

# SCA

SCREW COMPRESSOR FOR AIR

## SCA SERIES

Innovative compressor technology

### Shaft seal

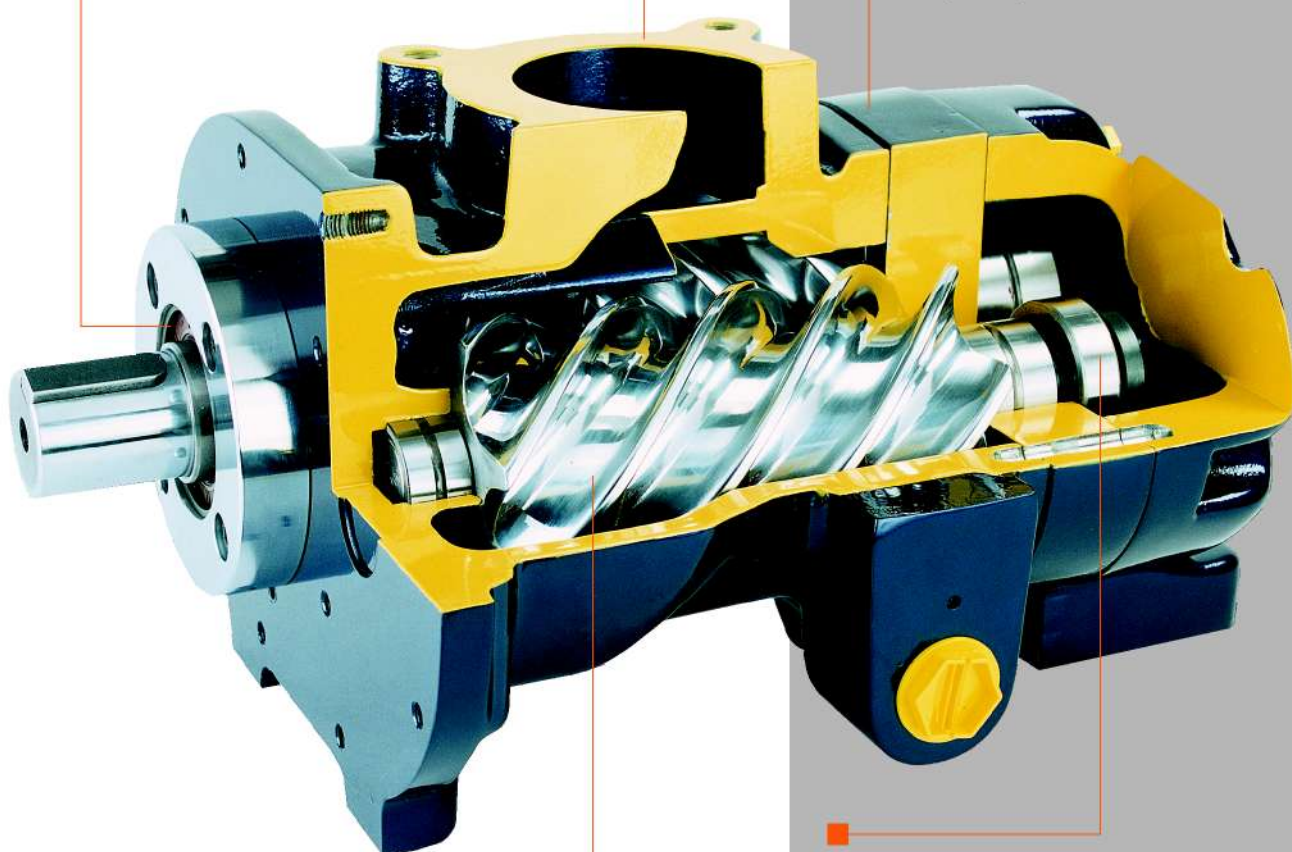
A double rim ring in Viton with metallic framework to resist to pressure forms the shaft lubricated seal. The bushing, keyed on the shaft has a special machining with an our exclusive technology to grant a perfect sealing and an exceptional life.

### Casing

Modern numerical control machining centers, constantly monitored by means of continuous testing technical specialization and continual modernization with the most technically up-to-date machinery, is applied in all machining work in order to guarantee the obligation we assume towards the Certified Quality of our compressors.

### Painting

All T.M.C. screw compressors have a modern, environmentally friendly, protective paint. The surface finish protects the castings effectively against corrosion even after many years of operation.



### Rotors

The heart of every screw compressor is the air end. The multistage automatic screw manufacturing process, operated with latest CNC machines and the use of top grade materials assure the closest tolerances as well as greater reliability. A final grinding process, coupled with computer operated multistep rotor control guarantees 100% accuracy of each rotor profile.

### Bearings

Because of rotational speeds and bearing loads T.M.C. screw compressors are equipped with, top quality bearings that provide a high bearing capacity and assure long bearing life.

# SCA

## Oil Injected Screw Compressor for air

Sizes 4 to 160 kW

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Outside view drawing/ Data tables	

# SCA series

## Product features

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### Main features

New profile 5/6 lobe relation

High volumetric efficiency

Low running cost

Low air discharge temperature

Low noise level

Discharge pressure range of 3 barg to 15 barg (43.5 psig to 220 psig)

### Assembly system

The assembly systems for the SCA series are:

- base plate mounted
- flange mounted

## Sizes

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### SCA8

SCA8DA - SCA8DR - SCA8GA - SCA8GR

### SCA9

SCA9DR - SCA9GR

### SCA10

SCA10DR - SCA10GR

### SCA12

SCA12DR - SCA12GR

### SCA13

SCA13DR - SCA13GR

### SCA14

SCA14DR - SCA14GR

### SCA22

SCA22DR - SCA22BR - SCA22GR

**A** axial air outlet

**B** (belt) belt driven

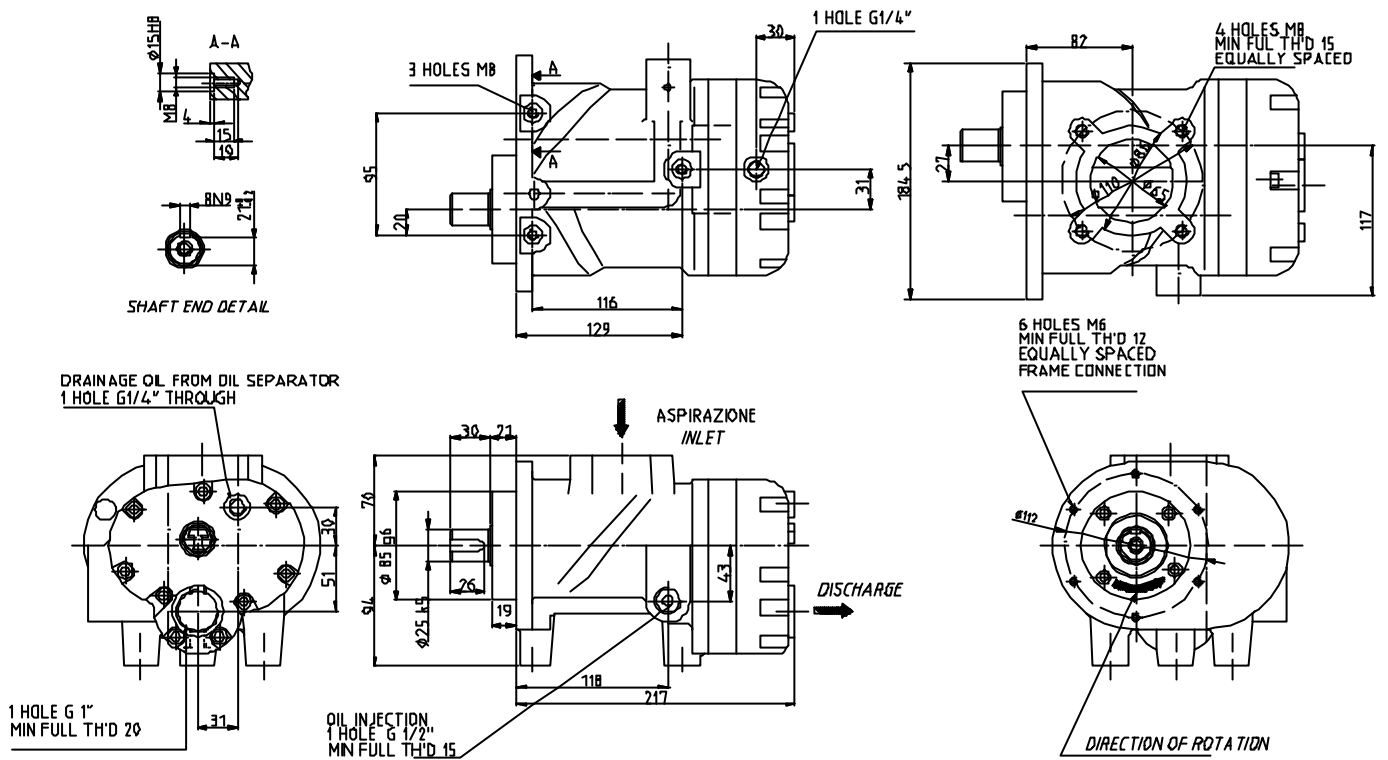
**D** (direct) direct or belt driven coupling (SCA22D only direct coupling)

**G** (gear) gearbox incorporated

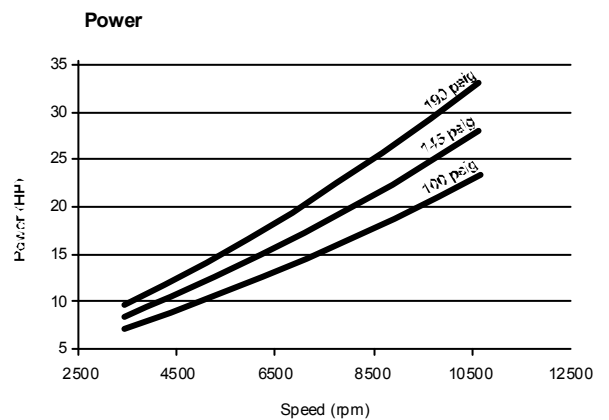
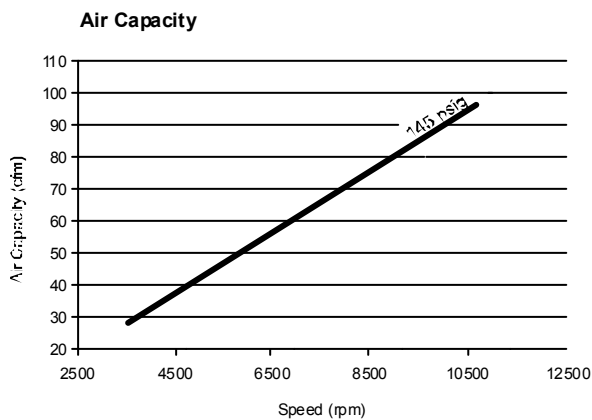
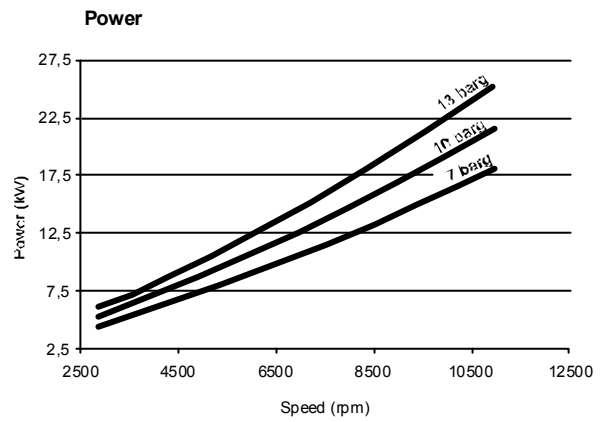
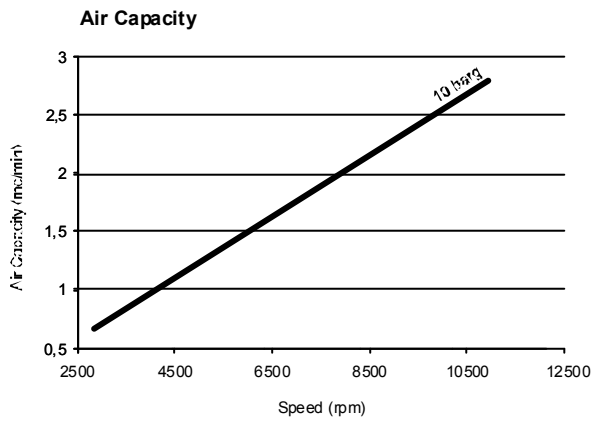
**R** radial air outlet

# SCA8D-A

## Outside view drawing



## Data Tables

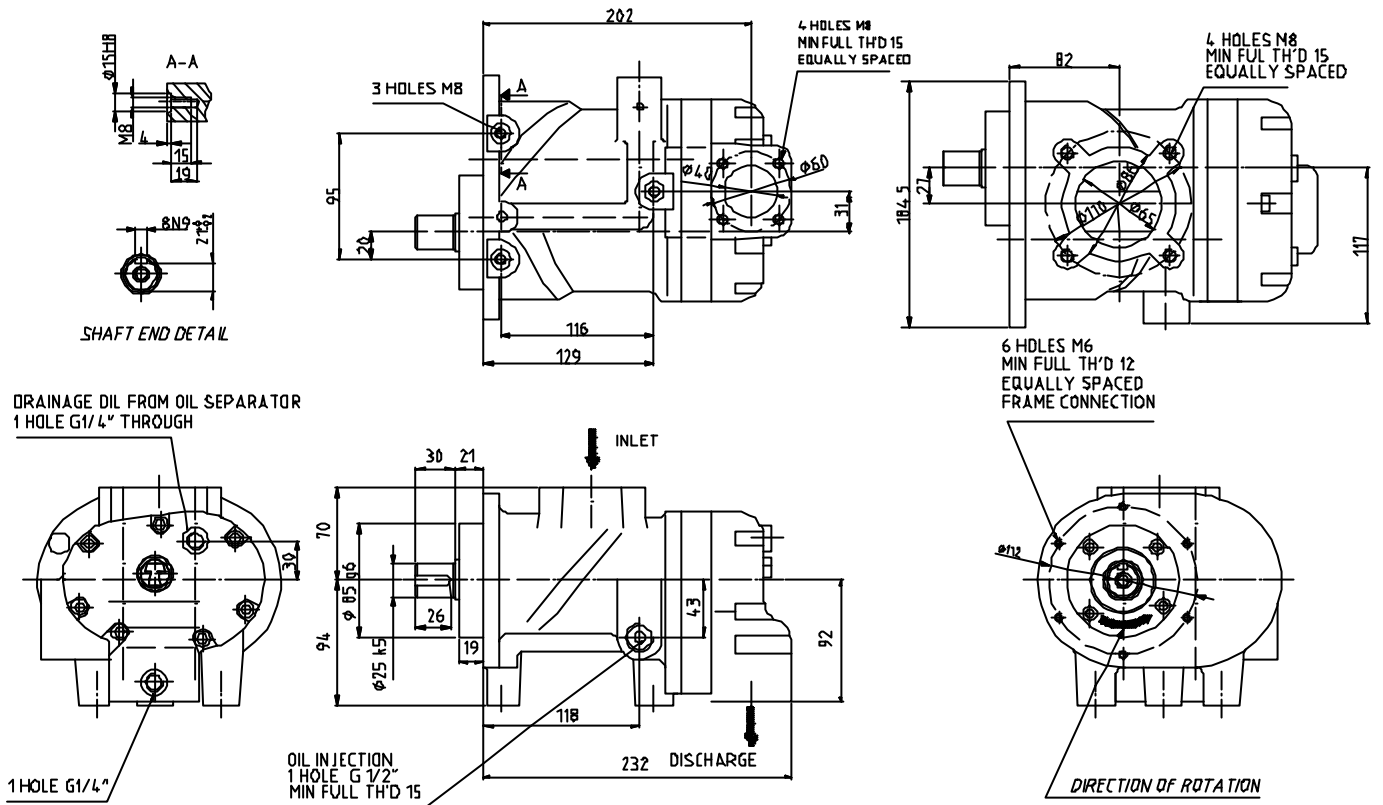


Drive: Male  
 Lobe combination: 5/6  
 Male rotor size: 74 mm  
 Female rotor size: 61,6 mm  
 L/D: 1,65

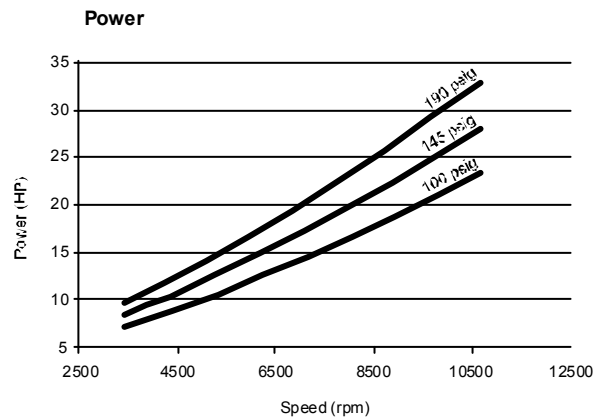
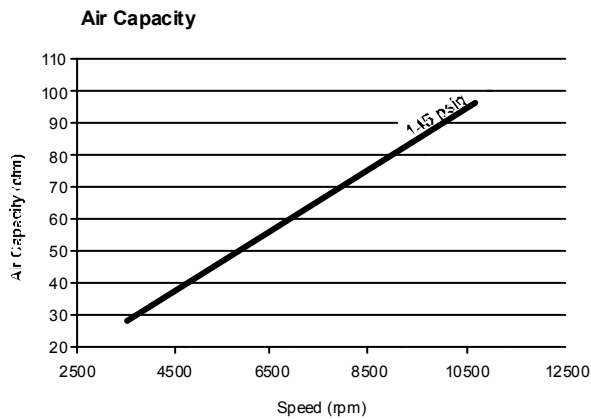
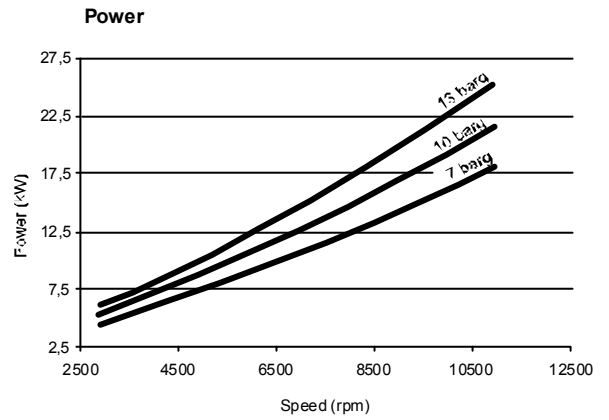
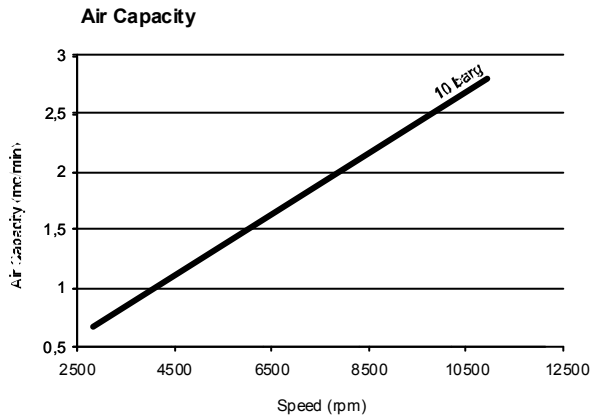
Working pressure: min 3 barg/40 psig – max 15 barg/220 psig  
 Weight: 18 Kg – 40 lbs

# SCA8D-R

## Outside view drawing



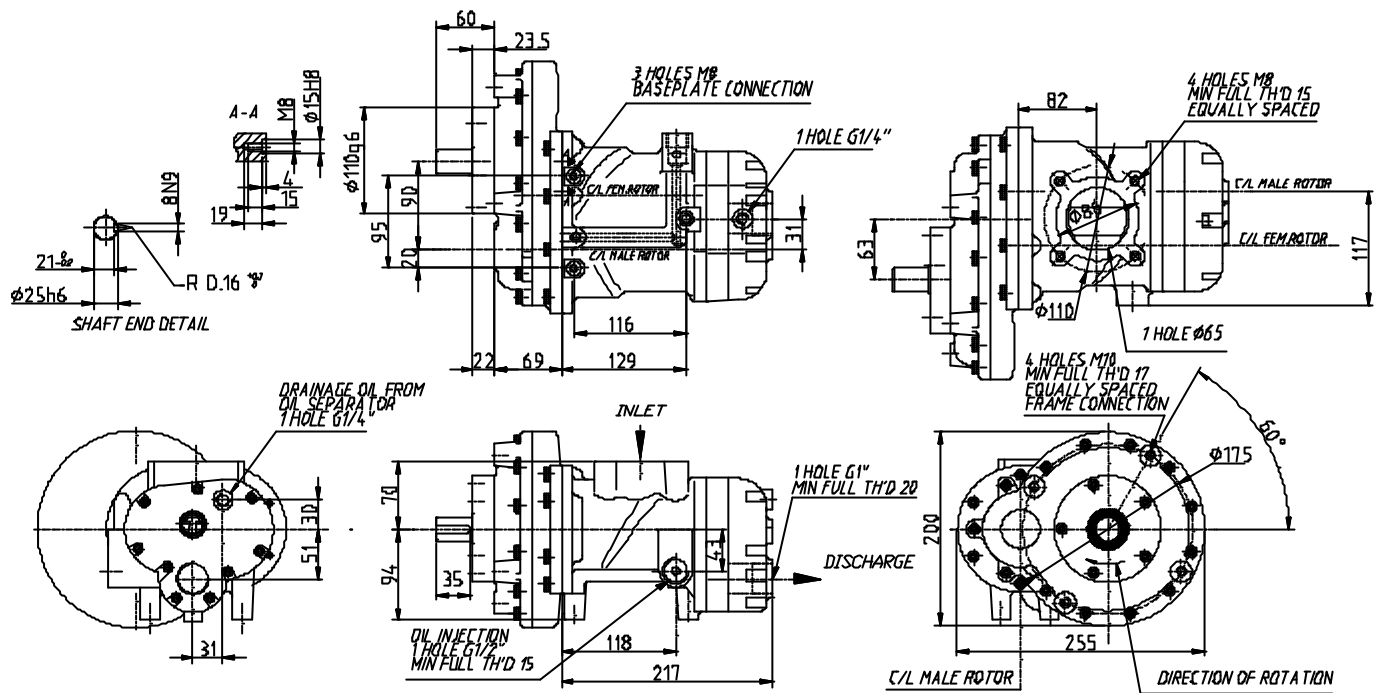
## Data Tables



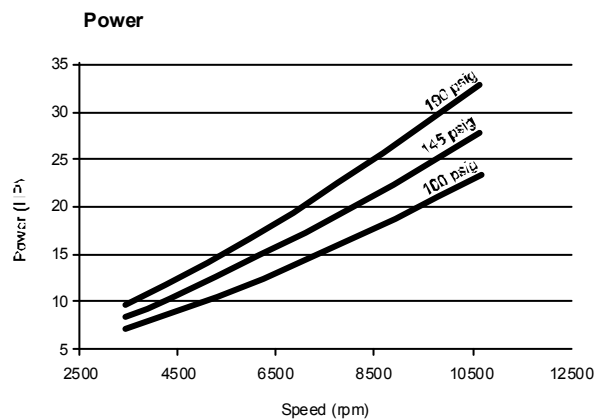
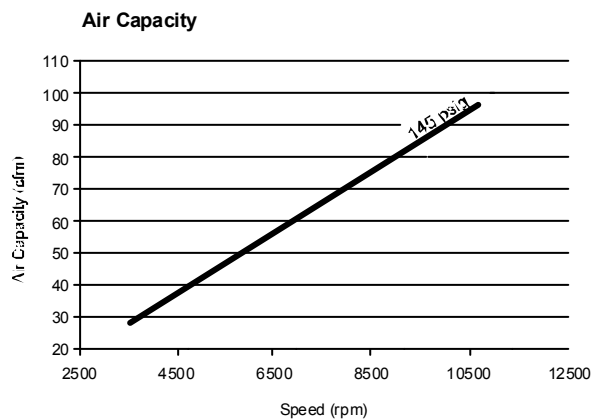
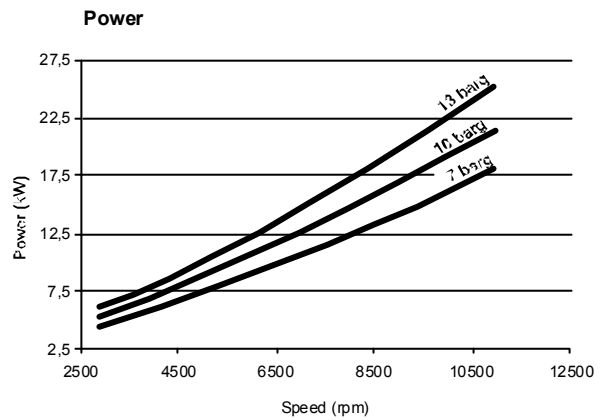
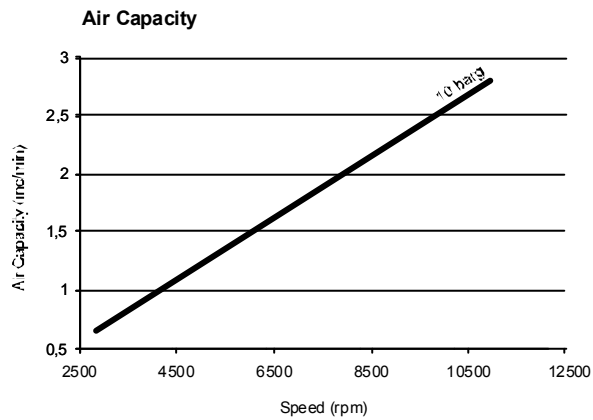
Drive: Male  
 Lobe combination: 5/6  
 Male rotor size: 74 mm  
 Female rotor size: 61,6 mm  
 L/D: 1,65

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig  
 Weight: 20 Kg – 44 lbs

## Outside view drawing



## Data Tables



Drive: Male  
 Lobe combination: 5/6  
 Male rotor size: 74 mm  
 Female rotor size: 61,6 mm  
 L/D: 1,65

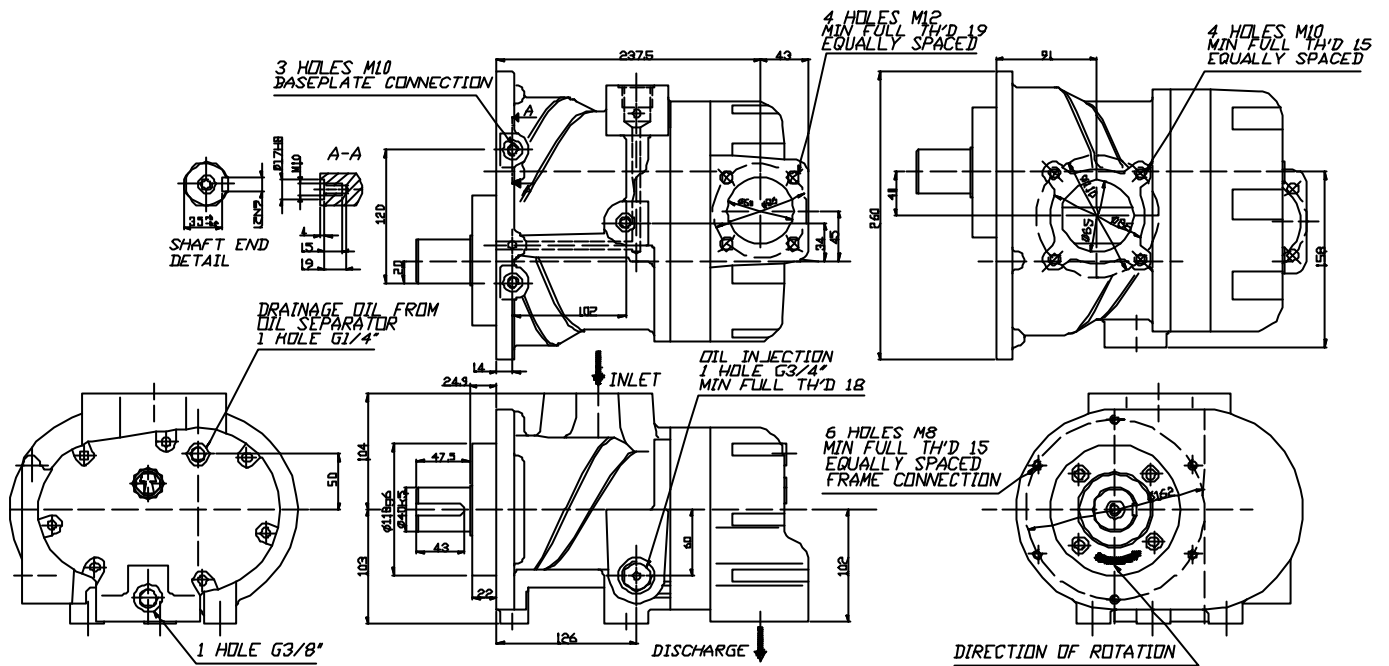
Working pressure: min 3 barg/40 psig – max 15 barg/220 psig  
 Weight: 30 Kg – 66 lbs



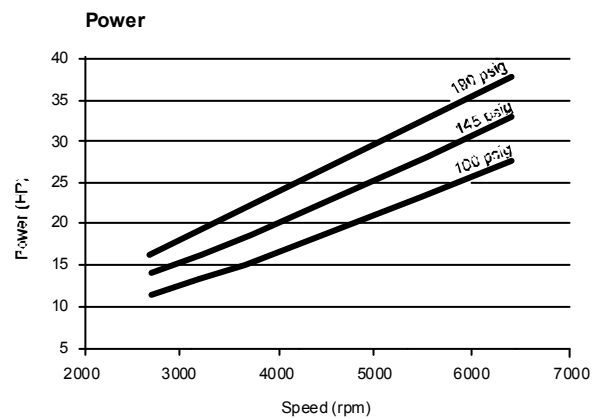
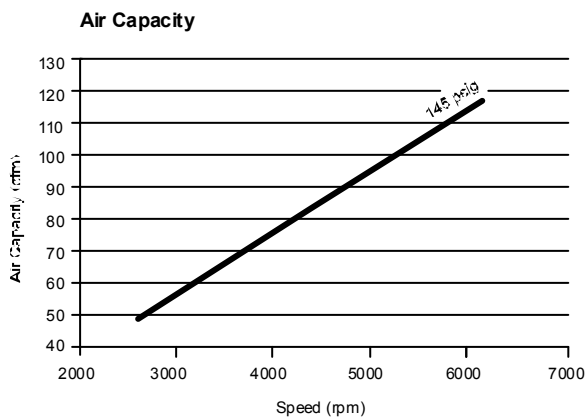
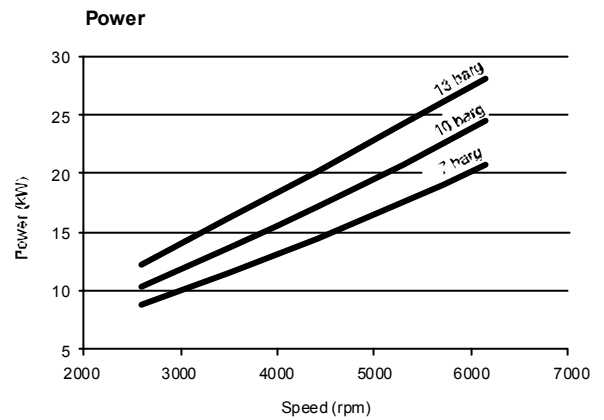
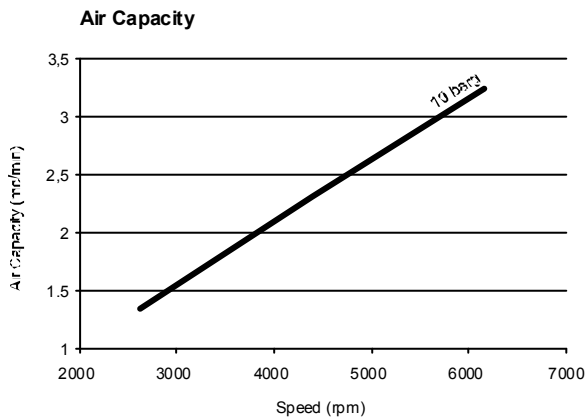


# SCA9D-R

## Outside view drawing



## Data Tables

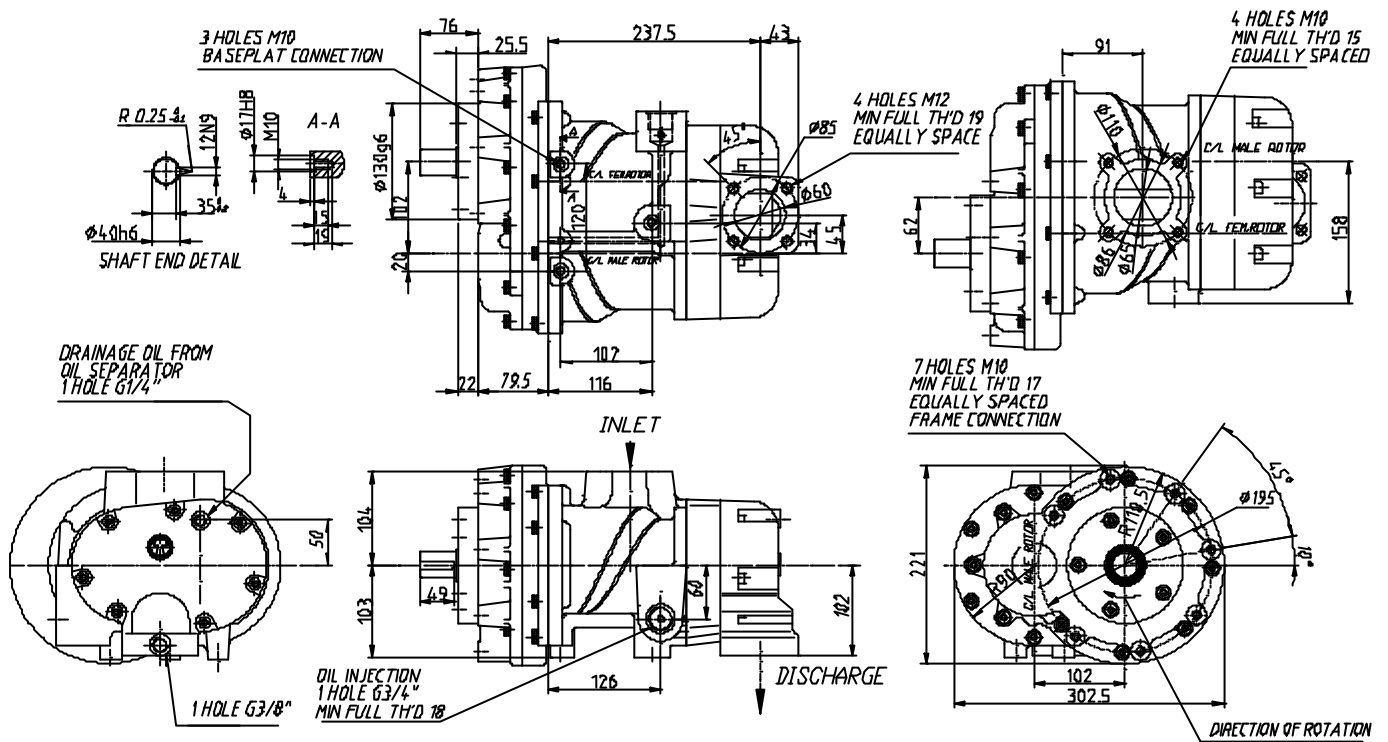


Drive: Male  
 Lobe combination: 5/6  
 Male rotor size: 108,6 mm  
 Female rotor size: 90,4 mm  
 L/D: 1,09

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig  
 Weight: 40 Kg – 88 lbs

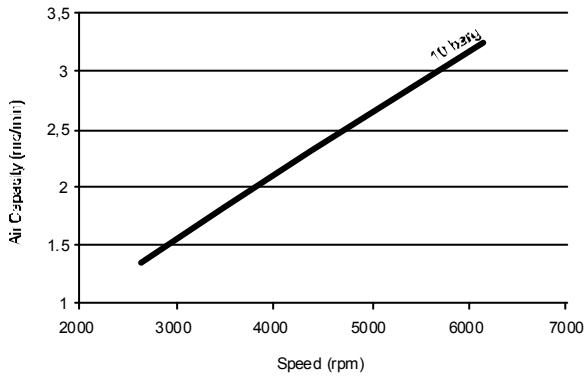
# SCA9G-R

## Outside view drawing

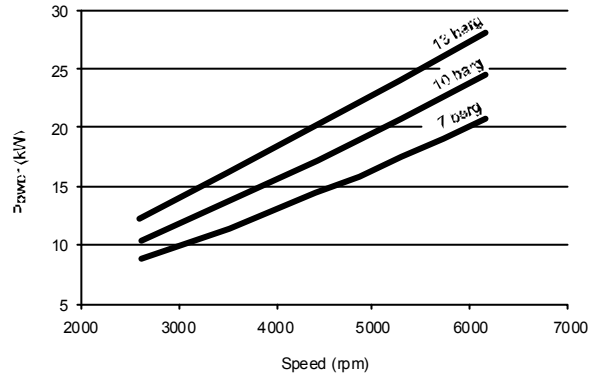


## Data Tables

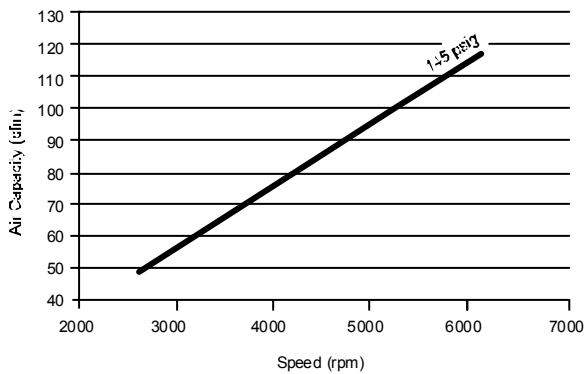
**Air Capacity**



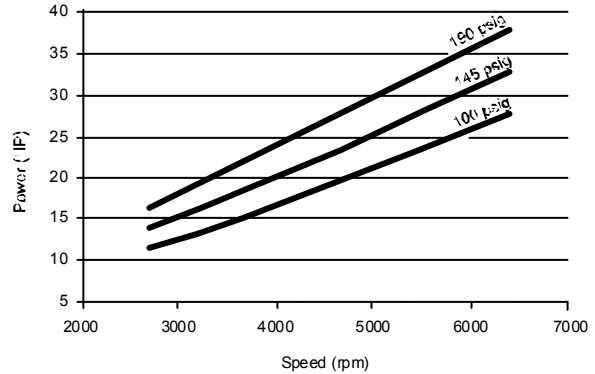
**Power**



**Air Capacity**



**Power**



Drive: Male  
 Lobe combination: 5/6  
 Male rotor size: 108,6 mm  
 Female rotor size: 90,4 mm  
 L/D: 1,09

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig  
 Weight: 61 Kg – 134 lbs





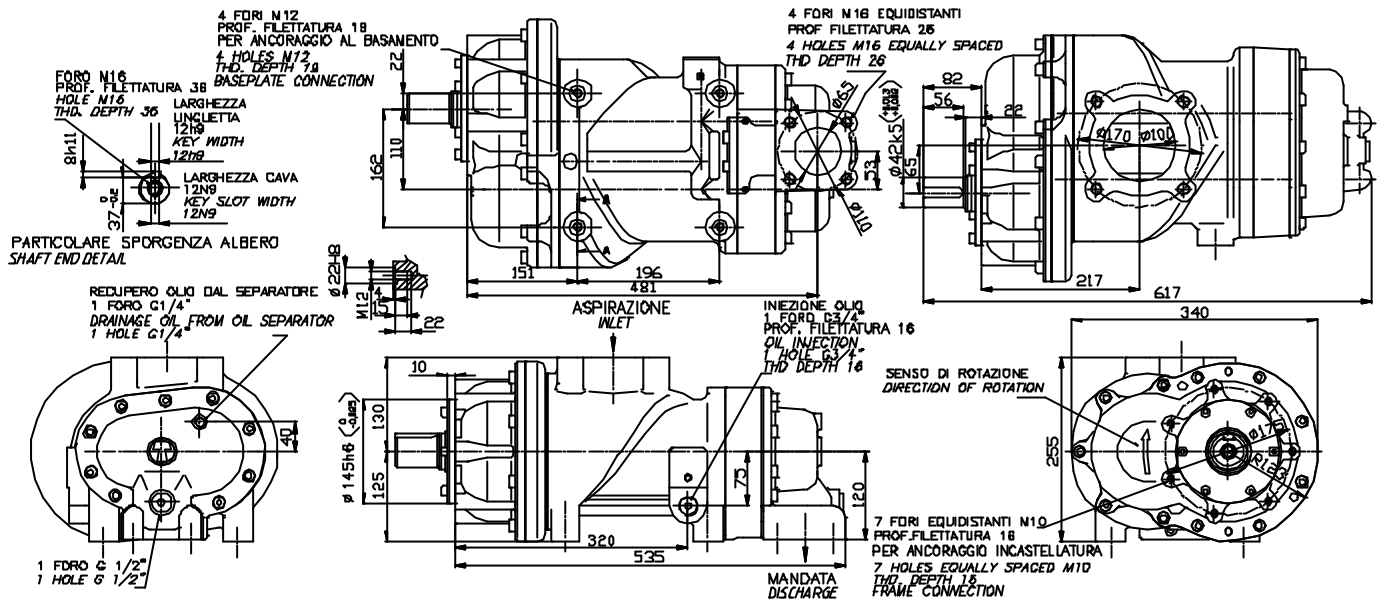




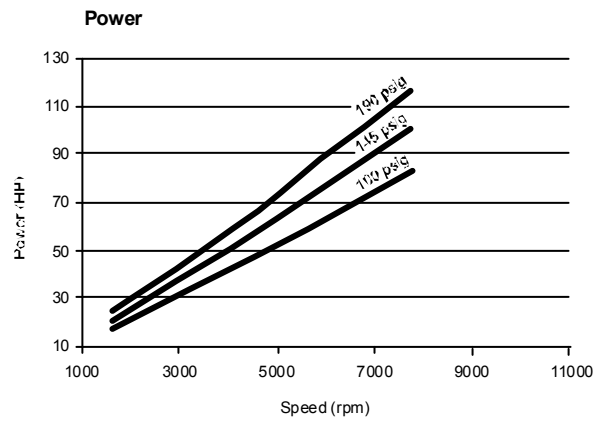
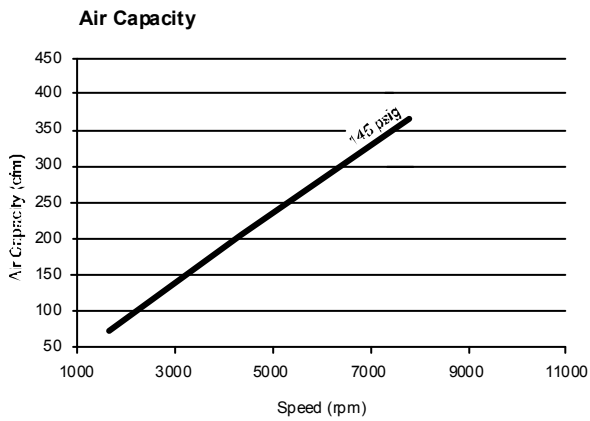
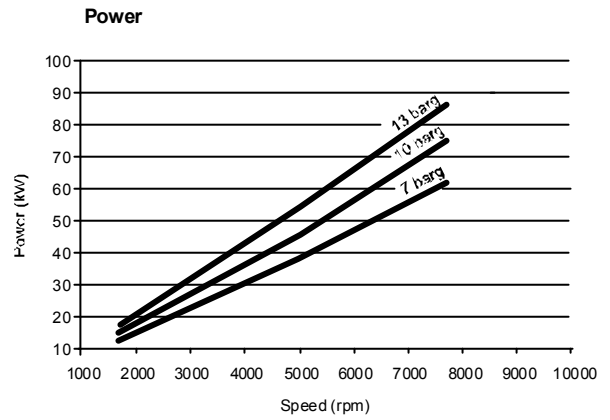
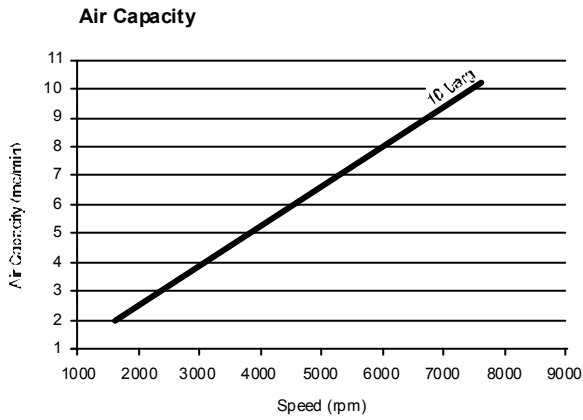


# SCA13G-R

## Outside view drawing



## Data Tables



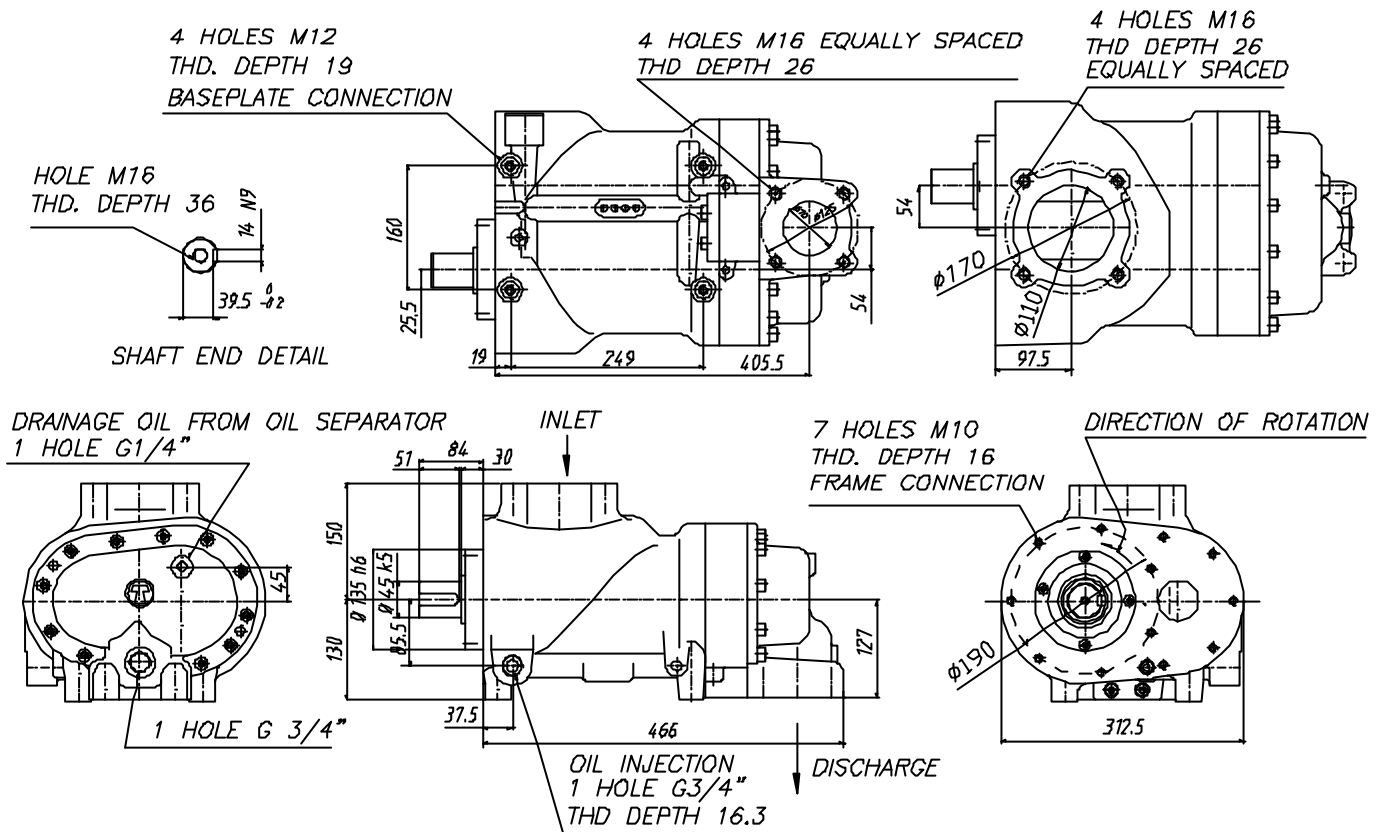
Drive: Male  
Lobe combination: 5/6  
Male rotor size: 126 mm  
Female rotor size: 105 mm  
L/D: 1,70

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig  
Weight: 99 Kg - 218 lbs

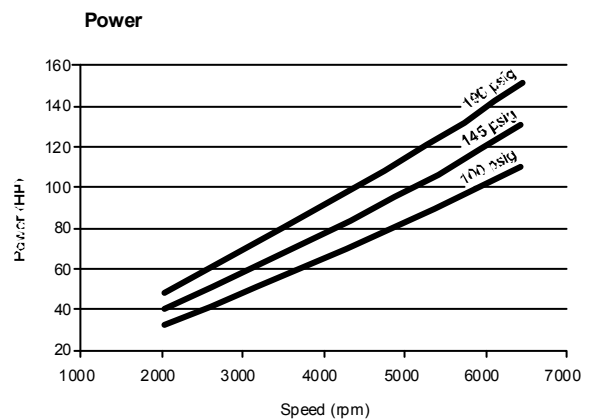
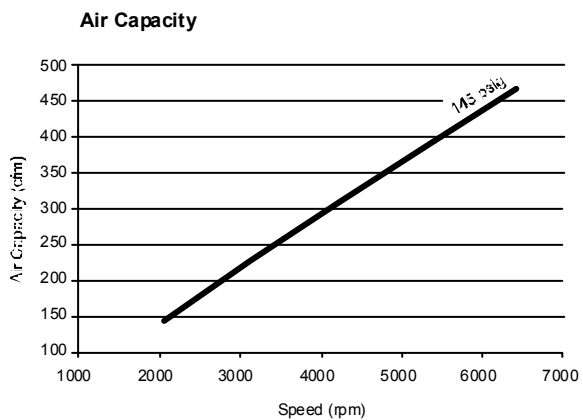
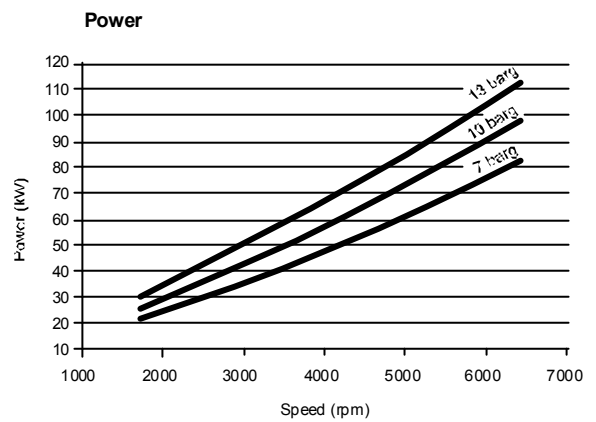
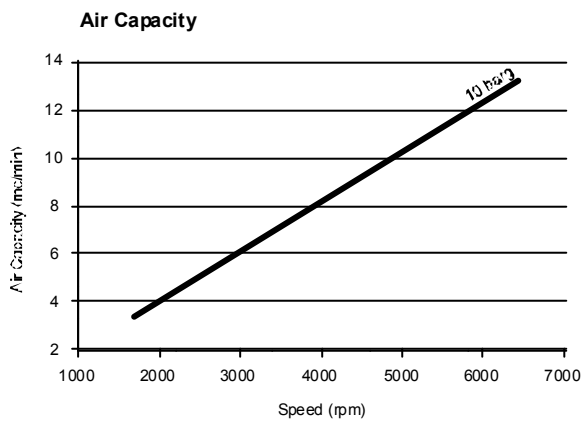


# SCA14D-R

## Outside view drawing



## Data Tables

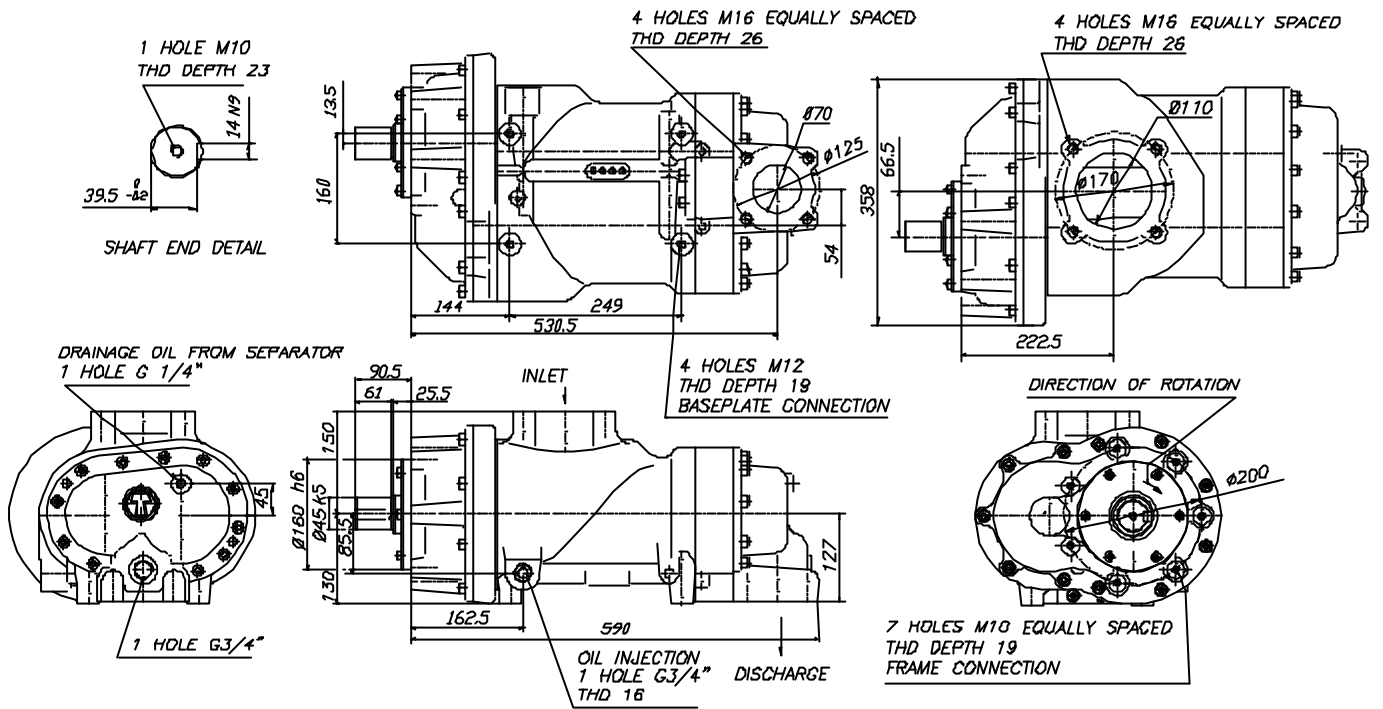


Drive: Male  
 Lobe combination: 5/6  
 Male rotor size: 147,3 mm  
 Female rotor size: 122,6 mm  
 L/D: 1,70

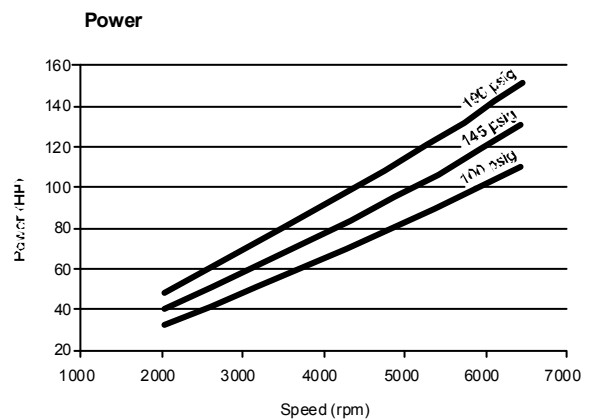
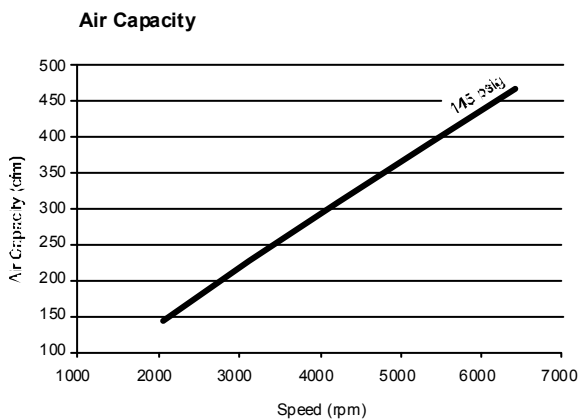
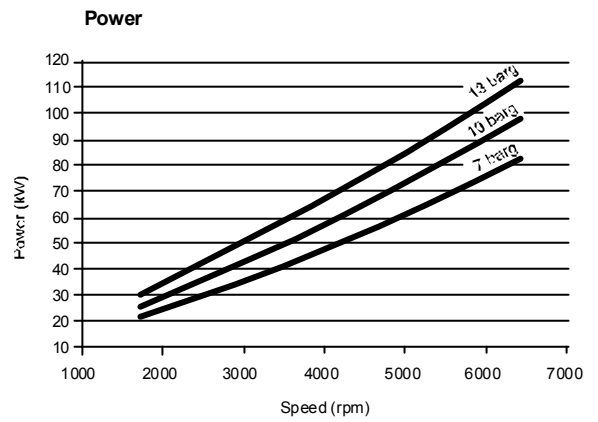
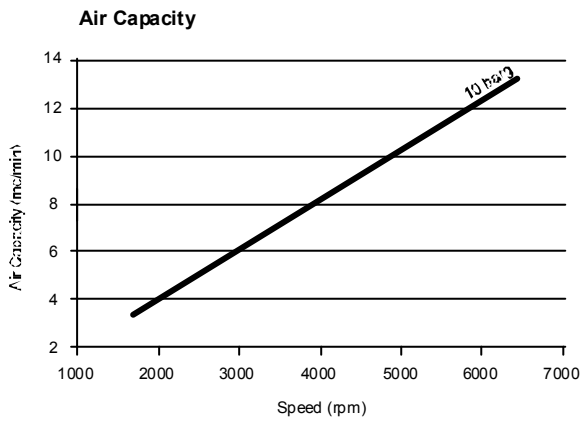
Working pressure: min 3 barg/40 psig – max 15 barg/220 psig  
 Weight: 108 Kg – 238 lbs

# SCA14G-R

## Outside view drawing



## Data Tables

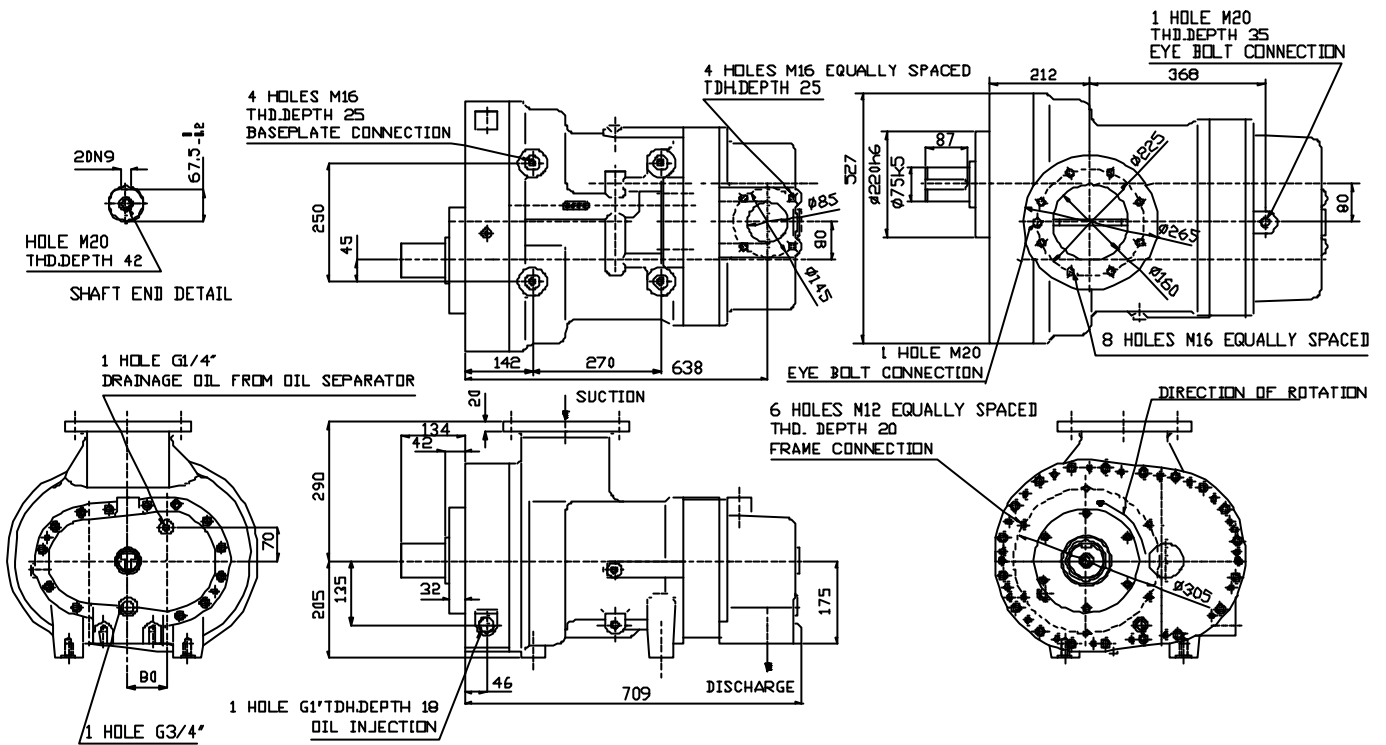


Drive: Male  
 Lobe combination: 5/6  
 Male rotor size: 147,3 mm  
 Female rotor size: 122,6 mm  
 L/D: 1,70

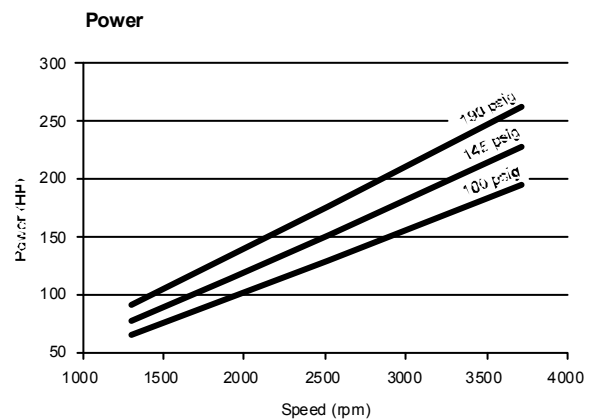
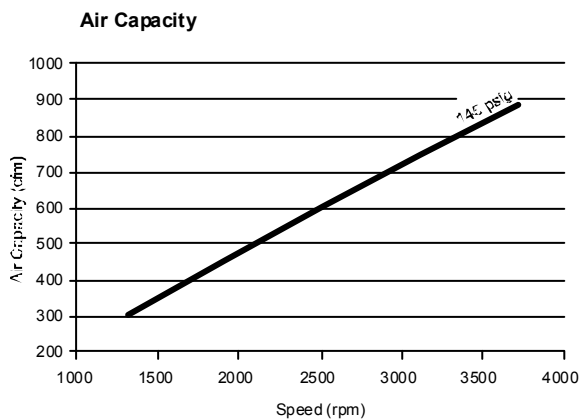
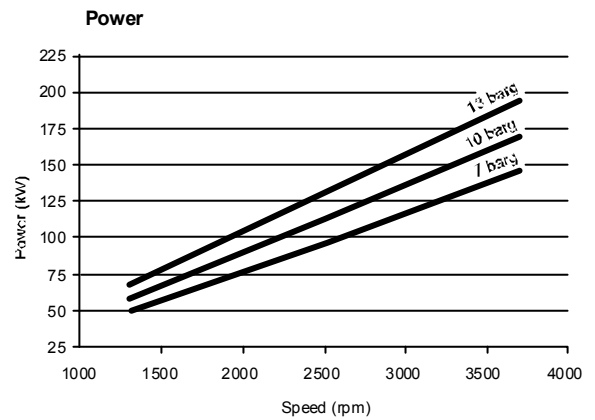
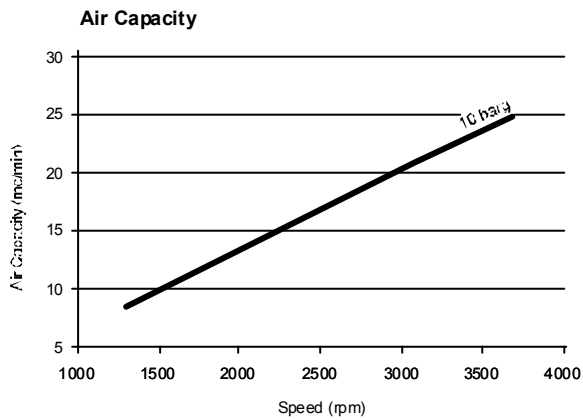
Working pressure: min 3 barg/40 psig – max 15 barg/220 psig  
 Weight: 140 Kg – 309 lbs

# SCA22D-R

## Outside view drawing



## Data Tables

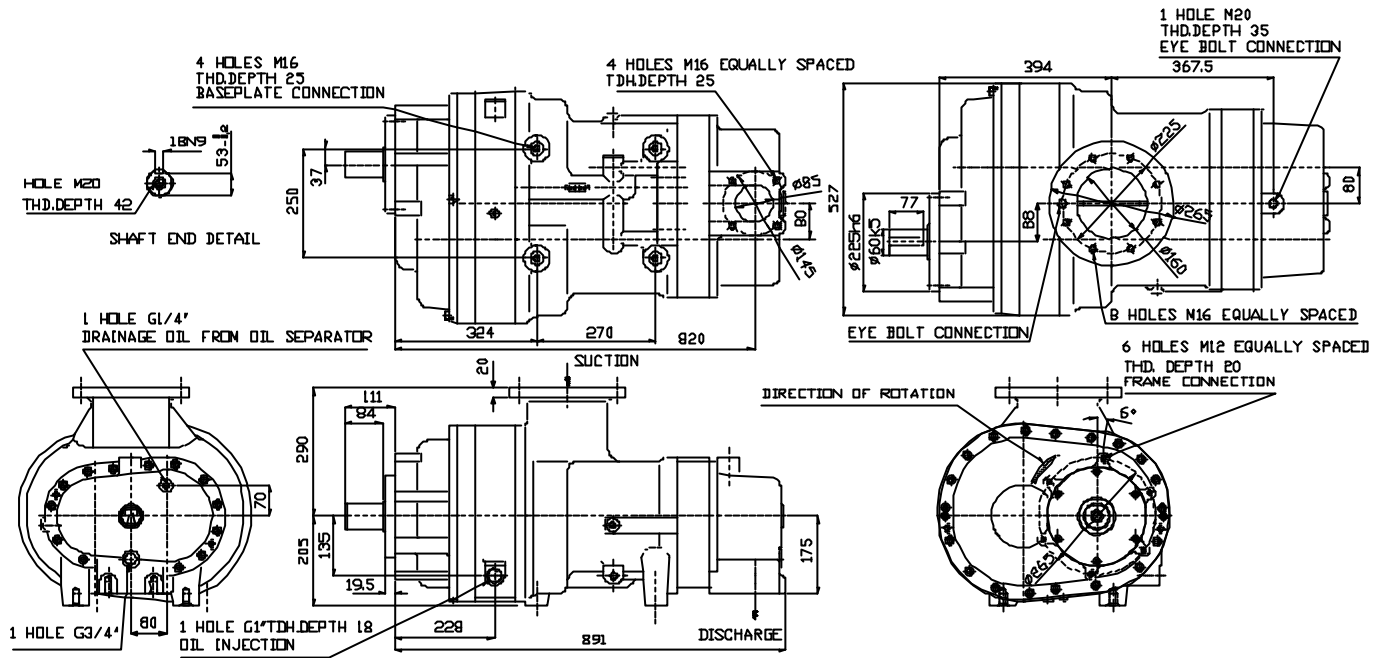


Drive: Male  
 Lobe combination: 5/6  
 Male rotor size: 217 mm  
 Female rotor size: 183 mm  
 L/D: 1,70

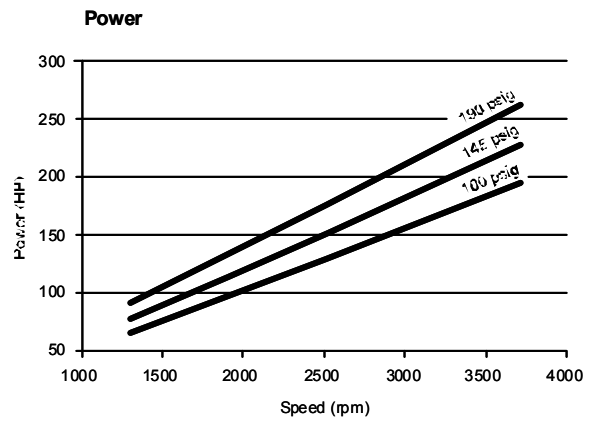
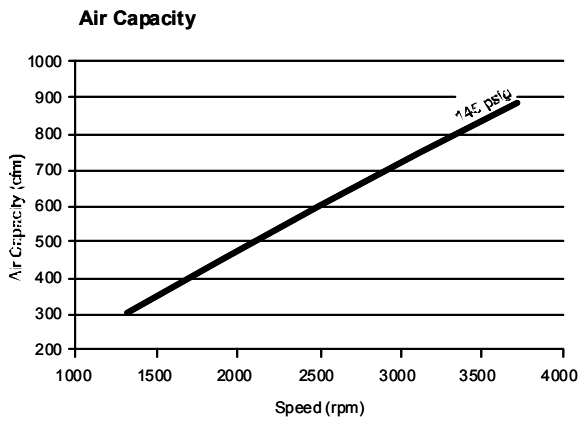
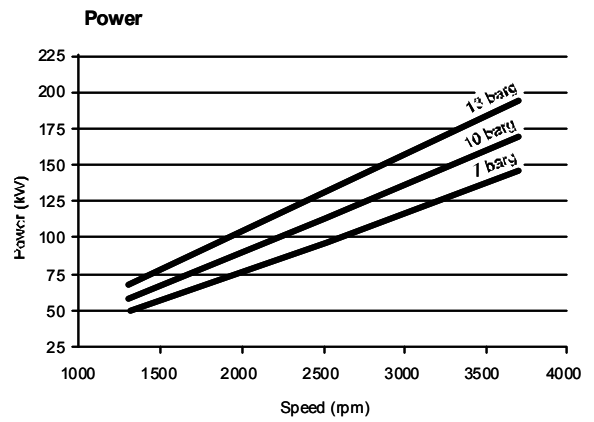
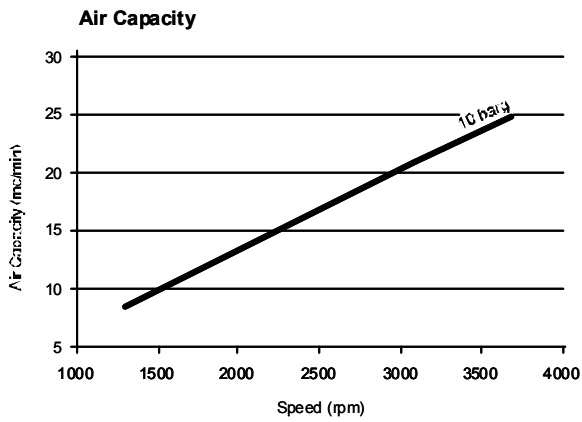
Working pressure: min 3 barg/40 psig – max 15 barg/220 psig  
 Weight: 393 Kg – 866 lbs

# SCA22G-R

## Outside view drawing



## Data Tables

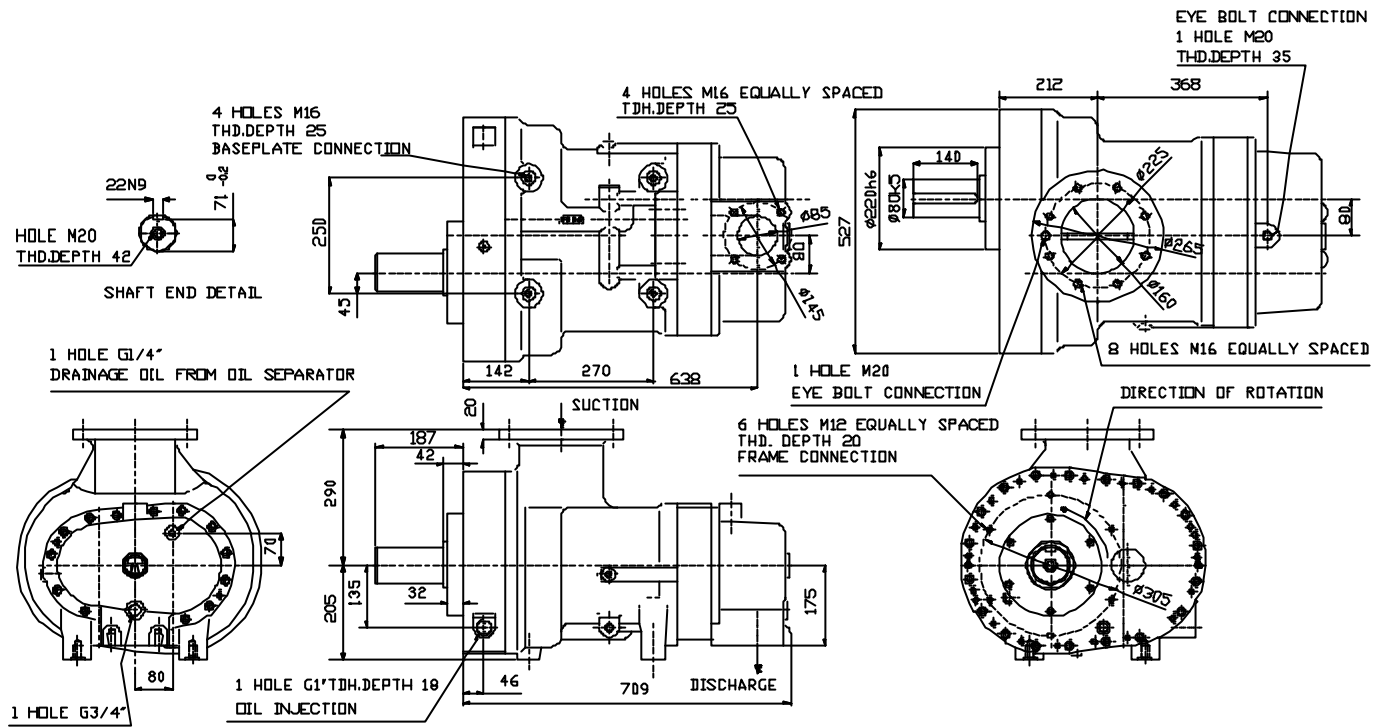


Drive: Male  
 Lobe combination: 5/6  
 Male rotor size: 217 mm  
 Female rotor size: 183 mm  
 L/D: 1,70

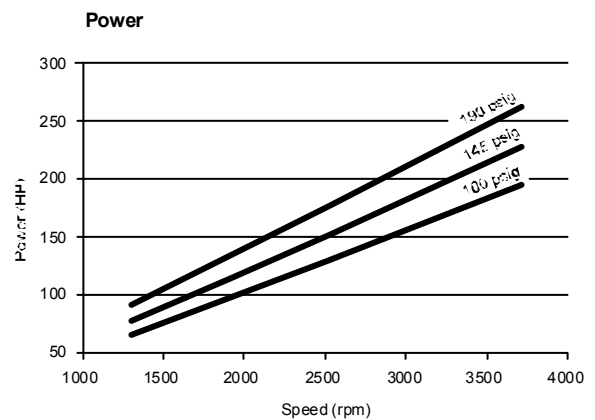
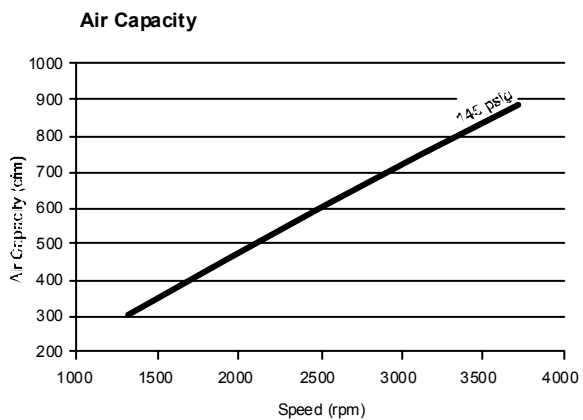
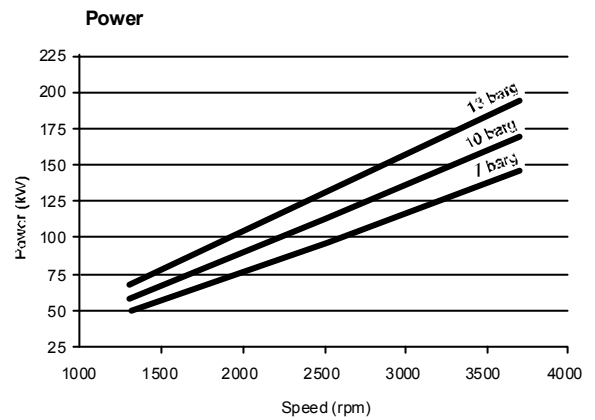
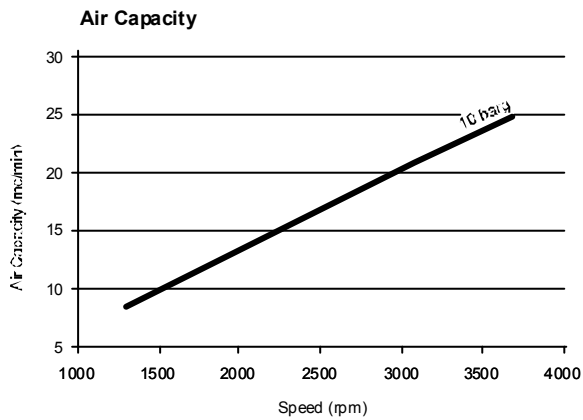
Working pressure: min 3 barg/40 psig – max 15 barg/220 psig  
 Weight: 490 Kg – 1080 lbs

# SCA22B-R

## Outside view drawing



## Data Tables



Drive : Male  
 Lobe combination : 5/6  
 Male rotor size : 217 mm  
 Female rotor size : 183 mm  
 L/D : 1,70

Working pressure: min 3 barg/40 psig – max 15 barg/220 psig  
 Weight: 397 Kg – 875 lbs

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