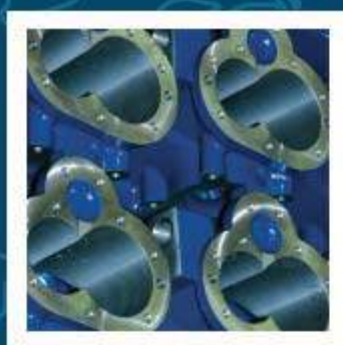




TM. C. S.p.A. Termomeccanica Compressori

SCI

NEW SCREW COMPRESSORS FOR AIR



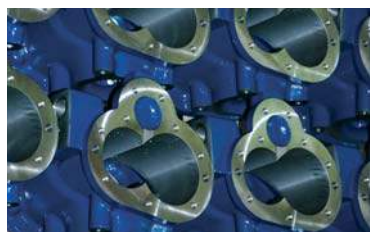
new -integrated oil injected screw compressor for air



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

Termomeccanica was established in the city of La Spezia, Italy in 1912. At its early stage, the Company's activity was specifically devoted to the design and manufacture of compression and pumping machines, for both industrial and marine applications. For over two decades Termomeccanica has been manufacturing screw compressors. According to the increase in technological demand, termomeccanica introduced in the early '90s a new line of air compressors of lubricated screw type.

TM.C. - Termomeccanica Compressori, today manufactures bare shaft and integrated compressors for assemblers of air compressor units, offering Quality Assurance to its customers. TM.C.'s System was certified to UNI EN ISO 98001 since 1995 by the Lloyd's Register Quality Assurance Authority. TM.C. has developed a range of Rotary Screw Air end which are recognized around the world for the unparalleled performance, long life and continuous innovation, today TM.C. is the world leader.



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SCI

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

SCA serie

Screw compressors

COMPACT serie

semi integrated screw compressors

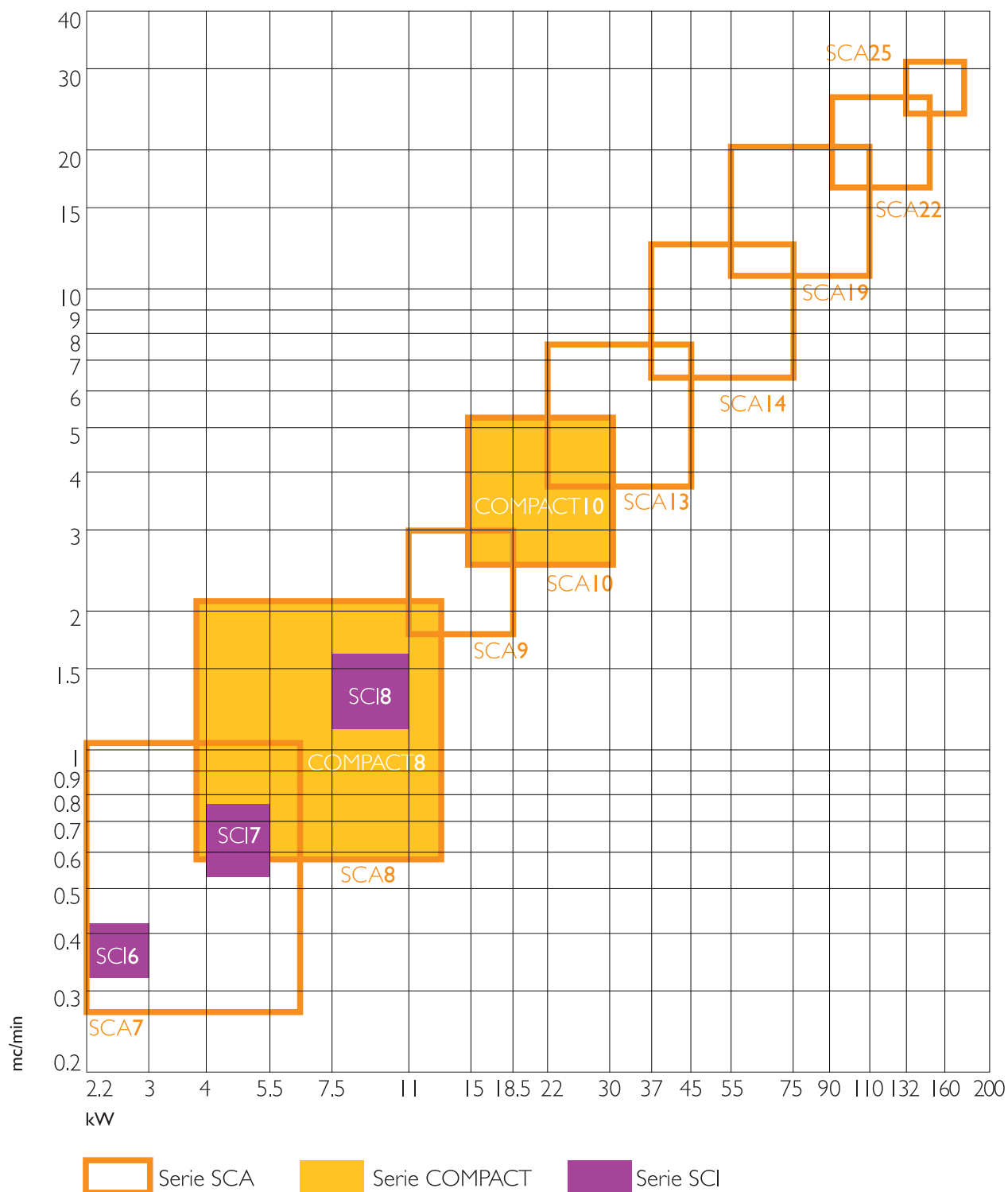
SCI serie

integrated screw compressor

SCFI serie

fully integrated screw compressor

TM.C. Range of products



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.

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.

Air filter

The quality of the filters used in the integrated series "SCI" ensures the performance and increases the reliability of the compressor unit.

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 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 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 TM.C screw compressors are equipped with, top quality bearings that provide a high bearing capacity and assure long bearing life.

Oil separator

In the "SCI" series the oil separation occurs in two stages: the first stage of mechanical oil separation takes place inside the compressor, the finer second stage occurs in coalescence oil removing elements. Micro-fibres separate the oil drops from compressed air. The separate oil, in big drops, is sent back to the compressor lubricating circuit.

TM.C. Valves

The performance of a compressor is influenced by the quality of its valves. All TM.C. "SCI" compressors are fitted with valves specifically designed to ensure economical operation and high reliability.



SCI series

Product features

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)
- PTFE double lip seal

Integration

- Thermostatic valve
- Minimum pressure valve
- Intake regulator
- Oil filter
- Air filter
- Oil separator filter
- Solenoid valve
- Oil recovery system

Sizes

SCI6

SCI6B - SCFI6G
only for SCI6 sizes max. pressure 10 barg (145 psig)

SCI7

SCI7BM - SCI7FM

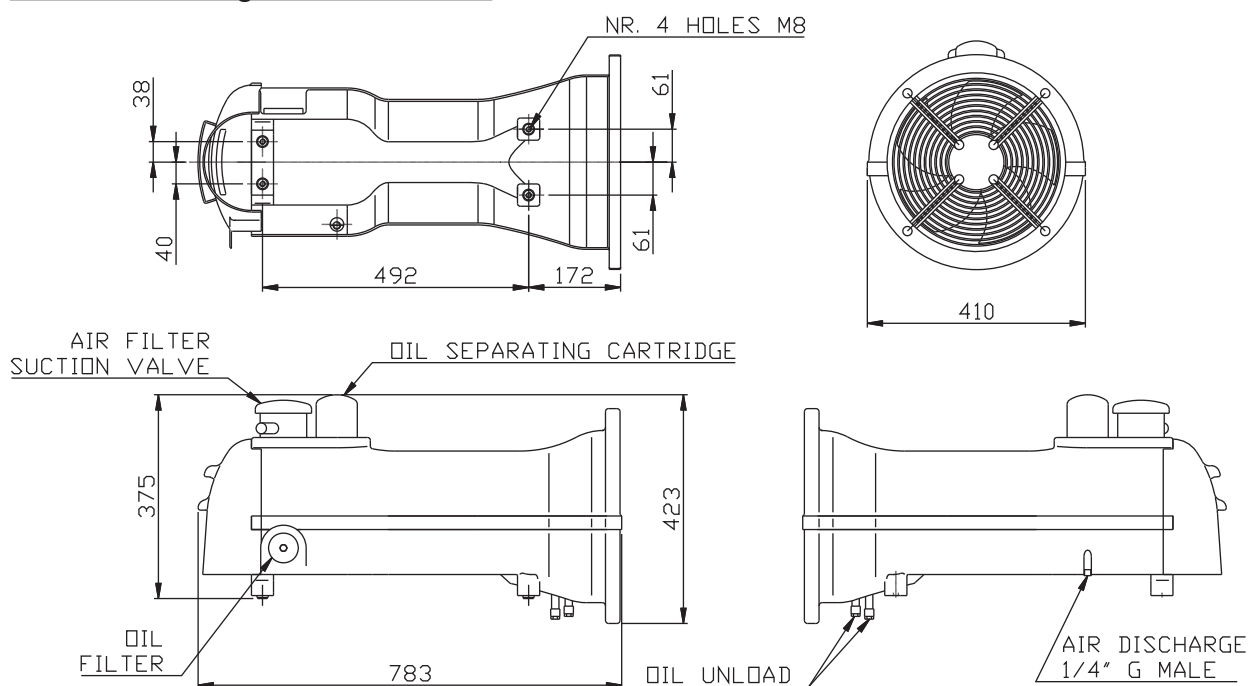
SCI8

SCI8BM - SCI8FM

B (belt) belt driven
G (gear) gearbox incorporated
BM Base mounted
FM Flange mounted

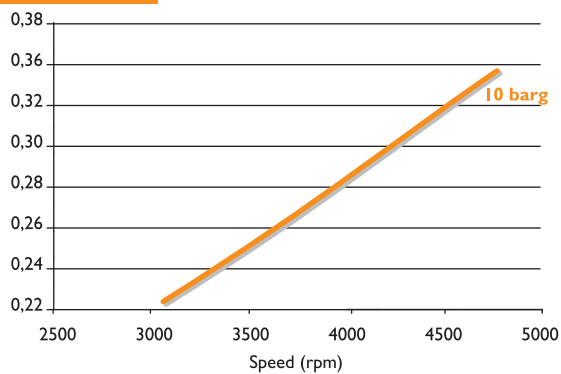


Outside view drawing

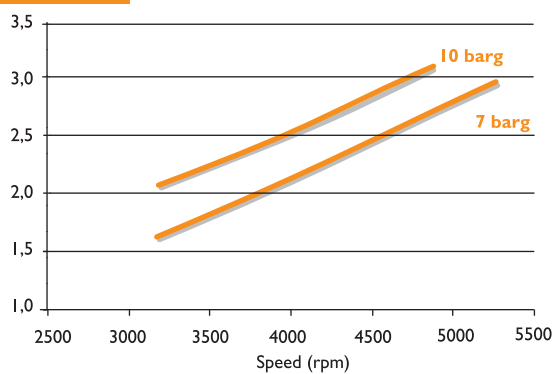


Data Tables

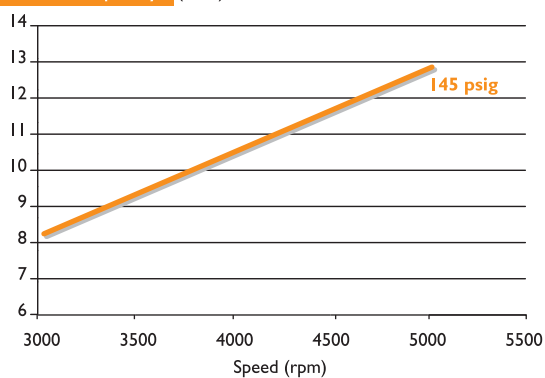
Air Capacity (mc/min)



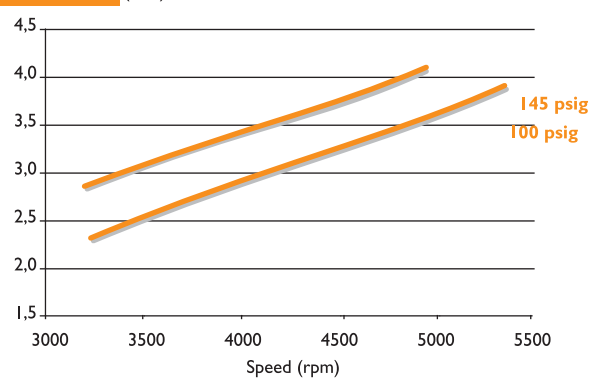
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 47,5 mm

Working pressure: min 3 barg/40 psig - max 10 barg/145 psig

Lobe combination: 5/6

L/D: 1,25

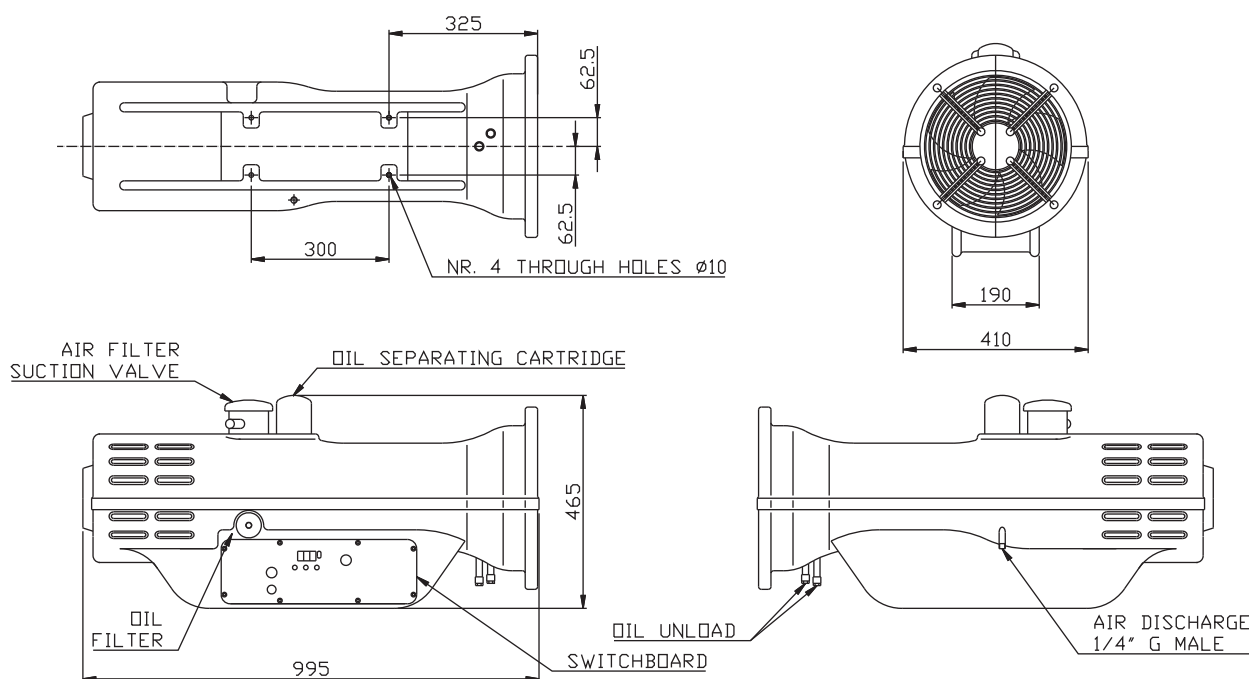
Weight: 33 kg - 73 lbs

Male rotor size: 57 mm



SCFI6G

Outside view drawing



Data Tables

Pressure	Power	Air Capacity
7 barg 100 psig	2,2 kW 3 HP	0,32 mc/min 11,4 cfm

Pressure	Power	Air Capacity
7 barg 100 psig	3 kW 4 HP	0,42 mc/min 15 cfm

Pressure	Power	Air Capacity
10 barg 145 psig	2,2 kW 3 HP	0,25 mc/min 9,1 cfm

Pressure	Power	Air Capacity
10 barg 145 psig	3 kW 4 HP	0,36 mc/min 12,4 cfm

Drive: Male

Female rotor size: 47,5 mm

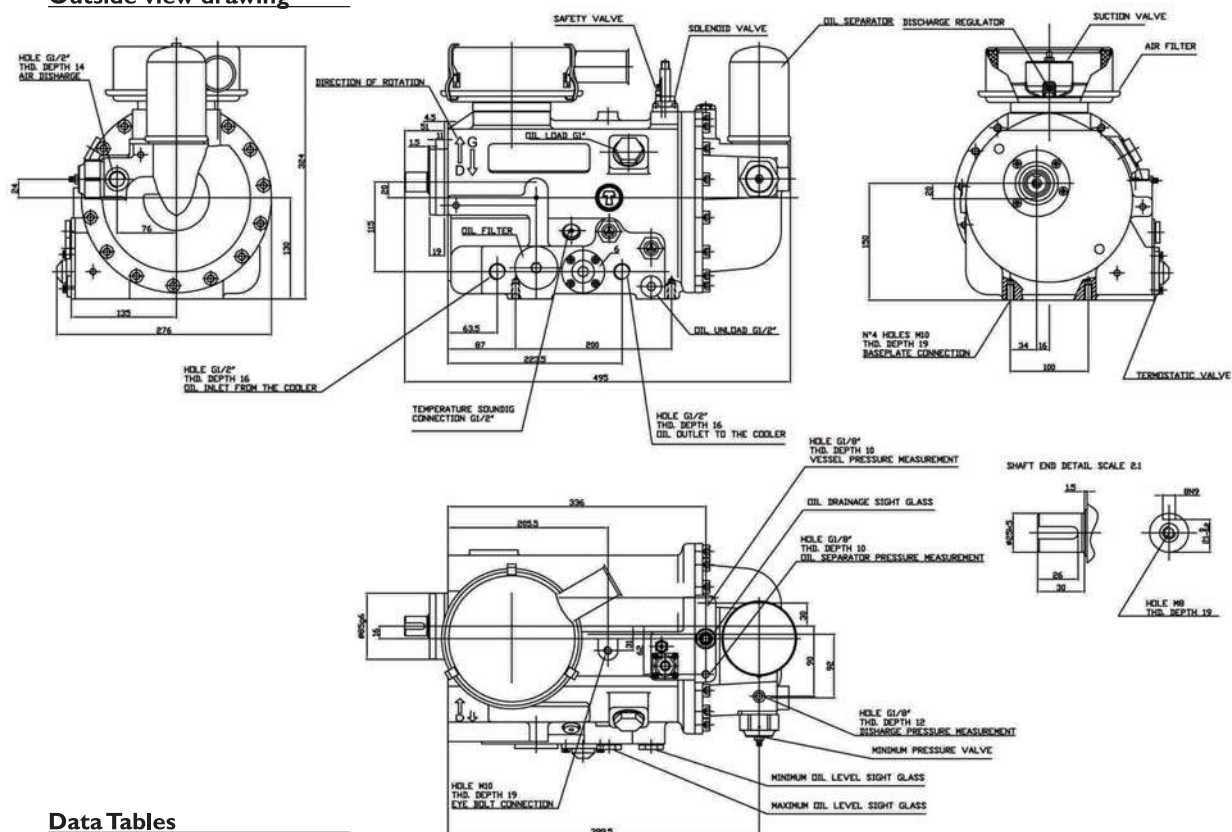
Working pressure: min 3 barg/40 psig - max 10 barg/145 psig

Lobe combination: 5/6

L/D: 1,25

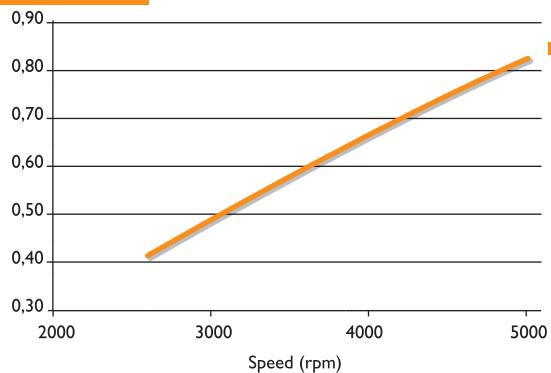
Weight: 60 kg - 132 lbs

Male rotor size: 57 mm

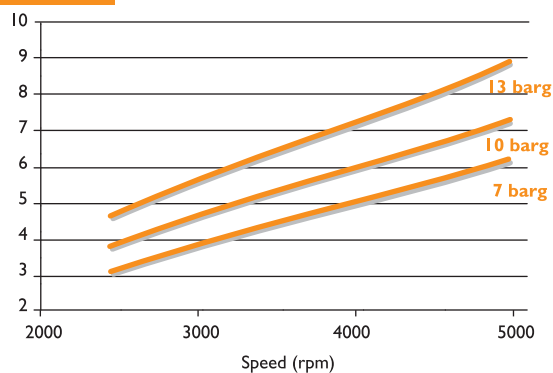


Data Tables

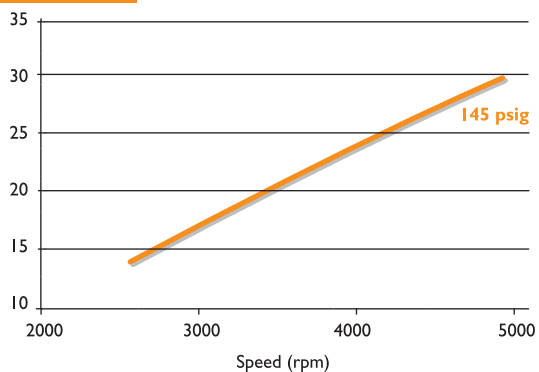
Air Capacity (mc/min)



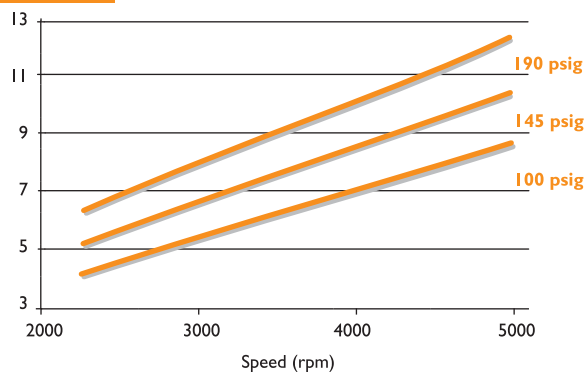
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 61,6mm

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

Lobe combination: 5/6

L/D: 1,25

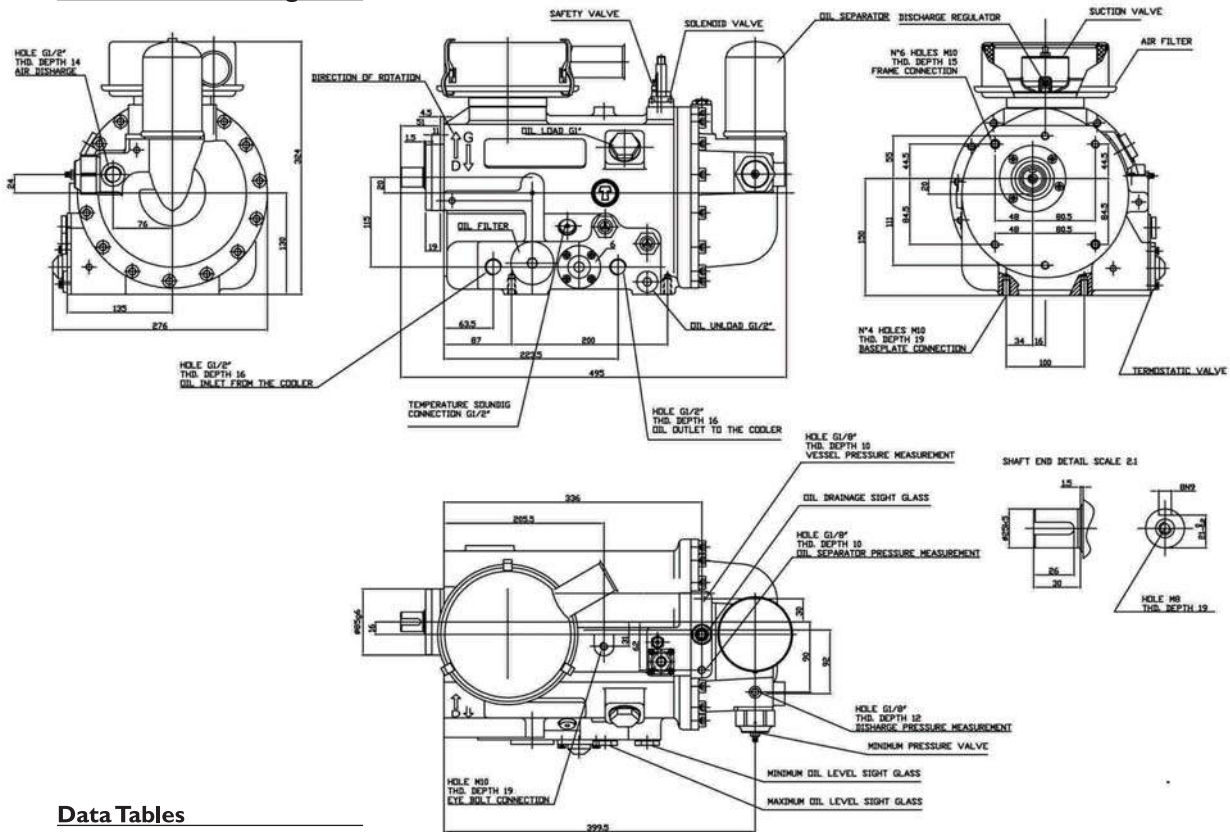
Weight: 56 kg - 123 lbs

Male rotor size: 74 mm



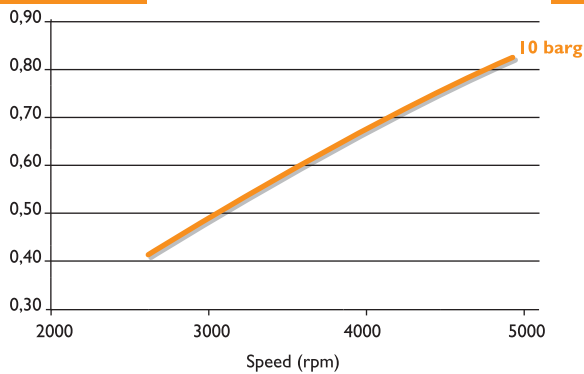
SCI7FM

Outside view drawing

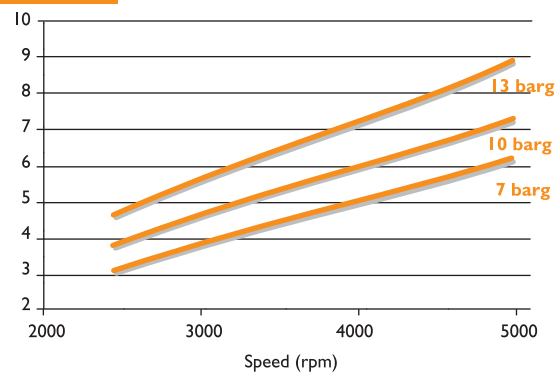


Data Tables

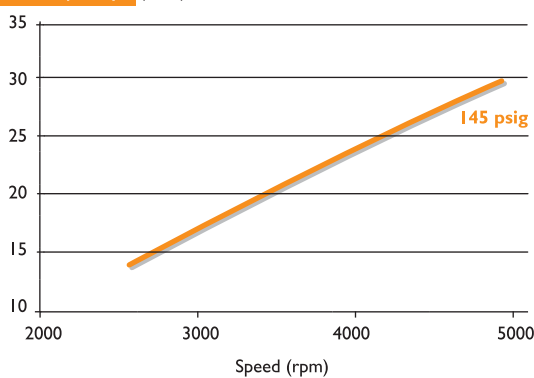
Air Capacity (mc/min)



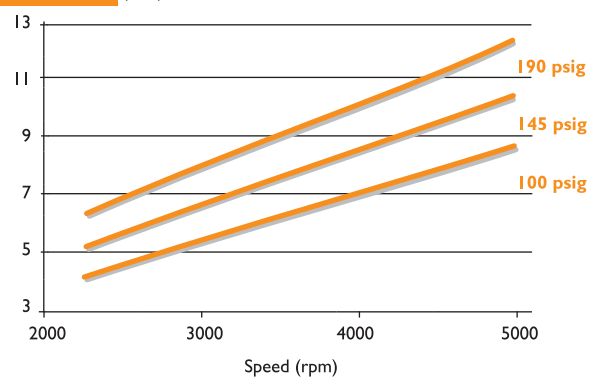
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 61,6mm

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

Lobe combination: 5/6

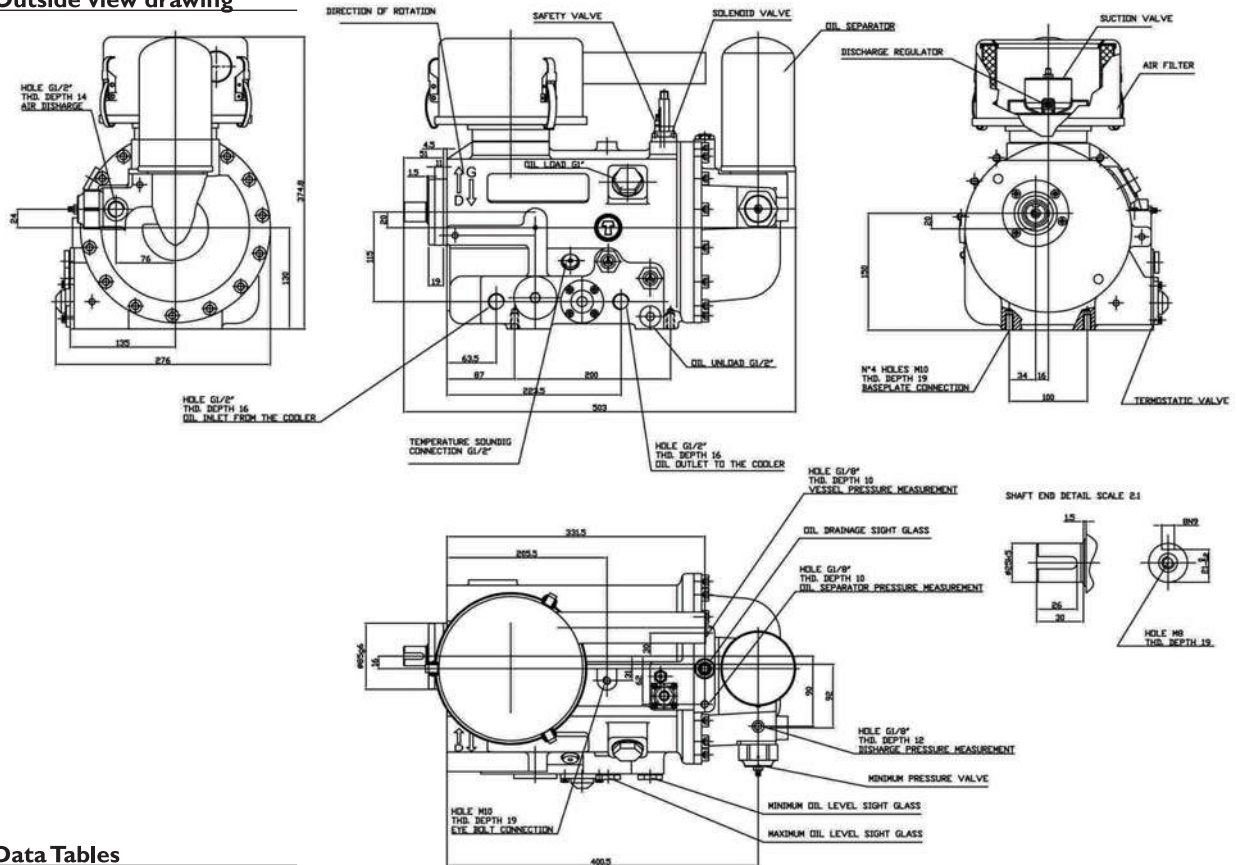
L/D: 1,25

Weight: 56 kg - 123 lbs

Male rotor size: 74 mm

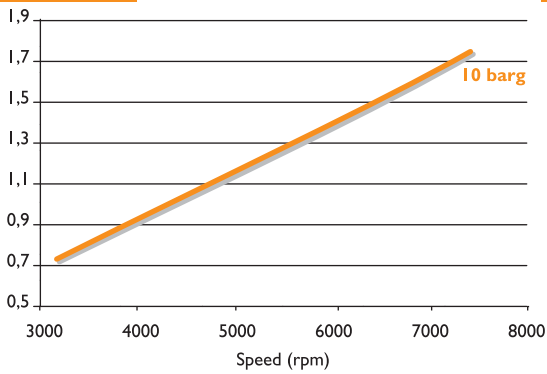


Outside view drawing

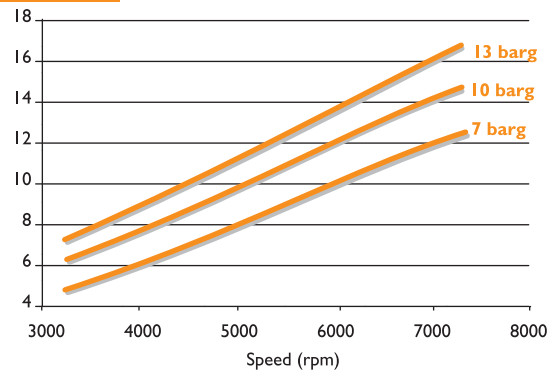


Data Tables

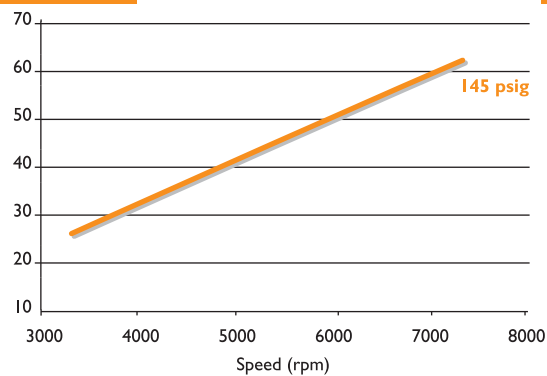
Air Capacity (mc/min)



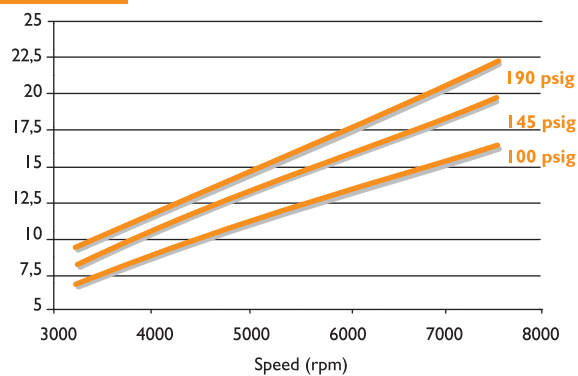
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 61,6mm

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

Lobe combination: 5/6

L/D: 1,65

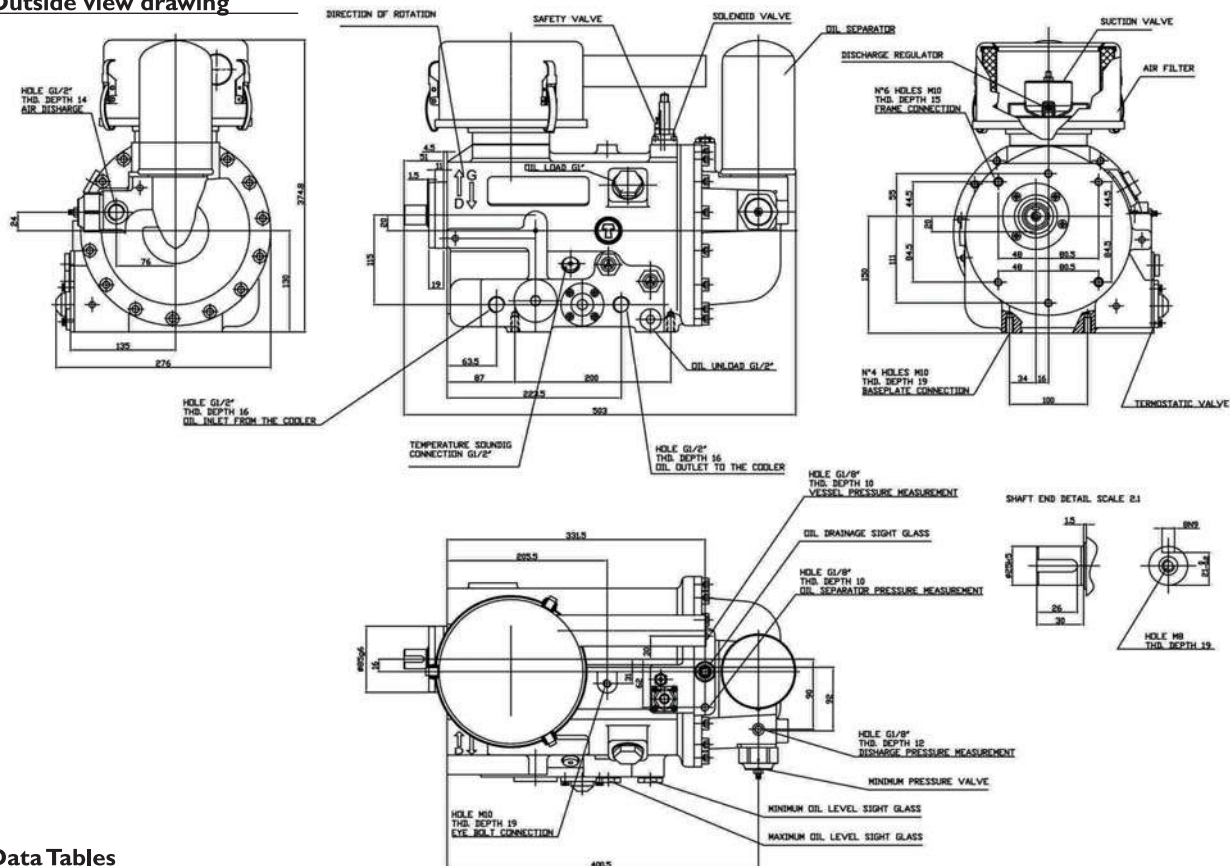
Weight: 57 kg - 126 lbs

Male rotor size: 74 mm



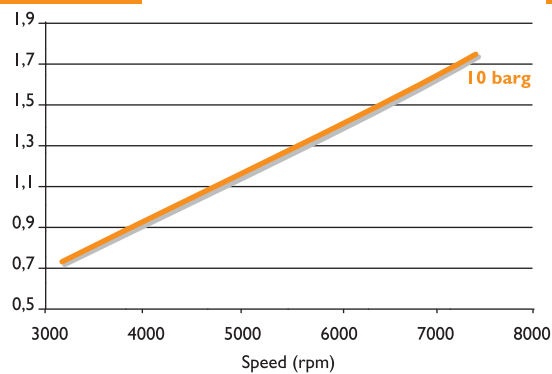
SCI8FM

Outside view drawing

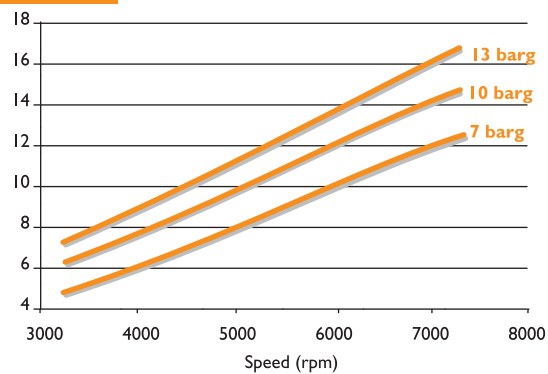


Data Tables

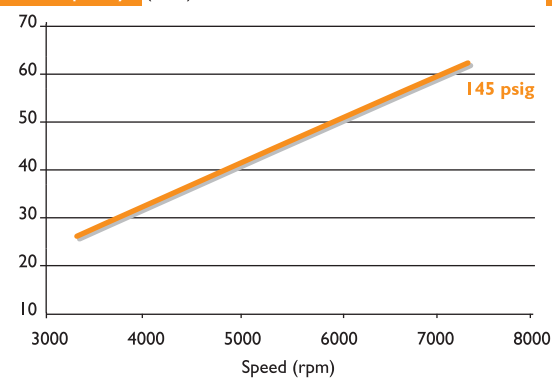
Air Capacity (mc/min)



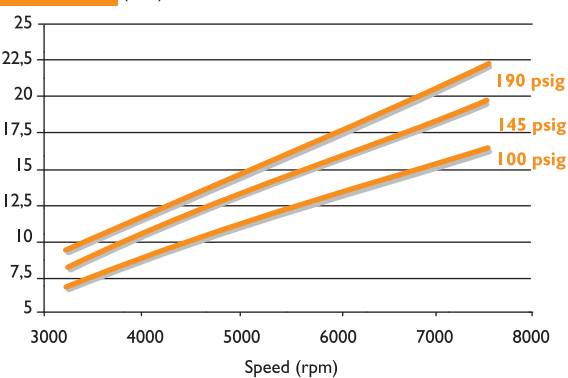
Power (kW)



Air Capacity (cfm)



Power (HP)



Drive: Male

Female rotor size: 61,6mm

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

Lobe combination: 5/6

L/D: 1,65

Weight: 57 kg - 126 lbs

Male rotor size: 74 mm



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