

REDESIGNED KVG ENGINE POWER HEAD

INGERSOLL RAND KVG ENGINES

Overview

The Ingersoll Rand (IR) KVG engine has been a staple in the oil and gas industry for over 60 years. Working closely with our customers, our engineers redesigned the KVG power cylinder head to increase flow, reduce temperatures, and improve overall reliability. The design improvements were made using flow and combustion computer modeling software coupled with over 180 years of power engine manufacturing expertise.

Years of field trial testing confirm higher reliability, longer head life, and reduced emissions. Data shows that upgrading all the heads on an engine will improve efficiency and lower running temperatures.

Cooper stocks many sizes of fully assembled heads (valves, seats, guides, springs, keepers, etc.), or customers may purchase seats and guides only. Discounts apply for total engine retrofits. Custom valve and seat angles are available for almost any application.

Redesigned KVG Power Head

What has changed

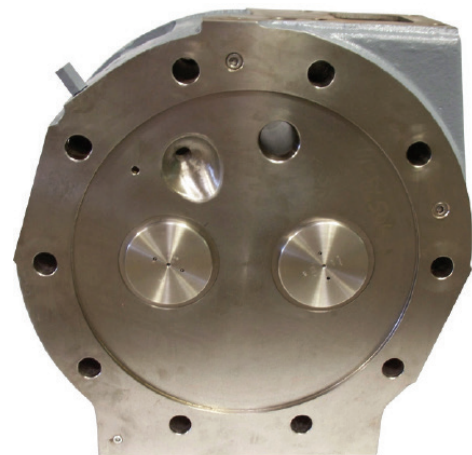
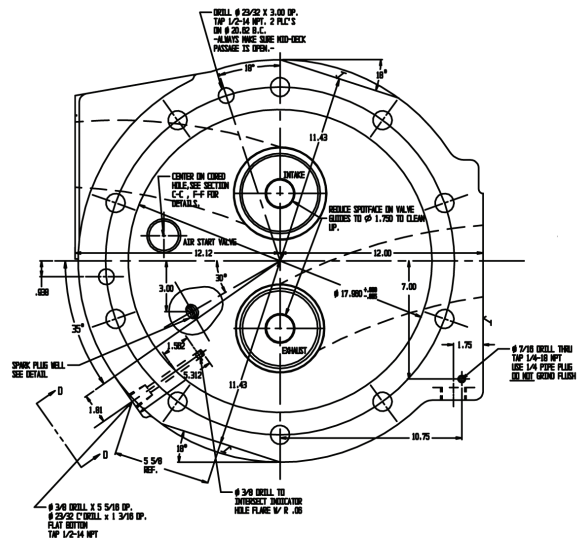
- > Created a head with less flow restriction
- > Lowered head temperatures
- > Reduced the risk of cracking and premature failure

How the changes improve performance

- > Repositioned air start valve core
- > Increased bore behind intake and exhaust valve seat areas
- > Added area between lower to upper jacket core
- > Added fillet for strength to lower jacket

Reengineered for Better Performance

- > Increased air flow
- > Cooler temperatures
- > Reduced risk of cracking
- > Greater structural integrity



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