GRETEC

High Pressure Technology Inc

Tradename Gretec - Engineered & Manufactured in China

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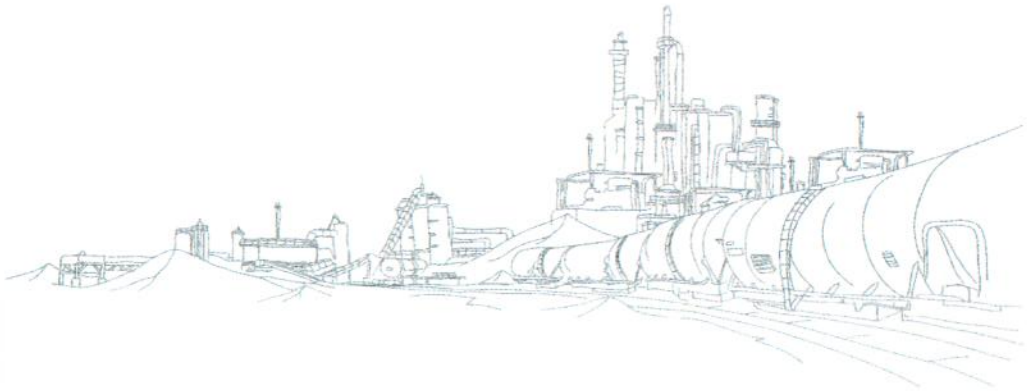
GRETEC GMS/H PUMP

(similar to Haskel)

Gretec

Gretec pumps and valves are widely used in various industries. We provide quality products and services with international companies worldwide.
Choose Gretec...



Air Driven Liquid Pumps

GMS/H Series MiniPump

Air Driven Liquid Pumps

Features

★ Up to 100,000 psi (7000 bar) capability.
★ Infinitely variable cycling speed.
★ Stall feature at pre-determined pressure to hold that pressure without consuming power .
★ Easily automated, with many modification and control options available.
★ Suitable for most liquids and liquefied gases.
★ Can be manufactured to meet CE.
★ Robust, reliable, compact and easy to maintain proven design.
★ Unbalanced cycling spool provides immediate response to pressure changes.
★ Also available in standard, Configuration required by customer.
★ No need for air-line lubrication, which saves costs and prevents contamination.

Easy handling

1. Initial operation
The pump is prepared for operation manually:
★ Connect supply lines (compressed air, suction and pressure lines).
★ Set air drive pressure.
★ Open compressed air supply slowly so that the high-pressure pump starts up .

2. Build up pressure
The pump technology executes all the steps for pressure build-up automatically:
★ Automatic cycling of 4/2-way valve (spool cycling valve) by means of air pulses from the pilot valve (2/2-way valve) ★ Suction of medium.
★ Optimum cycling conditions thanks to large cross-sections .

3. Achieve and hold pressure
The pump controls the processes of reaching and holding pressure.
★ Pump automatically stops operating when the operating pressure is reached due to equilibrium of forces
★ Pressure is held.
★ Pressure holding phase with no energy consumption or heat generation .
★ Pump restarted automatically if operating pressure drops .

Applications

★ Pressure testing
★ Jacking and Lifting.
★ Valve actuator control
★ Hydraulic cylinder actuation
★ Roller tensioning
★ Precision lubrication and spraying
★ Work holding and power clamping
★ Liquified gas transfer
★ Machine tools
★ Well Control Panel

Selection

The pump model is selected according to the use requirements. Such as output pressure, output flow, medium and temperature, available air or gas drive pressure and flow. This guide will help you to pre-select the pump ideally suited for your application. If you have specific questions, Please contact us. We urge you to provide us with details of the duties you require from the pump, available air/gas drive pressure, and pressure/flow requirements, and we will recommend a model and any corresponding accessories.

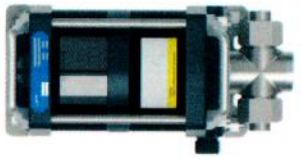
The series and its functions

They are suitable for different or stepped flow rates as well as for different maximum allowable operating pressures..
Pumps with two or three air drive sections reach the same final pressure as with one air drive section with 1/2 or 1/3 of the air drive. Double-acting pumps increase the pump capacity by around 50% in comparison to single-acting pumps and reduce the pulsation equally.

The following model variants are available depending on the series:

Pumps with handle
(only suitable for M serial)

Angular Pumps



Double Air Drive,Single Acting

Single Air Drive,Single Acting

Triple Air Drive,Single Acting

Single Air Drive,Double Acting

Double Air Drive,Double Acting

GM Series

Single Drive Single Acting

Features

★ Choice of 9 ratios.
★ Flows to 8.3 l/min.
★ Choice of wetted materials .
★ Pressures to 25,000 psi(1723 bar).
★ All Hydraulic fluids, water(plain or DI), solvents, mild chemicals, liquefied gases.

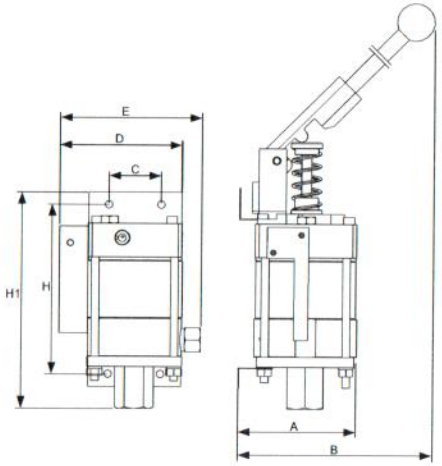
Performance and Specification

Pump Model Code	Max.Out Press.	Actual Ratio	Dis. /Cycle	Max.Flow	Inlet Port	Outlet Port
GM05S	625psi	5.6:1	13.6ml	8.30l/min	3/4"FNPT	1/2"FNPT
GM07S	900psi	7.8:1	9.8ml	6.0l/min	3/4"FNPT	1/2"FNPT
GM12S	1500psi	14:1	5.9ml	3.83l/min	3/8"FNPT	1/4"FNPT
GM21S	2600psi	25:1	3.3ml	2.13l/min	3/8"FNPT	1/4"FNPT
GM36S	4500psi	41:1	2.0ml	1.28l/min	3/8"FNPT	1/4"FNPT
GM71S	8800psi	82:1	1.0ml	0.64l/min	3/8"FNPT	1/4"FNPT
GM110S	13500psi	126:1	0.6ml	0.42l/min	3/8"FNPT	1/4"FNPT
GM188S	15000psi	217:1	0.4ml	0.29l/min	3/8"FNPT	1/4"HF
GM220S	25000psi	237:1	0.34ml	0.22l/min	3/8"FNPT	1/4"HF

HF means female high pressure connection

Dimensions

Size A	3.82in.(97mm)
Size B	10in.(254mm)
Size C	1.65in.(42mm)
Size D	4.13in.(105mm)
Size E	4.8in.(122mm)
Size H	5.59in.(142mm)
Size H1	6.89in.(175mm)
Air IN	1/4 Female NPT



EXPLAIN
1.All model code listed are standard.
For pumps with handle add "-H" after the model codes.
For Pumps with relief valve add"-R" after the model codes
For pumps with viton seals add "-V" after the model codes.
For pumps with Pressure switch valve add "-P" after the model codes For cold area service add"-C" after the model codes.
2. Other sizes, materials and types are available upon request. For special requirements, please contact us

Perfomance Curves