



6. LARGE CAPACITY PUMPS

MAXIMA-K 2K series single-stage liquid ring vacuum pump model DV11002K-K

Introducing the MAXIMA-K 2K series maximum efficiency, single-stage liquid ring vacuum pump.

- ◆ Reliable heavy-duty design, built to rigid quality standards.
- ◆ Variable discharge port enables pumps to operate at maximum efficiency over the entire vacuum range.
- ◆ Shaft sleeves are standard, virtually eliminating the possibility of shaft wear.
- ◆ Available in different materials to suit your application.
- ◆ Standard sealing is packed gland, mechanical seals available.
- ◆ Heavy duty bearings mounted external to the pumping chamber, eliminating potential bearing failure due to process contamination.
- ◆ Low operating speeds ensure an extended life cycle.
- ◆ The pump can handle large amounts of condensable vapors which enhances the performance significantly.
- ◆ No metal-to-metal contact, only one moving part.
- ◆ The pumps can handle carry-over of liquids and/or soft solids without causing damage to the internal parts.
- ◆ The design allows operation with various seal fluids.
- ◆ Low operating noise levels are in the 75 - 85 dBA range.



Performance characteristics

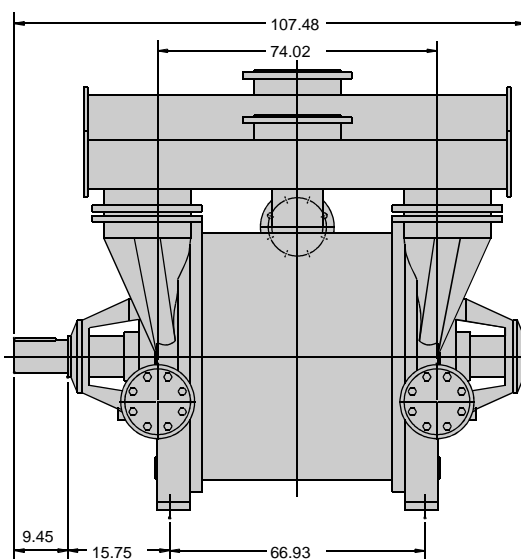
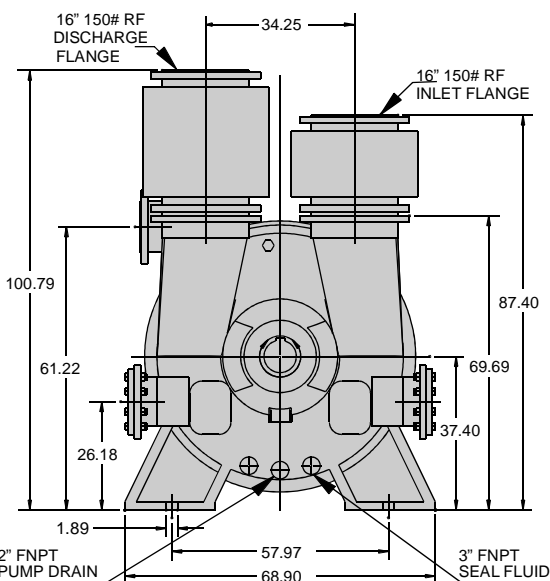
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|--------------------------|-----------------|
| Nominal capacity: | 6500-11000CFM |
| Motor range: | 300-600HP |
| Speed range: | 236-398RPM |
| Maximum vacuum: | 24"Hg/150Torr |
| Weight (bare-shaft): | 17380Lbs/7900kg |
| Maximum gas inlet temp.: | 212°F/100°C |
| Noise level(at 3ft): | 75-85 dBA |

Materials of construction/Seal code

| Mat.code | 3 | 4** | 7* | 8* | 11 | 14 |
|-----------|-------|-------|------|------|-------|-------|
| Casing | CI | 316SS | CI | NA | CI | 304SS |
| Portplate | CI | 316SS | CS | NA | CI | 304SS |
| Impeller | 316SS | 316SS | CS | NA | 304SS | 304SS |
| Shaft | CS | 316SS | CS | NA | 420SS | 304SS |
| Seal code | P*** | P*** | P*** | P*** | P*** | P*** |

CI = cast iron - DI = ductile iron - CS = carbon steel
304SS = AISI 304 stainless steel - **316SS** = AISI 316 stainless steel - **420SS** = AISI 420 stainless steel
 * standard material pumps protected by 420 SS shaft sleeves.
 ** 316 SS pumps protected by 316 SS shaft sleeves
 *** P = standard seal is packed gland, other seal materials available.
 Other materials and special coatings available upon request.

DV11002K-K



Performance charts see next page

Dimensions (inches) not binding. Subject to change without notice. Inlet manifold, discharge separator and companion flanges are sold separately.

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 0807/4/smc

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