

## **RECOMMENDED COMPRESSOR SPECIFICATION FOR INDUSTRIAL APPLICATIONS**

The compressor shall be a Blackmer model \_\_\_\_\_ or equal. It shall be a vertical, reciprocating, oil-free type that prevents oil from entering the cylinder bore or the gas stream. The compressor shall have crosshead construction with a lubricated crosshead running in an extra-long crosshead guide. The compressor frame and running gear shall be lubricated by a frame mounted oil pump and full-flow oil filter. When oil-free gas is specified, the compressor shall have two sets of self-adjusting non-metallic packing to prevent oil migration from the crankcase into the cylinder bore. The mounting of the packing in the crosshead guide must be such that no portion of the piston rod can travel through both sets of rod packing. The crankcase shall be weather-tight and vented to atmosphere.

If liquid cooling is required, both the cylinder body and cylinder head are to be liquid cooled.

Pistons shall be single piece construction and removable from the cylinder without the need to remove the cylinder body. Piston rings shall be non-metallic of the heavy-duty, step-cut design with expanders. Rider rings or wear bands are not acceptable.

Ductile iron shall be used for all cast pressure containing parts.

Gaskets are not acceptable to seal between gas and water passages or at joints between gas containing parts; O-rings shall be used at these surfaces.

Needle wrist pin bearings are preferred to bushings if non-reversing rod-loads are anticipated in the operating regime. Vendor is to state in his proposal if non-reversing rod-loads are anticipated.

Compressor valves manufactured by Cook-Manley and Hoerbiger are preferred.

The compressor shall be painted with one coat of primer and one separate finish coat as a minimum.

Belt guards, when specified, shall be 14 gauge steel minimum.