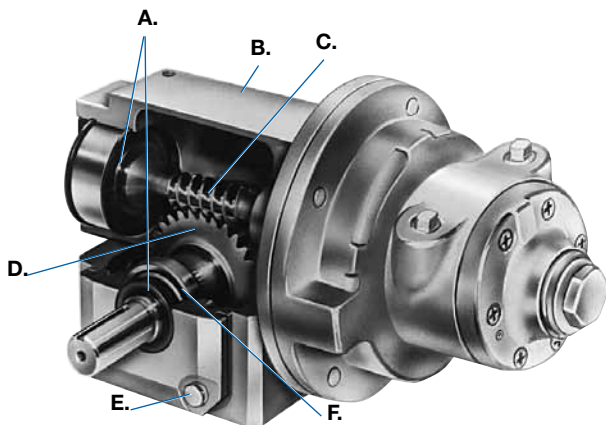




Pictured: typical right angle, worm gear reducer.

### A. Bearings

Ball bearings used on input shaft; tapered roller bearings used on output shaft.

### B. Case

Fine close-grain cast iron; crankcase sealed; duplex-milled for parallelism of mounting surfaces.

### C. Worm

8620 alloy steel thread rolled to give uninterrupted grain pattern; carburized and hardened after rolling; high-burnish contact surface from rolling reduces friction coefficient for less heat generation, lower power losses. In large sizes, worms are cut, hardened, and ground to a good micro-finish, providing the ultimate in efficiency and torque capacity.

### D. Worm Gear

Forged bronze; geometry and high helix angle give maximum beam strength, high efficiency.

### E. Cap Screw

High-strength fasteners with corresponding torque specifications prevent loosening or breaking.

### F. Seals

Double-dipped and spring-loaded for leak proofing; tested to ensure compatibility with lubricant.

## Get the right gear motor with all the right options

### More reasons why you should switch from electricity to air.

If you compare Gast Air-Powered Gear Motors with any electric-powered gear motor, there's really no comparison. Here's why:

#### • More Horsepower

Size for size, weight for weight, you can't beat a Gast Gear Motor. A typical rotary vane air motor – the type used in gear motors – developing  $2\frac{1}{2}$  HP (1,9 kW) at 1800 rpm and 90 psi (6,2 bar), weighs just 17 pounds (7,7 kg). A comparable electric motor may be two or three times heavier.

#### • More Speed Control

You can't get more precise turning power than with a Gast Gear Motor. In applications where you need variable speed – like bolt tensioning equipment or rock drilling rigs – one-speed electric motors just won't fit the bill. Precise lifting, lowering, or turning is simple with Gast Gear Motors.

#### • More Flexibility

More than most standard electric-powered gear reducers can provide. Gast Gear Motors give you infinitely variable turning power from 73 to 5200 lb. in. (8 to 587 Nm) of torque. And Gast Gear Motors are instantly reversible through easy valving in the air line.

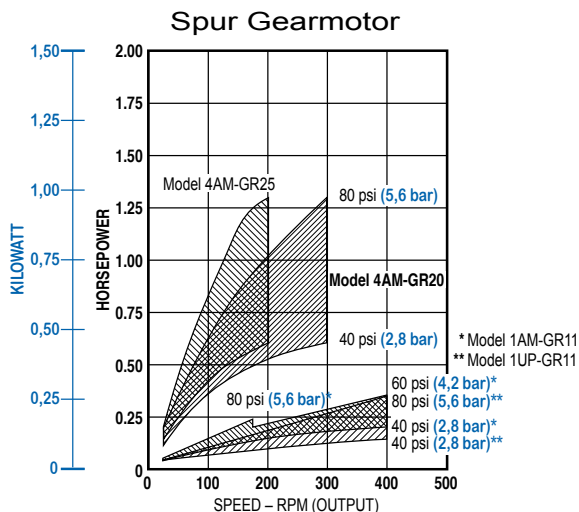
#### • More Configurations

That makes it easier for our product to work in your product. Our Gear Motors are available in four mounting configurations.

#### • More Life

Unlike electric-powered gear motors, there's no chance of burnout with a Gast Gear Motor. They can be stalled indefinitely with no heat buildup. They're non-electrical sparking too, which makes them ideal for use in potentially explosive environments – places where you couldn't even consider electricity.

**⚠ WARNING:** Gast Air Powered Gear Motors are not self-locking. In applications where a break is required for safety in case of air pressure failure, call 800-952-4278 for your nearest distributor.



### Model

#### 1AM-NRV-56-GR11

(4 Vanes, Reversible)

#### 1AM-NRV-60-GR11

(8 Vanes, Reversible)

Net wt. 5 lbs (2,3 kg)

### FEATURES

- 15:1 gear reducer
- Face mounting
- Horizontal or shaft down operation
- Muffler AF350 (shown in photo)
-  II 2 GD c T4

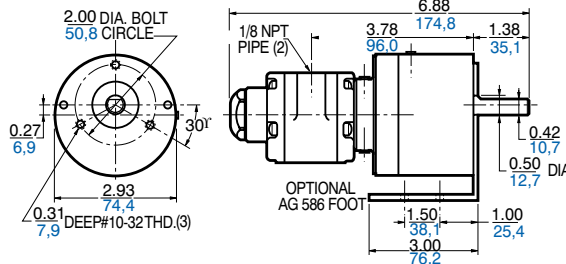
### RECOMMENDED

- Filter AH100F
- Regulator AH101R
- Gauge AA806
- Lubricator AH102L
- Oil AD220 – 1 quart (.94 litres)
- Repair kit K278 (Air motor only, 8 Vane)
- Repair kit K201 (Air motor only, 4 Vane)

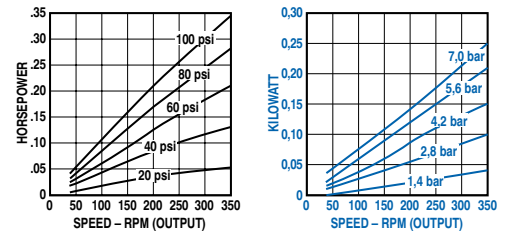


Max. allowable end thrust with 0 overhung load is 100 lbs (45,0 kg). Max. overhung load with 0 end thrust from 100 lbs (45,0 kg) at 333 rpm to 200 lbs (90,0 kg) at 33,3 rpm.

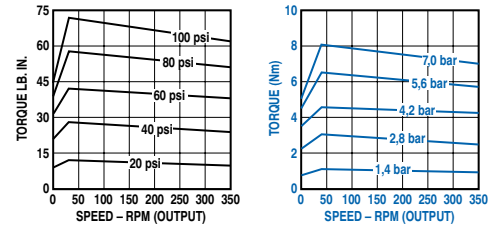
Product Dimensions (inches, mm)



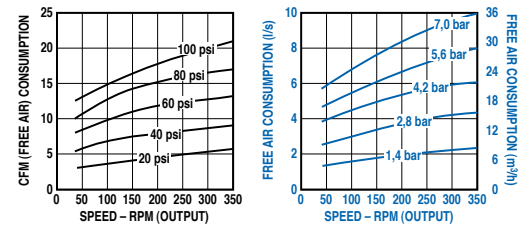
Output Power vs. Speed



Torque vs. Speed



Air Consumption vs. Speed



### MODEL

#### 1UP-NRV-4-GR11

(4 Vanes, Reversible)

#### 1UP-NRV-11-GR11

(8 Vanes, Reversible)

Net wt. 5 lbs (2,3 kg)

### FEATURES

- 15:1 gear reducer
- Face mounting
- Horizontal or shaft down operation
- Muffler AF350 (shown in photo)
-  II 2 GD c T4

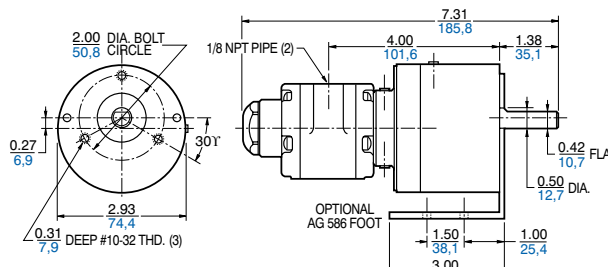
### RECOMMENDED

- Filter AH100F
- Regulator AH101R
- Gauge AA806
- Lubricator AH102L
- Oil AD220 – 1 quart (.94 litres)
- Repair kit K298 (Air motor only, 8 Vane)
- Repair kit K286 (Air motor only, 4 Vane)

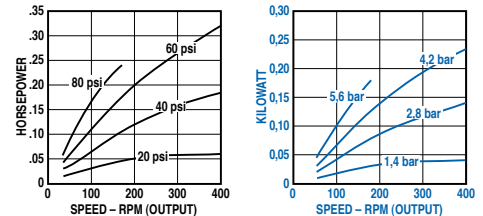


Max. allowable end thrust with 0 overhung load is 100 lbs (45,0 kg). Max. overhung load with 0 end thrust ranges from 100 lbs (45,0 kg) at 333 rpm to 200 lbs (90,0 kg) at 33,3 rpm. Max. recommended pressures to 80 psi (5,6 bar).

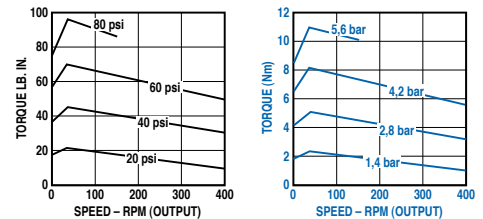
Product Dimensions (inches, mm)



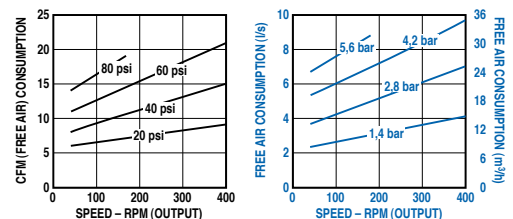
Output Power vs. Speed



Torque vs. Speed



Air Consumption vs. Speed



### Model

#### 2AM-43A-AF20

(4 Vanes, Reversible)

Net wt. 24 lbs (10,9 kg)

### FEATURES

- 20:1 gear reducer
- Flange mounting
- Base-mounted
- Metal muffler AC980 provided not shown  
AC980 adds 2" height when installed

### RECOMMENDED

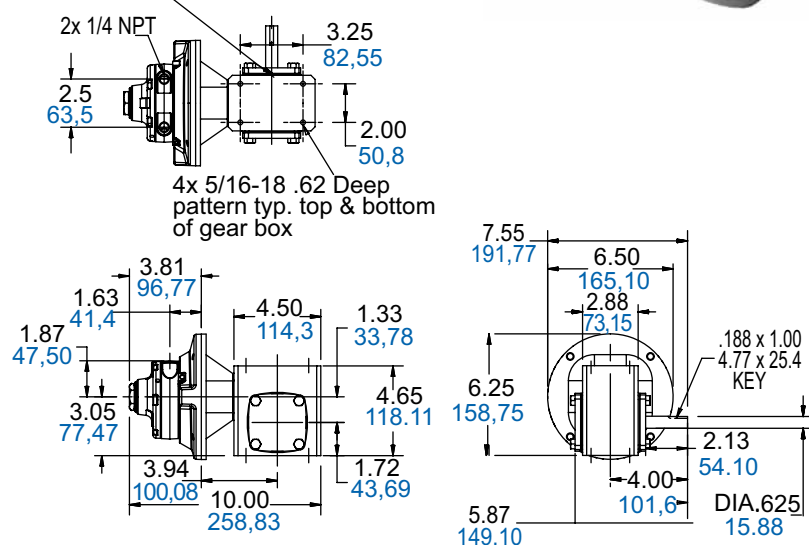
- Filter AH103F
- Regulator AH104R
- Gauge AA806
- Lubricator AH105L
- Oil AD220 – 1 quart (.94 litres)
- Repair kit K509

Max. allowable overhung load on the output shaft is 240 lbs  
Max allowable thrust load on the output shaft is 300 lbs

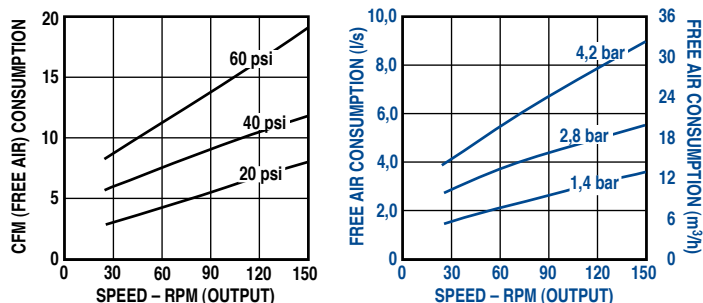


Product Dimensions (inches, mm)

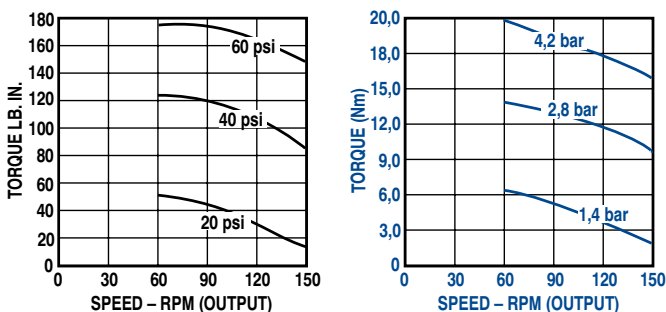
Counter-clockwise output shaft rotation



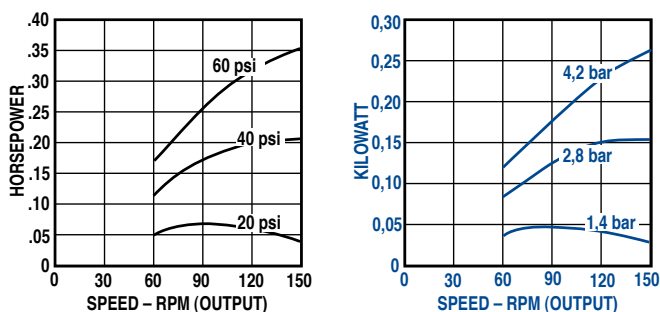
### Air Consumption vs. Speed



### Torque vs. Speed



### Output Power vs. Speed



#### Model

Max. allowable overhung load on the output shaft is 600 lbs  
Max. allowable thrust load on the output shaft is of 500 lbs

#### 2AM-43A-BF20

(4 Vanes, Reversible)

Net wt. 33.55 lbs (15,2 kg)

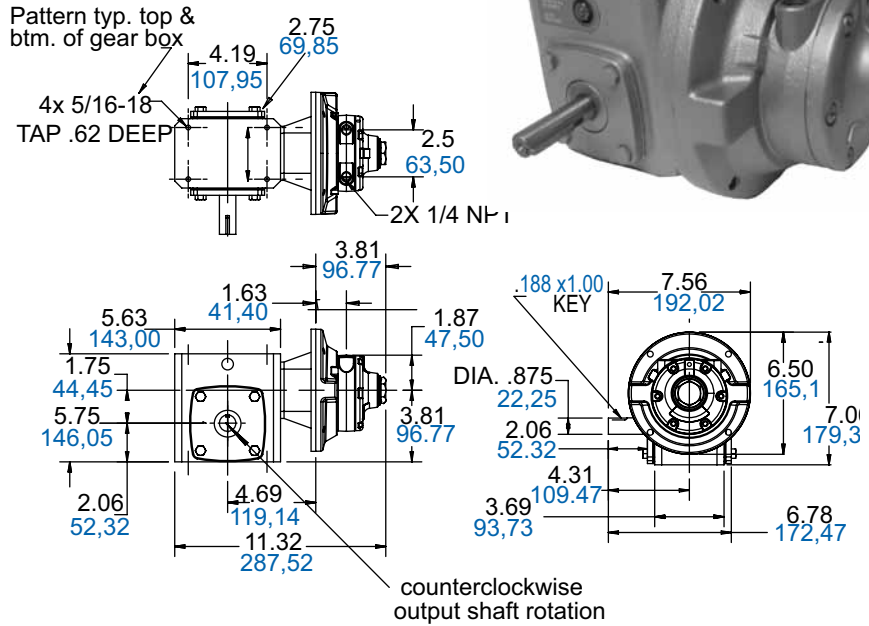
#### FEATURES

- 20:1 gear reducer
- FLANK mounting
- Mount on any plane operation
- Metal muffler AC980 provided not shown  
AC980 adds 2" height when installed

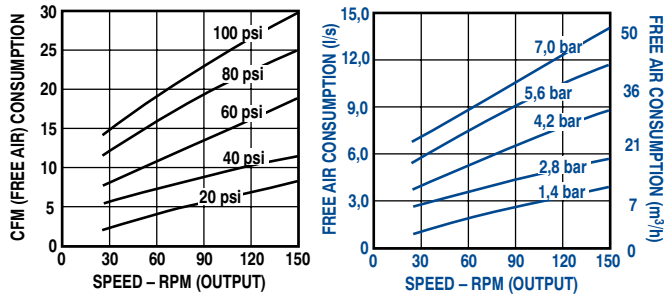
#### RECOMMENDED

- Filter AH103F
- Regulator AH104R
- Gauge AA806
- Lubricator AH105L
- Oil AD220 – 1 quart (.94 litres)
- Repair kit K509

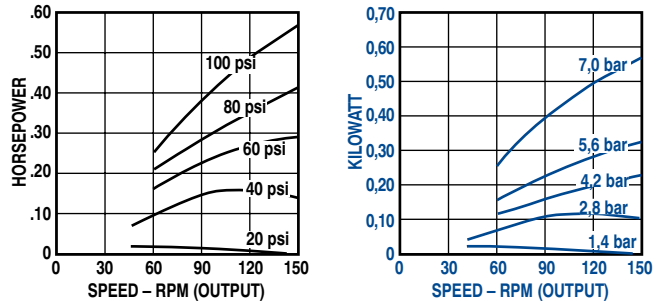
#### Product Dimensions (inches, mm)



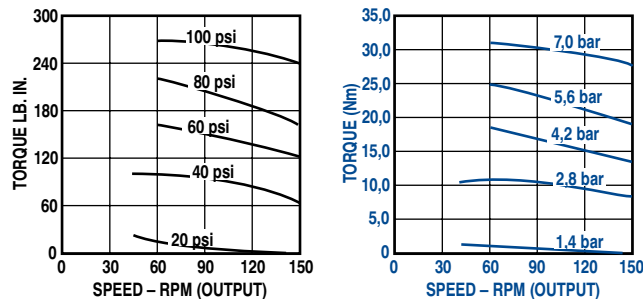
#### Air Consumption vs. Speed



#### Output Power vs. Speed



#### Torque vs. Speed



### Model

#### 4AM-RV-75-GR20

(4 Vanes, Reversible)

Net wt. 28 lbs (12,6 kg)

#### FEATURES

- 10:1 gear reducer
- Face and foot mounting
- Horizontal or shaft down operation
- Metal muffler AC980 adds 2" height when installed
-  II 2 GD c T4

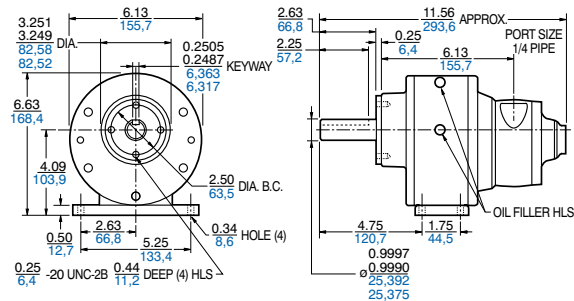
#### RECOMMENDED

- Filter AH103F
- Regulator AH104R
- Gauge AA806
- Lubricator AH105L
- Oil AD220 – 1 quart (.94 litres)
- Repair kit K205 (Air motor only)

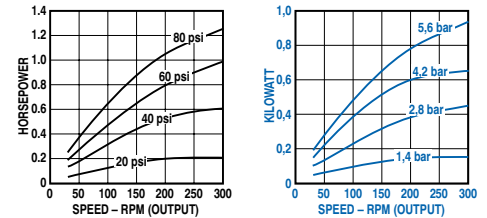
Max. allowable end thrust with 0 overhung load ranges from 200 lbs (90,0 kg) at 300 rpm to 800 lbs (360,0 kg) at 30 rpm. Max. overhung load with 0 end thrust ranges from 200 lbs (90,0 kg) at 300 rpm to 600 lbs (270,0 kg) at 30 rpm. Max. recommended pressures to 80 psi (5,6 bar).



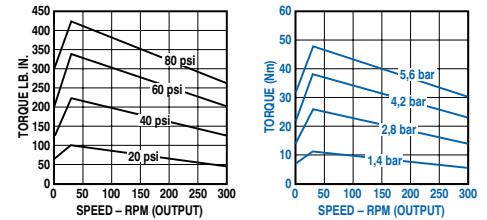
Product Dimensions (inches, mm)



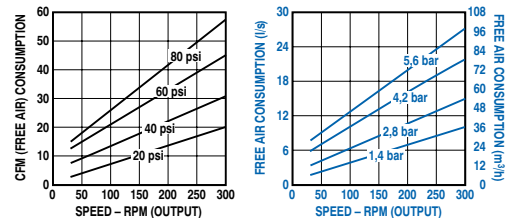
#### Output Power vs. Speed



#### Torque vs. Speed



#### Air Consumption vs. Speed



### MODEL

#### 4AM-RV-75-GR25

(4 Vanes, Reversible)

Net wt. 28 lbs (12,6 kg)

#### FEATURES

- 15:1 gear reducer
- Face, foot mounting
- Horizontal or shaft down operation
- Metal muffler AC980 adds 2" height when installed
-  II 2 GD c T4

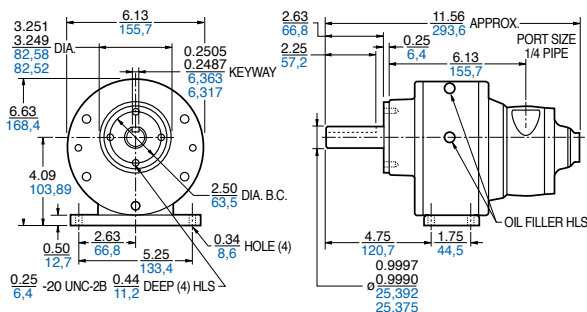
#### RECOMMENDED

- Filter AH103F
- Regulator AH104R
- Gauge AA806
- Lubricator AH105L
- Oil AD220 – 1 quart (.94 litres)
- Repair kit K205 (Air motor only)

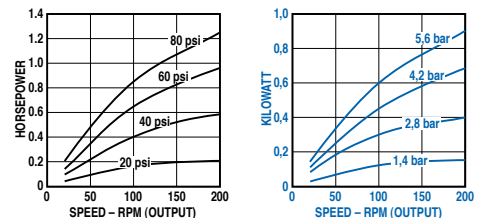
Max. allowable end thrust with 0 overhung load ranges from 250 lbs (112,5 kg) at 200 rpm to 800 lbs (360,0 kg) at 20 rpm. Max. overhung load with 0 end thrust ranges from 200 lbs (90,0 kg) at 200 rpm to 600 lbs (270,0 kg) at 20 rpm. Max. recommended pressures to 80 psi (5,6 bar).



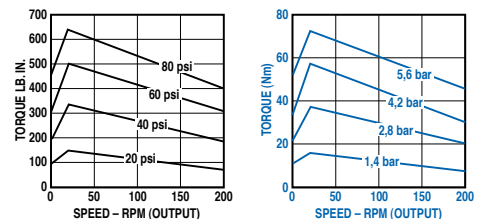
Product Dimensions (inches, mm)



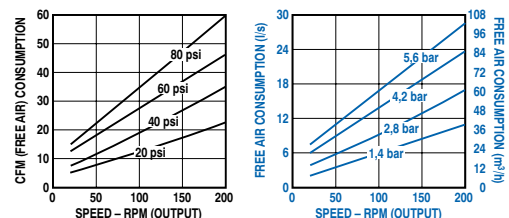
#### Output Power vs. Speed



#### Torque vs. Speed



#### Air Consumption vs. Speed



### Model

#### 4AM-70C-CB20

(8 Vanes, Reversible)

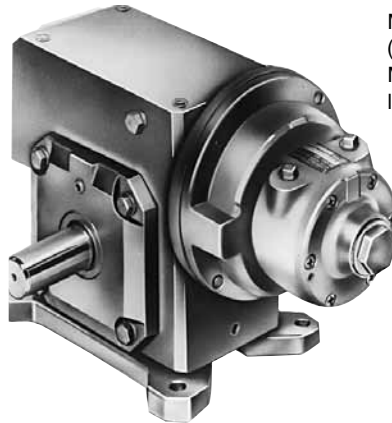
**Net wt.** for standard configuration  
60 lbs (27,0 kg)

### FEATURES

- 20:1 gear reducer
- Base mounting
- Optional mountings and shaft locations available
- Metal muffler AC980 adds 2" height when installed

### RECOMMENDED

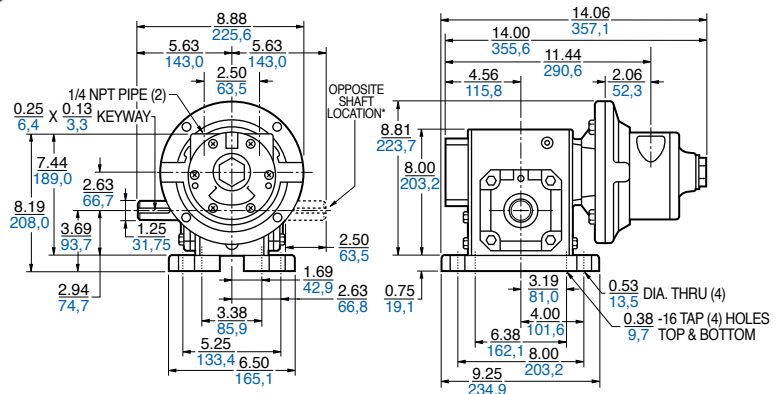
- Filter AH103F
- Regulator AH104R
- Gauge AA806
- Lubricator AH105L
- Oil AD220 – 1 quart (.94 litres)
- Repair kit K280A (Air motor only)



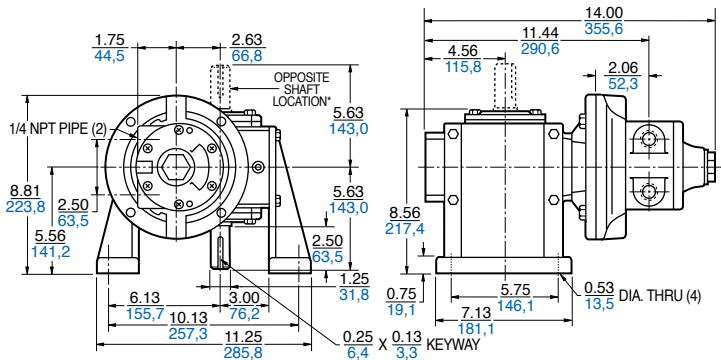
Max. allowable end thrust with 0 overhung load is 2259 lbs (1016,6 kg) at 30 rpm to 1335 lbs (600,8 kg) at 150 rpm.  
Max. overhung load on output shaft with 0 end thrust 1601 lbs (720,4 kg).

Product Dimensions (inches, mm)

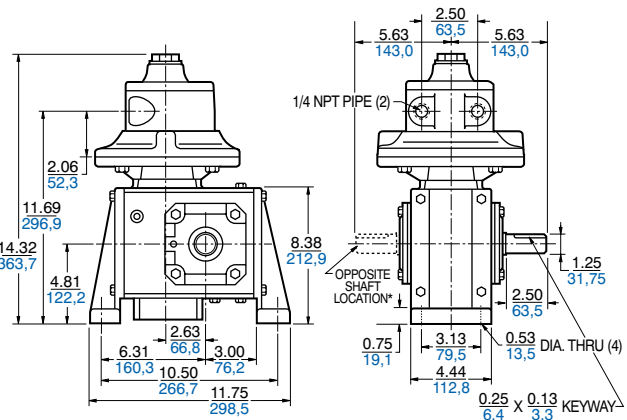
#### "B" Mounting (photo) 4AM-70C-CB20/4AM-70C-CF20 (standard shaft) (opposite shaft)



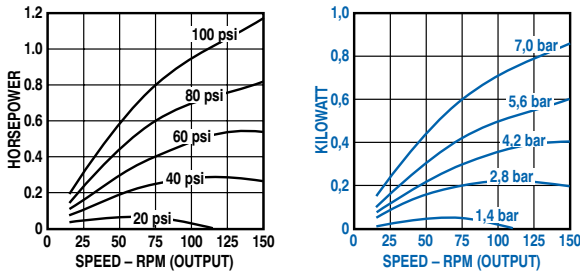
#### "C" Mounting 4AM-70C-CC20/4AM-70C-CG20 (standard shaft) (opposite shaft)



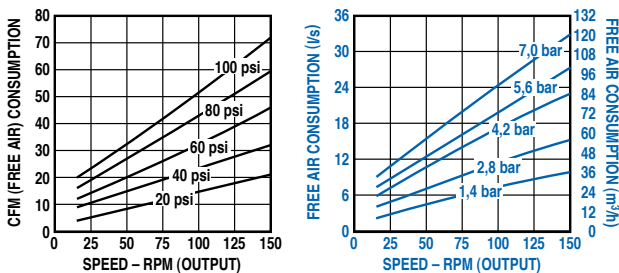
#### "D" Mounting 4AM-70C-CD20/4AM-70C-CH20 (standard shaft) (opposite shaft)



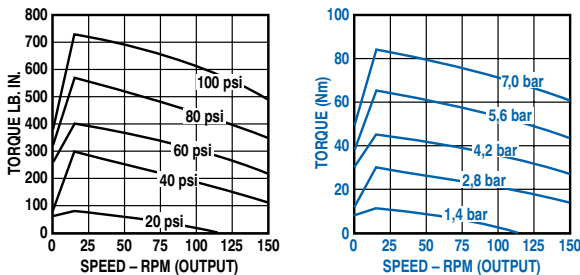
### Output Power vs. Speed



### Air Consumption vs. Speed



### Torque vs. Speed



### Model

#### 4AM-70C-CB60

(8 Vanes, Reversible)

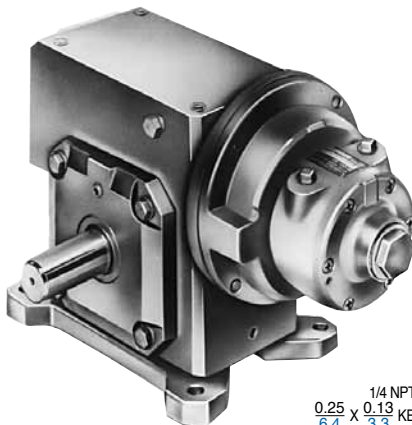
**Net wt.** for standard configuration  
60 lbs (27,0 kg)

#### FEATURES

- 60:1 gear reducer
- Base mounting
- Optional mountings and shaft locations available
- Metal muffler AC980 adds 2" height when installed

#### RECOMMENDED

- Filter AH103F
- Regulator AH104R
- Gauge AA806
- Lubricator AH105L
- Oil AD220 – 1 quart (.94 litres)
- Repair kit K280A (Air motor only)

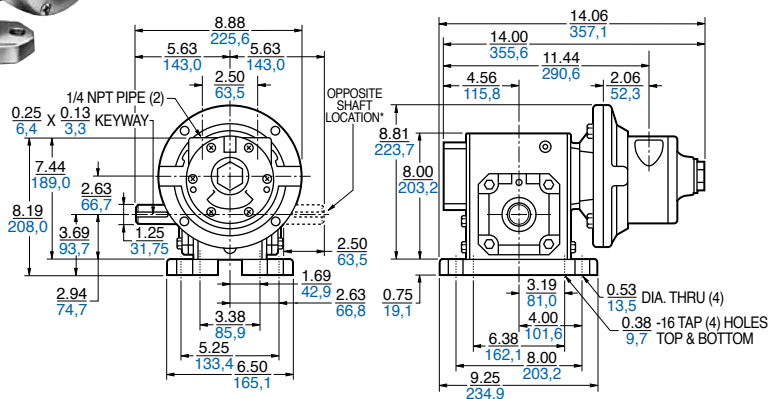


Max. allowable end thrust with 0 overhung load is 3545 lbs (1595,3 kg) at 10 rpm to 2134 lbs (960,3 kg) at 50 rpm. Max. overhung load on output shaft with 0 end thrust 1601 lbs (720,5 kg).

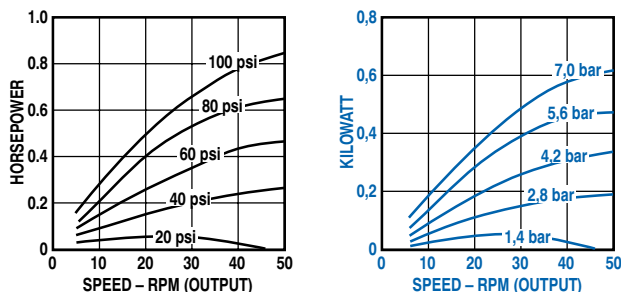
Product Dimensions (inches, mm)

#### "B" Mounting (photo)

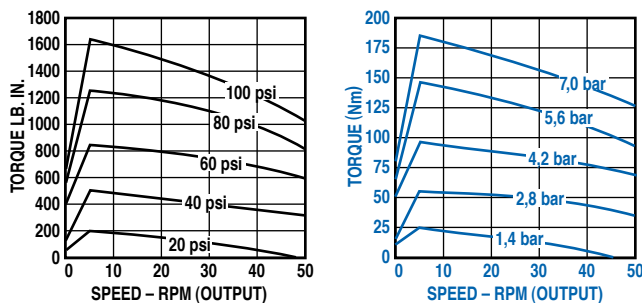
4AM-70C-CB60/4AM-70C-CF60  
(standard shaft) (opposite shaft)



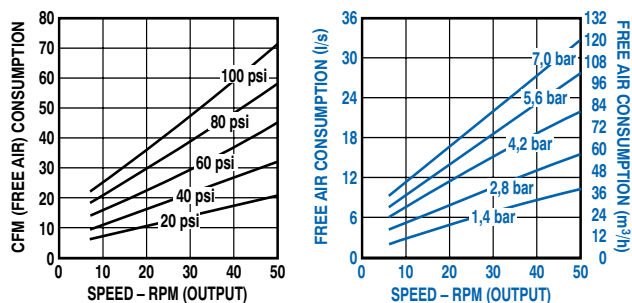
#### Output Power vs. Speed



#### Torque vs. Speed

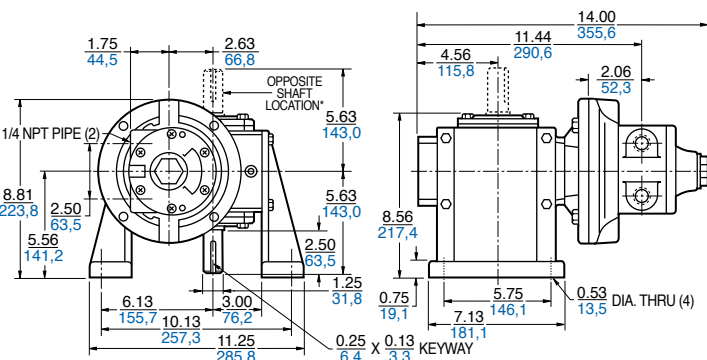


#### Air Consumption vs. Speed



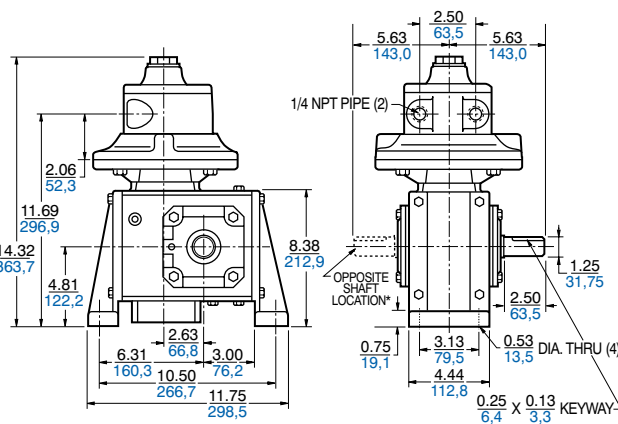
#### "C" Mounting

4AM-70C-CC60/4AM-70C-CG60  
(standard shaft) (opposite shaft)



#### "D" Mounting

4AM-70C-CD60/4AM-70C-CH60  
(standard shaft) (opposite shaft)



### Model

#### 6AM-22A-CB10

(8 Vanes, Reversible)

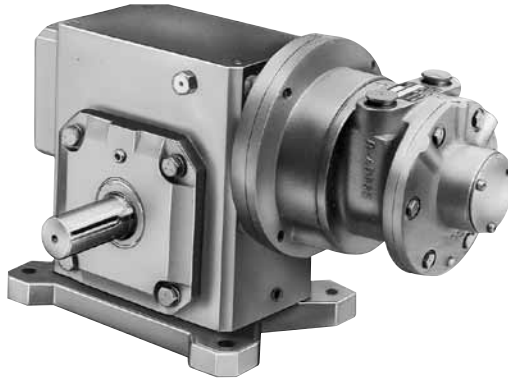
**Net wt.** for standard configuration  
56 lbs (25,2 kg)

#### FEATURES

- 10:1 gear reducer
- Base mounting
- Optional mountings and shaft locations available
- Muffler AC990 (not shown)

#### RECOMMENDED

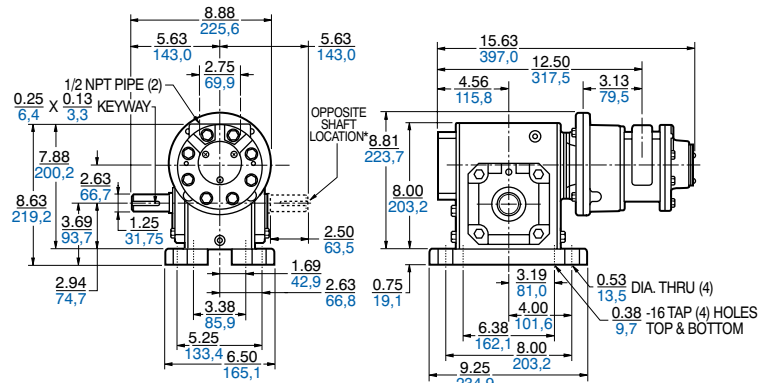
- Filter AH106F
- Regulator AH107R
- Gauge AA806
- Lubricator AH108L
- Oil AD220 – 1 quart (.94 litres)
- Repair kit K281 (Air motor only)



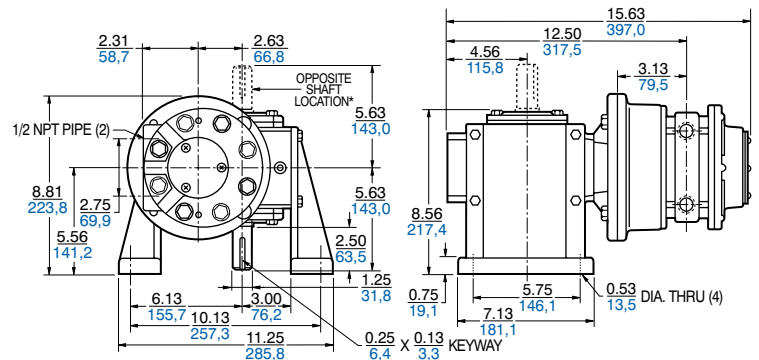
Max. allowable end thrust with 0 overhung load is 1640 lbs (738,0 kg) at 60 rpm to 923 lbs (415,4 kg) at 300 rpm. Max. overhung load on output shaft with 0 end thrust 1601 lbs (720,5 kg).

Product Dimensions (inches, mm)

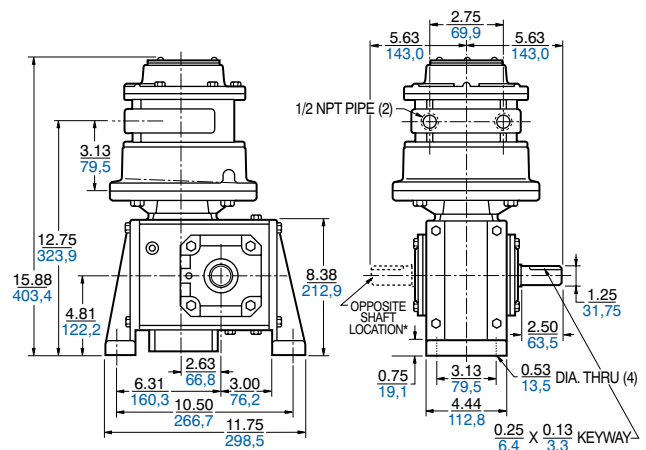
#### “B” Mounting (photo) 6AM-22A-CB10 / 6AM-22A-CF10 (standard shaft) (opposite shaft)



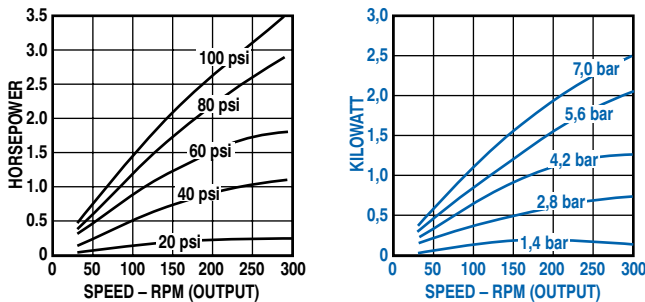
#### “C” Mounting 6AM-22A-CC10/6AM-22A-CG10 (standard shaft) (opposite shaft)



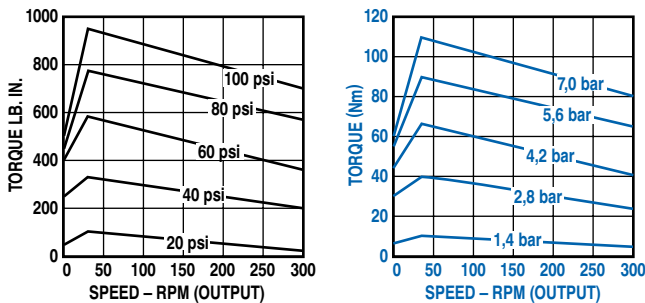
#### “D” Mounting 6AM-22A-CD10 / \*6AM-22A-CH10 (standard shaft) (opposite shaft)



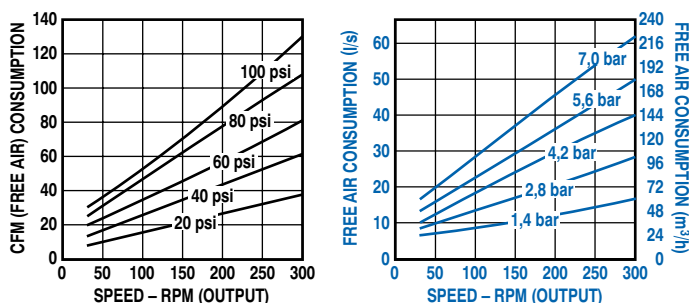
#### Output Power vs. Speed



#### Torque vs. Speed



#### Air Consumption vs. Speed



### Model

#### 6AM-22A-DB20

(8 Vanes, Reversible)

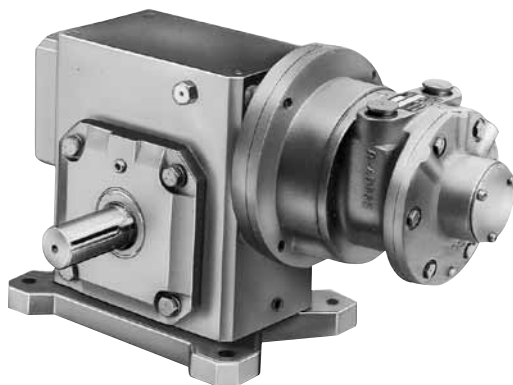
**Net wt.** for standard configuration  
 100 lbs (45,0 kg)

#### FEATURES

- 20:1 gear reducer
- Base mounting
- Optional mountings and shaft locations available
- Muffler AC990 (not shown)

#### RECOMMENDED

- Filter AH106F
- Regulator AH107R
- Gauge AA806
- Lubricator AH108L
- Oil AD220 – 1 quart (.94 litres)
- Repair kit K281 (Air motor only)

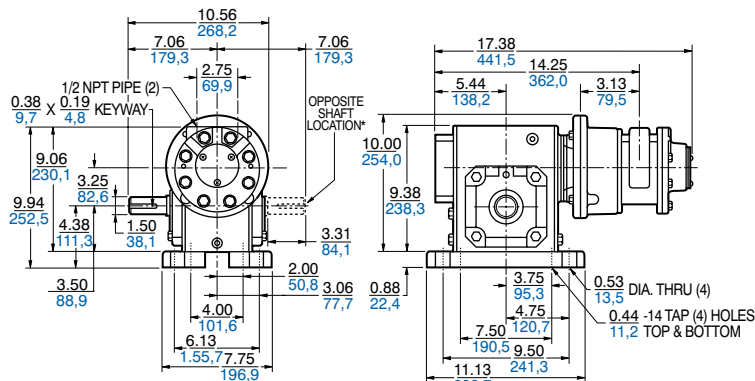


Max. allowable end thrust with 0 overhung load is 3552 lbs (1598,4 kg) at 30 rpm to 2154 lbs (969,3 kg) at 150 rpm.  
 Max. overhung load on output shaft with 0 end thrust 2857 lbs (1285,7 kg).

Product Dimensions (inches, mm)

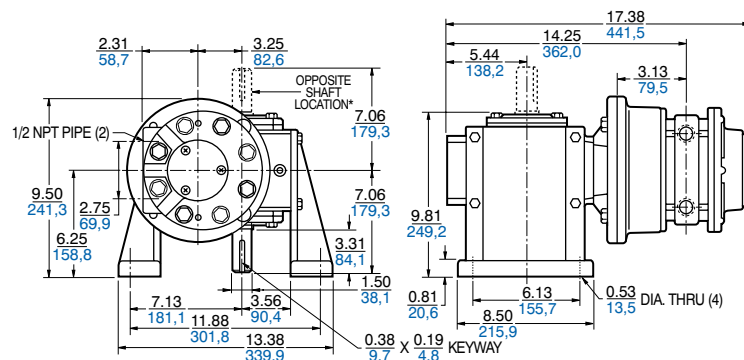
#### “B” Mounting (photo)

6AM-22A-DB20/6AM-22A-DF20  
 (standard shaft) (opposite shaft)



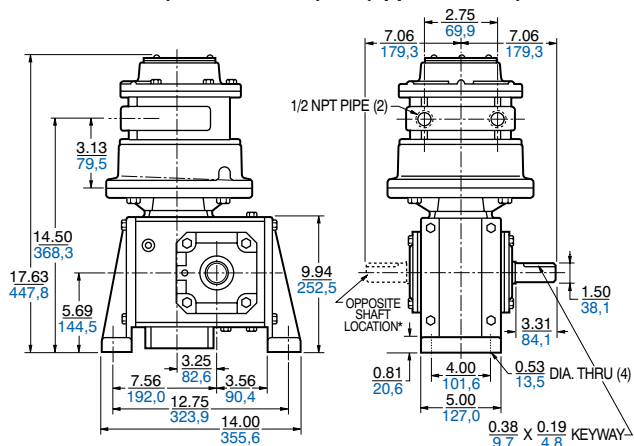
#### “C” Mounting

6AM-22A-DC20/6AM-22A-DG20  
 (standard shaft) (opposite shaft)

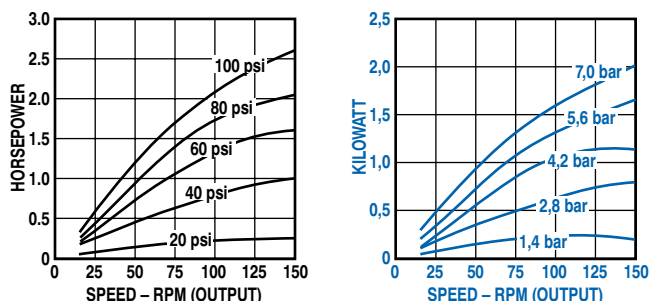


#### “D” Mounting

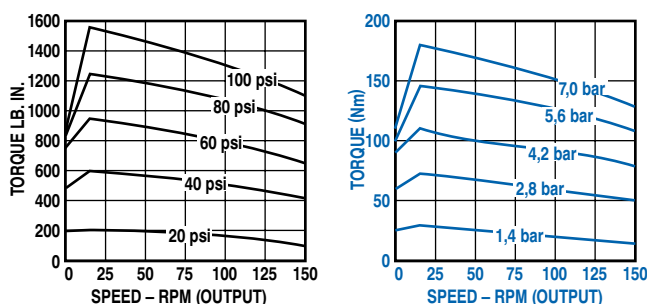
6AM-22A-DD20/6AM-22A-DH20  
 (standard shaft) (opposite shaft)



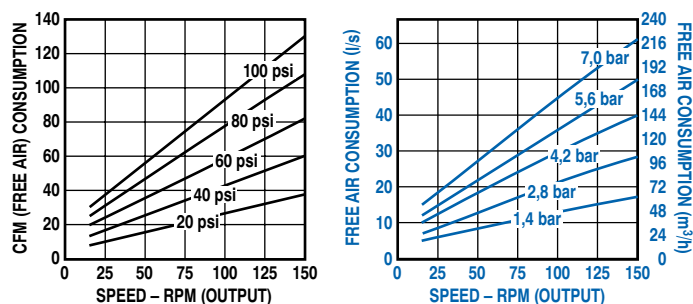
#### Output Power vs. Speed



#### Torque vs. Speed



#### Air Consumption vs. Speed



### Model

#### 6AM-22A-GB40

(8 Vanes, Reversible)

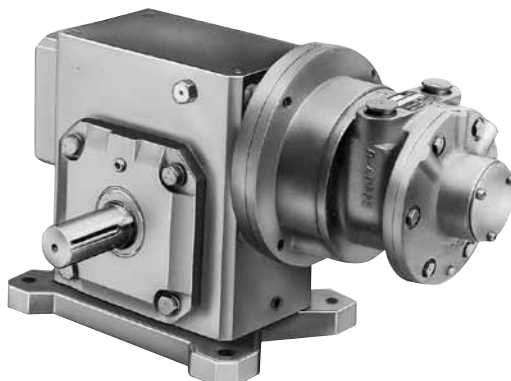
**Net wt.** for standard configuration  
104 lbs (46,8 kg)

### FEATURES

- 40:1 gear reducer
- Base mounting
- Optional mountings and shaft locations available
- Muffler AC990 (not shown)

### RECOMMENDED

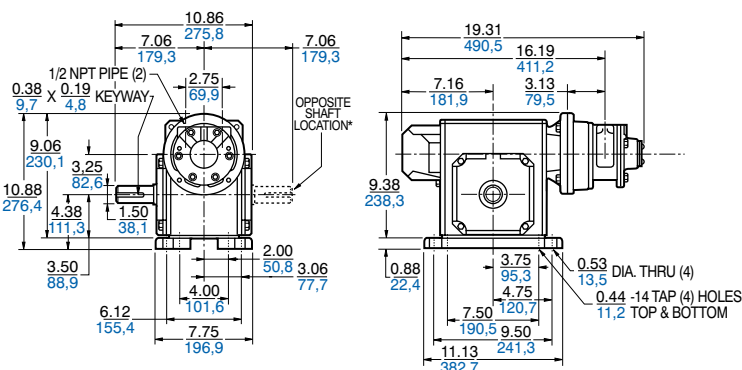
- Filter AH106F
- Regulator AH107R
- Gauge AA806
- Lubricator AH108L
- Oil AD220 – 1 quart (.94 litres)
- Repair kit K281 (Air motor only)



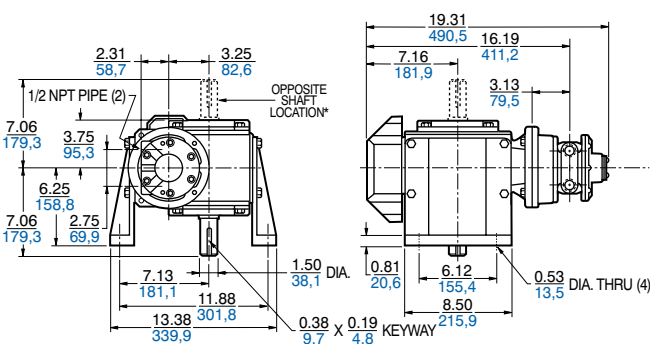
Max. allowable end thrust with 0 overhung load is 3552 lbs (1598,4 kg) at 30 rpm to 2154 lbs (969,3 kg) at 75 rpm. Max. overhung load on output shaft with 0 end thrust 2857 lbs (1285,7 kg).

Product Dimensions (inches, mm)

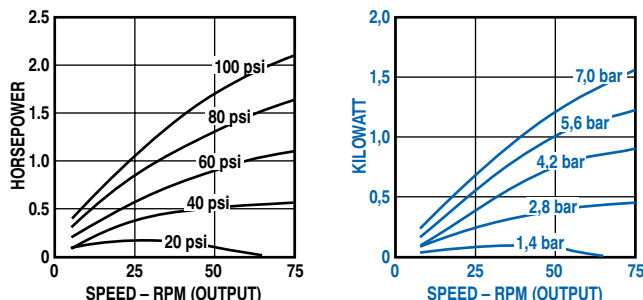
**"B" Mounting (photo)**  
6AM-22A-GB40/6AM-22A-GF40  
(standard shaft) (opposite shaft)



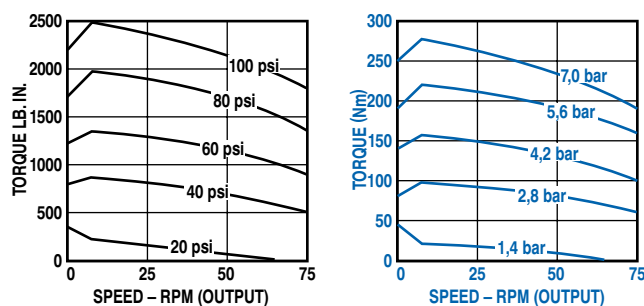
**"C" Mounting**  
6AM-22A-GC40/6AM-22A-GG40  
(standard shaft) (opposite shaft)



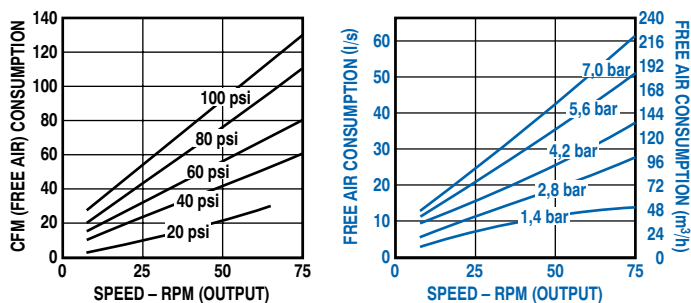
**Output Power vs. Speed**



**Torque vs. Speed**



**Air Consumption vs. Speed**



### Model

#### 8AM-32A-FB20

(8 Vanes, Reversible)

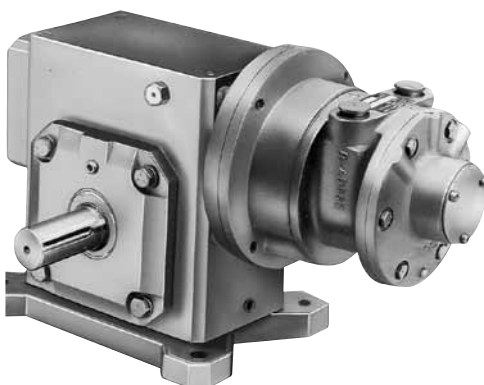
**Net wt.** for standard configuration  
 111 lbs (50,0 kg)

### FEATURES

- 20:1 gear reducer
- Base mounting
- Optional mountings and shaft locations available
- Muffler AC990 (not shown)

### RECOMMENDED

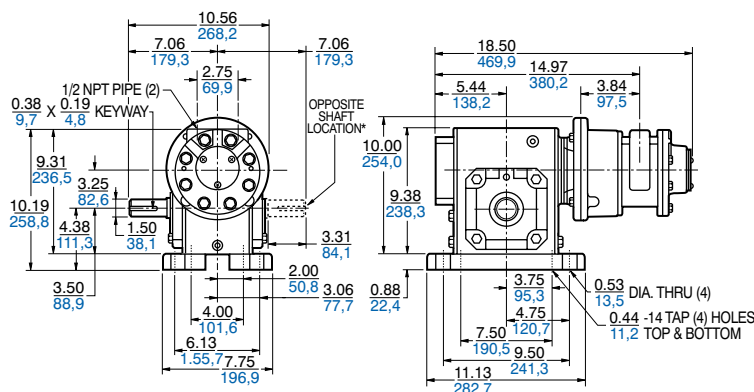
- Filter AH106F
- Regulator AH107R
- Gauge AA806
- Lubricator AH108L
- Muffler AG600 (above 1,000 rpm)
- Oil AD220 – 1 quart (.94 litres)
- Repair kit K282 (Air motor only)



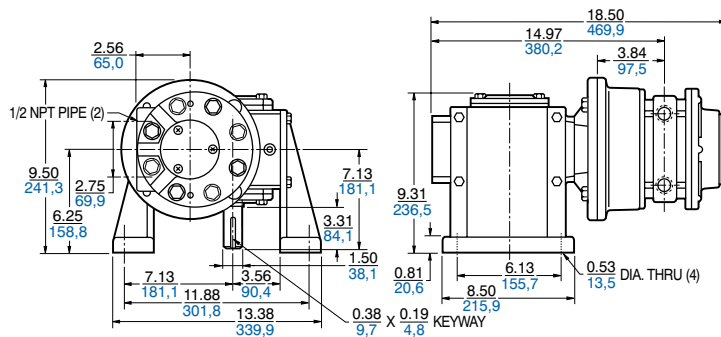
Max. allowable end thrust with 0 overhung load is 3552 lbs (1598,4 kg) at 30 rpm to 2154 lbs (969,3 kg) at 125 rpm. Max. overhung load on output shaft with 0 end thrust 2857 lbs (1285,7 kg).

Product Dimensions (inches, mm)

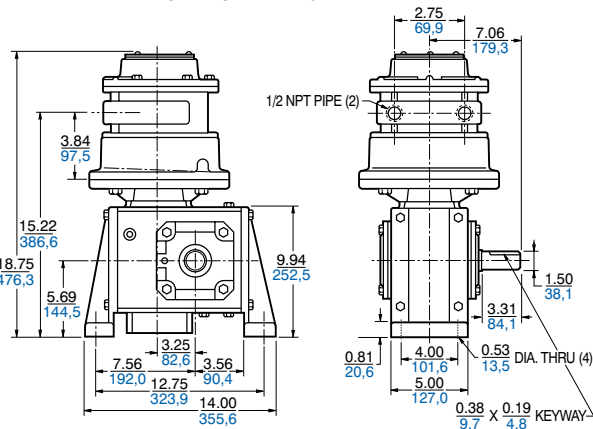
**“B” Mounting (photo)**  
**8AM-32A-FB20/8AM-32A-FF20**  
 (standard shaft) (opposite shaft)



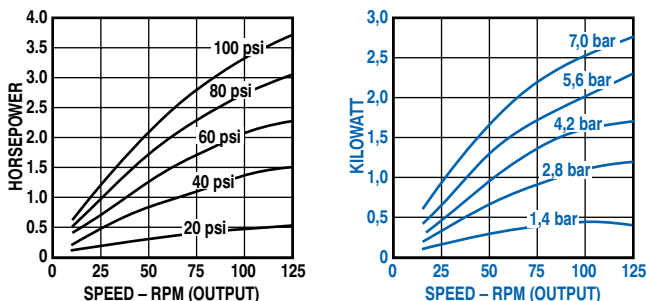
**“C” Mounting**  
**8AM-32A-FC20**



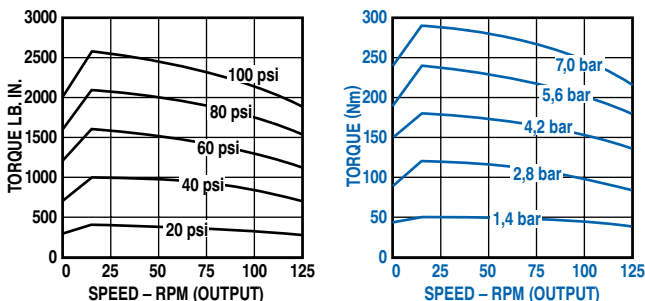
**“D” Mounting**  
**8AM-32A-FD20**



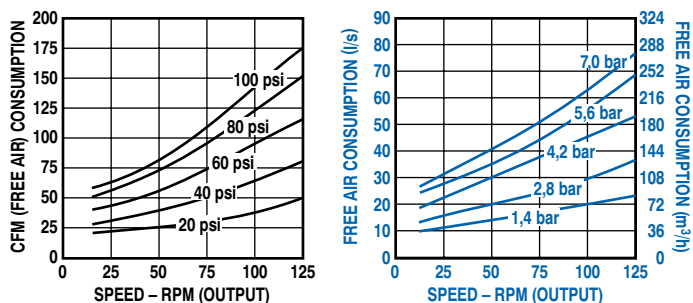
**Output Power vs. Speed**



**Torque vs. Speed**



**Air Consumption vs. Speed**



### Model

#### 16AM-13-HB20

(6 Vanes, Reversible)

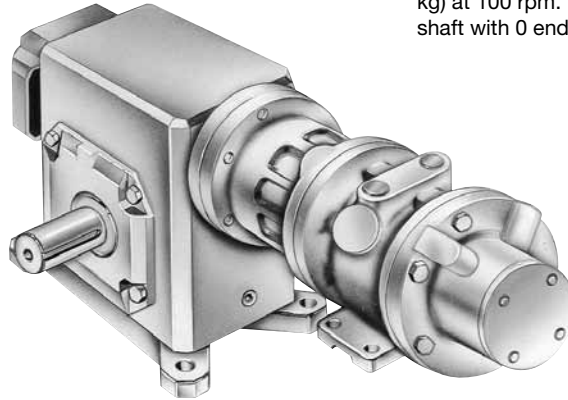
**Net wt.** for standard configuration  
163 lbs (73,4 kg)

### FEATURES

- 20:1 gear reducer
- Base mounting
- Optional mountings and shaft locations available

### RECOMMENDED

- Filter AH109F
- Regulator AH110R
- Gauge AA806
- Lubricator AH111L
- Muffler AG601
- Oil AD220 – 1 quart (.94 litres)
- Repair kit K213 (Air motor only)

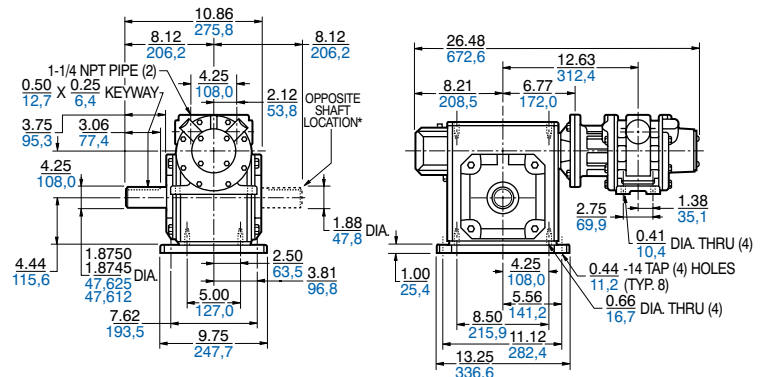
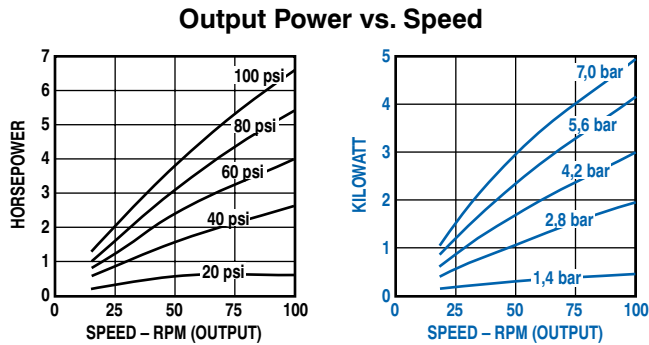


Max. allowable end thrust with 0 overhung load is 3552 lbs (1598,4 kg) at 30 rpm to 2154 lbs (969,3 kg) at 100 rpm. Max. overhung load on output shaft with 0 end thrust 2857 lbs (1285,7 kg).

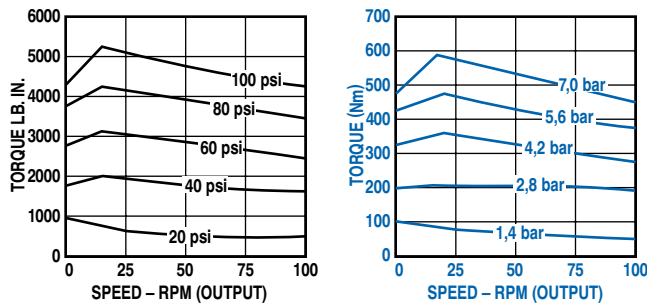
Product Dimensions (inches, mm)

#### “B” Mounting (photo)

16AM-13-HB20/16AM-13-HF20  
(standard shaft) (opposite shaft)



### Torque vs. Speed



#### “C” Mounting

16AM-13-HC20/\*16AM-13-HG20  
(standard shaft) (opposite shaft)

