

EFFICIENT AND ECONOMICAL

DRAKOS

ROTARY GEAR PUMPS

IN STAINLESS STEEL CONSTRUCTION



SERIES
SS

FOR TRANSFER OF CORROSIVE CHEMICALS & VISCOUS LIQUIDS.

ADVANTAGES

- * Complete SS - 316 Investment Casting
- * Nitrided Gears and Shafts for longer life
- * Teflon coated bush for smooth performance
- * Zero Leakage PTFE type Z - Pac sealant in Gland
- * Optimum internal clearance for accurate capacity and lower power consumption

APPLICATIONS

- * Chemical Industry
- * Pharmaceutical Industry
- * Dyeing & Printing Houses
- * Paint Industry
- * Food & Beverages



PUMPS

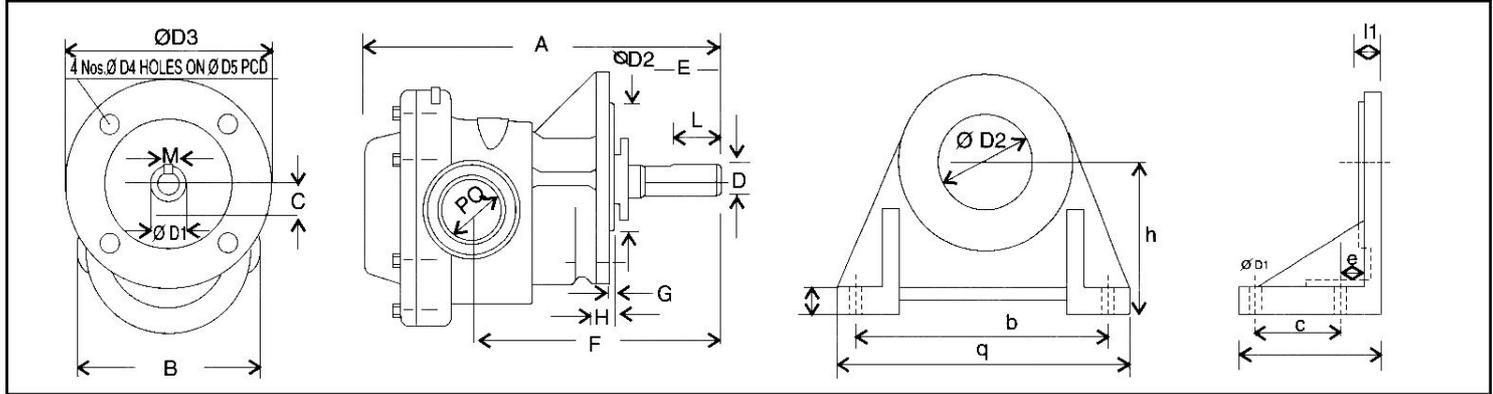
DRAKOS - POLEMIS S.A.
PUMP MANUFACTURERS

Kryoneri - Athens - Greece

HORSE POWER AND CAPACITY CHART

| PUMP MODEL | INLET OUTLET | CAPACITY AT 1500 RPM | | | POWER CONSUMPTION IN BHP AT DIFFERENTIAL PRESSURE OF 'X' Kg/Cm2 WITH 1500 SSU VISCOSITY | | | | | | | | | | WT. OF BARE PUMPS IN KGS |
|------------------------------|-----------------|----------------------|-------|-------|--|------|------|------|------|------|------|------|------|------|-----------------------------|
| | | LPM | U.GPM | M3/hr | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| SS - 050 | 1/2" X 1/2" | 25 | 6.6 | 1.5 | 0.32 | 0.38 | 0.44 | 0.5 | 0.55 | 0.6 | 0.65 | 0.72 | 0.78 | 0.85 | 3.7 |
| SS - 100 | 1" X 1" | 50 | 13.3 | 3 | 0.4 | 0.5 | 0.6 | 0.75 | 0.9 | 1 | 1.17 | 1.35 | 1.5 | 1.7 | 5.25 |
| SS - 150 - S SS - 150 - L | 1 1/2" X 1 1/2" | 75 | 20 | 4.5 | 0.85 | 1.1 | 1.35 | 1.56 | 1.77 | 2 | 2.2 | 2.35 | 2.55 | 2.75 | 10.5 |
| | | 100 | 26.6 | 6 | 1 | 1.4 | 1.9 | 2.2 | 2.4 | 2.75 | 3 | 3.25 | 3.5 | 3.75 | |
| SS - 200 - S SS - 200 - L | 2" X 2" | 150 | 40 | 9 | 1.4 | 1.82 | 2.45 | 3 | 3.5 | 4 | 4.5 | 5 | 5.6 | 6.2 | 15.7 |
| | | 200 | 53.3 | 12 | 1.85 | 2.45 | 3 | 3.5 | 4 | 4.55 | 5.1 | 5.6 | 6.25 | 6.85 | |
| SS - 250 - S SS - 250 - L | 2 1/2" X 2 1/2" | 300 | 80 | 18 | 3.17 | 3.8 | 4.6 | 5.4 | 6.1 | 6.85 | 7.7 | 8.1 | 8.7 | 9.4 | 22.5 |
| | | 350 | 93.3 | 21 | 3.7 | 4.5 | 5.4 | 6.3 | 7.1 | 8 | 8.95 | 9.5 | 10.2 | 11 | |

DIMENSIONS : PUMP AND BRACKET



| MODEL | A | B | D | ØD1 | ØD3 | ØD4 | ØD5 | E | F | G | H | L | M | C | ØD2 | PQ | a | b | c | Ød1 | e | h | h1 | l | l1 |
|----------|-----|-----|------|-----|-----|------|-----|----|-----|-----|-----|------|---|----|-----|------------|-----|-----|-----|-----|----|-----|----|-----|----|
| SS - 050 | 145 | 76 | 15 | 13 | 90 | 8.5 | 73 | 40 | 105 | 2.5 | 9 | 20 | 5 | 14 | 56 | 1/2" BSP | 138 | 112 | 40 | 8 | 13 | 71 | 12 | 80 | 13 |
| SS - 100 | 173 | 82 | 17 | 15 | 100 | 10.5 | 80 | 50 | 115 | 2.5 | 9.5 | 27.5 | 5 | 17 | 60 | 1" BSP | 153 | 125 | 45 | 10 | 16 | 80 | 12 | 90 | 13 |
| SS - 150 | 227 | 98 | 23.5 | 21 | 120 | 12.5 | 98 | 55 | 153 | 3 | 12 | 35 | 6 | 22 | 75 | 1 1/2" BSP | 190 | 160 | 65 | 12 | 18 | 100 | 15 | 120 | 18 |
| SS - 200 | 258 | 115 | 27 | 24 | 135 | 13.5 | 110 | 65 | 180 | 3 | 13 | 40 | 8 | 27 | 85 | 2" BSP | 230 | 190 | 80 | 15 | 16 | 112 | 15 | 130 | 18 |
| SS - 250 | 280 | 130 | 30 | 27 | 150 | 17.5 | 125 | 70 | 198 | 3 | 14 | 45 | 8 | 32 | 100 | 2 1/2" BSP | 256 | 216 | 110 | 17 | 19 | 132 | 18 | 170 | 22 |

| PARTS | MATERIAL |
|-----------------------------|-------------------|
| 1) Body | SS - 316 |
| 2) Covers | SS - 316 |
| 3) Gears | SS - 316 Nitrided |
| 4) Shafts | SS - 316 Nitrided |
| 5) Gland Cover | SS - 316 |
| 6) Seal | PTFE / Z - Pac |
| 7) Bracket | C.I. |
| 8) Bush | PTFE Coated |
| 9) Bolt | SS - 304 |
| 10) Relief Valve (optional) | SS - 316 |

SALIENT FEATURES & CHARACTERISTICS

DRAKOS Gear Pumps are first in the country to give a gear pump complete in SS 316 investment casting construction with nitrided gears / shafts and Teflon coated imported DU bushes. SS series pumps are thus far more better in performance and workmanship. These pumps are recommended for any type of corrosive chemicals and viscous liquids (See box on the side.) SS series pumps can operated up to Max. temperature of 250° C and max. viscosity of 5000 CST.

OPTIONAL AVAILABILITY

- SS series pumps are also available with following optional features :-
- 1) SS 316L construction for highly corrosive liquids and strong acids.
 - 2) Also available with Non-Toxic FDA approved Z-Pac Sealent for food and hygienic application.
 - 3) Pressure Relief Valve with effective by passing system.
 - 4) Mechanical Seal for extra safety in pressurised application.
 - 5) Without mounting bracket to convert the pump into flange version.

Recommended for Liquids

- 1) Viscous and Corrosive Chemicals.
- 2) Mild Acids.
- 3) Printing Inks.
- 4) Dyes.
- 5) Sugar Syrups.
- 6) Resins & Pigments.
- 7) Slurry.
- 8) Glycerine.
- 9) Kerosene.
- 10) Vegetable Oils.

| VISCOCITY | SPEED | CAPACITY |
|-----------------|----------|----------|
| UP TO 500 CST | 1440 RPM | 100% |
| 500 - 2000 CST | 960 RPM | 66.6% |
| 2000 - 5000 CST | 720 RPM | 50% |



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