

Booster sets GD Series

GD SERIES

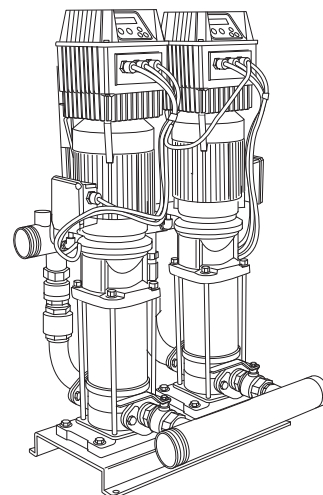
Variable-speed booster sets with Drive-Tech and Drive-Tech_{MINI} inverters

DESCRIPTION

- The GD series booster sets consist of two or three identical electric pumps coupled in parallel via manifolds, shut-off valves, check valves and fixed on a single base.
- The electric pumps are controlled by one inverter for each electric pump, which modulates the operating frequency in order to maintain a constant set value.

SPECIFICATIONS

- Flow: up to 84 m³/h
- Head:
 - up to 104 m for sets with EM and EH electric pumps
 - up to 160 m for sets with EV electric pumps
- Maximum operating pressure:
 - PN10 for sets with EM and EH electric pumps
 - PN16 for sets with EV electric pumps
- The sum of the inlet pressure and the maximum pressure developed by the electric pump at zero flow must always be less than the maximum working pressure (PN) allowed by the set
- Supply voltage:
 - 1x230 V 50 Hz for GDM model sets
 - 3x400 V 50 Hz for GDT model sets
- Ambient temperature at nominal load: max 40°C
- Relative humidity: max 50% at 40 °C (without condensation)
- Max. altitude at nominal load: 1000 metres above sea level
- Pumped liquid temperature: clean water between +5 °C and +35 °C



SET IDENTIFICATION CODE

GD M 02 VM / EM3/03RG007T6 / DTm / ...

- Set speciality ("empty": standard configuration)
- "Empty" (Set with inverter Drive-Tech)
- DTm (Set inverter Drive-Tech_{MINI})
- Electric pump model
- Position of check valves: VM (delivery valves)
- Number of electric pumps
- Set power supply voltage: M (single-phase set) T (three-phase set)
- Variable speed set with inverter Drive-Tech/Drive-Tech_{MINI}

VERSIONS AVAILABLE

- Different materials for manifolds, check valves and shut-off valves

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COMPOSITION

- EH, EM or EV series electric pumps
- Base and electrical panel door in powder-coated sheet metal
- Galvanised iron suction and delivery manifolds
- Counter-flanges for EV series electric pumps
- Suction and Delivery shut-off valves for each electric pump
- Delivery check valve in each electric pump
- Female cast iron caps for manifolds closure
- 1 electronic pressure sensor for each installed electric pump
- 1 pressure gauge
- Fitting for use with diaphragm tank
- One DriveE-Tech or Drive-Tech_{MINI} inverter per electric pump
- Inverter power protection switchboard
- Galvanised steel screws

MAIN PARTS

Part	GD...02	GD...03	GD...04
Electric pumps	2	3	4
Inverter	2	3	4
Pressure transmitters	2	3	4
Check valve	2	3	4
Shut-off valve	4	6	8

MATERIALS IN CONTACT WITH LIQUID

Component	Set version			
	Standard	C304 *	A316 **	B316 ***
Electric pumps	See pump description	See pump description	See pump description	See pump description
Suction and delivery manifolds	Galvanised iron	304SS	316SS	316SS
Pressure transmitters	304SS	304SS	304SS	316SS
Pressure gauge	Brass	Brass	304SS	Not present
Check valve	Brass / Nickel-plated brass	Brass / Nickel-plated brass	316SS	316SS
Shut-off valve	Nickel-plated brass / Coated cast iron	Nickel-plated brass / Coated cast iron	316SS	316SS
Pump counter-flanges (EV pumps only)	Galvanised iron	Galvanised iron	316SS	316SS
Other components	Brass / Nickel-plated brass / Coated cast iron / Cast iron	Brass / Nickel-plated brass / Coated cast iron / Cast iron	316SS	316SS

* /C304: Set with suction and delivery manifolds in A304 steel. All other components that come into contact with pumped liquid as in the standard version.

** /A316: Set with suction and delivery manifolds in A316 steel. Other components that come into contact with pumped liquid in A316. Pressure gauge and pressure switches in A304. Set screws in galvanised iron.

*** /B316: Set with suction and delivery manifolds in A316 steel. Other components that come into contact with pumped liquid in A316. Set without pressure gauge. Set screws in galvanised iron.

POSITION OF CHECK VALVES

- All GD series sets are supplied with check valves on the delivery side of the electric pumps (VM). In the case of suction above the pressure head, the installation of a check valve on the set's suction pipe is mandatory.