



TM. C. S.p.A. Termomeccanica Compressori

SCA

SCREW COMPRESSORS FOR AIR



oil injected screw compressor for air



Oil Injected Screw Compressor for air

Sizes from 2,2 to 250 kW

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SCA

2

TM.C. The Italian leader in air compressor technology.

SCA series

screw compressors

COMPACT series

semi integrated screw compressors

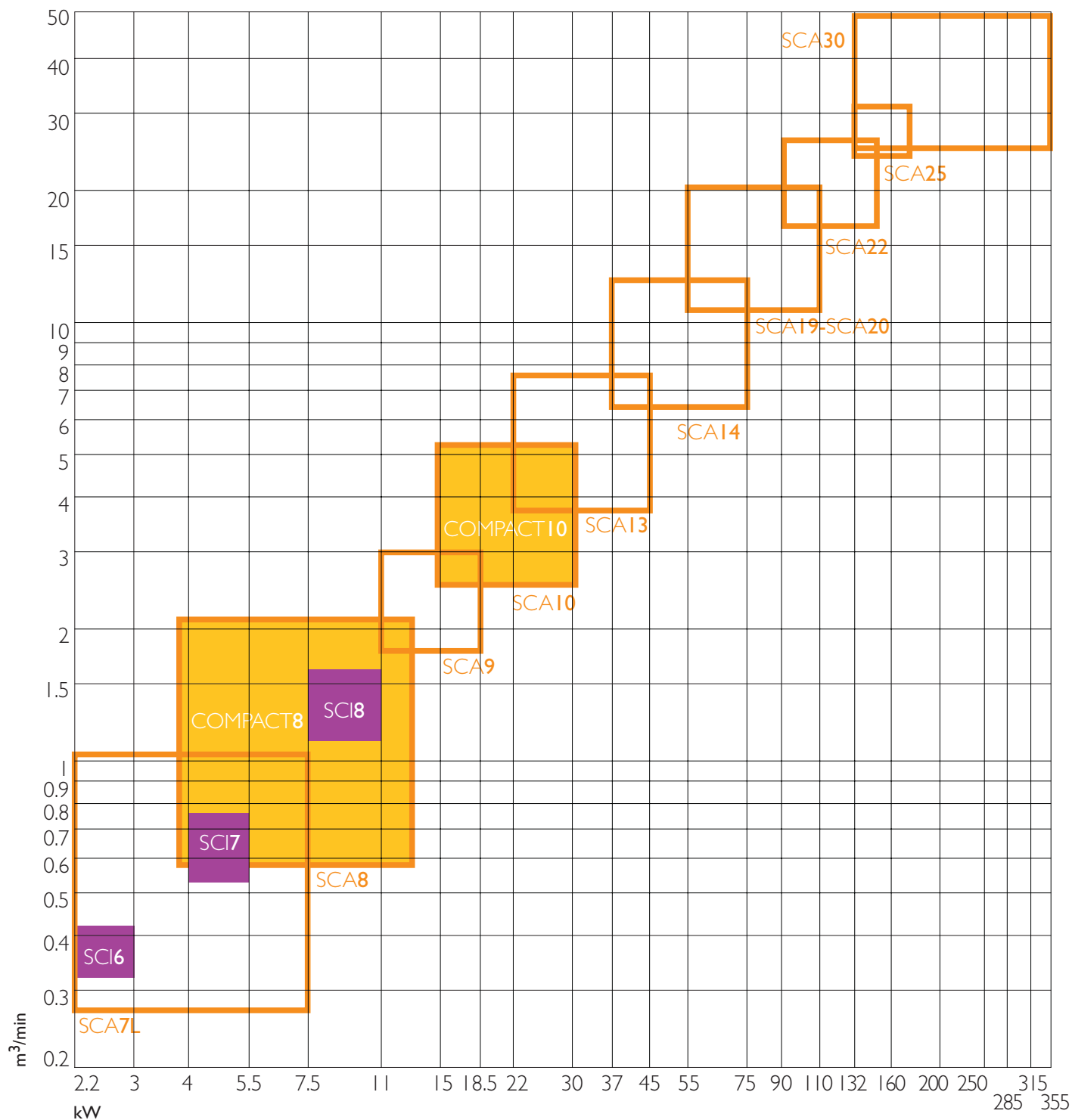
SCI series

integrated screw compressors

SCFI series

fully integrated screw compressors

TM.C. Range of products



SCA series



COMPACT series



SCI series

**Shaft seal**

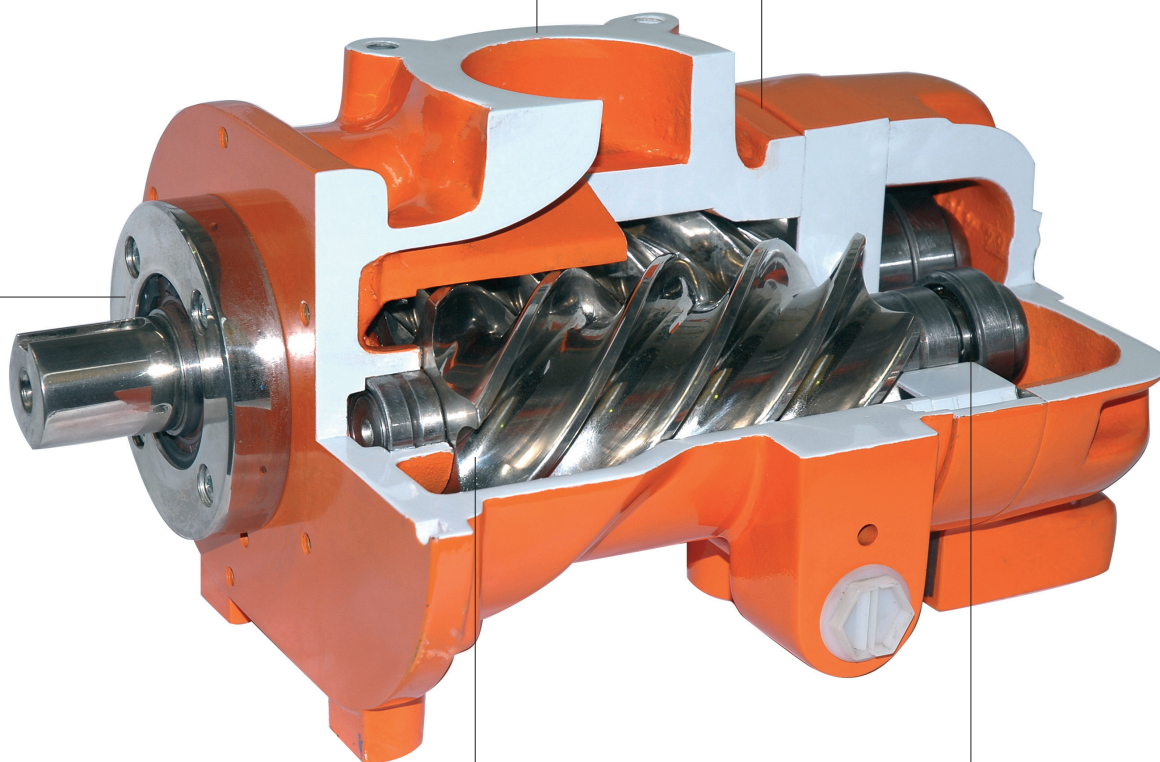
A new configuration of the seal ring, including two seal lips and one dust lip in PTFE, and a dust ring, assures great reliability, long life and resistance to impurities.

Casing

Modern CNC 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 obligations we assume towards the Certified Quality of our compressors.

Painting

All TM.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 rotors are the heart of every screw compressor. The automatic multistage 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 TM.C screw compressors are equipped with top quality bearings that provide a high bearing capacity and assure long bearing life.



SCA series

Product features

Main features

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)

PTFE double lip seal

Assembly system

The assembly systems for the SCA series are:

- base plate mounted
- flange mounted

Sizes

SCA7

SCA7L

SCA8

SCA8D-A - SCA8D-R - SCA8G-A - SCA8G-R

SCA9

SCA9D-R - SCA9G-R

SCA10

SCA10D-R - SCA10G-R

SCA13

SCA13D-R - SCA13G-R

SCA14

SCA14D-R - SCA14G-R

SCA19

SCA19D-R - SCA19G-R

SCA20

SCA20D-R - SCA20G-R

SCA22

SCA22D-R - SCA22B-R - SCA22G-R

SCA25

SCA25D-R - SCA25B-R - SCA25G-R

SCA30

SCA30D-R - SCA30G-R

A axial air outlet

B (belt) belt driven

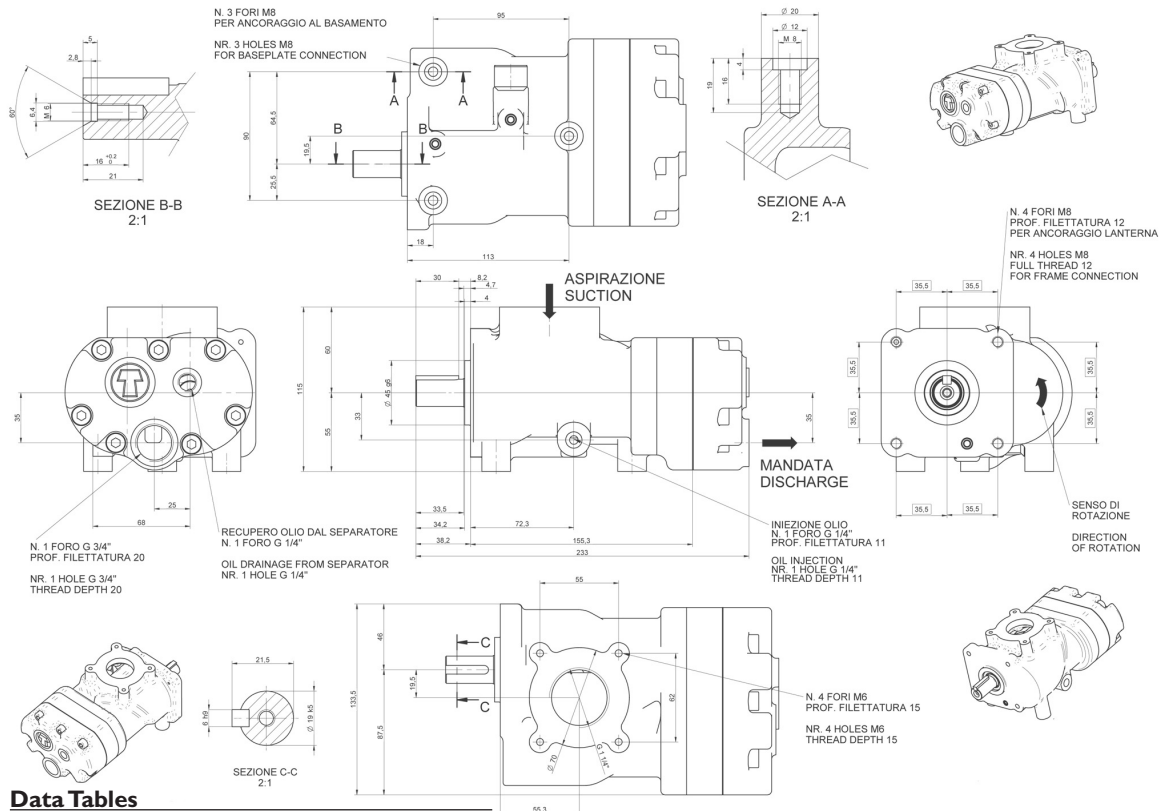
D (direct) direct or belt driven coupling (SCA22D only direct coupling)

G (gear) gearbox incorporated

R radial air outlet

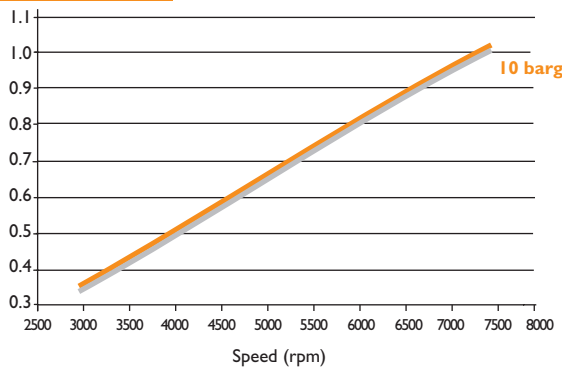


Outside view drawing

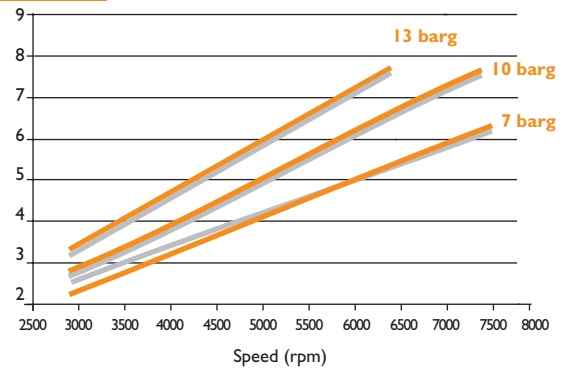


Data Tables

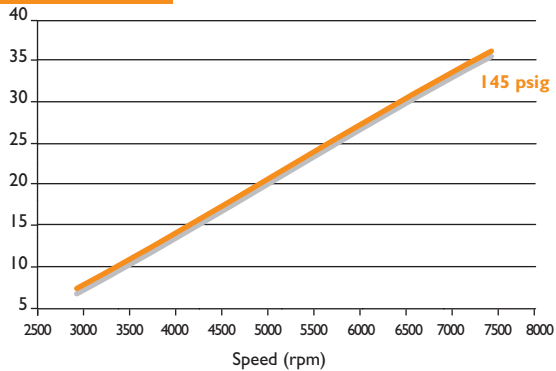
Air Capacity (m³/min)



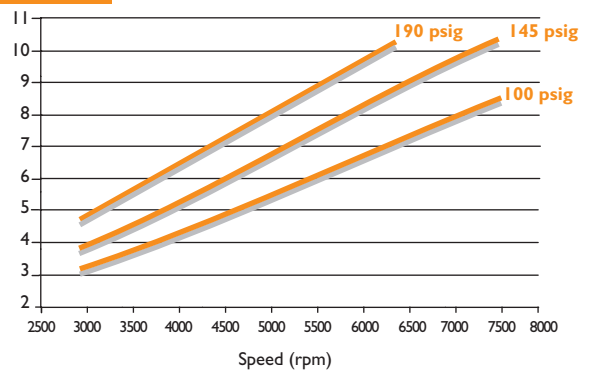
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 49,7 mm

Working pressure: min 3 barg/40 psig - max 13 barg/190 psig

Lobe combination: 5/6

L/D: 1,70

Weight: 10 kg - 22 lbs

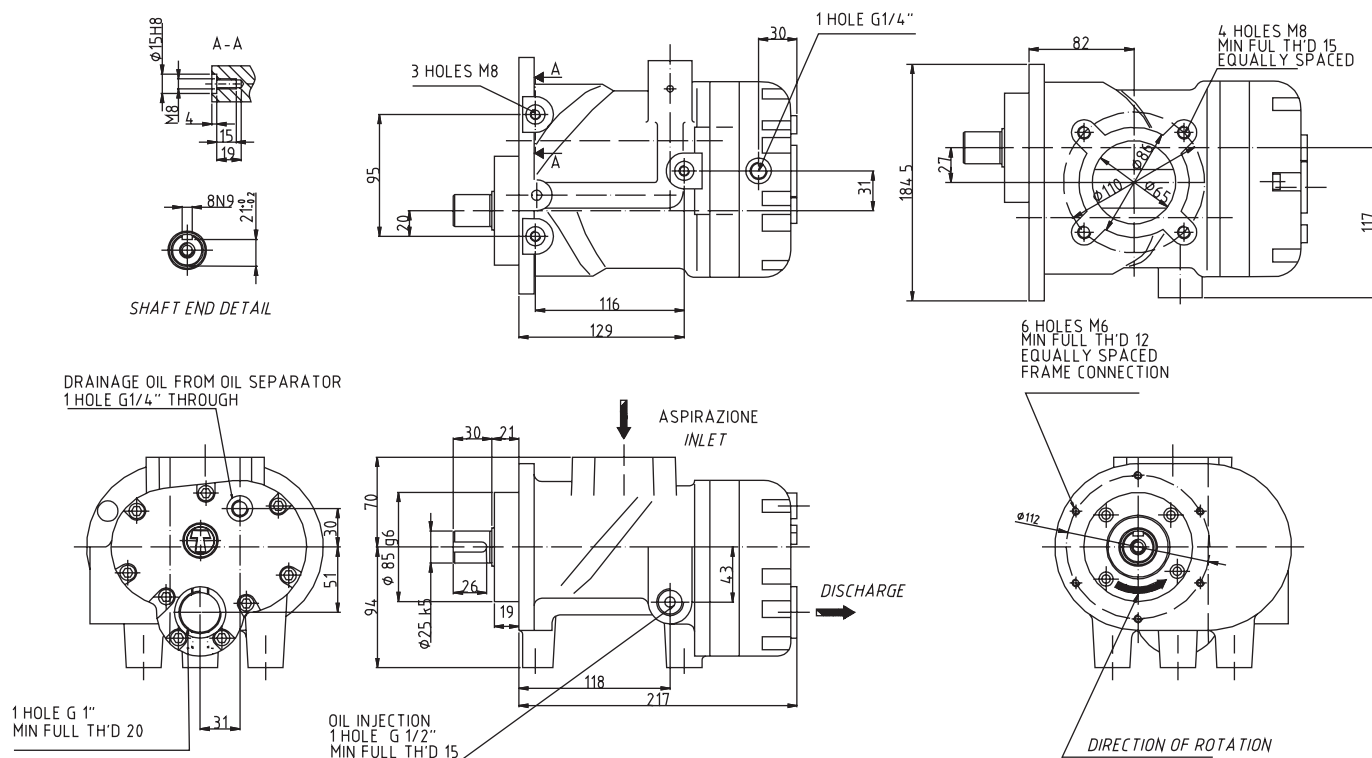
Male rotor size: 59,7 mm



SCA8D-A

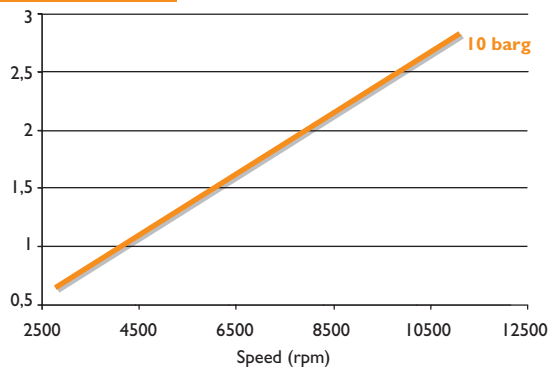
6

Outside view drawing

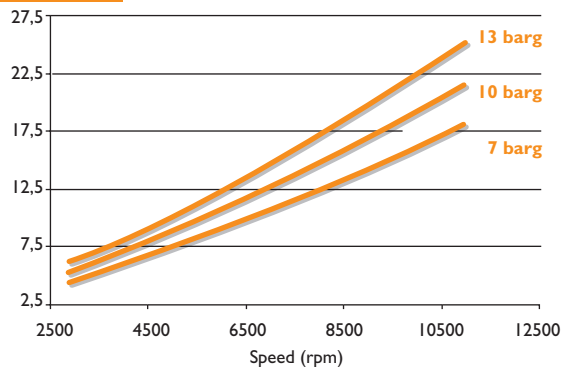


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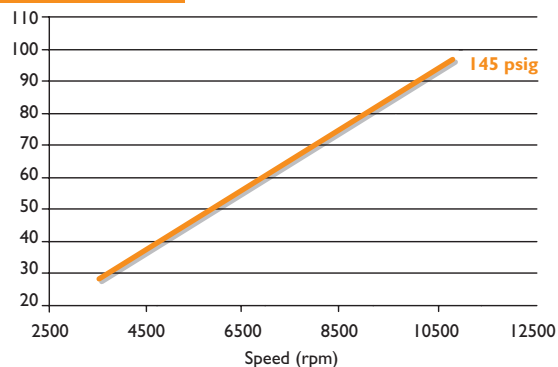
Air Capacity (m³/min)



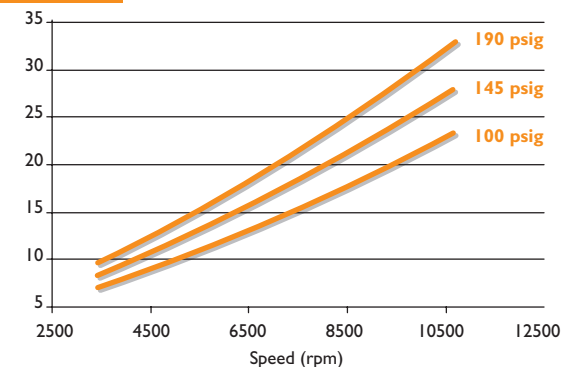
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 61,6 mm

Working pressure: min 3 barg/40 psig - max 15 barg/220 psig

Lobe combination: 5/6

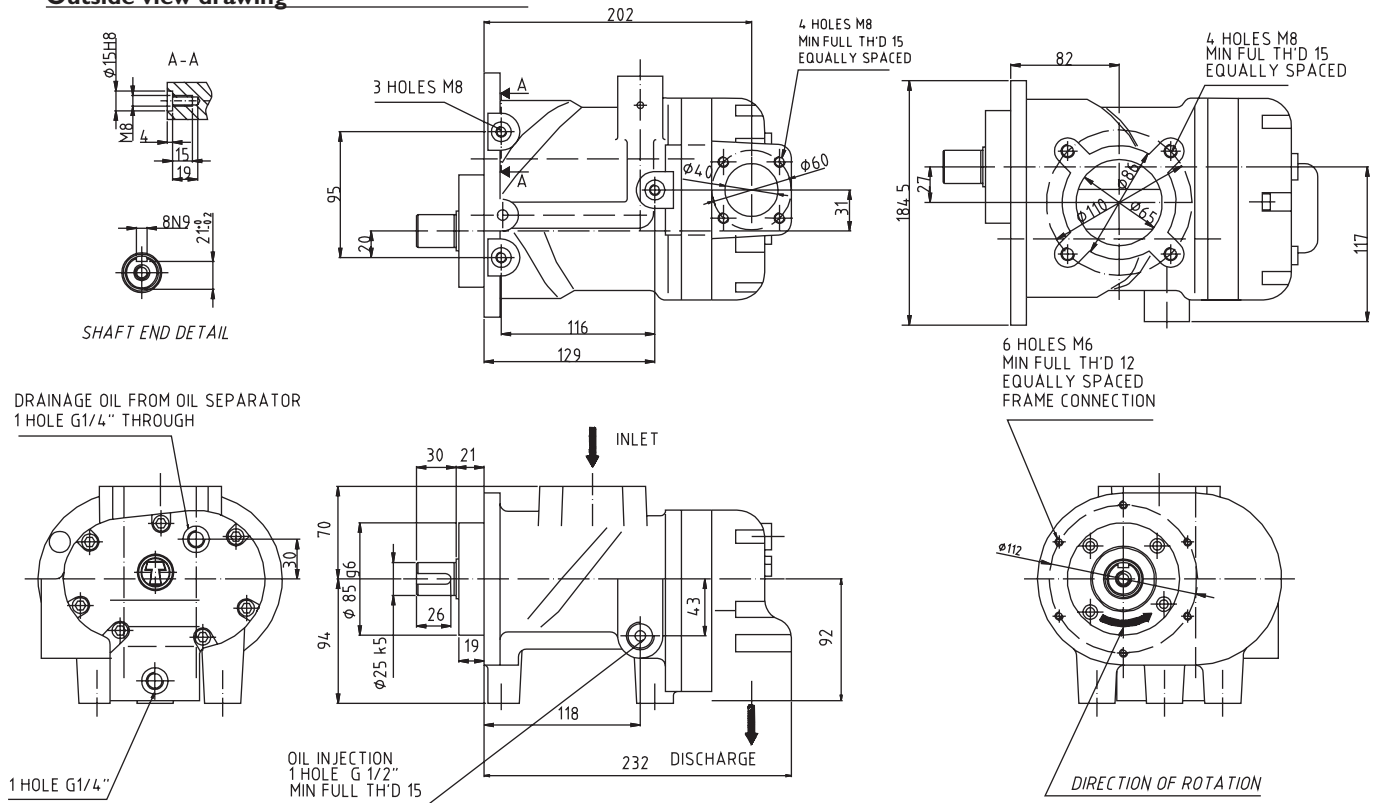
L/D: 1,65

Weight: 18 kg - 40 lbs

Male rotor size: 74 mm

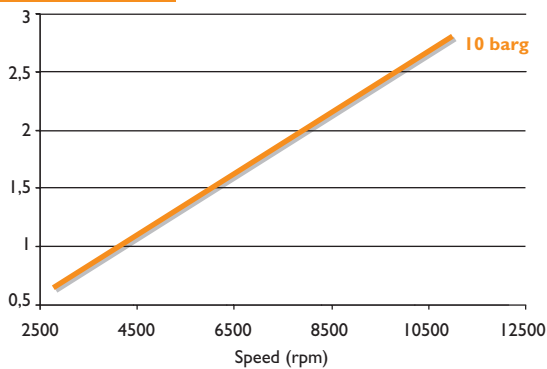


Outside view drawing

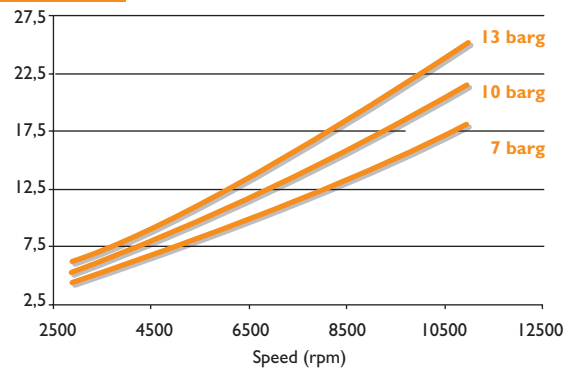


Data Tables

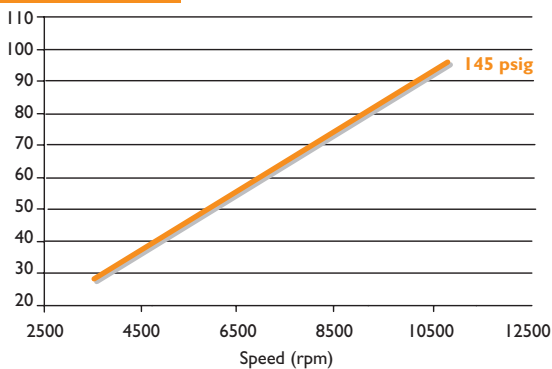
Air Capacity (m³/min)



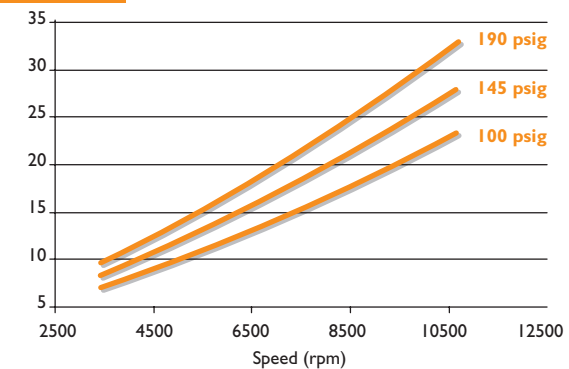
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 61,6 mm

Working pressure: min 3 barg/40 psig - max 15 barg/220 psig

Lobe combination: 5/6

L/D: 1,65

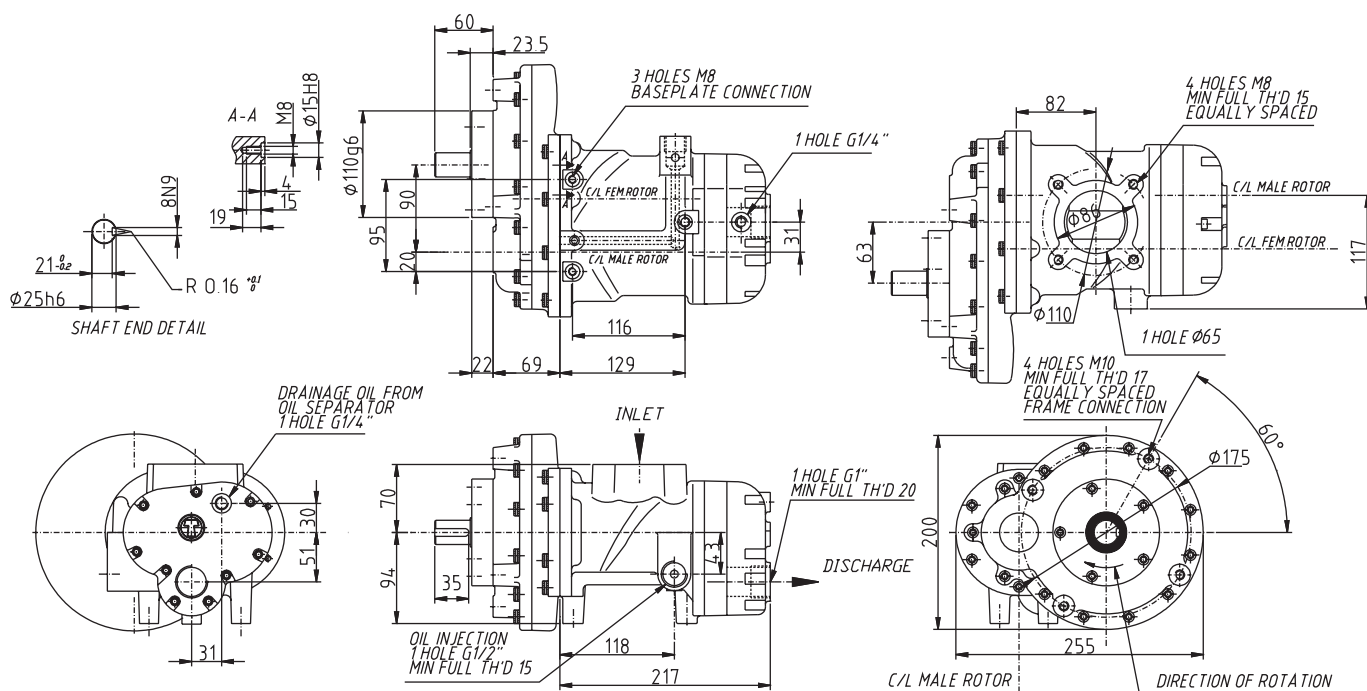
Weight: 20 kg - 44 lbs

Male rotor size: 74 mm

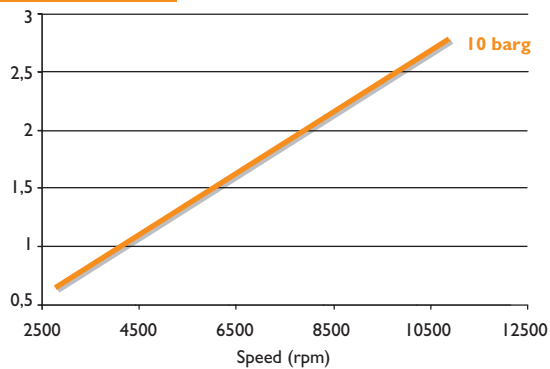


SCA8G-A

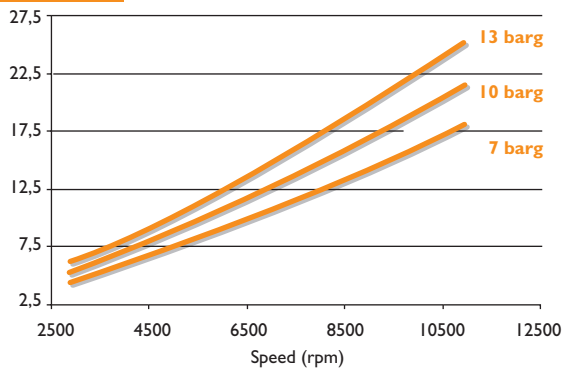
Outside view drawing



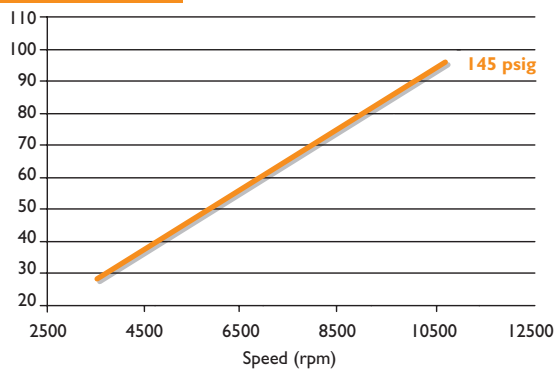
Data Tables

Air Capacity (m³/min)

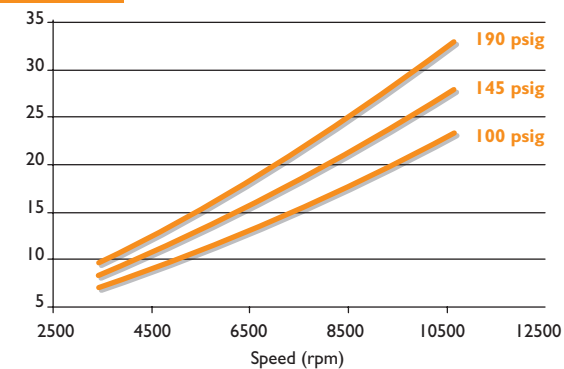
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 61,6 mm

Working pressure: min 3 barg/40 psig - max 15 barg/220 psig

Lobe combination: 5/6

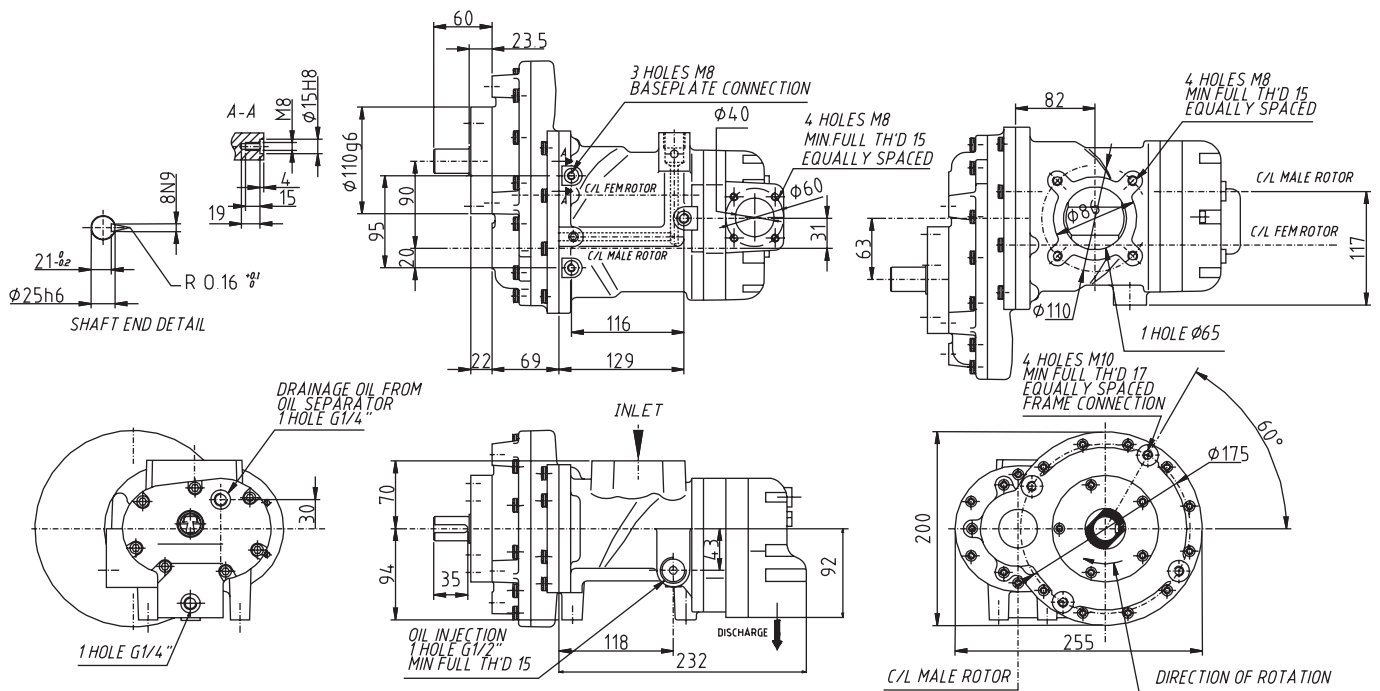
L/D: 1,65

Weight: 30 kg - 66 lbs

Male rotor size: 74 mm

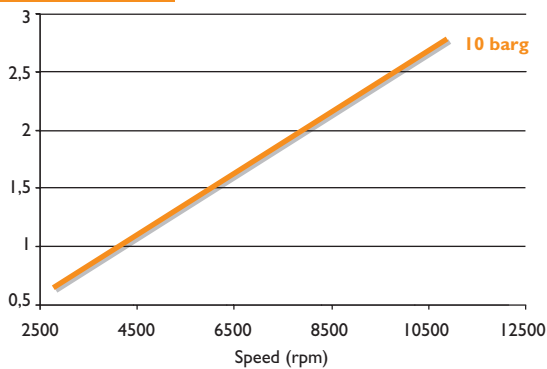


Outside view drawing

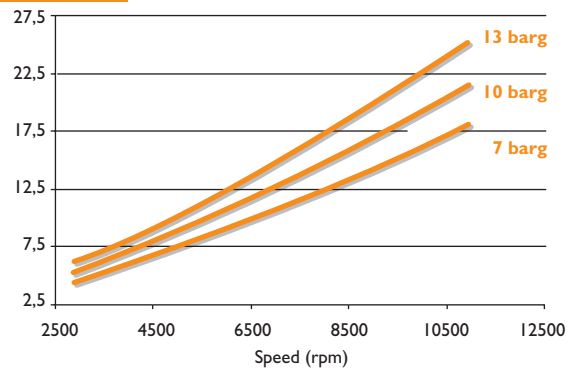


Data Tables

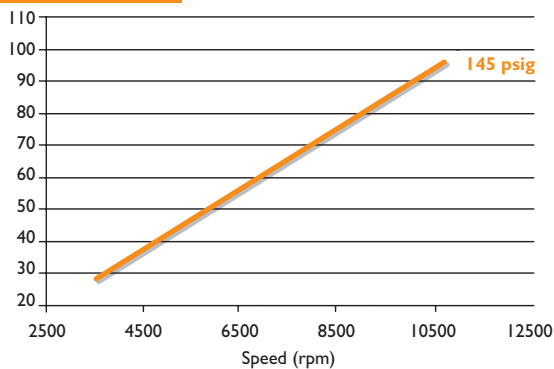
Air Capacity (m^3/min)



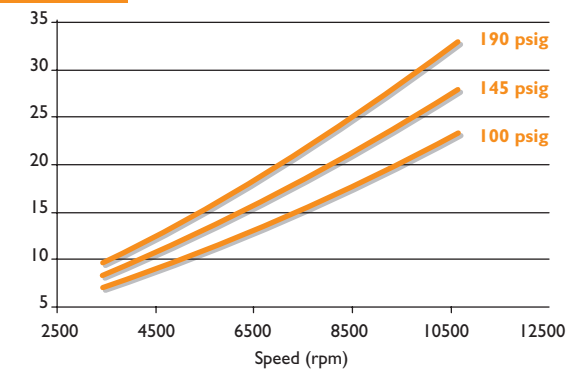
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 61,6 mm

Working pressure: min 3 barg/40 psig - max 15 barg/220 psig

Lobe combination: 5/6

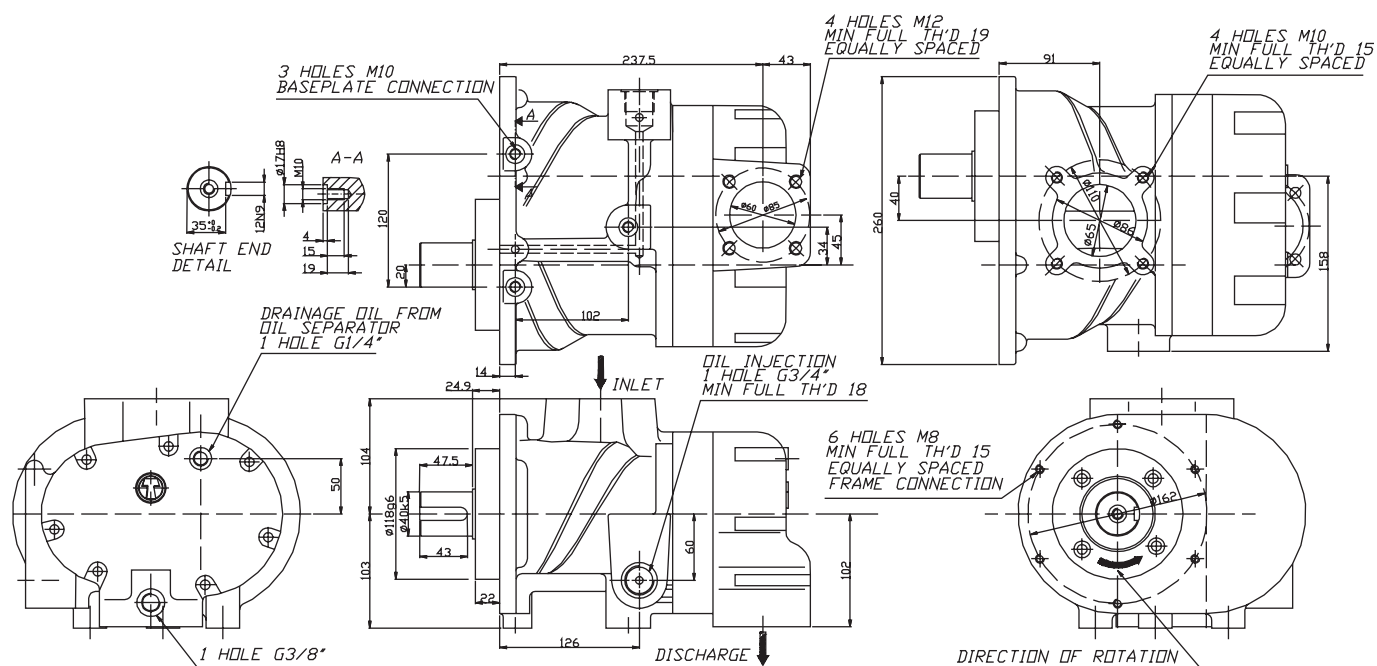
L/D: 1,65

Weight: 32 kg - 71 lbs

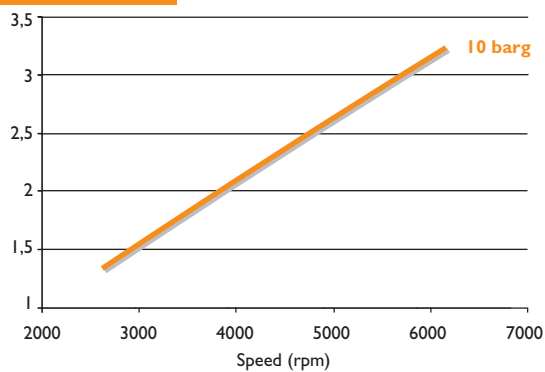
Male rotor size: 74 mm



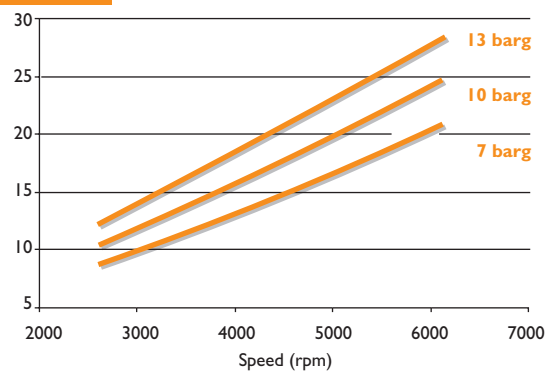
Outside view drawing



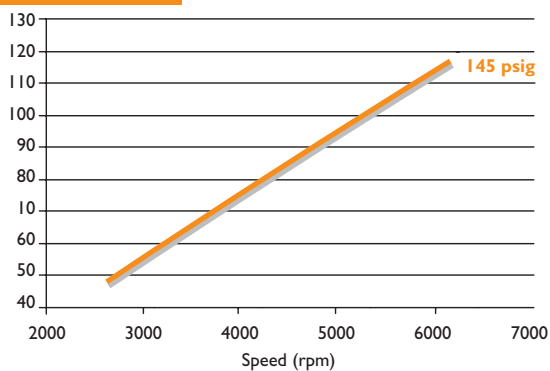
Data Tables

Air Capacity (m³/min)

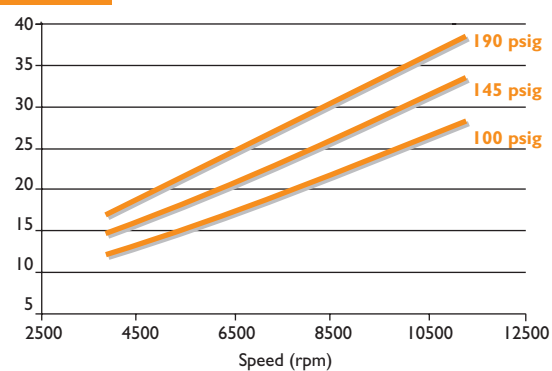
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 90,4 mm

Working pressure: min 3 barg/40 psig - max 15 barg/220 psig

Lobe combination: 5/6

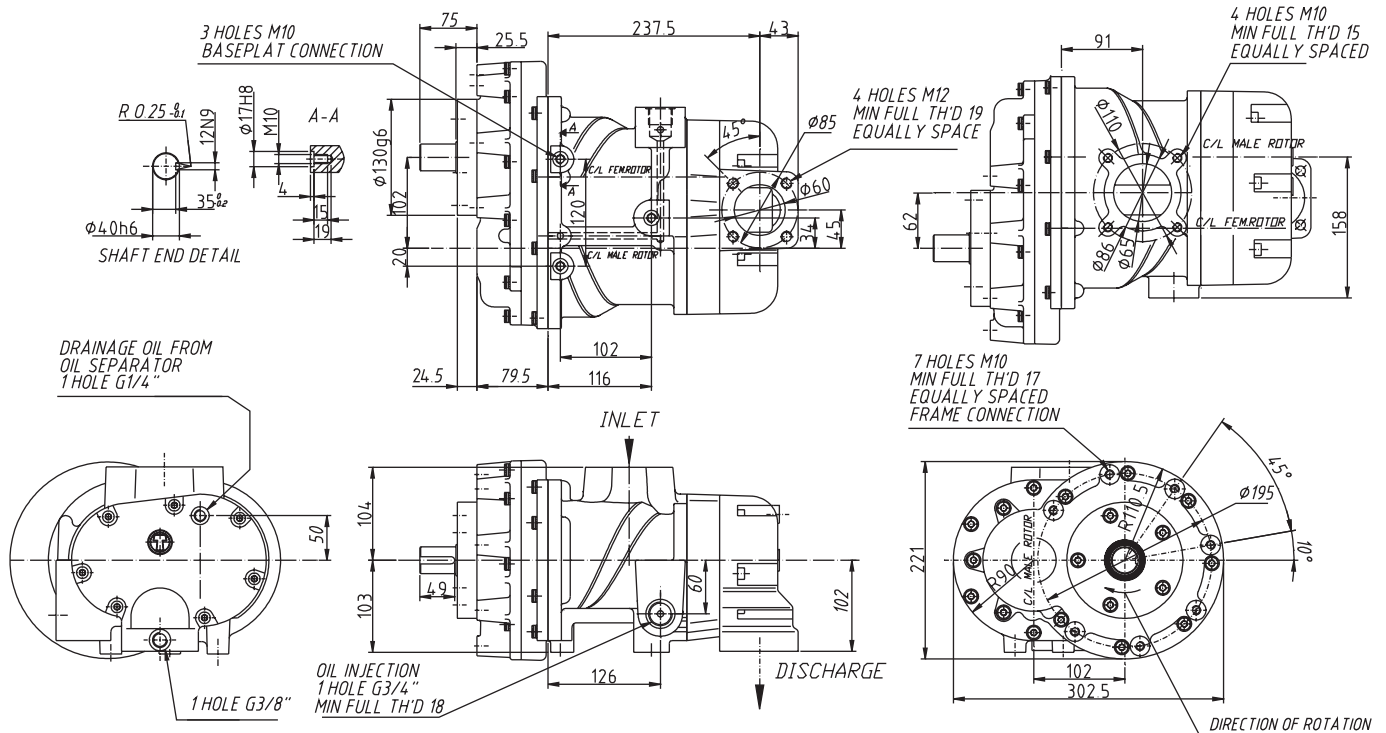
L/D: 1,09

Weight: 40 kg - 88 lbs

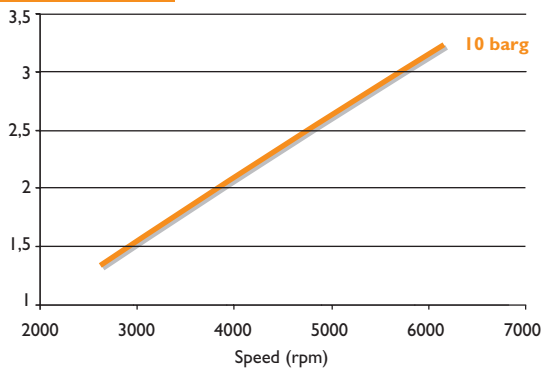
Male rotor size: 108,6 mm



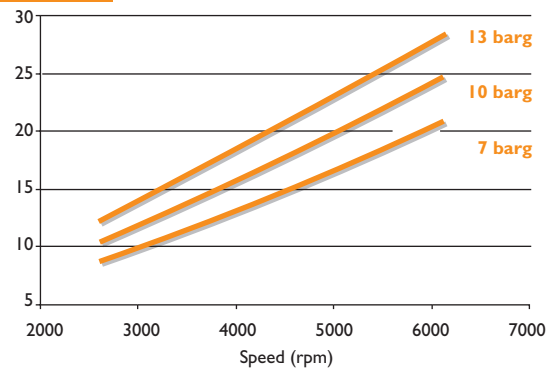
Outside view drawing



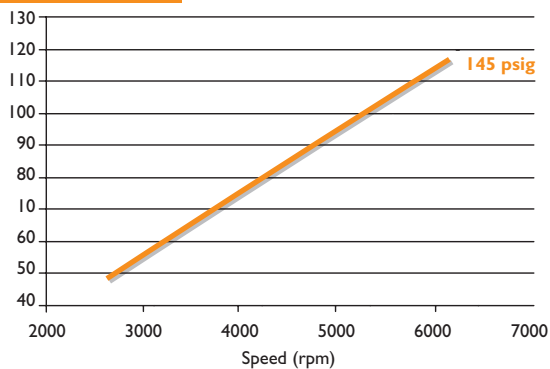
Data Tables

Air Capacity (m³/min)

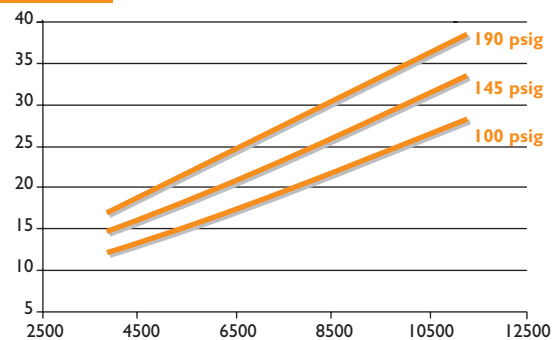
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 90,4 mm

Working pressure: min 3 barg/40 psig - max 15 barg/220 psig

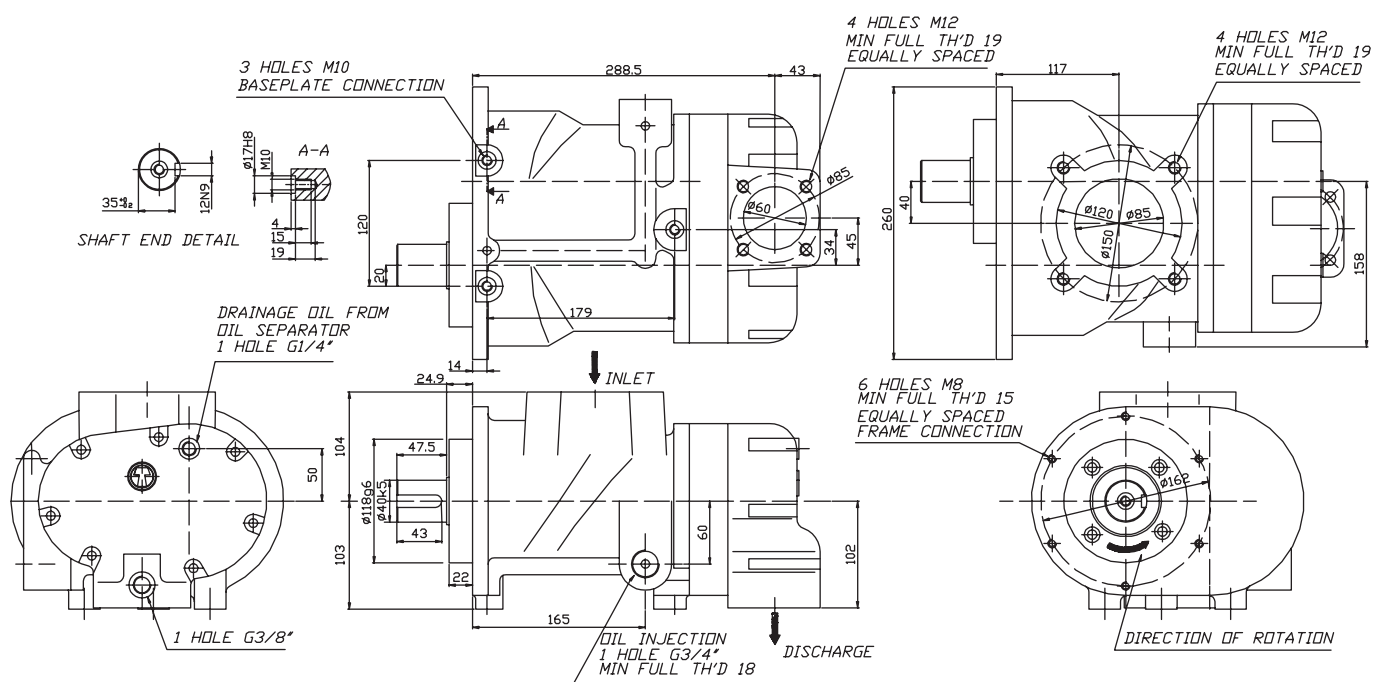
Lobe combination: 5/6

L/D: 1,09

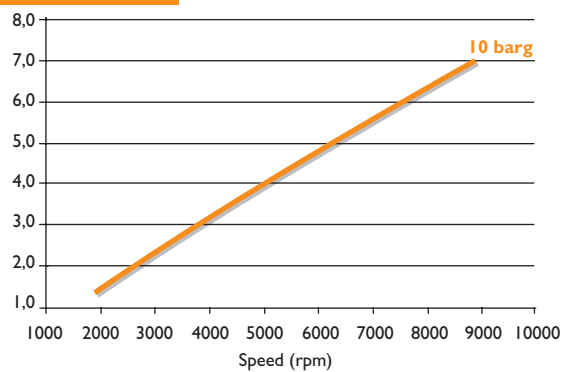
Weight: 61 kg - 134 lbs

Male rotor size: 108,6 mm

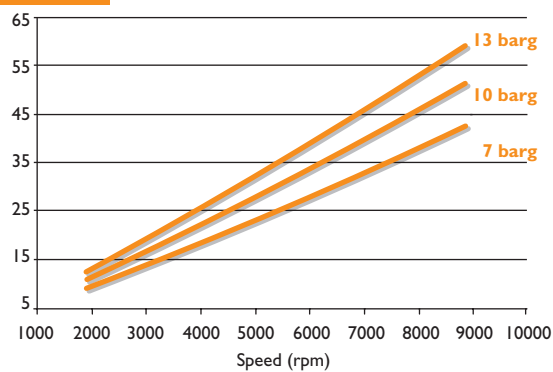
Outside view drawing



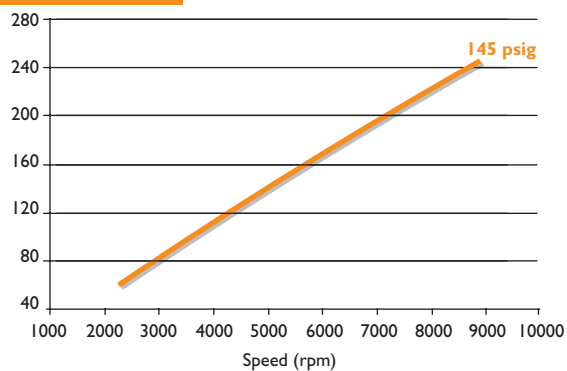
Data Tables

Air Capacity (m³/min)

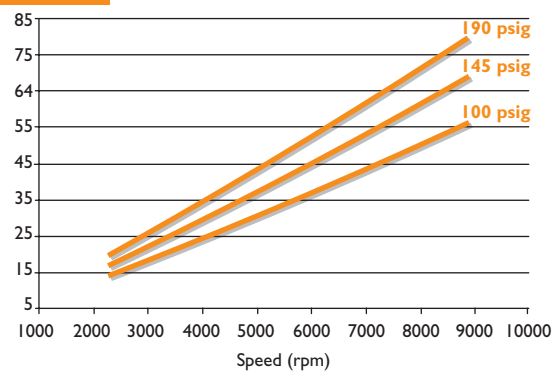
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 90,4 mm

Working pressure: min 3 barg/40 psig - max 15 barg/220 psig

Lobe combination: 5/6

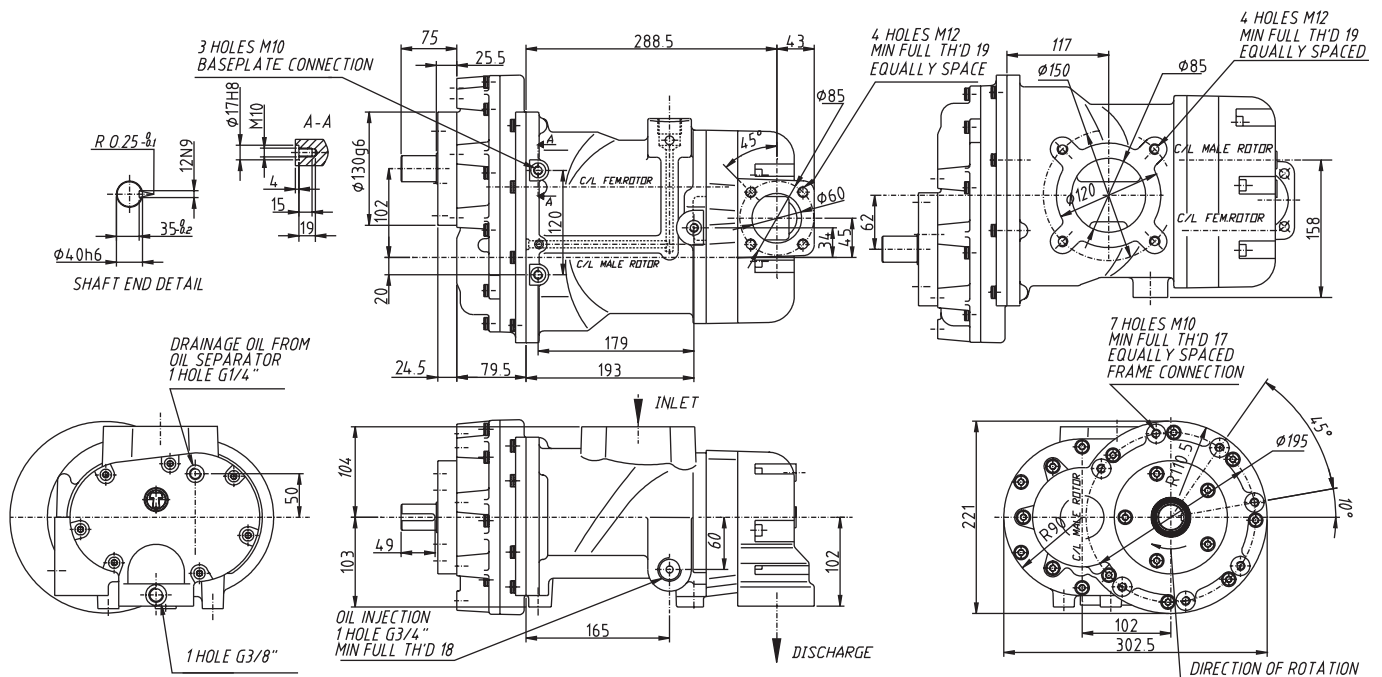
L/D: 1,56

Weight: 45 kg - 99 lbs

Male rotor size: 108,6 mm

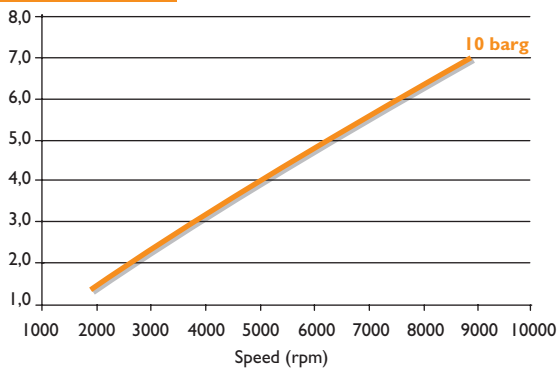


Outside view drawing

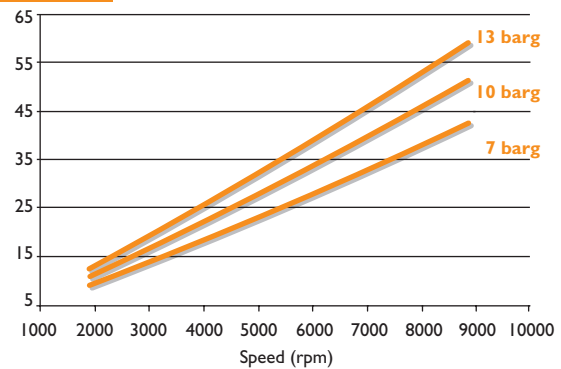


Data Tables

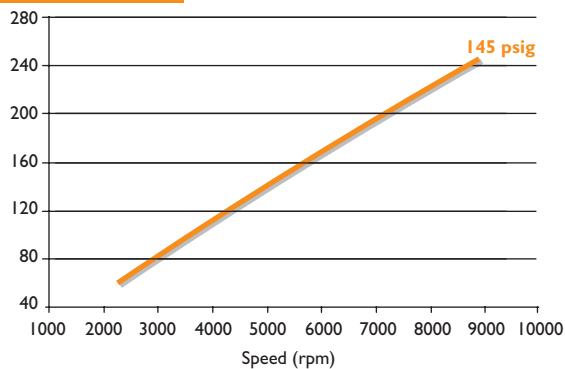
Air Capacity (m³/min)



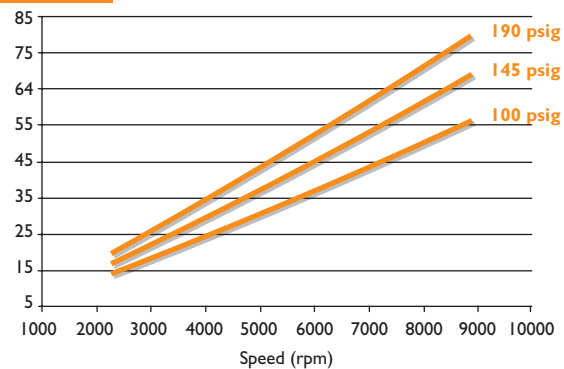
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 90,4 mm

Working pressure: min 3 barg/40 psig - max 15 barg/220 psig

Lobe combination: 5/6

L/D: 1,56

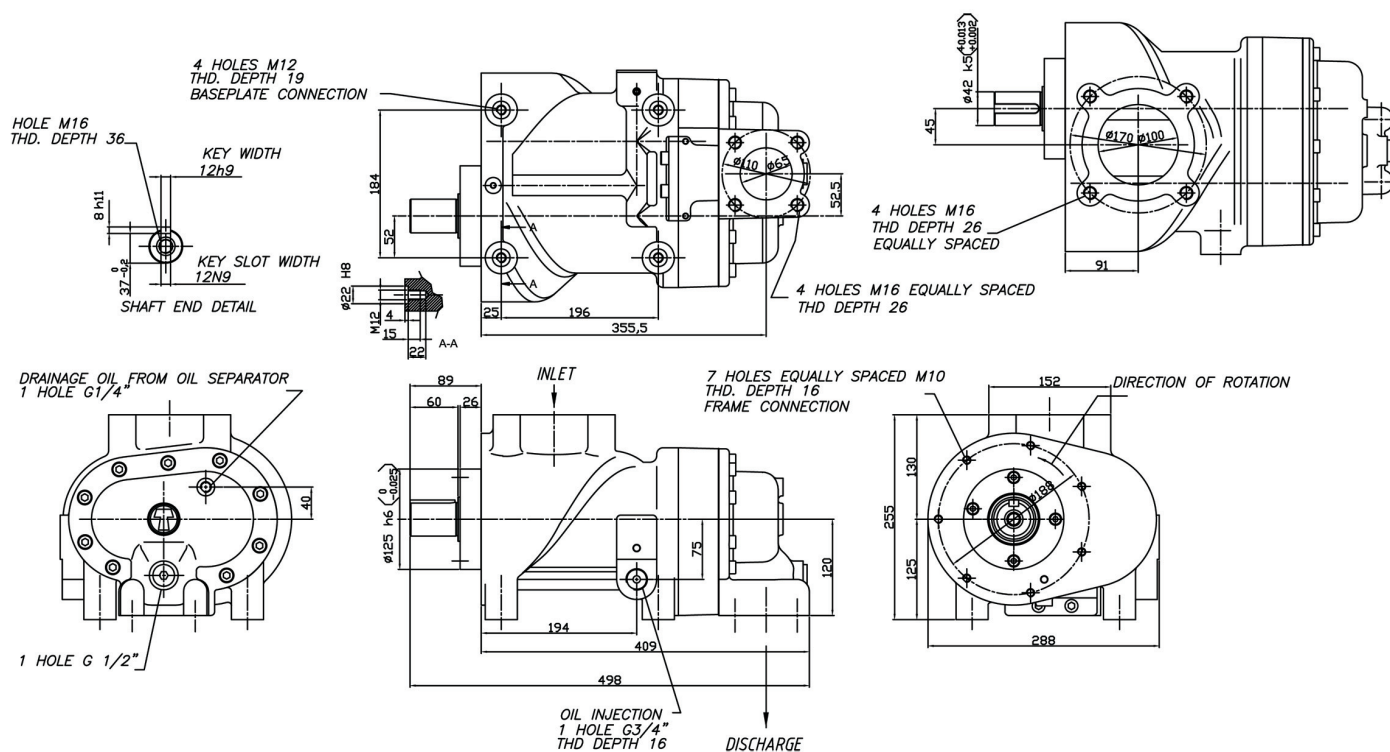
Weight: 66 kg - 146 lbs

Male rotor size: 108,6 mm

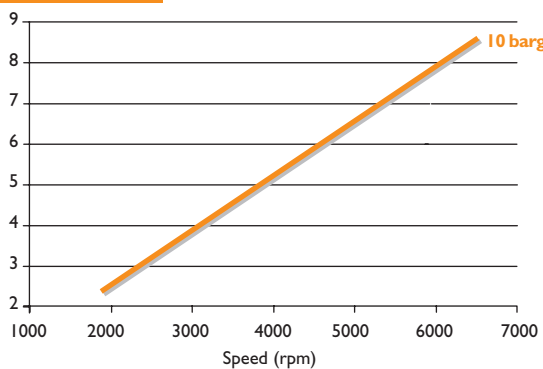


SCA13D-R

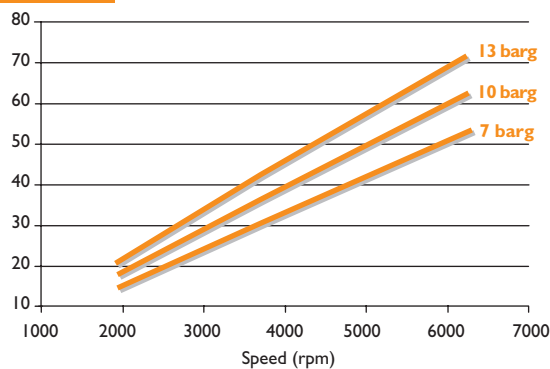
Outside view drawing



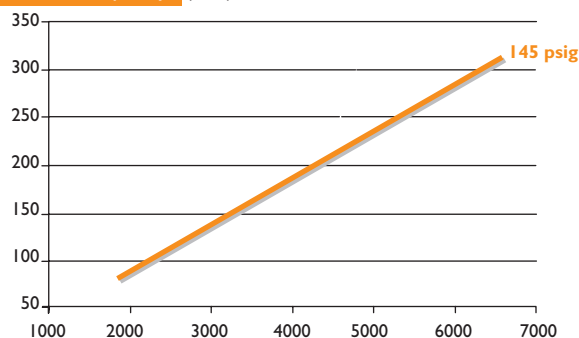
Data Tables

Air Capacity (m³/min)

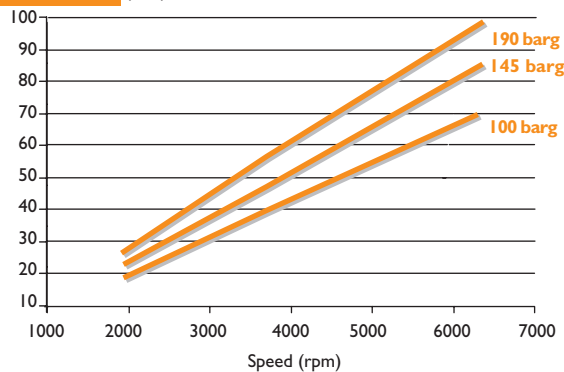
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 105 mm

Working pressure: min 3 barg/40 psig - max 15 barg/220 psig

Lobe combination: 5/6

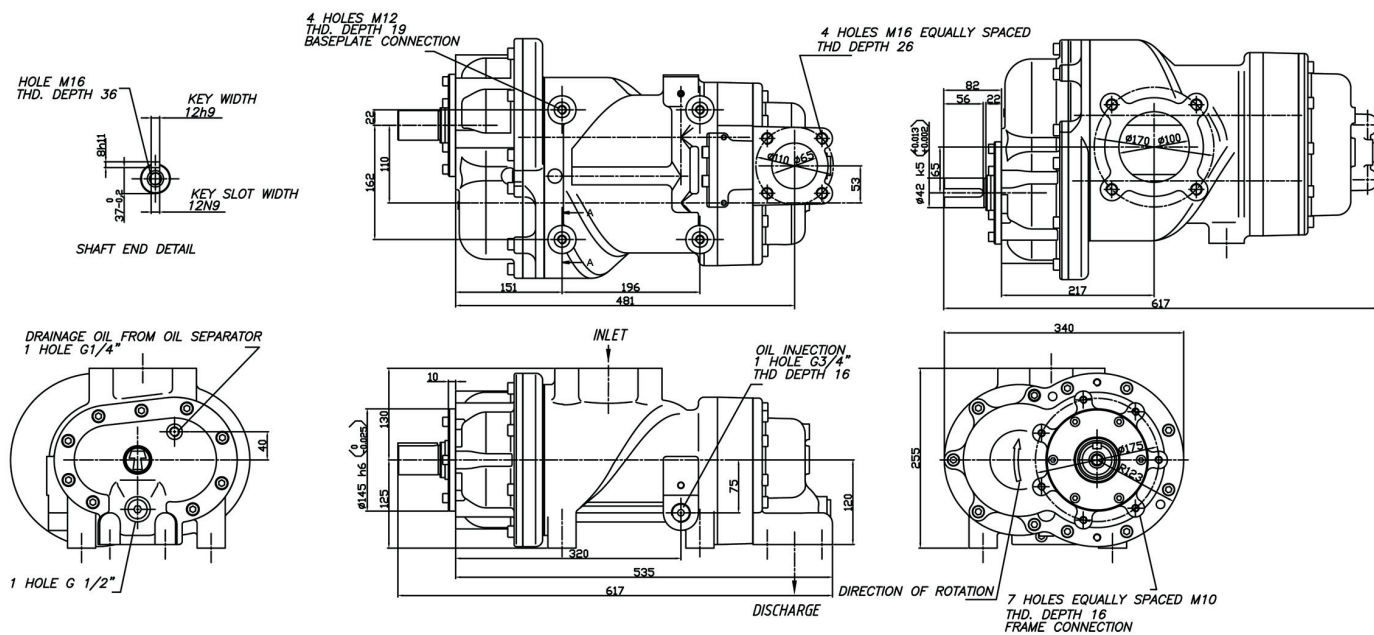
L/D: 1,70

Weight: 74 kg - 163 lbs

Male rotor size: 126 mm

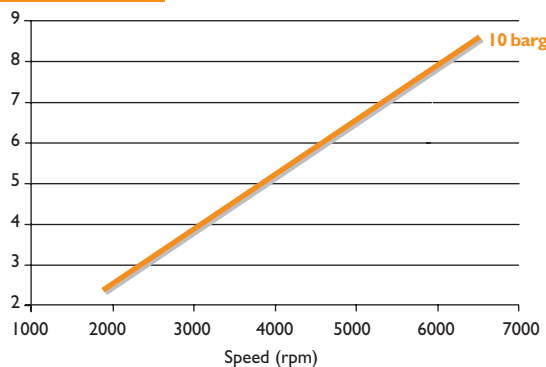


Outside view drawing

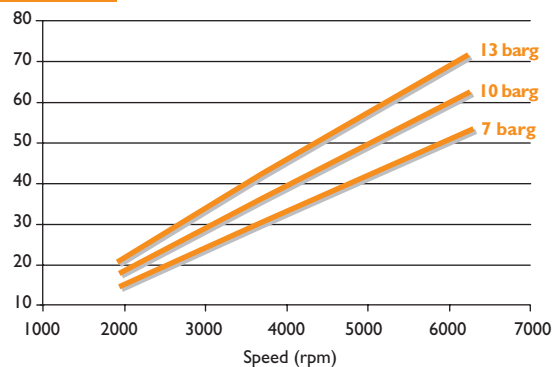


Data Tables

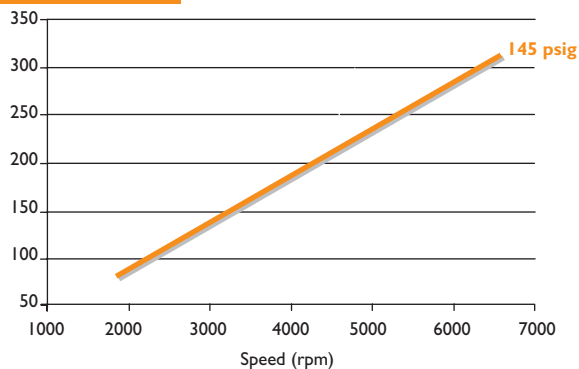
Air Capacity (m³/min)



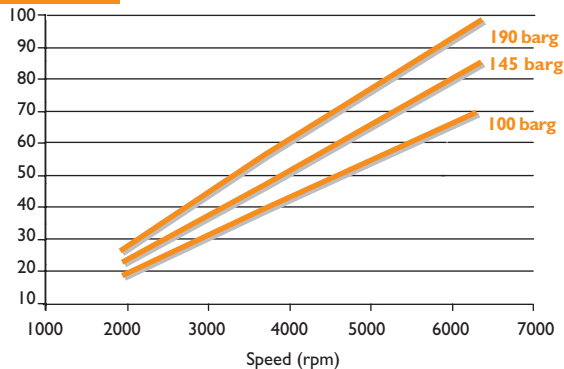
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 105 mm

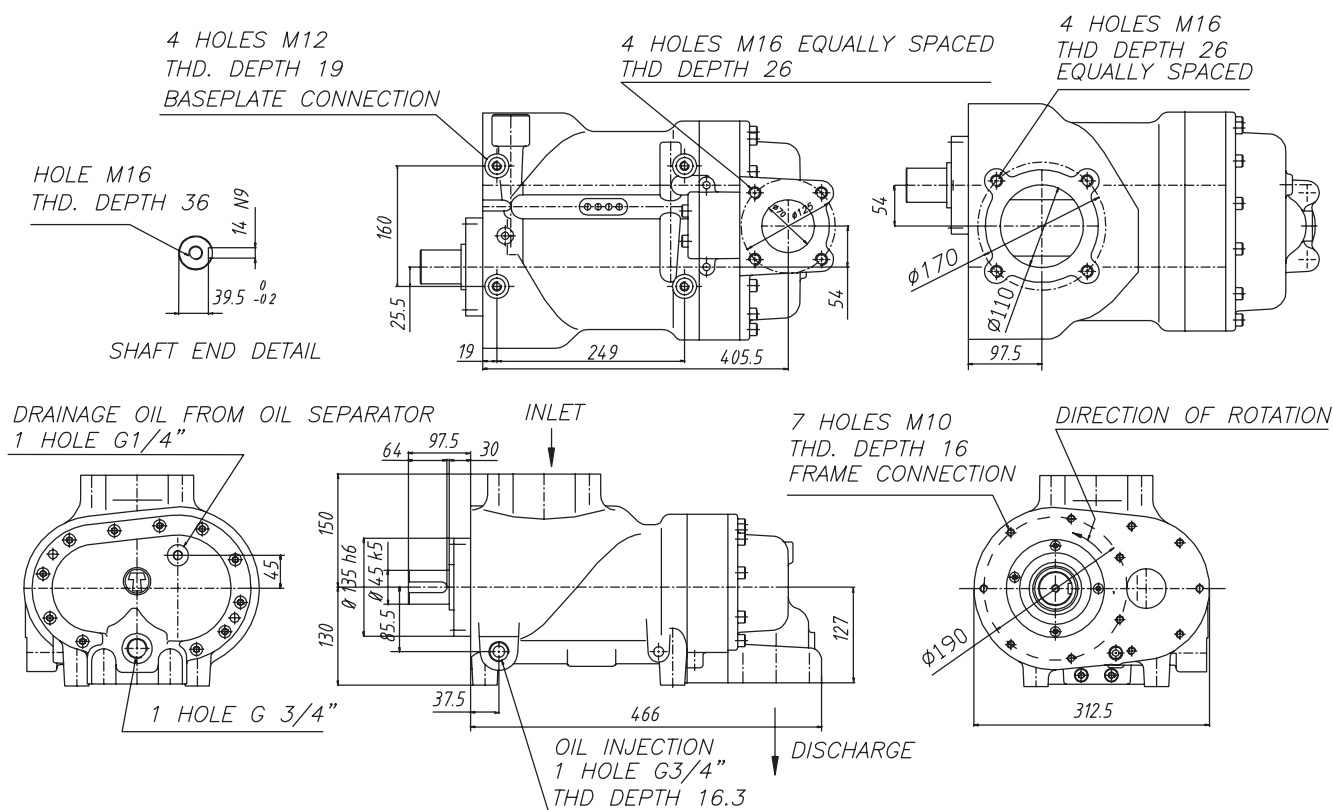
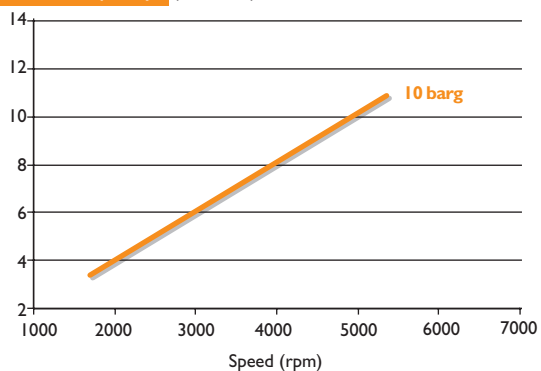
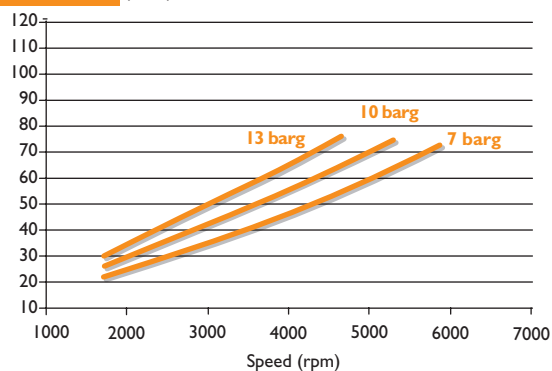
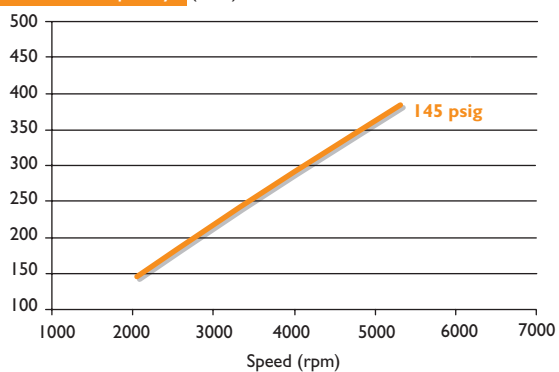
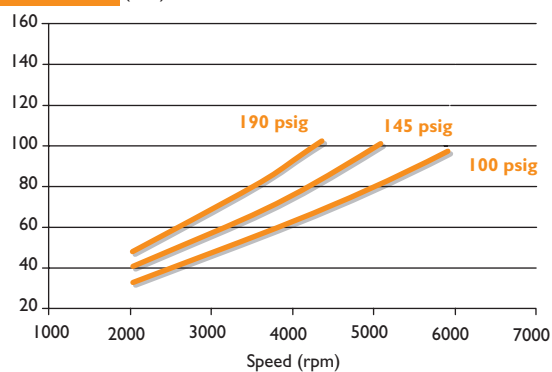
Working pressure: min 3 barg/40 psig - max 15 barg/220 psig

Lobe combination: 5/6

L/D: 1,70

Weight: 99 kg - 218 lbs

Male rotor size: 126 mm

**Outside view drawing****Data Tables****Air Capacity** (m³/min)**Power** (kW)**Air Capacity** (cfm)**Power** (HP)

Drive: Male

Female rotor size: 122,6 mm

Working pressure: min 3 barg/40 psig - max 15 barg/220 psig

Lobe combination: 5/6

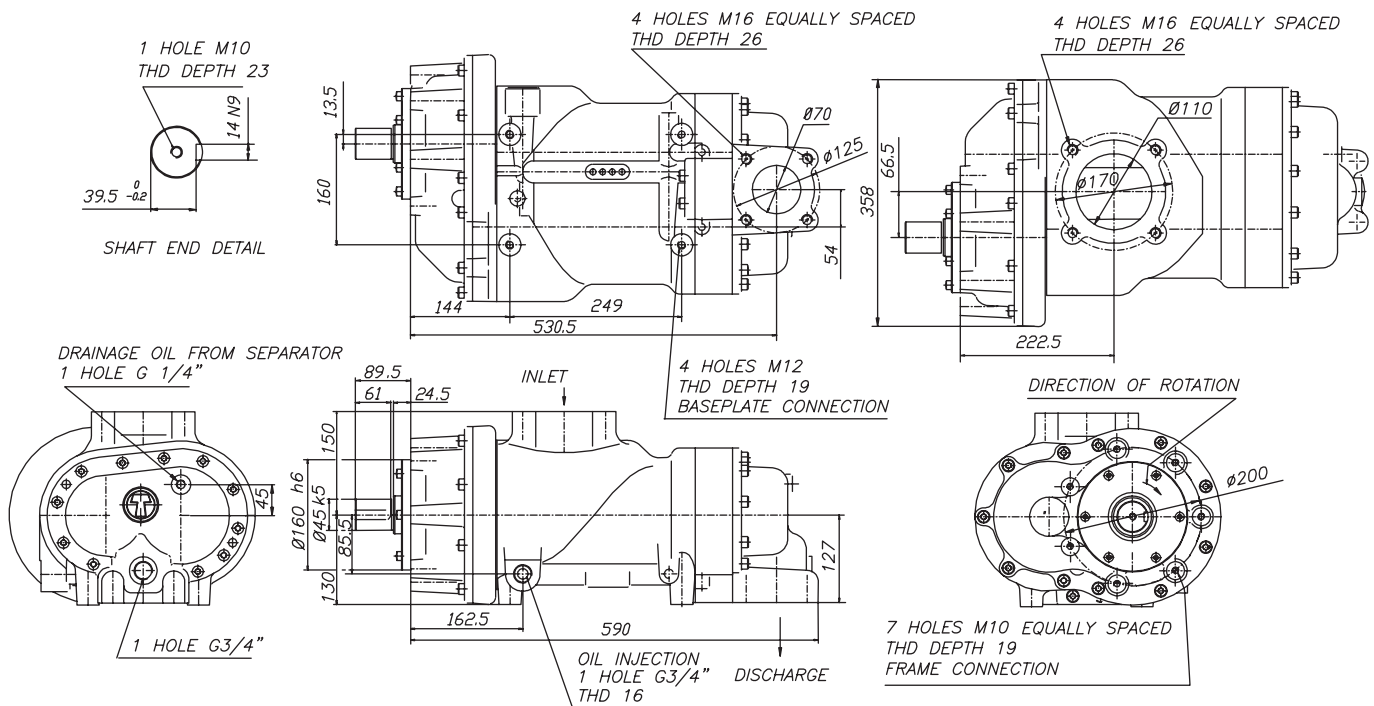
L/D: 1,70

Weight: 108 kg - 238 lbs

Male rotor size: 147,3 mm

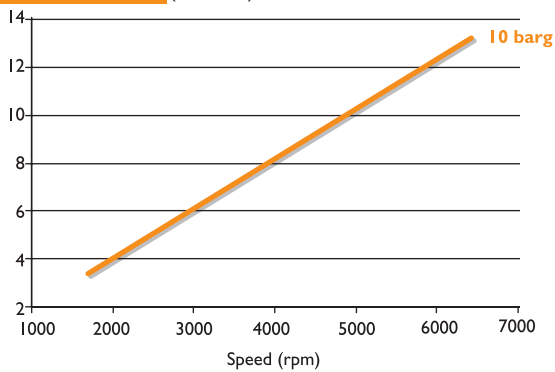


Outside view drawing

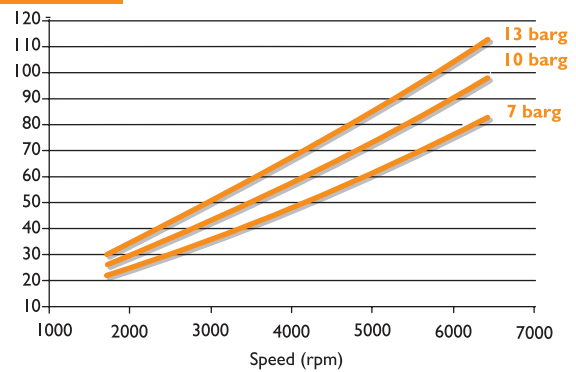


Data Tables

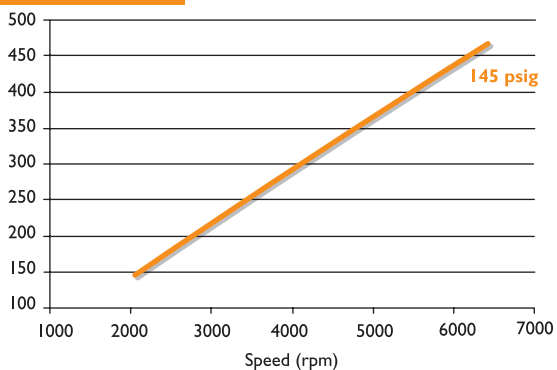
Air Capacity (m³/min)



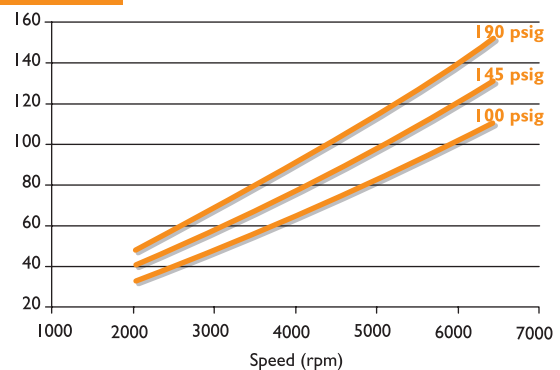
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 122,6 mm

Working pressure: min 3 barg/40 psig - max 15 barg/220 psig

Lobe combination: 5/6

L/D: 1,70

Weight: 140 kg - 309 lbs

Male rotor size: 147,3 mm



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