

PGM-Series, Gasoline Hydraulic Pumps

▼ Shown: **PGM-2408R**



PGM Series



Reservoir Capacity:

4 and 8 litres

Flow at Rated Pressure:

0,66 l/min

Motor Size:

2,2 kW

Maximum Operating Pressure:

700 bar

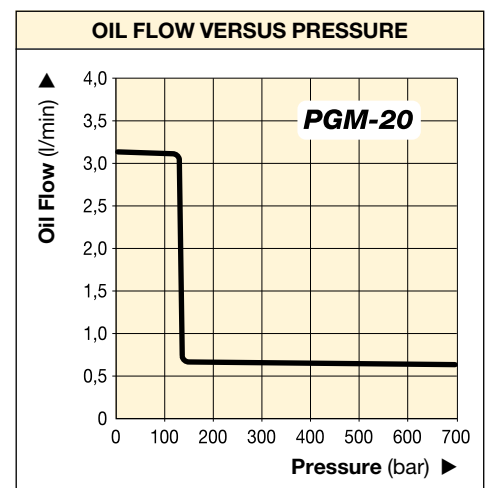
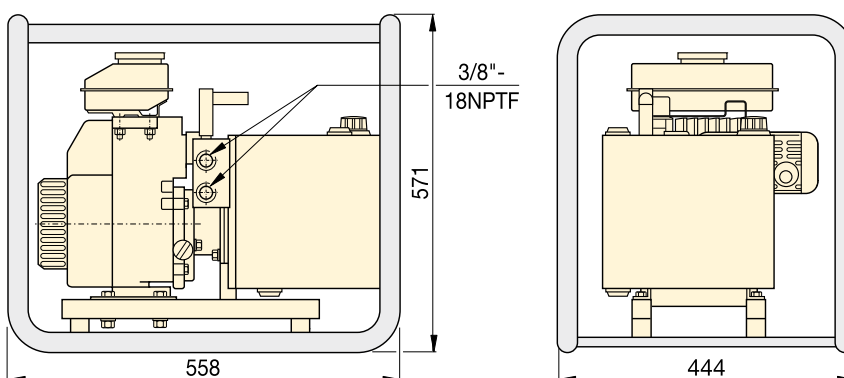


Hoses

Enerpac offers a complete line of high quality hydraulic hoses. To ensure the integrity of your system, specify only Enerpac hydraulic hoses.

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- **Patented Genesis Technology means**
 - coaxial piston design ensures high performance
 - first-stage piston pump for improved efficiency
- **High by-pass pressures improve productivity**
- **All Atlas pumps feature sturdy roll cage for use in tough environments**
- **Four-cycle Honda motor 2,2 kW.**



| Used with Cylinder | Usable Oil Capacity (litres) | Model Number | Pressure Rating (bar) | Output Flow Rate (l/min) | | By-Pass Pressure (bar) | Manual Valve Type | Valve Function | Sound Level (dBA) | Weight (kg) |
|--------------------|------------------------------|--------------|-----------------------|--------------------------|-----------------------|------------------------|-------------------|----------------------|-------------------|-------------|
| | | | | 1 st stage | 2 nd stage | | | | | |
| Single-Acting | 3,8 | PGM-2304R* | 700 | 3,2 | 0,66 | 140 | 3/3 | Advance/Hold/Retract | 89 | 25 |
| Double-Acting | 3,8 | PGM-2404R* | 700 | 3,2 | 0,66 | 140 | 4/3 | Advance/Hold/Retract | 89 | 25 |
| Single-Acting | 7,6 | PGM-2308R* | 700 | 3,2 | 0,66 | 140 | 3/3 | Advance/Hold/Retract | 89 | 33 |
| Double-Acting | 7,6 | PGM-2408R* | 700 | 3,2 | 0,66 | 140 | 4/3 | Advance/Hold/Retract | 89 | 33 |

* Note: The PGM-20 series are available with a carrying handle instead of a roll cage. For ordering omit the 'R' from the model number

▼ Shown: ZG5420MX-R



Z CLASS

**Tough, Dependable,
Innovative**

- Features Z-Class high efficiency pump design, higher oil flow and bypass pressure
- Two-speed operation reduces cycle time for improved productivity
- User adjustable relief valve built-in on manual valves. Oil ports on valves are 3/8" NPTF
- Available in two 4-cycle engine sizes: 4,1 kW Honda and 4,8 kW Briggs & Stratton
- Full sight oil level glass on all reservoirs allow quick and easy oil level monitoring.



Speed Chart

To determine how a specific pump will operate your cylinder, see the Pump-Cylinder Speed Chart in the 'Yellow Pages'.

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ZG-Series, Gasoline Pump Performance

Elevation can affect the performance of any gasoline engine. ZG-Series pumps are designed to develop rated performance at elevations up to 1500 m. For applications above this elevation, please consult your Enerpac office.



User Adjustable Relief Valve

All VM-Series directional valves have a user adjustable relief valve to allow the operator to easily set the optimum working pressure.

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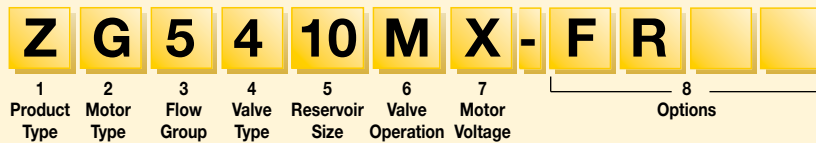
▼ SELECTION CHART

| Used with Cylinder | Usable Oil Capacity (litres) | Manual Valve ¹⁾ Model Number | Valve Function | Model Number with Roll Cage | Output Flow Rate (l/min) | | | | 4-Cycle Engine Type and Size |
|--------------------|------------------------------|---|----------------------|-----------------------------|--------------------------|-----------|------------|------------|------------------------------|
| | | | | | at 7 bar | at 50 bar | at 350 bar | at 700 bar | |
| Single-Acting | 10 | VM33 | Advance/Hold/Retract | ZG5310MX-R | 11,5 | 10,7 | 1,8 | 1,6 | Honda 4,1 kW |
| | 20 | VM33 | Advance/Hold/Retract | ZG5320MX-R | 11,5 | 10,7 | 1,8 | 1,6 | |
| Double-Acting | 10 | VM43 | Advance/Hold/Retract | ZG5410MX-R | 11,5 | 10,7 | 1,8 | 1,6 | |
| | 20 | VM43 | Advance/Hold/Retract | ZG5420MX-R | 11,5 | 10,7 | 1,8 | 1,6 | |
| Single-Acting | 10 | VM33 | Advance/Hold/Retract | ZG5310MX-BR | 6,5 | 6,2 | 1,8 | 1,6 | Briggs & Stratton 4,8 kW |
| | 20 | VM33 | Advance/Hold/Retract | ZG5320MX-BR | 6,5 | 6,2 | 1,8 | 1,6 | |
| Double-Acting | 10 | VM43 | Advance/Hold/Retract | ZG5410MX-BR | 6,5 | 6,2 | 1,8 | 1,6 | |
| | 20 | VM43 | Advance/Hold/Retract | ZG5420MX-BR | 6,5 | 6,2 | 1,8 | 1,6 | |
| | 40 | VM43L | Advance/Hold/Retract | ZG5840MX-BR | 6,5 | 6,2 | 1,8 | 1,6 | |

¹⁾ See pages 114-116 for hydraulic symbols of these valves.

Gasoline Hydraulic Pumps

▼ This is how a ZG-Series pump model number is built up:



1 Product Type

Z = Pump Class

2 Prime Mover

G = Gasoline Engine

3 Flow Group

5 = 1,6 l/min @ 700 bar

6 = 3,3 l/min @ 700 bar (see page 112)

4 Valve Type

0 = No valve, with cover plate ¹⁾

2 = 3/2 manual valve **VM32**

3 = 3/3 manual valve **VM33**

4 = 4/3 manual valve **VM43**

6 = 3/3 manual locking valve **VM33L** with pilot operated check

8 = 4/3 manual locking valve **VM43L** with pilot operated check.

¹⁾ For remote valve mounting order **BSS1090** high pressure connecting plate.

5 Reservoir Size, useable oil

10 = 10 litres

20 = 20 litres

40 = 40 litres

6 Valve Operation

M = Manual valve

N = No valve

7 Motor Voltage

X = Not applicable

8 Factory installed options

B = Briggs & Stratton gasoline engine

F = Return Line Filter

G = 1000 bar pressure gauge

N = No reservoir handles (includes lifting eyes on 10, 20 and 40 litres)

R = Roll Cage

Ordering Example

Model Number: **ZG5420MX-FR**

This is a 700 bar hydraulic pump, with a 4/3 manual valve, 20 litres reservoir, with a 4,1 kW Honda gasoline engine pump, return line filter and roll bar.

ZG5 Series



Reservoir Capacity:

10 - 20 - 40 litres

Flow at Rated Pressure:

1,6 l/min

Engine Size:

4,1 - 4,8 kW

Maximum Operating Pressure:

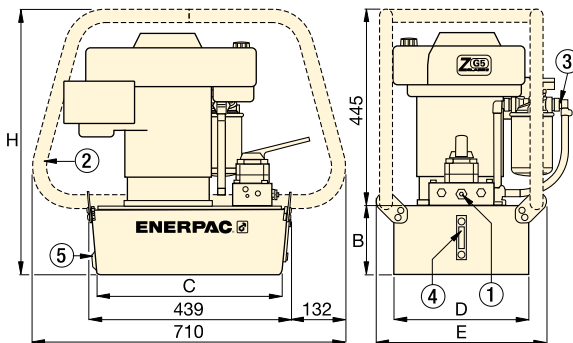
700 bar



High Pressure Hoses

Enerpac offers a complete line of high quality hydraulic hoses. To ensure the integrity of your system, specify only genuine Enerpac hydraulic hoses.

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① User adjustable relief valve on all manual valves. 3/8" NPTF on A and B ports; 1/4" NPTF on auxiliary ports.

② Roll Bar

③ Return Line Filter

④ Oil Level Gauge

⑤ Oil Drain



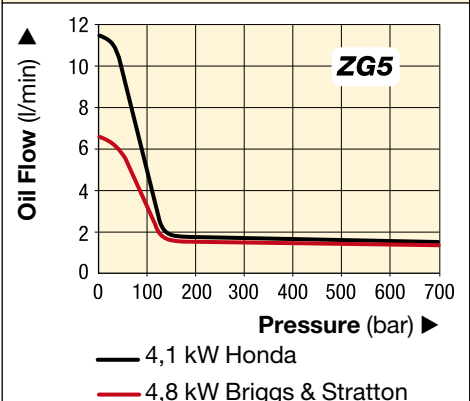
ZG6-Series 9,7 kW Pump

The ZG6-pump has 3,3 l/min oil flow at 700 bar, Briggs & Stratton 4-cycle gasoline engine with electric start and 12 Volt charge output for accessories.

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| Relief Valve Adjustment Range (bar) | Sound Level (dBA) | Dimensions (mm) | | | | | Weight (kg) | Model Number with Roll Cage |
|-------------------------------------|-------------------|-----------------|-----|-----|-----|-----|-------------|-----------------------------|
| | | B | C | D | E | H | | |
| 70 - 700 | 88 - 93 | 155 | 419 | 305 | 384 | 600 | 52 | ZG5310MX-R |
| 70 - 700 | 88 - 93 | 180 | 414 | 421 | 500 | 625 | 64 | ZG5320MX-R |
| 70 - 700 | 88 - 93 | 155 | 419 | 305 | 384 | 600 | 52 | ZG5410MX-R |
| 70 - 700 | 88 - 93 | 180 | 414 | 421 | 500 | 625 | 64 | ZG5420MX-R |
| 70 - 700 | 91 - 95 | 155 | 419 | 305 | 384 | 600 | 50 | ZG5310MX-BR |
| 70 - 700 | 91 - 95 | 180 | 414 | 421 | 500 | 625 | 63 | ZG5320MX-BR |
| 70 - 700 | 91 - 95 | 155 | 419 | 305 | 384 | 600 | 50 | ZG5410MX-BR |
| 70 - 700 | 91 - 95 | 180 | 414 | 421 | 500 | 625 | 63 | ZG5420MX-BR |
| 70 - 700 | 91 - 95 | 269 | 399 | 505 | 557 | 714 | 86 | ZG5840MX-BR |

OIL FLOW VERSUS PRESSURE



ZG6-Series, Gasoline Hydraulic Pump

▼ Shown: ZG6440MX-BCFH



ZG6 Series

Reservoir Capacity:
40 litres

Flow at Rated Pressure:
3,3 l/min

Engine Size:
9,7 kW

Maximum Operating Pressure:
700 bar

Z Tough
Dependable
Innovative
CLASS

- Features Z-Class high efficiency pump design:
 - higher oil flow and bypass pressure
 - patented balanced rotating pump components to reduce vibration
 - replaceable piston check valves that increase service life of pump components
- Two-speed operation reduces cycle time for improved productivity
- Easy serviceable 9,7 kW, 4-cycle gasoline engine with electric start and 12 Volt charge output for accessories.
- Dual forced air heat exchangers stabilizes hydraulic oil temperature
- Roll cage for easy portability and hoisting, protects pump
- Sturdy wheeled cart with collapsible handles
- Fullsight oil level-glass for easy oil level monitoring.



Speed Chart

To determine how a specific pump will operate your cylinder, see the Pump-Cylinder Speed Chart in the 'Yellow Pages'.


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Adjustable Pressure Relief Valve

ZG-Series pumps have a manual directional control valve with a user adjustable relief valve to allow the operator to easily set the optimum working pressure. Relief valve adjustment range 70-700 bar. Oil ports are 3/8" NPTF.

▼ SELECTION CHART

| For use with cylinder | Usable Oil Capacity (litres) | Manual Control Valve Type | Valve Function | Model Number | Output Flow Rate (l/min) | | 4-Cycle Engine Size (kW) | Outside Dimensions L x B x H (mm) |  (kg) |
|-----------------------|------------------------------|---------------------------|-----------------|---------------|--------------------------|------------|--------------------------|-----------------------------------|--|
| | | | | | at 7 bar | at 700 bar | | | |
| Dbl-Act. | 40 | 4/3 | Adv./Hold/Retr. | ZG6440MX-BCFH | 14,7 | 3,3 | 9,7 | 1205 x 840 x 935 | 152 |