----|------|----|------|
| | | A | | B | | d | | D | | F | d | | D | |
| | | mm | inch | mm | inch | mm | inch | mm | inch | mm | mm | inch | mm | inch |
| APM200/8.5 | 8.3 | 74 | 2.9 | 40 | 1.57 | 15 | .59 | | | | | | | |
| APM200/11 | 10.95 | | | 90 | 3.55 | 46.5 | 1.83 | | | | | | | |
| APM200/15 | 14.95 | | | | | | | 40 | 1.58 | M6X1 | 15 | .59 | 35 | 1.38 |
| APM200/19 | 18.9 | 102 | 4 | 52.3 | 2.06 | | | | | | | | | M6X1 |
| APM200/22 | 21.9 | 106 | 4.17 | 54.5 | 2.15 | | | | | | | | | |

Unidirectional motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | Counterclockwise rotation: S |
|--------------|------------|---|--------------|------------|---|
| APM200/8.5 D | |  | APM200/8.5 S | |  |
| APM200/11 D | | | APM200/11 S | | |
| APM200/15 D | | | APM200/15 S | | |
| APM200/19 D | | | APM200/19 S | | |
| APM200/22 D | | | APM200/22 S | | |

Reversible motor

| Type | Order Code | Reversible motor Internal drain | Type | Order Code | Reversible motor External drain |
|----------------|------------|---|----------------|------------|---|
| APMR200/8.5 ID | |  | APMR200/8.5 ED | |  |
| APMR200/11 ID | | | APMR200/11 ED | | |
| APMR200/15 ID | | | APMR200/15 ED | | |
| APMR200/19 ID | | | APMR200/19 ED | | |
| APMR200/22 ID | | | APMR200/22 ED | | |

Group
APM200**APMR200**Code **237**

| Type | Displacement cm³/rev | Dimensions | | | | Outlet | | | | Inlet | | | | |
|-------------------|-------------------------|------------|------|------|------|--------|------|----|------|-------|------|------|----|------|
| | | A | | B | | d | | D | | F | d | | D | |
| | | mm | inch | mm | inch | mm | inch | mm | inch | mm | mm | inch | mm | inch |
| APM200/8.5 | 8.3 | 74 | 2.9 | 40 | 1.57 | 15 | .59 | 20 | .79 | 40 | 1.58 | M6X1 | 15 | .59 |
| APM200/11 | 10.95 | 90 | 3.55 | 46.5 | 1.83 | | | | | | | | | |
| APM200/15 | 14.95 | | | | | | | | | | | | | |
| APM200/19 | 18.9 | 102 | 4 | 52.3 | 2.06 | | | | | | | | | |
| APM200/22 | 21.9 | 106 | 4.17 | 54.5 | 2.15 | | | | | | | | | |

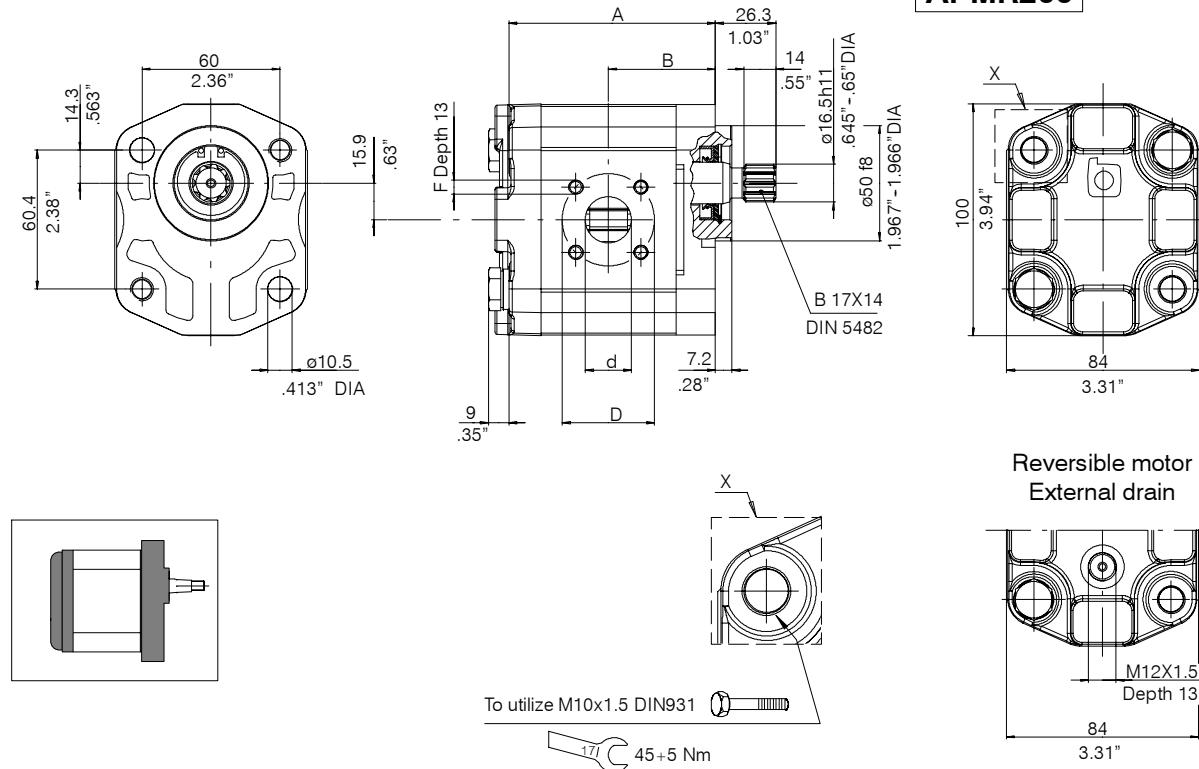
Unidirectional motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | Counterclockwise rotation: S |
|--------------|------------|-----------------------|--------------|------------|------------------------------|
| APM200/8.5 D | | D | APM200/8.5 S | | S |
| APM200/11 D | | | APM200/11 S | | |
| APM200/15 D | | | APM200/15 S | | |
| APM200/19 D | | | APM200/19 S | | |
| APM200/22 D | | | APM200/22 S | | |

Reversible motor

| Type | Order Code | Reversible motor Internal drain | Type | Order Code | Reversible motor External drain |
|----------------|------------|---------------------------------|----------------|------------|---------------------------------|
| APMR200/8.5 ID | | R | APMR200/8.5 ED | | R |
| APMR200/11 ID | | | APMR200/11 ED | | |
| APMR200/15 ID | | | APMR200/15 ED | | |
| APMR200/19 ID | | | APMR200/19 ED | | |
| APMR200/22 ID | | | APMR200/22 ED | | |

Group **APM200**
APMR200 Code **247**



| Type | Displacement cm³/rev | Dimensions | | | | Outlet | | | | Inlet | | | | | | |
|-------------------|-------------------------|------------|------|------|------|--------|------|------|------|-------|------|----|------|------|------|------|
| | | A | | B | | d | | D | | F | | d | | D | | |
| | | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | |
| APM200/8.5 | 8.3 | 74 | 2.9 | 40 | 1.57 | 15 | .59 | 20 | 40 | 1.58 | M6X1 | 15 | .59 | 35 | 1.38 | M6X1 |
| APM200/11 | 10.95 | 90 | 3.55 | 46.5 | 1.83 | .79 | | | | | | | | | | |
| APM200/15 | 14.95 | 90 | 3.55 | 46.5 | 1.83 | 20 | 40 | 1.58 | M6X1 | 15 | .59 | 35 | 1.38 | M6X1 | M6X1 | |
| APM200/19 | 18.9 | 102 | 4 | 52.3 | 2.06 | | | | | | | | | | | |
| APM200/22 | 21.9 | 106 | 4.17 | 54.5 | 2.15 | | | | | | | | | | | |

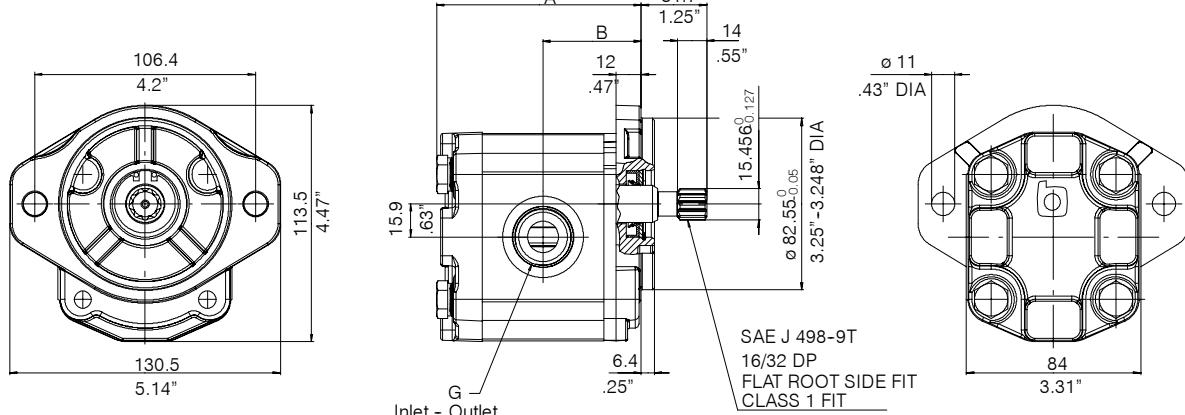
Unidirectional motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | Counterclockwise rotation: S |
|--------------|------------|-----------------------|--------------|------------|------------------------------|
| APM200/8.5 D | | | APM200/8.5 S | | |
| APM200/11 D | | | APM200/11 S | | |
| APM200/15 D | | | APM200/15 S | | |
| APM200/19 D | | | APM200/19 S | | |
| APM200/22 D | | | APM200/22 S | | |

Reversible motor

| Type | Order Code | Reversible motor Internal drain | Type | Order Code | Reversible motor External drain |
|----------------|------------|---------------------------------|----------------|------------|---------------------------------|
| APMR200/8.5 ID | | | APMR200/8.5 ED | | |
| APMR200/11 ID | | | APMR200/11 ED | | |
| APMR200/15 ID | | | APMR200/15 ED | | |
| APMR200/19 ID | | | APMR200/19 ED | | |
| APMR200/22 ID | | | APMR200/22 ED | | |

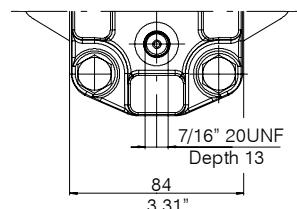
Group **APM200**
APMR200 Code **887S**



100+10 Nm 1-1/16 12UNF

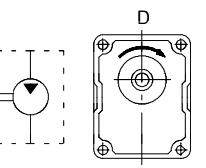
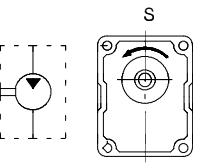
65+10 Nm 7/8 14UNF

Reversible motor
External drain

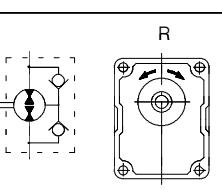
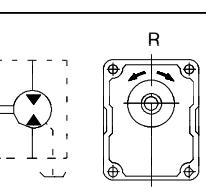


| Type | Displacement cm ³ /rev | Dimensions | | | | Outlet G 12UNF | Inlet G 14UNF | | |
|-------------------|--------------------------------------|------------|------|------|------|----------------------|---------------------|--|--|
| | | A | | B | | | | | |
| | | mm | inch | mm | inch | | | | |
| APM200/8.5 | 8.3 | 82.5 | 3.23 | 39.5 | 1.55 | | | | |
| APM200/11 | 10.95 | 98.5 | 3.9 | 47.5 | 1.87 | | | | |
| APM200/15 | 14.95 | | | | | | | | |
| APM200/19 | 18.9 | 110.5 | 4.35 | 53.5 | 2.11 | | | | |
| APM200/22 | 21.9 | 115 | 4.53 | 55.5 | 2.18 | | | | |
| APM200/26 | 25.9 | | | | | | | | |

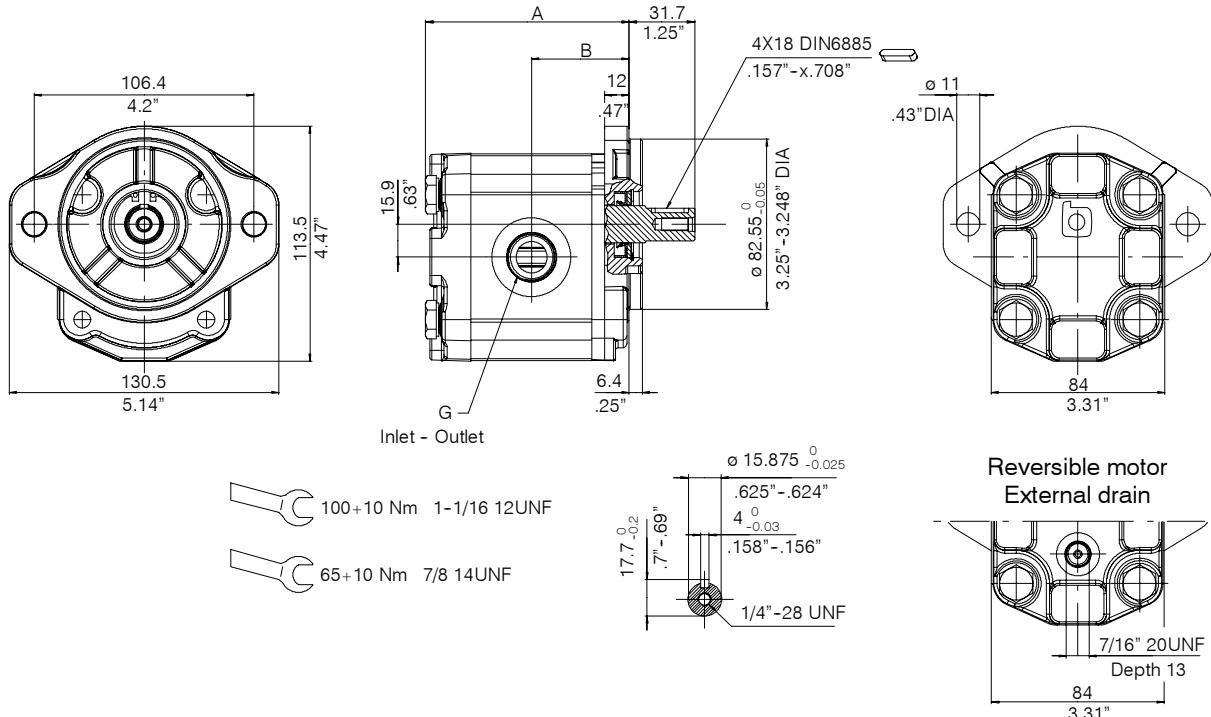
Unidirectional motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | Counterclockwise rotation: S |
|--------------|------------------------|---|--------------|------------|---|
| APM200/8.5 D | 200.1023.8650.1 |  | APM200/8.5 S | |  |
| APM200/11 D | 200.1024.8650.1 | | APM200/11 S | | |
| APM200/15 D | | | APM200/15 S | | |
| APM200/19 D | 200.1026.8650.2 | | APM200/19 S | | |
| APM200/22 D | | | APM200/22 S | | |
| APM200/26 D | | | APM200/26 S | | |

Reversible motor

| Type | Order Code | Reversible motor Internal drain | Type | Order Code | Reversible motor External drain |
|----------------|------------|---|----------------|------------|---|
| APMR200/8.5 ID | |  | APMR200/8.5 ED | |  |
| APMR200/11 ID | | | APMR200/11 ED | | |
| APMR200/15 ID | | | APMR200/15 ED | | |
| APMR200/19 ID | | | APMR200/19 ED | | |
| APMR200/22 ID | | | APMR200/22 ED | | |
| APMR200/26 ID | | | APMR200/26 ED | | |

Group **APM200**
APMR200 Code **880**



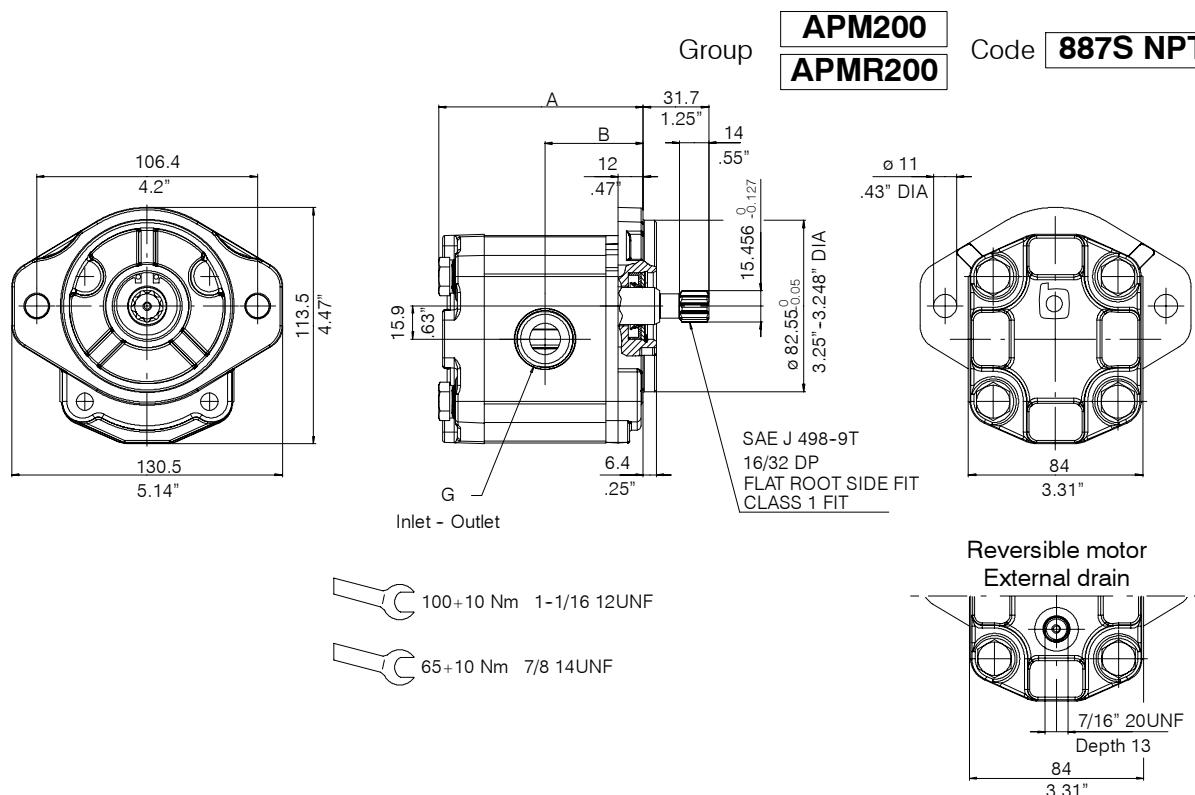
| Type | Displacement cm³/rev | Dimensions | | | | Outlet G 12UNF | Inlet G 14UNF | | |
|-------------------|-------------------------|------------|------|------|------|----------------------|---------------------|--|--|
| | | A | | B | | | | | |
| | | mm | inch | mm | inch | | | | |
| APM200/8.5 | 8.3 | 82.5 | 3.23 | 39.5 | 1.55 | | | | |
| APM200/11 | 10.95 | 98.5 | 3.9 | 47.5 | 1.87 | 1-1/16 | 7/8 | | |
| APM200/15 | 14.95 | | | | | | | | |
| APM200/19 | 18.9 | 110.5 | 4.35 | 53.5 | 2.11 | | | | |
| APM200/22 | 21.9 | 115 | 4.53 | 55.5 | 2.18 | | | | |
| APM200/26 | 25.9 | | | | | | | | |

Unidirectional motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | Counterclockwise rotation: S |
|--------------|------------------------|-----------------------|--------------|------------------------|------------------------------|
| APM200/8.5 D | 200.1023.8050.2 | | APM200/8.5 S | 200.1023.8060.1 | |
| APM200/11 D | 200.1024.8050.1 | | APM200/11 S | 200.1024.8060.2 | |
| APM200/15 D | 200.1025.8050.3 | | APM200/15 S | 200.1025.8060.1 | |
| APM200/19 D | 200.1026.8050.1 | | APM200/19 S | | |
| APM200/22 D | 200.1027.8050.1 | | APM200/22 S | | |
| APM200/26 D | 200.1028.8050.1 | | APM200/26 S | | |

Reversible motor

| Type | Order Code | Reversible motor Internal drain | Type | Order Code | Reversible motor External drain |
|----------------|------------|---------------------------------|----------------|------------|---------------------------------|
| APMR200/8.5 ID | | | APMR200/8.5 ED | | |
| APMR200/11 ID | | | APMR200/11 ED | | |
| APMR200/15 ID | | | APMR200/15 ED | | |
| APMR200/19 ID | | | APMR200/19 ED | | |
| APMR200/22 ID | | | APMR200/22 ED | | |
| APMR200/26 ID | | | APMR200/26 ED | | |



| Type | Displacement cm ³ /rev | Dimensions | | | | Outlet | Inlet | | |
|-----------|--------------------------------------|------------|------|------|------|--------|-------|--|--|
| | | A | | B | | G | G | | |
| | | mm | inch | mm | inch | NPTF | NPTF | | |
| APM200/11 | 10.95 | 98.5 | 3.9 | 47.5 | 1.87 | 3/4" | 1/2" | | |
| APM200/15 | 14.95 | | | | | | | | |
| APM200/19 | 18.9 | 110.5 | 4.35 | 53.5 | 2.11 | | | | |
| APM200/22 | 21.9 | 115 | 4.53 | 55.5 | 2.18 | | | | |
| APM200/26 | 25.9 | | | | | | | | |

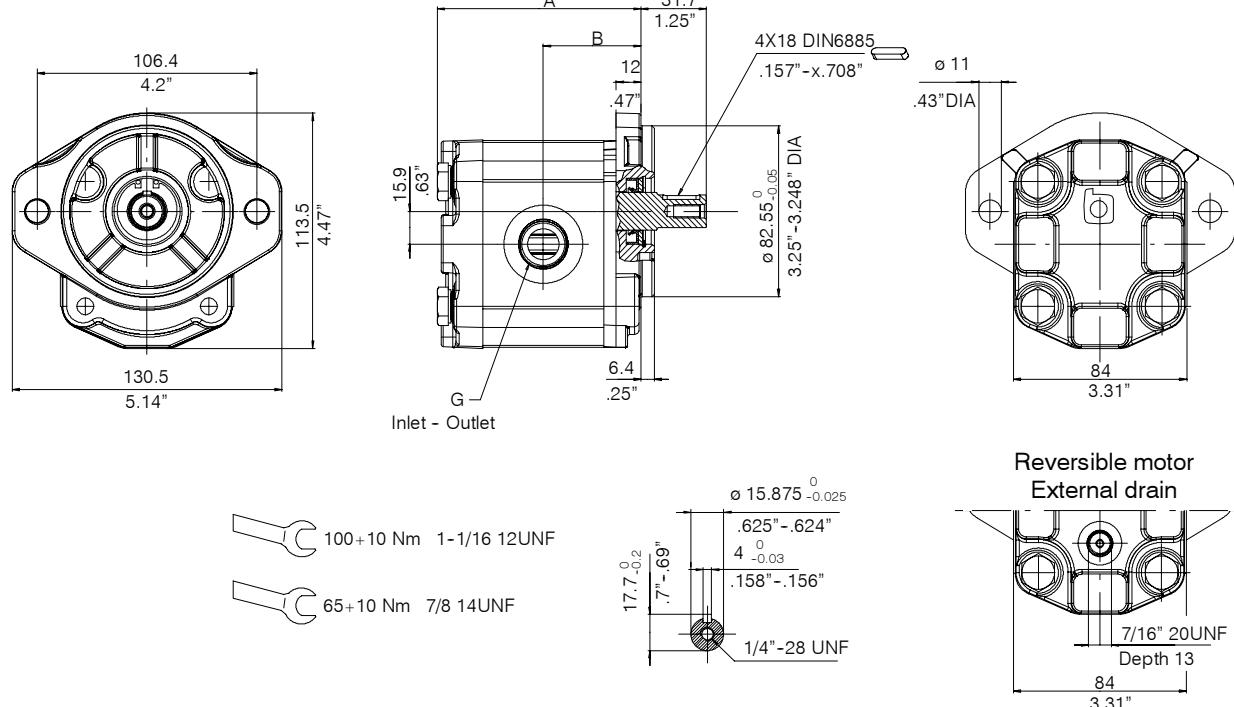
Unidirectional motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | Counterclockwise rotation: S |
|-------------|------------|-----------------------|-------------|------------|------------------------------|
| APM200/11 D | | D | APM200/11 S | | S |
| APM200/15 D | | | APM200/15 S | | |
| APM200/19 D | | | APM200/19 S | | |
| APM200/22 D | | | APM200/22 S | | |
| APM200/26 D | | | APM200/26 S | | |

Reversible motor

| Type | Order Code | Reversible motor Internal drain | Type | Order Code | Reversible motor External drain |
|---------------|------------|---------------------------------|---------------|------------|---------------------------------|
| APMR200/11 ID | | R | APMR200/11 ED | | R |
| APMR200/15 ID | | | APMR200/15 ED | | |
| APMR200/19 ID | | | APMR200/19 ED | | |
| APMR200/22 ID | | | APMR200/22 ED | | |
| APMR200/26 ID | | | APMR200/26 ED | | |

Group **APM200**
APMR200 Code **880 NPTF**



| Type | Displacement cm ³ /rev | Dimensions | | | | Outlet | Inlet | | |
|-------------------|--------------------------------------|------------|------|------|------|--------|-------|--|--|
| | | A | | B | | | | | |
| | | mm | inch | mm | inch | | | | |
| APM200/8.5 | 8.3 | 82.5 | 3.23 | 39.5 | 1.55 | 1/2" | 1/2" | | |
| APM200/11 | 10.95 | 98.5 | 3.9 | 47.5 | 1.87 | 3/4" | 1/2" | | |
| APM200/15 | 14.95 | | | | | | | | |
| APM200/19 | 18.9 | 110.5 | 4.35 | 53.5 | 2.11 | | | | |
| APM200/22 | 21.9 | 115 | 4.53 | 55.5 | 2.18 | | | | |
| APM200/26 | 25.9 | | | | | | | | |

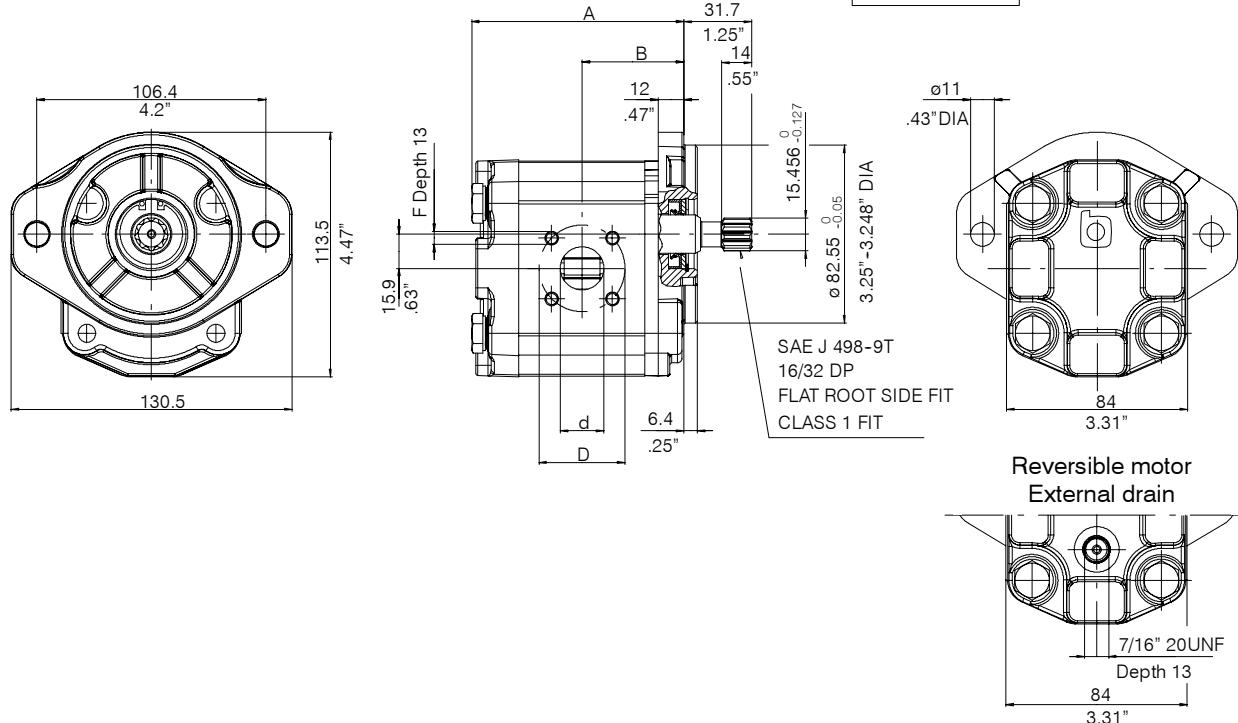
Unidirectional motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | Counterclockwise rotation: S |
|--------------|------------|-----------------------|--------------|------------|------------------------------|
| APM200/8.5 D | | | APM200/8.5 S | | |
| APM200/11 D | | | APM200/11 S | | |
| APM200/15 D | | | APM200/15 S | | |
| APM200/19 D | | | APM200/19 S | | |
| APM200/22 D | | | APM200/22 S | | |
| APM200/26 D | | | APM200/26 S | | |

Reversible motor

| Type | Order Code | Reversible motor Internal drain | Type | Order Code | Reversible motor External drain |
|----------------|------------|---------------------------------|----------------|------------|---------------------------------|
| APMR200/8.5 ID | | | APMR200/8.5 ED | | |
| APMR200/11 ID | | | APMR200/11 ED | | |
| APMR200/15 ID | | | APMR200/15 ED | | |
| APMR200/19 ID | | | APMR200/19 ED | | |
| APMR200/22 ID | | | APMR200/22 ED | | |
| APMR200/26 ID | | | APMR200/26 ED | | |

Group **APM200**
APMR200 Code **287S-B**



| Type | Displacement cm³/rev | Dimensions | | | | Outlet | | | | Inlet | | | | |
|-------------------|-------------------------|------------|------|------|------|--------|------|----|------|-------|----|------|----|------|
| | | A | | B | | d | | D | | F | d | | D | |
| | | mm | inch | mm | inch | mm | inch | mm | inch | mm | mm | inch | mm | inch |
| APM200/8.5 | 8.3 | 82.5 | 3.23 | 39.5 | 1.55 | 15 | .59 | | | | | | | |
| APM200/11 | 10.95 | 98.5 | 3.9 | 47.5 | 1.87 | | | | | | | | | |
| APM200/15 | 14.95 | | | | | | | | | | | | | |
| APM200/19 | 18.9 | 110.5 | 4.35 | 53.5 | 2.11 | | | | | | | | | |
| APM200/22 | 21.9 | | | | | | | | | | | | | |
| APM200/26 | 25.9 | 115 | 4.53 | 55.5 | 2.18 | | | | | | | | | |

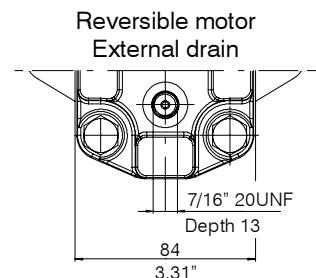
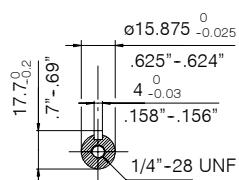
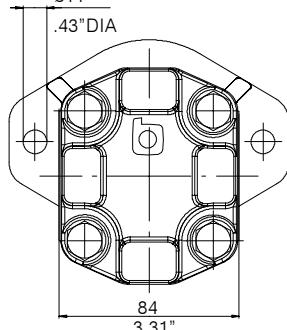
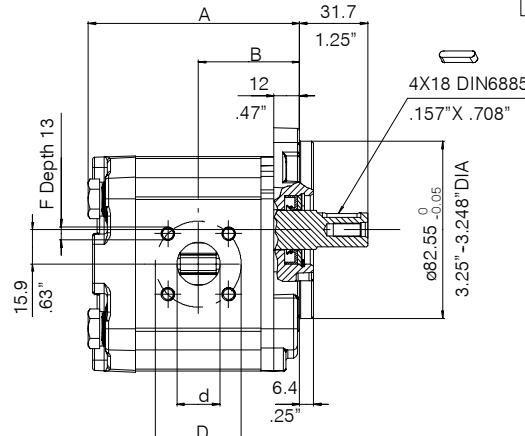
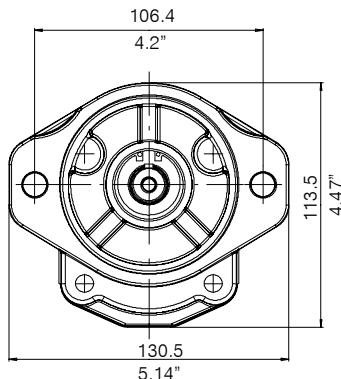
Unidirectional motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | Counterclockwise rotation: S |
|--------------|------------------------|-----------------------|--------------|------------|------------------------------|
| APM200/8.5 D | | | APM200/8.5 S | | |
| APM200/11 D | | | APM200/11 S | | |
| APM200/15 D | | | APM200/15 S | | |
| APM200/19 D | | | APM200/19 S | | |
| APM200/22 D | | | APM200/22 S | | |
| APM200/26 D | 200.1028.8650.1 | | APM200/26 S | | |

Reversible motor

| Type | Order Code | Reversible motor Internal drain | Type | Order Code | Reversible motor External drain |
|----------------|------------|---------------------------------|----------------|------------|---------------------------------|
| APMR200/8.5 ID | | | APMR200/8.5 ED | | |
| APMR200/11 ID | | | APMR200/11 ED | | |
| APMR200/15 ID | | | APMR200/15 ED | | |
| APMR200/19 ID | | | APMR200/19 ED | | |
| APMR200/22 ID | | | APMR200/22 ED | | |
| APMR200/26 ID | | | APMR200/26 ED | | |

Group **APM200**
APMR200 Code **280B**



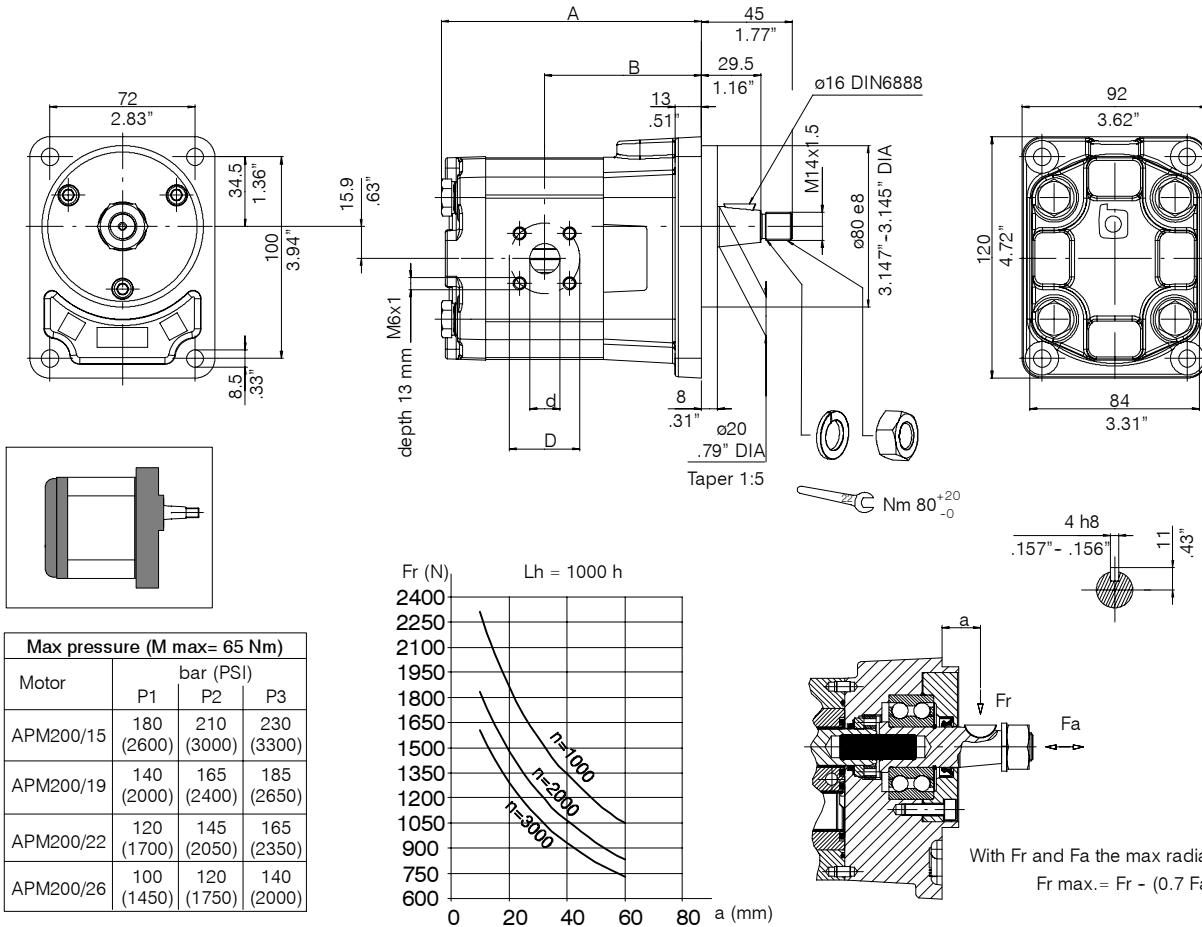
| Type | Displacement cm³/rev | Dimensions | | | | Outlet | | | | Inlet | | | | |
|-------------------|-------------------------|------------|------|------|------|--------|------|----|------|-------|------|----|------|----|
| | | A | | B | | d | | D | | F | d | | D | |
| | | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm |
| APM200/8.5 | 8.3 | 82.5 | 3.23 | 39.5 | 1.55 | 15 | .59 | | | | | | | |
| APM200/11 | 10.95 | 98.5 | 3.9 | 47.5 | 1.87 | | | | | | | | | |
| APM200/15 | 14.95 | | | | | | | | | | | | | |
| APM200/19 | 18.9 | 110.5 | 4.35 | 53.5 | 2.11 | | | | | | | | | |
| APM200/22 | 21.9 | 115 | 4.53 | 55.5 | 2.18 | | | | | | | | | |
| APM200/26 | 25.9 | | | | | | | | | | | | | |

Unidirectional motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | Counterclockwise rotation: S |
|--------------|------------|-----------------------|--------------|------------|------------------------------|
| APM200/8.5 D | | | APM200/8.5 S | | |
| APM200/11 D | | | APM200/11 S | | |
| APM200/15 D | | | APM200/15 S | | |
| APM200/19 D | | | APM200/19 S | | |
| APM200/22 D | | | APM200/22 S | | |
| APM200/26 D | | | APM200/26 S | | |

Reversible motor

| Type | Order Code | Reversible motor Internal drain | Type | Order Code | Reversible motor External drain |
|----------------|------------|---------------------------------|----------------|------------|---------------------------------|
| APMR200/8.5 ID | | | APMR200/8.5 ED | | |
| APMR200/11 ID | | | APMR200/11 ED | | |
| APMR200/15 ID | | | APMR200/15 ED | | |
| APMR200/19 ID | | | APMR200/19 ED | | |
| APMR200/22 ID | | | APMR200/22 ED | | |
| APMR200/26 ID | | | APMR200/26 ED | | |

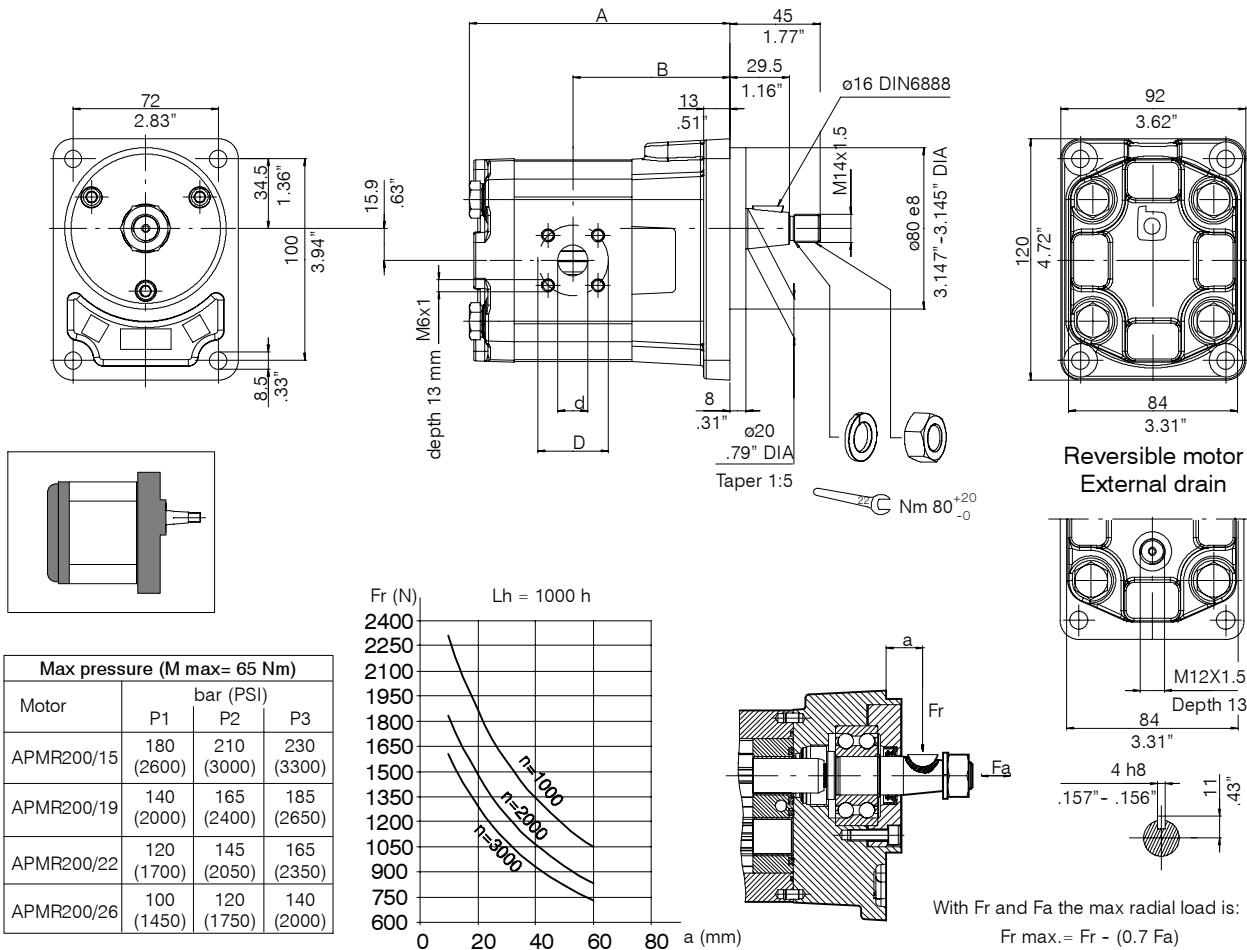
Group **APM200** Code **225 2K2**


| Type | Displacement cm ³ /rev | Dimensions | | | | Outlet | | | | Inlet | | | | |
|------------|--------------------------------------|------------|------|----|------|--------|------|----|------|-------|------|----|------|----|
| | | A | | B | | d | | D | | F | d | | D | |
| | | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm |
| APM200/8.5 | 8.3 | 113 | 4.45 | 70 | 2.75 | 15 | .59 | | | | | | | |
| APM200/11 | 10.95 | 129 | 5.08 | 78 | 3.06 | | | | | | | | | |
| APM200/15 | 14.95 | | | | | | | | | | | | | |
| APM200/19 | 18.9 | 141 | 5.55 | 84 | 3.30 | | | | | | | | | |
| APM200/22 | 21.9 | | | | | | | | | | | | | |
| APM200/26 | 25.9 | 145.5 | 5.73 | 86 | 3.39 | | | | | | | | | |

Unidirectional motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | Counterclockwise rotation: S |
|--------------|------------|-----------------------|--------------|------------|------------------------------|
| APM200/8.5 D | | | APM200/8.5 S | | |
| APM200/11 D | | | APM200/11 S | | |
| APM200/15 D | | | APM200/15 S | | |
| APM200/19 D | | | APM200/19 S | | |
| APM200/22 D | | | APM200/22 S | | |
| APM200/26 D | | | APM200/26 S | | |

N.B.: With respect to the standards, the maximum pressures of some versions of this motor are reduced in relation to the max. torque allowed to the shaft.

Group **APMR200** Code **225 2K1**


| Type | Displacement cm ³ /rev | Dimensions | | | | Outlet | | | | Inlet | | | | | |
|--------------------|--------------------------------------|------------|------|----|------|--------|------|----|------|-------|------|-----|------|------|------|
| | | A | | B | | d | | D | | F | d | | D | | |
| | | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | |
| APMR200/8.5 | 8.3 | 113 | 4.45 | 70 | 2.75 | 15 | .59 | 35 | 1.38 | M6X1 | 15 | .59 | 35 | 1.38 | M6X1 |
| APMR200/11 | 10.95 | 129 | 5.08 | 78 | 3.06 | | | | | | | | | | |
| APMR200/15 | 14.95 | | | | | | | | | | | | | | |
| APMR200/19 | 18.9 | 141 | 5.55 | 84 | 3.30 | | | | | | | | | | |
| APMR200/22 | 21.9 | | | | | | | | | | | | | | |
| APMR200/26 | 25.9 | 145.5 | 5.73 | 86 | 3.39 | | | | | | | | | | |

Reversible motor

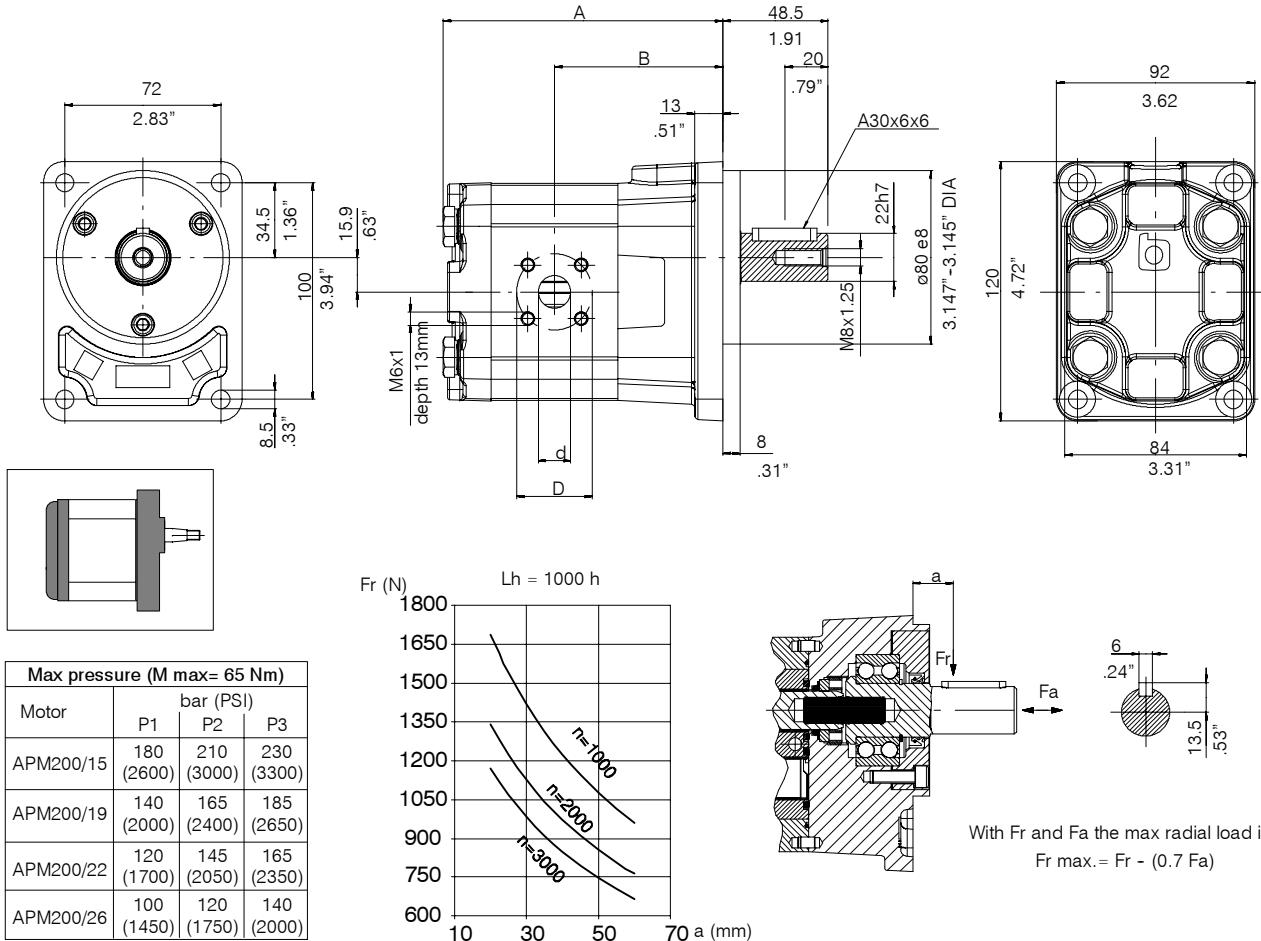
| Type | Order Code | Reversible motor Internal drain | Type | Order Code | Reversible motor External drain |
|----------------|------------|------------------------------------|----------------|------------|------------------------------------|
| APMR200/8.5 ID | | R | APMR200/8.5 ED | | R |
| APMR200/11 ID | | | APMR200/11 ED | | |
| APMR200/15 ID | | | APMR200/15 ED | | |
| APMR200/19 ID | | | APMR200/19 ED | | |
| APMR200/22 ID | | | APMR200/22 ED | | |
| APMR200/26 ID | | | APMR200/26 ED | | |

N.B.: With respect to the standards, the maximum pressures of some versions of this motor are reduced in relation to the max. torque allowed to the shaft.

Group

APM200

Code

220 2T2

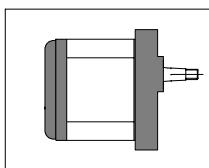
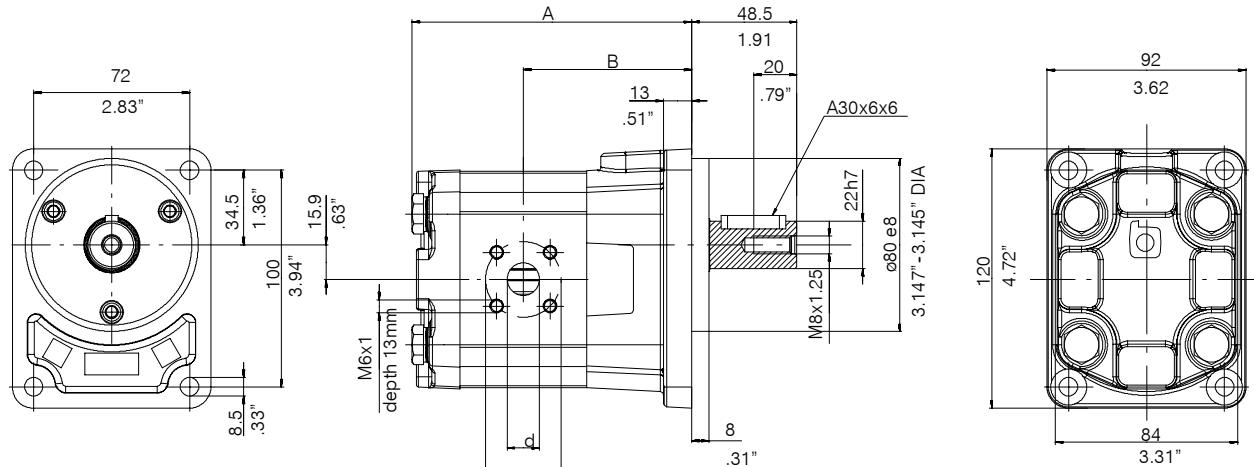
| Motor | Max pressure (M max= 65 Nm) | | |
|-----------|-----------------------------|---------------|---------------|
| | P1 | P2 | P3 |
| APM200/15 | 180 (2600) | 210 (3000) | 230 (3300) |
| APM200/19 | 140 (2000) | 165 (2400) | 185 (2650) |
| APM200/22 | 120 (1700) | 145 (2050) | 165 (2350) |
| APM200/26 | 100 (1450) | 120 (1750) | 140 (2000) |

| Type | Displacement cm³/rev | Dimensions | | | | Outlet | | | Inlet | | | | | | |
|-------------------|-------------------------|------------|------|----|------|--------|------|----|-------|----|----|------|----|------|----|
| | | A | | B | | d | | D | | F | d | | D | | F |
| | | mm | inch | mm | inch | mm | inch | mm | inch | mm | mm | inch | mm | inch | mm |
| APM200/8.5 | 8.3 | 113 | 4.45 | 70 | 2.75 | 15 | .59 | | | | | | | | |
| APM200/11 | 10.95 | 129 | 5.08 | 78 | 3.06 | | | | | | | | | | |
| APM200/15 | 14.95 | | | | | | | | | | | | | | |
| APM200/19 | 18.9 | 141 | 5.55 | 84 | 3.30 | | | | | | | | | | |
| APM200/22 | 21.9 | | | | | | | | | | | | | | |
| APM200/26 | 25.9 | 145.5 | 5.73 | 86 | 3.39 | | | | | | | | | | |

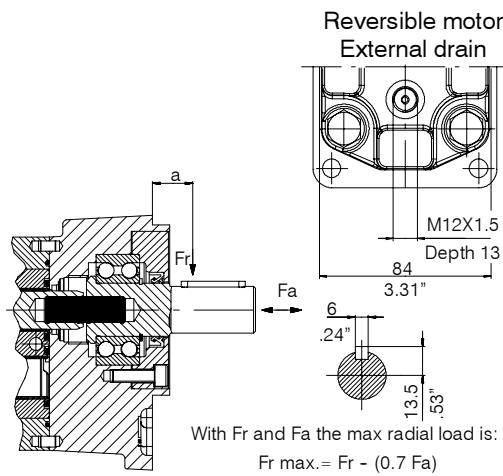
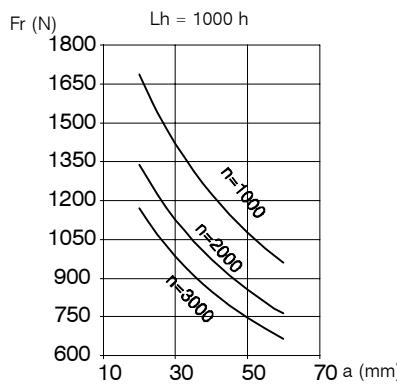
Unidirectional motor

| Type | Order Code | Clockwise rotation: D | Type | Order Code | Counterclockwise rotation: S |
|--------------|------------|-----------------------|--------------|------------|------------------------------|
| APM200/8.5 D | | | APM200/8.5 S | | |
| APM200/11 D | | | APM200/11 S | | |
| APM200/15 D | | | APM200/15 S | | |
| APM200/19 D | | | APM200/19 S | | |
| APM200/22 D | | | APM200/22 S | | |
| APM200/26 D | | | APM200/26 S | | |

N.B.: With respect to the standards, the maximum pressures of some versions of this motor are reduced in relation to the max. torque allowed to the shaft.

Group **APMR200** Code **220 2T1**


| Max pressure (M max= 65 Nm) | | | |
|-----------------------------|-----------------|---------------|---------------|
| Motor | P1 bar (PSI) | P2 (3000) | P3 (3300) |
| APMR200/15 | 180 (2600) | 210 (3000) | 230 (3300) |
| APMR200/19 | 140 (2000) | 165 (2400) | 185 (2650) |
| APMR200/22 | 120 (1700) | 145 (2050) | 165 (2350) |
| APMR200/26 | 100 (1450) | 120 (1750) | 140 (2000) |

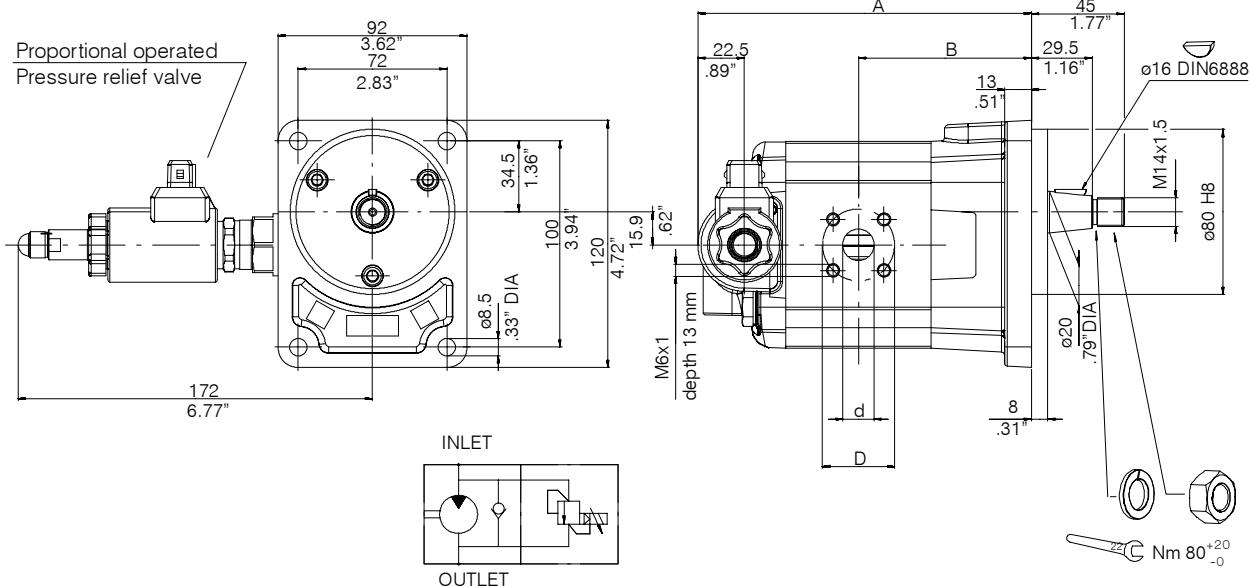


| Type | Displacement cm³/rev | Dimensions | | | | Outlet | | | | Inlet | | | | |
|--------------------|-------------------------|------------|------|----|------|--------|------|----|------|-------|------|-----|------|------|
| | | A | | B | | d | | D | | F | d | | D | |
| | | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm |
| APMR200/8.5 | 8.3 | 113 | 4.45 | 70 | 2.75 | 15 | .59 | 35 | 1.38 | M6X1 | 15 | .59 | 35 | 1.38 |
| APMR200/11 | 10.95 | 129 | 5.08 | 78 | 3.06 | | | | | | | | | |
| APMR200/15 | 14.95 | | | | | | | | | | | | | |
| APMR200/19 | 18.9 | 141 | 5.55 | 84 | 3.30 | | | | | | | | | |
| APMR200/22 | 21.9 | | | | | | | | | | | | | |
| APMR200/26 | 25.9 | 145.5 | 5.73 | 86 | 3.39 | | | | | | | | | |

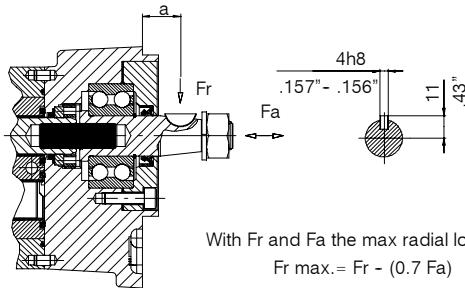
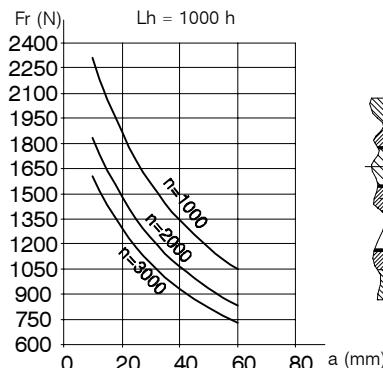
Reversible motor

| Type | Order Code | Reversible motor Internal drain | Type | Order Code | Reversible motor External drain |
|----------------|------------|------------------------------------|----------------|------------|------------------------------------|
| APMR200/8.5 ID | | R | APMR200/8.5 ED | | R |
| APMR200/11 ID | | | APMR200/11 ED | | |
| APMR200/15 ID | | | APMR200/15 ED | | |
| APMR200/19 ID | | | APMR200/19 ED | | |
| APMR200/22 ID | | | APMR200/22 ED | | |
| APMR200/26 ID | | | APMR200/26 ED | | |

N.B.: With respect to the standards, the maximum pressures of some versions of this motor are reduced in relation to the max. torque allowed to the shaft.

Group **APFM200** Code *******


| Max pressure (M max= 65 Nm) | | | |
|-----------------------------|-----------------|---------------|---------------|
| Motor | P1 bar (PSI) | P2 (3000) | P3 (3300) |
| APFM200/15 | 180 (2600) | 210 (3000) | 230 (3300) |
| APFM200/19 | 140 (2000) | 165 (2400) | 185 (2650) |
| APFM200/22 | 120 (1700) | 145 (2050) | 165 (2350) |
| APFM200/26 | 100 (1450) | 120 (1750) | 140 (2000) |

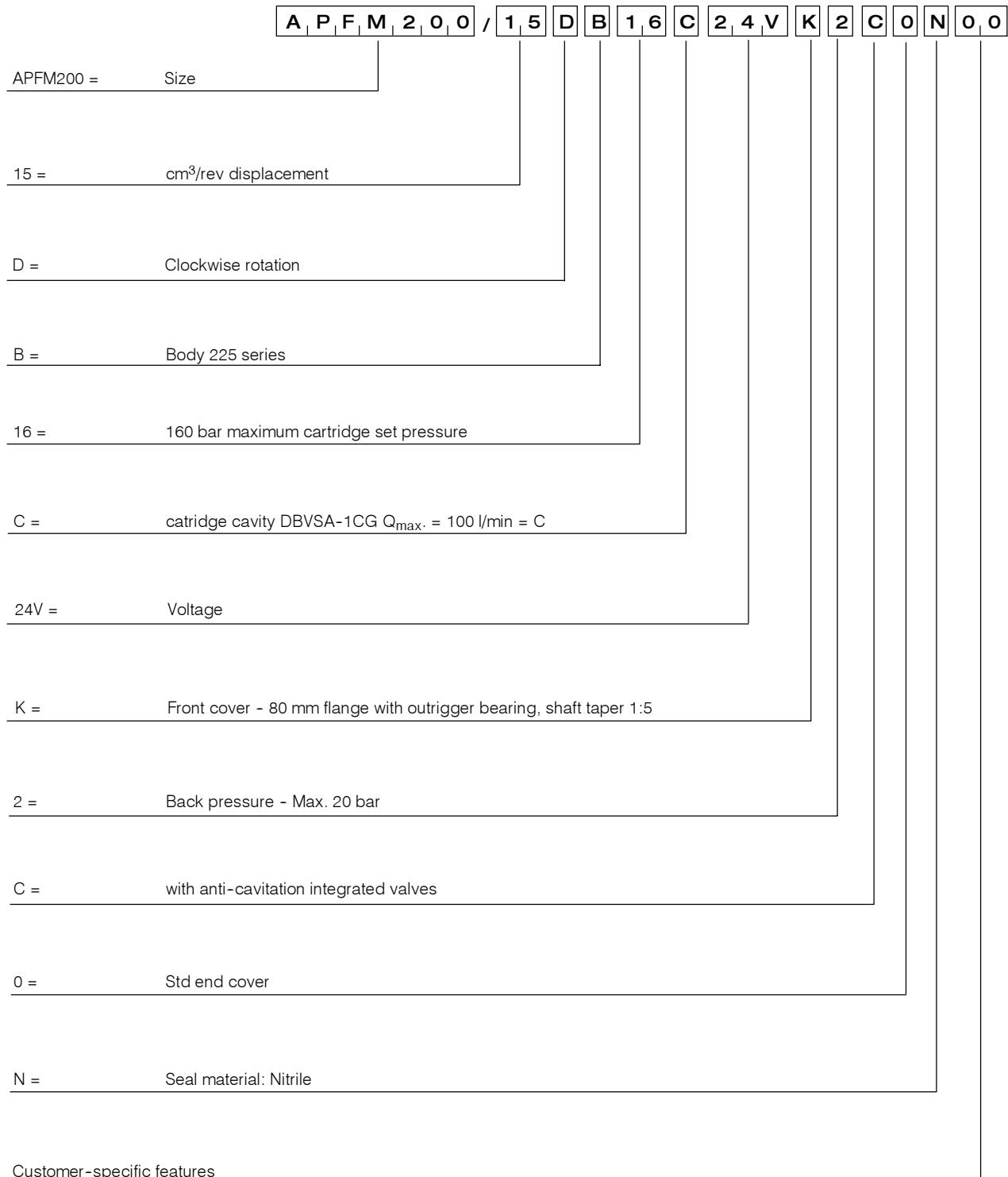


With F_r and F_a the max radial load is:
 $F_{r\max} = F_r - (0.7 F_a)$

| Type | Displacement cm ³ /rev | Dimensions | | | | Outlet | | | | Inlet | | | | | | | |
|--------------------|--------------------------------------|------------|------|-----|------|--------|------|----|------|-------|------|-----|------|------|------|----|------|
| | | A | | B | | d | | D | | F | | d | | D | | F | |
| | | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | inch |
| APFM200/8.5 | 8.3 | 70 | 2.76 | 134 | 5.28 | 15 | .59 | | | | | | | | | | |
| APFM200/11 | 10.95 | | | | | | | | | | | | | | | | |
| APFM200/15 | 14.95 | 78 | 3.07 | 150 | 5.91 | | | | | | | | | | | | |
| APFM200/19 | 18.9 | 84 | 3.31 | 162 | 6.38 | | | | | | | | | | | | |
| APFM200/22 | 21.9 | | | | | | | | | | | | | | | | |
| APFM200/26 | 25.9 | 86 | 3.39 | 166 | 6.33 | 20 | .79 | 40 | 1.58 | M6X1 | 15 | .59 | 35 | 1.38 | M6X1 | | |

*** : For more and detailed information look at the specific catalogue: 100-P-000062-E "Hydraulic Drive System for Engine Cooling Fans".

Example of Fan Drive Motor ordering code

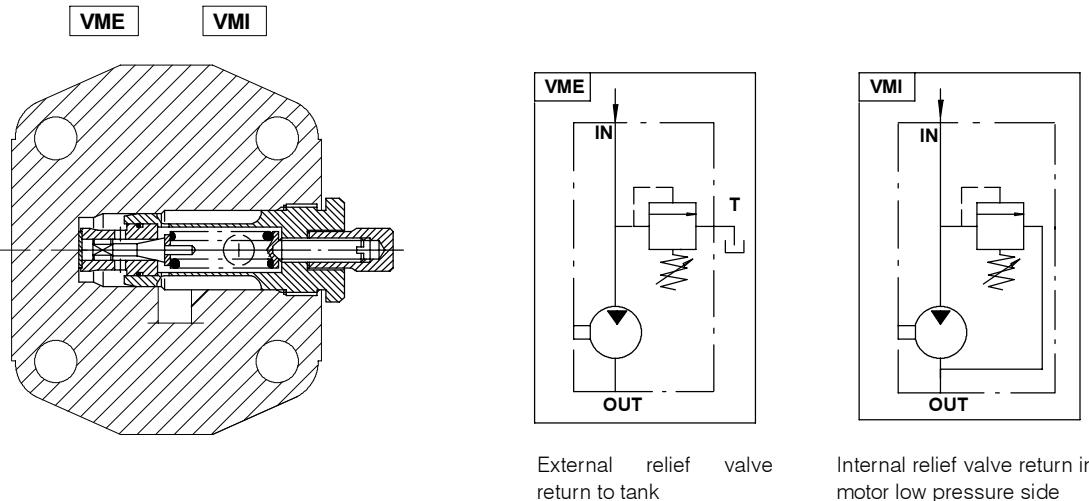


For more and detailed information look at the specific catalogue: 100-P-000062-E "Hydraulic Drive System for Engine Cooling Fans"

Unidirectional motor APM200 with pressure relief valve VM

Unidirectional APM200 gear motor can be provided by a rear cover with a built in pressure relief valve **VM**.

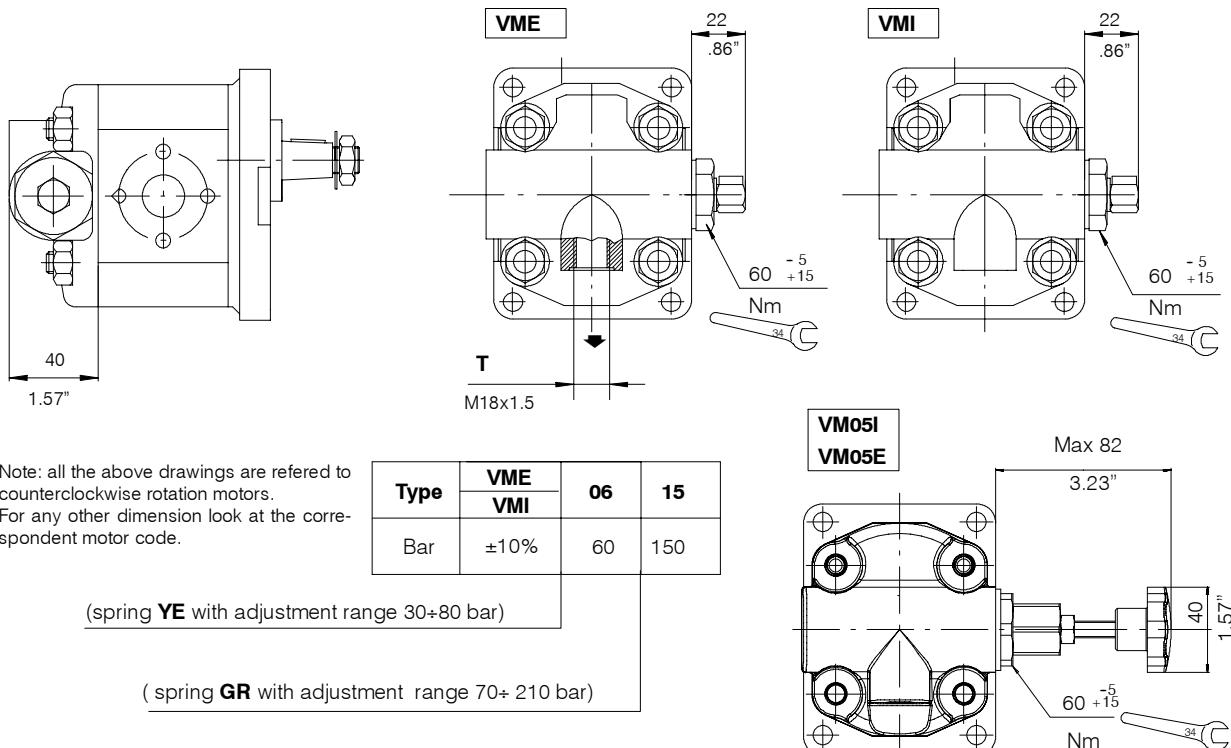
For the composition product code exemple see page 61/64.



External relief valve return to tank

Internal relief valve return into motor low pressure side

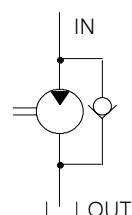
Standard setting values for VM



Note: all the above drawings are referred to counterclockwise rotation motors.
For any other dimension look at the correspondent motor code.

Integrated anti-cavitation valves

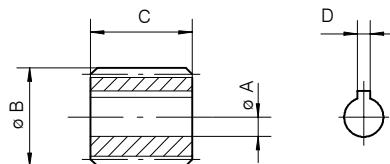
APM200 gear motor can be equipped with integrated anti-cavitation valves. No change of external dimensions and any extra tank connection is required. Specify on motor code description adding + C.
Ex: APM200/15 S 225 + C



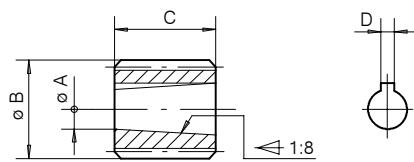
6 Accessories

6.1 Splined couplings

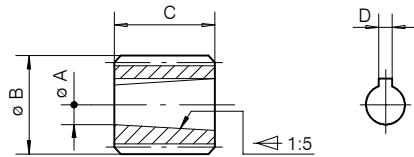
Material: UNI5331 16 CrNi4Pb Hardness 58 - 60 HRc (*) UNI5332 38NiCrMo4Pb R= 950 - 1050 N/mm²



| Type | Motor group | Order code | Spline profile DIN 5482 | A | | B | | C | | D | | n. of feet |
|--------|-------------|----------------|----------------------------|----|------|------|------|----|------|----|------|---------------|
| | | | | mm | inch | mm | inch | mm | inch | mm | inch | |
| GSH-06 | APM05 | 200.5314.20001 | 20X17 | 7 | .27 | 19.5 | .76 | 9 | .35 | 2 | .08 | 12 |



| Type | Motor group | Order code | Spline profile DIN 5482 | A | | B | | C | | D | | n. of feet | | |
|-----------|-------------|----------------|----------------------------|------|------|------|------|------|------|-----|------|---------------|--|--|
| | | | | mm | inch | mm | inch | mm | inch | mm | inch | | | |
| GSH-1-12 | APM100 | 200.5315.30001 | 20X17 | 8 | .31 | 19.5 | .77 | 14.5 | .57 | 2.4 | .09 | 12 | | |
| GSH-1-14 | APM100 | 200.5315.30002 | 25x22 | | | 24.5 | .96 | | | 22 | .87 | 14 | | |
| GSH-2-14* | APM200 | 200.5315.40001 | 25x22 | 14.2 | .56 | 27.5 | 1.08 | 3.2 | .12 | | | 15 | | |
| GSH-2-15 | APM200 | 200.5315.40002 | 28x25 | | | 34.5 | 1.36 | | | | | 18 | | |
| GSH-2-18 | APM200 | 200.5315.40003 | 35x31 | | | | | | | | | | | |



| Type | Motor group | Order code | Spline profile DIN 5482 | A | | B | | C | | D | | n. of feet |
|------------|-------------|----------------|----------------------------|-----|------|------|------|----|------|----|------|---------------|
| | | | | mm | inch | mm | inch | mm | inch | mm | inch | |
| GSH-1B-12 | APM100 | 200.5314.30001 | 20X17 | 7.6 | .3 | 19.5 | .77 | 12 | .47 | 2 | .08 | 12 |
| GSH-2B-14* | APM200 | 200.5314.40001 | 25x22 | 13 | .5 | 24.5 | .96 | 20 | .79 | 3 | .12 | 14 |
| GSH-2B-15 | APM200 | 200.5314.40002 | 28x25 | | | 27.5 | 1.08 | | | | | 15 |
| GSH-2B-18 | APM200 | 200.5314.40003 | 35x31 | | | 34.5 | 1.36 | | | | | 18 |

6.2 Motors seal kit NBR standard type

| APM05 | | APM200 | |
|------------|-----------------|-------------------|-----------------|
| Motor code | Seal kit | Motor code | Seal kit |
| APM05/810 | | APM200/218 | |
| APM05/819 | | APM200/818 | |
| APM05/310 | | APM200/225 | |
| APM05/319 | | APM200/227 | |
| APM05/830 | 200.9740.0018.0 | APM200/235 | |
| APM05/839 | | APM200/245 | |
| APM05/330 | | APM200/237 | |
| APM05/339 | | APM200/247 | |
| APMR05/810 | 200.9740.0026.0 | APM200/887S | |
| APMR05/819 | | APM200/880 | |
| APMR05/830 | | APM200/887S NPTF | |
| APMR05/839 | | APM200/880 NPTF | |
| | | APM200/287S-B | |
| | | APM200/280B | |
| | | APFM200 | 200.9740.0135.0 |
| | | APM200/2K2 | |
| | | APM200/2T2 | 200.9740.0138.0 |
| | | APM200/2K1 | 200.9740.0136.0 |
| | | APMR200/2T1 | 200.9740.0137.0 |
| | | APMR200/218 | |
| | | APMR200/818 | |
| | | APMR200/225 | |
| | | APMR200/227 | |
| | | APMR200/235 | |
| | | APMR200/245 | |
| | | APMR200/237 | |
| | | APMR200/247 | |
| | | APMR200/887S | 200.9740.0134.0 |
| | | APMR200/880 | |
| | | APMR200/887S NPTF | |
| | | APMR200/880 NPTF | |
| | | APMR200/287S-B | |
| | | APMR200/280B | |

Note: For type of motors without ordering code, contact our Sales Department.

7 Composition of product code

7.1 Motor

| Type | Rotation | Code |
|------------|----------|------|
| APM05/ ** | * | **** |
| APMR05/ ** | | **** |
| APM100/ ** | * | **** |
| APM200/ ** | * | **** |

| Examples | Order code |
|---------------------|--------------|
| APM05/0.75 D 310 | 200100460201 |
| APMR05/0,5 810 | 200100361401 |
| APM100/4,3 S 218 | 200101513601 |
| APM200/26 D 287 S-B | 200102886501 |

7.2 Motor with valve

| Type | Rotation | Code | Valve |
|------------|----------|------|-------|
| APM200/ ** | * | **** | **** |
| APM200/ ** | * | **** | **** |
| APM200/ ** | * | **** | **** |
| APM200/ ** | * | **** | **** |

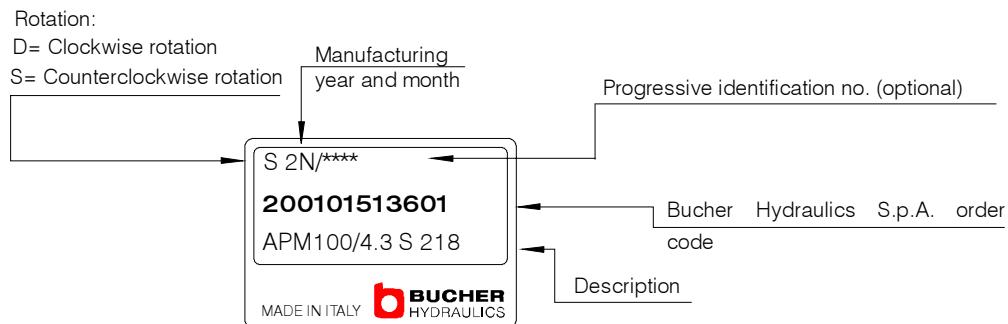
| Examples | Order code |
|------------------------|--------------|
| APM200/15 S 218 15VME | 200102513605 |
| APM200/6,5 S 218 15VMI | 200102213606 |
| APM200/8,5 D 218 12VRI | 200102313504 |
| APM200/6,5 D 235 + C | 200102232501 |

7.3 Motor with bearing support

| Type | Rotation | Code | Support |
|------------|----------|------|---------|
| APM200/ ** | * | **** | **** |
| APM200/ ** | * | **** | **** |

| Examples | Order code |
|-----------------------|--------------|
| APM200/22 D 225 2K2+C | 200102722508 |

7.4 Product identification plate



7.5 Motor weight

| Motor | Weight Kg | Motor | Weight Kg | Motor | Weight Kg |
|-------------------|-----------|-------------------|-----------|-------------------|-----------|
| APM05/0.5 | 0.45 | APM100/2.5 | 1.03 | APM200/8.5 | 1.95 |
| APM05/0.75 | 0.45 | APM100/3.5 | 1.07 | APM200/11 | 2.33 |
| APM05/0.9 | 0.48 | APM100/4.3 | 1.12 | APM200/15 | 2.34 |
| APM05/1.2 | 0.50 | APM100/5 | 1.18 | APM200/19 | 2.65 |
| APM05/1.6 | 0.50 | APM100/6.5 | 1.23 | APM200/22 | 2.78 |
| APM05/2.3 | 0.55 | APM100/8 | 1.28 | APM200/26 | 2.82 |
| | | APM100/10 | 1.35 | | |

N.B.: The weight refers to motors with version code 810 (APM05) – 218 (APM100 – APM200). Limited weight variations are possible for motors having a different code.

| Manufacturing month | Manufacturing year | | | | | | | |
|---------------------|--------------------|------|------|------|------|------|------|------|
| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| January | 0M | 1M | 2M | 3M | 4M | 5M | 6M | 7M |
| February | 0N | 1N | 2N | 3N | 4N | 5N | 6N | 7N |
| March | 0P | 1P | 2P | 3P | 4P | 5P | 6P | 7P |
| April | 0Q | 1Q | 2Q | 3Q | 4Q | 5Q | 6Q | 7Q |
| May | 0R | 1R | 2R | 3R | 4R | 5R | 6R | 7R |
| June | 0S | 1S | 2S | 3S | 4S | 5S | 6S | 7S |
| July | 0T | 1T | 2T | 3T | 4T | 5T | 6T | 7T |
| August | 0U | 1U | 2U | 3U | 4U | 5U | 6U | 7U |
| September | 0V | 1V | 2V | 3V | 4V | 5V | 6V | 7V |
| October | 0Z | 1Z | 2Z | 3Z | 4Z | 5Z | 6Z | 7Z |
| November | 0X | 1X | 2X | 3X | 4X | 5X | 6X | 7X |
| December | 0Y | 1Y | 2Y | 3Y | 4Y | 5Y | 6Y | 7Y |

BUCHER HYDRAULICS
Germany

Phone +49 7742 85 20
 Fax +49 7742 71 16
 info.de@bucherhydraulics.com

Switzerland

Phone +41 33 67 26 11 1
 Fax +41 33 67 26 10 3
 info.ch@bucherhydraulics.com

France

Phone +33 389 64 22 44
 Fax +33 389 65 28 78
 info.fr@bucherhydraulics.com

Italy

Phone +39 0522 92 84 11
 Fax +39 0522 51 32 11
 info.it@bucherhydraulics.com

Netherlands

Phone +31 79 34 26 24 4
 Fax +31 79 34 26 28 8
 info.nl@bucherhydraulics.com

Austria

Phone +43 6216 44 97
 Fax +43 6216 44 97 4
 info.at@bucherhydraulics.com

UK

Phone +44 24 76 35 35 61
 Fax +44 24 76 35 35 72
 info.uk@bucherhydraulics.com

China

Phone +86 512 6 322 12 99
 Fax +86 512 6 322 10 33
 info.sh@bucherhydraulics.com

www.bucherhydraulics.com
USA

Phone +1 262 605 82 80
 Fax +1 262 605 82 78
 info.wi@bucherhydraulics.com

Product Center (Elevator)

Phone +41 41 757 03 33
 Fax +41 41 755 16 49
 info.nh@bucherhydraulics.com

We reserve the right of modification without prior notice.