

Omega In-Line Glanded Pumps

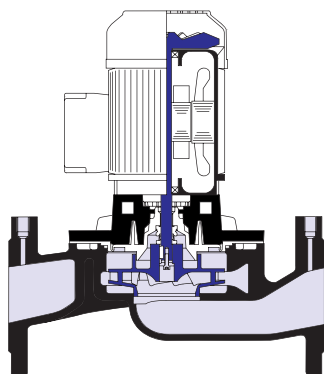
OmegaDrive In-Line Glanded Pumps with integrated capacity adjustment



- Pump casings, impellers and motors designed for high efficiency
- Omega pumps are fitted with quiet running 950, 1450 and 2800 rpm. T.E.F.V. motors
- OmegaDrive with integral frequency inverter
- Advanced design reduces noise levels
- Non overloading capacity curves
- Impellers statically and hydraulically balanced
- Crane mechanical seals fitted as standard
- High quality stainless steel shaft, AISI 316
- Branch sizes from 25 mm to 200 mm, PN 10
- Flow rates up to 760 m³/hr (212 l/s)
- Heads up to 65 m (650 kPa)
- Temperature range -25°C to +120°C (+140°C with special seal)
- Most models available as single-case twin
- Bronze models available for HWS installations

Omega / OmegaDrive In-Line Glanded Pumps

OMEGA



Construction

The Omega pumps are of the in-line configuration with the motors mounted directly to the pump body. The stainless steel AISI 316 short shaft extension makes the unit very compact ensuring stable running and long reliable service. The integral inverter on the self adjusting OmegaDrive pumps are cooled from the fan of the motor. Pump casing: PN 10 (some models in PN 16 as option) Unions connection: 1" and 1¼" B.S.P.F., PN 10 Flanges: DN 32, 40, 50, 65, PN 6/10 double drilled (DIN 2533) DN 80, 100, 125, 150, 200, PN 10/16 (DIN 2533) DN 80, option PN 6.

Field of application

Commercial and industrial heating systems, district heating schemes, water treatment plants, transfer pumps and refrigeration plants, booster sets, sprinkler, as well as various other applications. Standard pumps in cast iron are supplied suitable for working pressures up to 10 bar, temperature range between -15°C to +120°C (Ambient, max. 40°C). For glycol solutions and other media and temperatures, contact Smedegaard.

Pump medium

Clean, non viscous, non aggressive and non explosive fluids without any solids or fibres. If any liquid other than water is being pumped, we recommend that you contact Smedegaard as the pump characteristics may change.

Model identification

Omega: In-line glanded
OmegaDrive: With integral inverter
5: Internal port dia. 50 mm
125: Nominal impeller dia. 125 mm
6: Motor 6-pole (950 rpm)
4: Motor 4-pole (1450 rpm)
2: Motor 2-pole (2900 rpm)
D: Single-case twin
Z: Bronze

Bronze pumps

Some models are also available in bronze "Z" (see range charts and individual data sheets). Bronze models are recommended in H.W.S. secondary installations, for sea water and for chemical applications. The standard bronze models are fitted with a special high quality hard faced mechanical seal, to meet the adverse conditions found in some HWS secondary systems.

Impellers

All impellers are dynamically balanced and incorporate pressure equalising features, resulting in quieter operation and longer bearing life.

Mechanical seal

A standard Crane mechanical seal in stainless steel - carbon/ceramic - EPDM is fitted. Other material combinations are available for various applications - contact Smedegaard.

Motors

Specially constructed motors are used with these pumps to ensure quiet operation, even at 2-pole (2900 rpm) speed. Heavy duty bearings are fitted and packed with vibration suppressing high temperature grease. Standard motors are Class F, IP55, 3 x 400/230 V incl. 4,8 kW and > 4,8 kW 3x 690/400 V, 50 HZ. Smaller pumps available with single phase motors. Higher efficiency motors, other protection classes, voltages and enclosures are also available to special order.

Electrical connections

The Omega pumps must be installed with overload protection. The OmegaDrive pumps have incorporated overload protection. The pumps must be connected according to local electrical regulations. See installation guide and wiring diagram in motor terminal box.

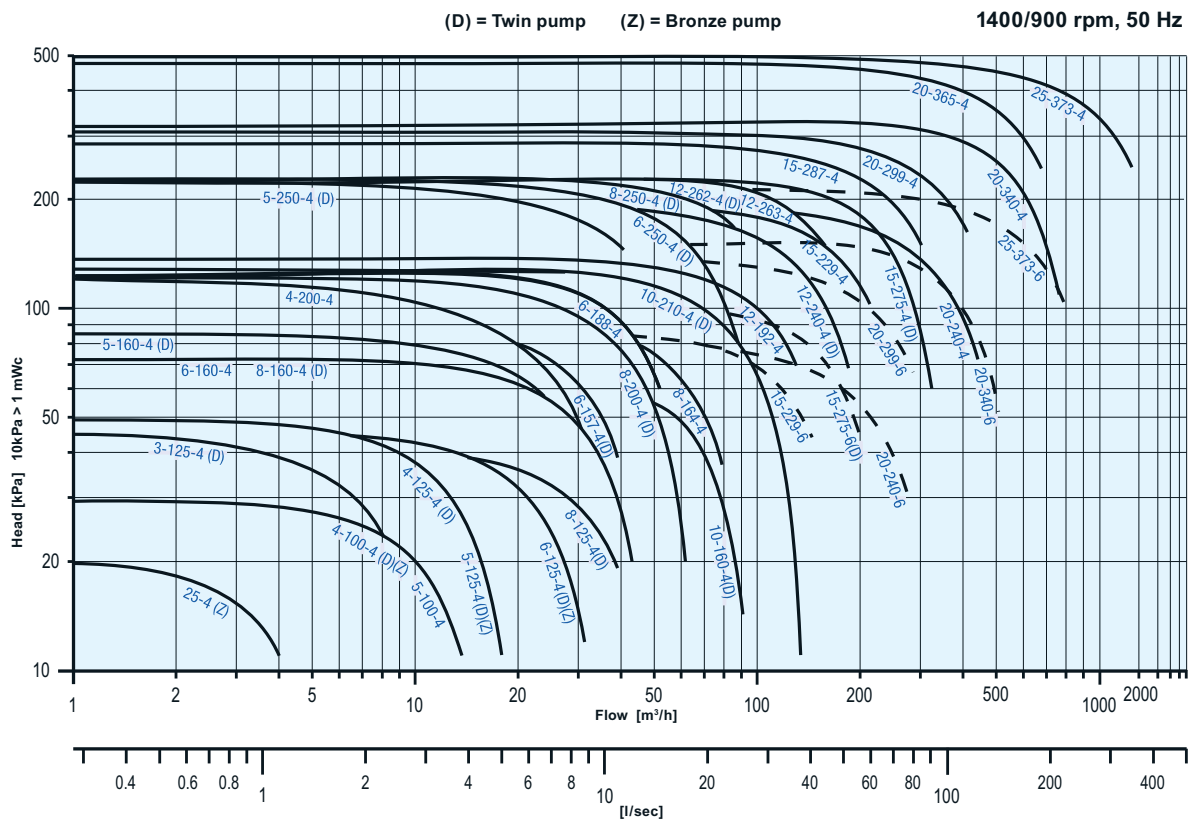
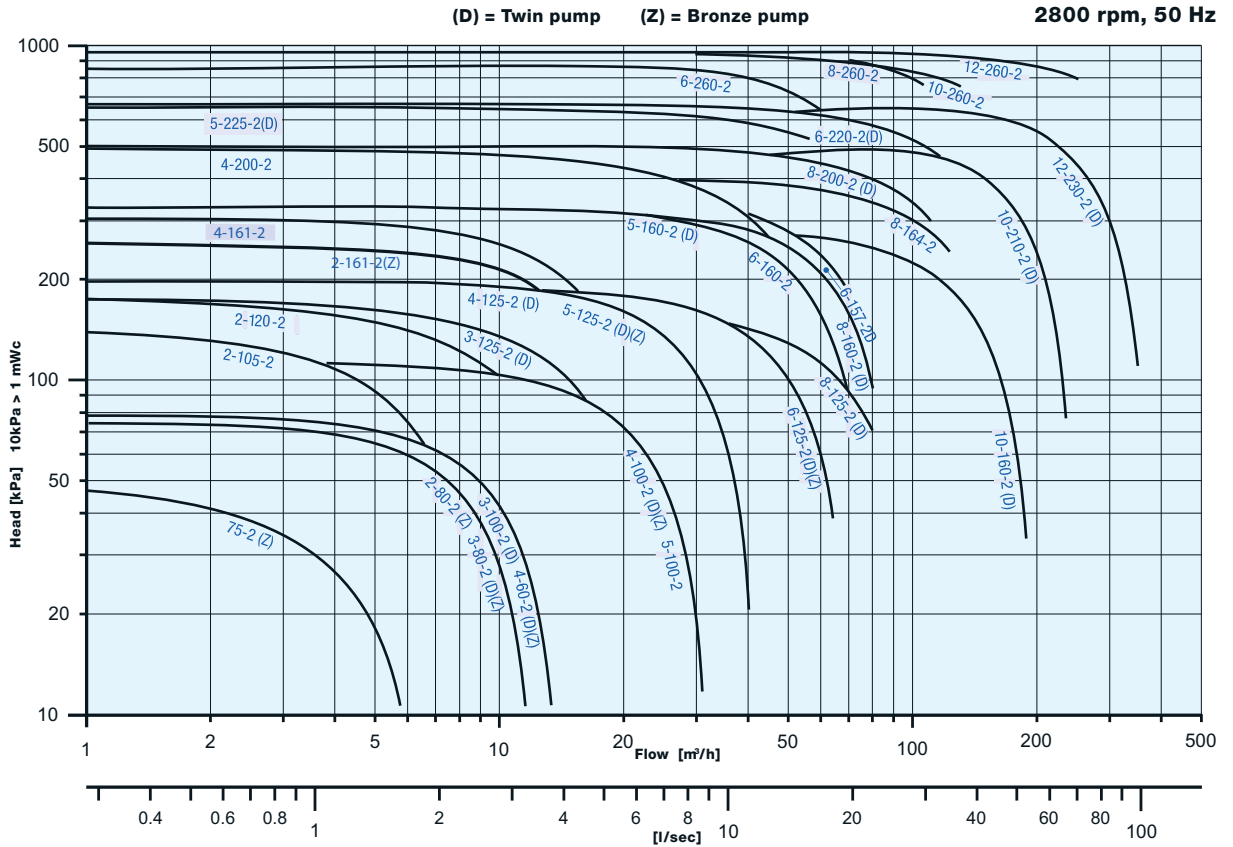
Installation

The Omega pumps are suitable for pipeline mounting, with vertical or horizontal shaft. On single-case twin pumps 40 mm and above and on single pumps 80 mm and above, a support foot for floor mounting is available as an optional extra. Note: This foot must be ordered with the pump.

Service

The pumps incorporate "back pull-out facility" which enables mechanical seal replacement without removing pump casing from pipe work. Blanking plates are available for all single and twin models.

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For higher heads use HIL-V multiple type pumps.

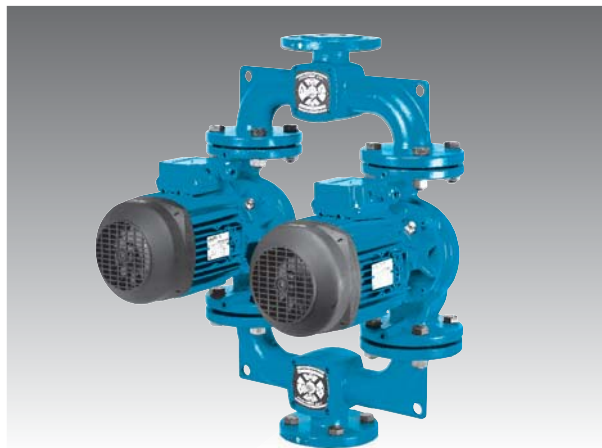
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Twin Pumps "D"



Most of the Omega range can be supplied as single-case twins, model reference letter D. Two motors and a non-return valve are assembled in the same pump casing and in the majority of cases the overall dimensions and connections remain the same as a single pump.

Tas-Twin "Y" Piece Manifolds



In addition to the single-case twin pumps, the Smedegaard Tas-Twin "Y" Pieces with built-in isolating and non-return valves can be supplied for use with single in-line pumps from 25-125 mm connections. These manifolds are suitable for temperatures up to 110°C with a maximum system pressure of 10 bar and a pump working pressure of 3 bar.

OmegaDrive with integral inverter



All single and twin pumps, with motor sizes up to 22 kW, can be supplied as OmegaDrive (D) with integral inverters to give automatic capacity adjustment, via a signal from an optional differential pressure transmitter. All pump curves and specifications are the same as for the Omega pumps. The OmegaDrive concept gives electrical and thermal savings together with reduced noise level in the installation. (See separate brochure).

Change-over control Omega 2140 for twin pumps



The standard Omega 2140 panel is suitable for manual or automatic change-over operation, with running and trip lights and terminals for wiring to a remote alarm. A 7-day clock or cyclic timer is available to ensure equal pump usage. Thermal relays for overload protection. Specify pump model or motor size when ordering.

It is SMEDEGAARD's policy to continually improve and develop the product range. We reserve the right to change specifications without prior notice. Whilst every care has been taken to ensure that data is correct, no responsibility can be accepted for inaccuracies or misprints.

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