

Dresser-Rand HSE

Reciprocating Process Compressor

The Dresser-Rand HSE reciprocating process compressor provides a reliable solution where full-time, medium-volume service is a requirement. Its proven performance, balanced design, and wide range of cylinder selections make the HSE an excellent choice for long-term process gas service.

A Reliable Performer

The HSE is a horizontal, balance-opposed, reciprocating compressor designed for long-term process gas service. Designed to API-618 specifications, the HSE is available in either a 9- or 11-inch. With the ability to handle a variety of drivers with either direct or V-belt connections, the HSE can be fitted with either lubricated or non-lubricated cylinders from 2.125 to 28 inches (54 to 711 mm) in bore diameter.



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Much like all our reciprocating process compressors, the HSE is engineered to our highest standards, ensuring long-lasting reliability. Sized to provide a reliable solution where requirements demand full-time performance in medium volume service, the HSE offers an alternative to larger, more costly compressors or shorter stroke, high-speed compressors.

Designed and Built with Precision

With its fine-grain, cast iron frame, the HSE is engineered to provide maximum support for the running gear and related components. The rigid frame design minimizes vibration and provides for low moments and minimal foundation requirements. Forged from high tensile strength steel alloy, the crankshaft is fully stress-relieved and heat-treated. The bearing journals and crankpin are ground with precision and polished to meet exacting tolerances.

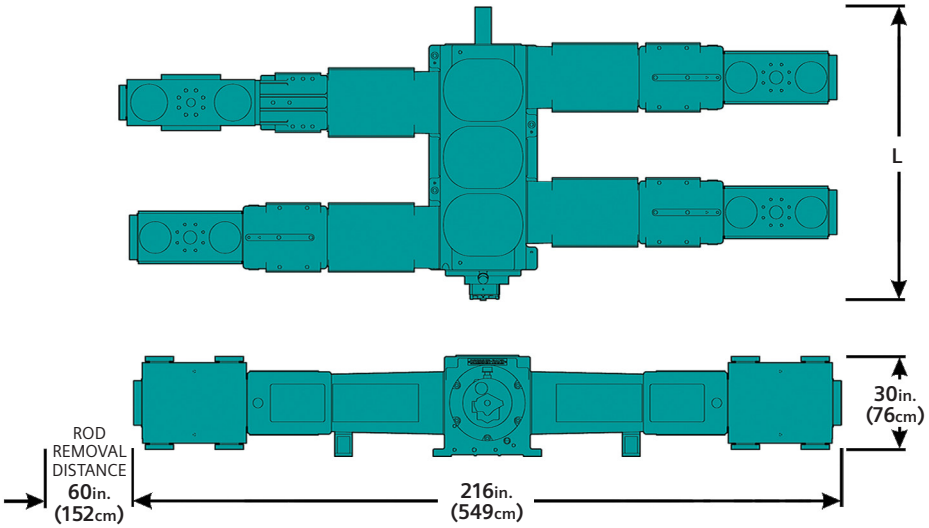
Rugged, precision-machined aluminum main and crankpin bearings are generously sized for best run-in and long-lasting service. All bearings are force-lubricated to API-618 specifications. Connecting rods are die-forged steel with rifle-drilled passages for positive lubrication of the crosshead pin and bushing. The standard crossheads are nodular iron, equipped with adjustable aluminum shoes at both the top and bottom. Cast steel crossheads are also available.

Outstanding Cylinder Design and Selection

With experience in a variety of services, our cylinders provide outstanding reliability. Our engineering expertise ensures that each cylinder provides maximum performance and reliability with minimum maintenance cost. Cylinder materials include cast iron, nodular iron, cast steel, fabricated carbon steel, fabricated stainless steel, and forged steel. Most cylinders are available for either lubricated or non-lubricated service.

Specifications

Maximum HP	786 (586 kW)
Standard strokes	9 to 11 inch (229 or 279 mm)
Number of throws	2 or 4
Cylinder bore range	2.125 to 28 inch (54 to 711 mm)



HSE - Typical Length (L) Dimension

2-Throw Units: 48 inch (122 cm)
4-Throw Units: 90 inch (229 cm)

Dimensions

Dimensions provided are typical, and are basis API Type B distance pieces. For API Types C & D distance pieces, add 20 inches (51 cm) to the width dimension, and 10 inches (25 cm) to the rod removal distance.

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