ENERPAC New Hushh Pumps





Versatile modular **Hushh pumps**



The rugged modular design of the 700 bar electric and air driven pumps allow easy installation of valves and accessories. To custom build your pump is now virtually plug and play!

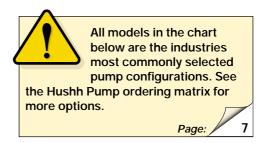
Hushh Modular Electric Pumps



▼ Shown from left to right: GPEM-3420W, GPER-5420WFHL



The Standard for Industrial Applications





GPA-series Modular Air Pumps

If electric power supply is not available the Hushh pumps are also available with an air

driven motor.

Page:

▼ SELECTION CHART *

BASIC PUMP CONFIGURATIONS Select your hushh pump model here for most	Pump Type		l with nder	Valv	e Func	tion	Valve** Model	Reservoir Capacity	
applications. For special requirements see the hushh pump ordering matrix. Page: 7						•	Number	(litres)	
GPEW-Series without Valve, without Electric Box								10	
Ideal for matching your valving to your needs, for								20	
example in production applications. • For remote valve or valve block, use a BSS1090 high								40	
pressure connecting plate									
GPED-Series with Dump Valve		•		•		•	VSP-324D	10	
Ideal for punching, crimping and cutting		•		•		•	VSP-324D	20	
For use when load holding is not required Problem to the problem of the pro									
 Push-button control pendant with 3 m cord controls the valve and motor. 									
CDEM Series with Manual Valve without Floatrie	g- 32						1000	10	
GPEM-Series with Manual Valve, without Electric Box		•		•		•	VM-2	10	
Ideal choice for most applications							VM-3L	10 20	
Manual valve control, for both single-acting or			•			•	VM-4	20	
double-acting applications			•	•	•	•	VM-4L	20	
Manual motor control.	N. S.		•	•	•	•	VM-4	40	
GPER-Series with Solenoid Valve		•		•	•	•	VSP-324	10	
Ideal for production and lifting applications			•	•	•	•	VSP-424	20	
All valves are 3-position for Advance-Hold-Retract			•	•	•	•	VSP-424	40	
 Push-button control pendant with 3 m cord controls the valve. 									
the valve.									

^{*} All models in this chart are 400 VAC, 3 phase at 50 Hz. For other options please refer to the Hushh Pump ordering matrix on page 7.

^{**} See pages 8-11 for technical information of valves.

Hushh Modular Electric Pumps

- Available as two-stage model for reduced cycle times and improved productivity
- · Easy to customize with modular standard accessory kits
- · 24 VDC solenoid valves and remote pendant controls for safer operation
- 40 micron filtered breather with splash guard
- · User adjustable pressure external relief valve
- · Easy to read integrated oil level sight glass
- · Totally enclosed fan-cooled motors are ideal for outdoor use in many environments
- 70-74 dBA for quiet in-plant applications

GPE Series





Reservoir Capacity: 10 - 20 - 40 litres

Flow at Rated Pressure:

0,55 - 0,82 - 1,64 I/min

Motor Size:

0,75 - 1,10 - 2,20 kW

Maximum Operating Pressure:

700 bar

Single Stage or Two Stage Choose Single Stage operated pumps, for applications that require constant

testing or clamping.

Two Stage operated pumps have an increased output flow (appr. 10x higher) at pressures below 55 bar. flow regardless of pressure, such as This allows fast plunger movement towards the load, for reduced cycle times and increased productivity.

2-Se Output Flow R	ries ate at	(0,75 kW) : 700 bar: 0,55 l	/min			(1,10 kW) t 700 bar: 0,82 l	/min	5-Se Output Flow R		(2,20 kW) t 700 bar: 1,64	l/min
Single Stage	Э	Two Stage)	Single Stage	е	Two Stage		Single Stage	е	Two Stage	e
Model Number	À	Model Number	À	Model Number	À	Model Number	À	Model Number	À	Model Number	Ā
	(kg)		(kg)		(kg)		(kg)		(kg)		(kg)
GPEW-2010WS	54	-		GPEW-3010WS	57	-		GPEW-5010WS	66	-	
GPEW-2020WS	66	GPEW-2020W	67	GPEW-3020WS	72	GPEW-3020W	73	GPEW-5020WS	74	-	
-		GPEW-2040W	85	-		_		GPEW-5040WS	92	GPEW-5040W	93
		-		-		-		-		-	
-		-		GPED-3110WS	59	-		GPED-5110WS	75	-	
GPED-2120WS	68	GPED-2120W	69	-		GPED-3120W	68	-		GPED-5120W	84
GPEM-2210WS	60	-		-		-		-		-	
GPEM-2310WS	62	-		GPEM-3310WS	65	-		-		-	
-		-		GPEM-3620WS	74	GPEM-3620W	75	-		GPEM-5620W	77
GPEM-2420WS	69	GPEM-2420W	70	-		GPEM-3420W	73	-		-	
GPEM-2820WS	71	GPEM-2820W	72	-		GPEM-3820W	75	GPEM-5820WS	76	GPEM-5820W	77
-		GPEM-2440W	90	-		-		-		-	
GPER-2310WS	70	GPER-2310W	71	-		-		GPER-5310WS	76	-	
GPER-2420WS	78	GPER-2420W	82	GPER-3420WS	86	-		-		GPER-5420W	85
-		GPER-2440W	99	-		GPER-3440W	105	-		GPER-5440W	105

^{*} All models in this chart are 400 VAC, 3 phase at 50 Hz. For other options please refer to the Hushh Pump ordering matrix on page 7.

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GPE-series, **Hushh Modular Electric Pumps**

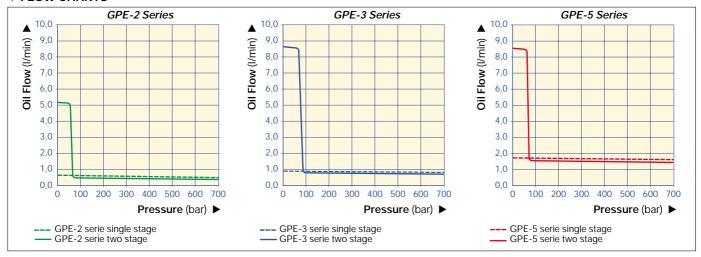


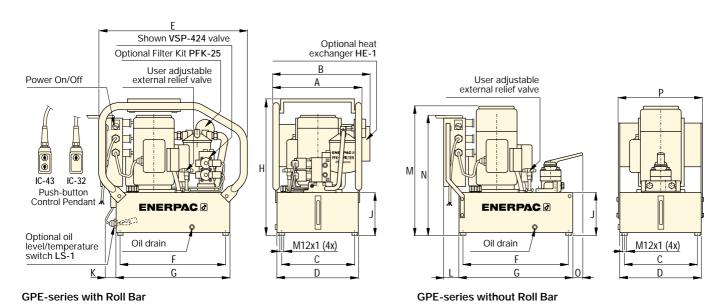
▼ PERFORMANCE CHART

Hushh Pump GPE-	Operation		Flow Rate		e Rating ar)	Type of Pump		Moto	Size	Relief Valve Adjustment Range	Usable Oil Capacity	Sound Level
Series		1st stage	2 nd stage	1 st stage	2 nd stage	1st stage	2 nd stage	kW	RPM	(bar)	(litres)	(dBA)
2 (0,75 kW)	Single-stage	_	0,55	-	700	-	3x Rad. pist.	0,75	1390	55-700		70
2 (U,73 KVV)	Two-stage	5,10	0,55	55	700	gerotor	3x Rad. pist.	0,75	1390		9,5	
3 (1,10 kW)	Single-stage	_	0,82	_	700	ı	3x Rad. pist.	1,10	1390	55-700	18,9	72
3 (1,10 KVV)	Two-stage	8,74	0,82	55	700	gerotor	3x Rad. pist.	1,10	1390	33-700	37,9	/2
5 (2,20 kW)	Single-stage	_	1,64	_	700	-	3x Rad. pist.	2,20	1390	55-700		74
3 (2,20 KVV)	Two-stage	8,74	1,64	55	700	gerotor	3x Rad. pist.	2,20	1390	33-700		/4

Output flow rate at 50 Hz.

▼ FLOW CHARTS





Reservoir Capacity															
(litres)	A	В	С	D	E	F	G	Н	J	К	L	М	N	0	Р
10	257	371	165	223	676	475	506	575	180	60	70	530	455	30	260
20	384	434	312	350	676	475	506	600	180	60	70	570	550	30	390

506

725

325

60

70

715

350 676 475

Return Line Filter & Heat Exchanger Kits

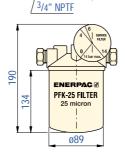
▼ PFK-25 mounted on GPE-5420WFHL



Extends life of hydraulic components and increases system reliability

- 25 micron nominal filter cleans oil to increase system life
- Internal by-pass valve to prevent damage if the filter is dirty
- Kit assembles quickly and easily to Enerpac pumps and manifolds
- · Replaceable filter element
- Maintenance indicator included
- All installation components included

3/8" NPTF



Side view left PFK Series



Filtration:

25 micron

Maximum Operating Pressure:

13,8 bar

î

Return Line Filter

Removes contaminants from return oil before allowing it back into the reservoir, reducing component damage created by oil borne contaminants.



PF-25 Replacement Filter Element

For best performance, replace filter element regularly.

Nominal filtration	Model number	Maximum pressure	Maximum oil flow	By-pass setting	Filter gauge/ service	Replace- ment filter	À
micron		bar	l/min	bar	indicator	element	kg
25	PFK-25	13,8	45,4	1,7	yes	PF-25	1,1

▼ HE-1 mounted on GPE-5420WFHL



Extends system life

- Stabilizes oil temperature at a maximum of 54 °C at 21 °C ambient temperature
- Stabilizes oil viscosity, increasing oil life and reduces wear of pump and other hydraulic components
- Kit assembles quickly to Enerpac pump, no special tools required
- Electrical connector factory installed
- All installation components included

HE Series



Heat Transfer:

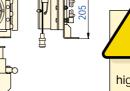
950 kJ / 900 Btu/h

Maximum Operating Pressure:

20,7 bar

Voltage:

24 VDC



Hydraulic hose

Length 280 mm Air flow

ID ø 16 mm



Do not exceed maximum flow and pressure ratings. Heat exchanger is not suitable for water-glycol or

high water based fluids.

Voltage	Model number	Thermal transfer *		Amperage draw	Maximum pressure	Maximum oil flow	À
Volt		Btu/h	kJoule	Amps	bar	l/min	kg
24	HE-1	900	950	0,26	20,7	26,5	2,9

*At 1,9 I/min at ambient temperature 21 °C.

Float/Temperature and Pressure Switch Kits

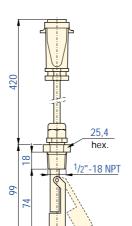


▼ LS-1 mounted on GPER-5420WFHL



Electronic float switch for feedback on pump oil level

- Shuts down the pump before oil level reache unsafe level
- Built-in thermal sensing shuts off pump when unsafe operating temperature is reached
- Drop-in design allows for easy installation to pump reservoir
- Plugs directly into pump electrical enclosure



LS Series



Switchpoint:

80°C

Voltage:

24 V

Float/Temperature Switch
Oil level indicator for pump
reservoir. If the pump is mounted
in a remote area that does not
provide visual access to the external oil
level sight, the float switch provides a
signal to turn off the pump before internal
damage can occur due to cavitation.

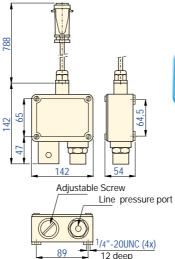
Fixed Temperature Signal	Voltage	Model number	Operating temperature	Thermostat Rating	Maximum Pressure	À
°C	VDC		°C	Amps	bar	kg
80	24	LS-1	5 - 110	2,6	10	1,1

▼ Pressure switch IC-7234



Controls your pump, monitors your system

- Accuracy of ± 2% of full scale
- · High duty cycle
- · Mechanical adjustment
- Includes pressure gauge G2536L
- Integrated kit mounts easily to your hydraulic system
- · All installation components included



IC Series



Pressure Range:

35 - 700 bar

Accuracy:

±2% of full scale

IC-7234 Pressure Switch
Monitors the hydraulic system to
determine any change of
pressure. The signal can then be used to
control the pump, or other peripheral
devices.

IC-7234 and electrical harness are specifically designed to work in conjunction with the Enerpac electric pump and manifolds. For other uses, please reference individual pressure switches.

Adjustable Pressure Range	Model number	Voltage	Deadband Adjustment	Switchpoint Repeatability	Oil ports	
bar		VDC	bar			kg
35 - 700	IC-7234	24	8,0 - 38,5	± 2%	3/8" NPT	1,1

Modular Hushh Pump Ordering Matrix

CUSTOM BUILD YOUR HUSHH PUMP

Type

If the Hushh Pump that would best fit your application cannot be found in the chart on page 3, here you can easily build your custom Hushh pump.

▼ This is how a Hushh Pump Model Number is built up:



Type

Series

1 Product Type

Type

GP = Global Pump

Type

2 Motor Type

E = Electric Motor

3 Pump Type

D = Dump

F = Foot Switch

L = Manual with Electric Box

M = Manual without Electric Box

N = No Valve with Electric Box

R = Solenoid Valve

V = Electric Valve without Pendant

W = No Valve without Electric Box

4 Pump Series (Flow rate/Motor Size)

2 = 0.55 l/min (0.75 kW)

3 = 0.82 l/min (1.10 kW)

5 = 1,64 l/min (2,20 kW)

5 Valve Type

0 = No valve 1)

1 = Dump Valve

2 = 3-way, 2-position, manual valve

3 = 3-way, 3-position, manual or solenoid valve

4 = 4-way, 3-position, manual or solenoid valve

6 = 3-way, 3-position, manual locking valve with pilot operated check

8 = 4-way, 3-position, manual locking valve with pilot operated check

Ordering Example 1

Model Nr: GPEM-3310WS

Is a 1,1 kW, 700 bar, single stage pump, oil flow 0,82 l/min at 700 bar, with a 3-way, 3-position manual valve VM-3, without an electric box, with a 10 litres reservoir, roll bar and 400V, 3 ph electric motor.

6 Reservoir Capacity

Capacity Voltage

10 = 10 litres

20 = 20 litres

40 = 40 litres

7 Motor Voltage

A = 115 V, 1 ph, 50 Hz ⁵⁾ **E** = 230 V, 1 ph, 50 Hz ⁵⁾ **K** = 440 V, 3 ph, 50 Hz **T** = 230 V, 3 ph, 50 Hz

W = 400 V, 3 ph, 50 Hz

8 Options (leave blanc if not required)

blanc = Two stage

E = EPR Seals

F = Filter Kit

H = Heat Exchanger ²⁾

L = Level/Temperature Switch ²⁾

N = No Roll Bars 3)

P = Pressure Switch 4)

S = Single Stage

V = Viton Seals

- For remote valve or valve block, use a BSS-1090 high pressure connecting plate.
- 2) Requires 24VDC source for heat exchanger on pumps without electric box (GPEM and GPEW-models).
- 3) Unless using the "N" suffix all pumps are supplied with roll bars.
- 4) Pressure switch option only available on pump models with manual valve and electric box (GPEL).
- 5) Not available for the pump serie GPE-5 serie (2,20 kW).

Ordering Example 2

Model Nr: GPER-5420WFHL

Is a 2,2 kW, two stage pump, oil flow 1,64 l/min at 700 bar, with 4-way, 3-pos. solenoid valve VSP-424 with pendant IC-43, 20 litres reservoir, roll bar, 400V, 3 ph, electric motor, filter kit PFK-25, heat exchanger HE-1 and float/temperature switch LS-1

GPE Series





Reservoir Capacity:

10, 20 and 40 litres

Flow at Rated Pressure:

0,55 - 0,82 - 1,64 l/min

Motor Size:

0,75 - 1,10 - 2,20 kW

Maximum Operating Pressure:

700 bar

Viton and EPR Seals

Enerpac pumps and components are shipped with Polyurethane and Buna N seals for most sealing

requirements. These seal compounds offer the best performance and durability for most applications.

For applications that require specialized seals, Enerpac does make available Viton and EPR seals as options for certain pumps. The use of these seals may reduce life between seal changes, but may be the only solution to the application.

Viton: Sometimes required for seal computability issues, such as with most glycols, but most commonly recommended for high temperature applications.

EPR: Generally required for use with fireresistant fluids such as phosphate esters. When used, they must *not* be exposed to mineral-base fluids!

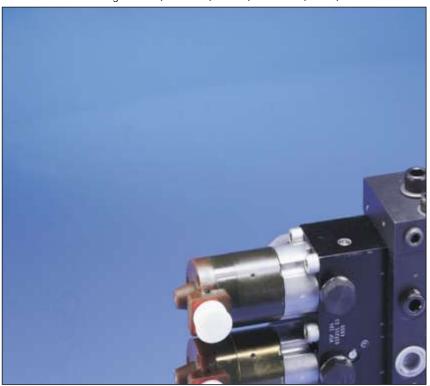
▼ GPER-5420WFHL Hushh pump as described in ordering example 2.



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▼ Shown from left to right: VM-3, VSP-324, VM-3L, VSPR-324, VM-2, VC-15



- 3-way, 3-position valves provide advance/hold/retract operation for use with single-acting cylinders
- · Manual or solenoid operation
- Remote or pump mounting on most Enerpac pumps
- · Return line kit VRL-10 included with remote valves
- Available 'locking' option on VC and VM Series valves for load-holding applications
- Standard 'locking' feature on VSP Series valves
- VSP Series solenoid valves are easily converted to a "dump" style valve by simply changing the IC Pendant
- ▼ A typical multi-cylinder control set-up using V, VC and VM Series Valves.



For Reliable Control of Single-Acting Cylinders



Push-Button Control Station

The push-button control station with 3 m control cord is included with remote mount valves (VSPR). Pump

mounted valves (VSP) are controlled thru the pump's switchbox using the supplied push button control station.

Solenoid Valve Model number	Control station included
VSPR-324	IC-43
VSPR-324D	IC-32

Valve Operation	Valve Location	Valve Type	
Manual	Pump Mounted	2-position	
Manual	Pump Mounted	3-position, Tandem Center	
Manual	Remote Mounted	3-position, Tandem Center	
Manual	Pump Mounted	3-pos., Tandem Center, Locking 1)	
Manual	Remote Mounted	3-pos., Tandem Center, Locking 1)	
Manual	Remote Mounted	3-position, Closed Center	
Manual	Remote Mounted	3-position, Closed Center, Locking 1)	
Solenoid 24 VDC	Remote Mounted	3-position, Tandem Center ²⁾	
Solenoid 24 VDC	Pump Mounted	3-position, Tandem Center ²⁾	
Solenoid 24 VDC	Remote Mounted	2-position, Dump	
Solenoid 24 VDC	Pump Mounted	2-position, Dump	

¹⁾ with pilot-operated check valve.

²⁾ with integrated check valve.

Valve dimensions in mm 3/8"-18NPT 146 184¹ 3/8"-18NP 138 ø8 (6x) 47 63 ø8 (5x) 146 VM-2 1) VM-3L only VM-3, VM-3L Manual override pin 3/8"-18NPT 3/8"-144 18NPT 35 76 114¹

VC/VM VSP Series Г⊉⊓



Flow Capacity: 17 l/min

Maximum Operating Pressure:

700 bar

VC-3, VC-3L, VC-15, VC-15L

1) VC-3L and VC-15L only

Model Number	Hydraulic Symbol	S	chematic Flowpa	th	Ā
Number	Symbol	Advance	Hold	Retract	(kg)
VM-2	A	P		P	2,2
VM-3	A A	A T	P T	A T	2,1
VC-3	PT	*	*	*	2,9
VM-3L		A A	A. T	A T	3,9
VC-3L	PT	***************************************	*	*	4,7
VC-15	A	A 1	A •	A ‡	2,9
VC-15L	A P T	P		P ***	4,7
VSPR-324	A A	A	A A	A	10,8
VSP-324	PT	1	ζ <mark> </mark> , ; τ † † ₽	T + + P	10,7
VSPR-324D	A	Ž.		A	10,8
VSP-324D	PT	717 P		T	10,7

Converting from VSP-dump into a 3-way, 3-position valve

The single button pendant IC-32 changes any 3-way VSP-valve into a dump valve.

By changing from IC-32 to an **IC-43** you convert a VSP-dump into a 3-way, 3-position valve.



Conversion Kit VSPCK-24

For use when replacing a BVS-3 valve with a VSP-324 valve. This is necessary because it allows for a

pendant connection from the electric box to the valve.



Locking Valves

For applications that require positive load holding, most VC and VM Series valves are available with a pilot-

operated check valve. This option provides hydraulic locking of the load until the valve is shifted into the retract position.

To order this feature, place an "L" at the end of the model number.



▼ Shown from left to right: VC-4L, VSP-424, VM-4, VSPR-424, VC-20L, VM-4L



- 4-way, 3-position valves provide advance/hold/retract operation for use with double-acting or two single-acting cylinders
- Manual or solenoid operation
- Remote or pump mounting on most Enerpac electric pumps
- · Return line kit VRL-10 included with remote valves
- Available 'locking' option on VC and VM Series valves for load-holding applications
- Standard 'locking' feature on VSP Series valves
- ▼ A 4-Way directional control valve together with a pressure relief valve are used here to control a double-acting cylinder.



For Double-Acting Cylinder Control

Push-Button Control Station

The push-button control station with 3 m control cord is included with remote mount valves (VSPR). Pump

mounted valves (VSP) are controlled thru the pump's switchbox using the supplied push button control station.

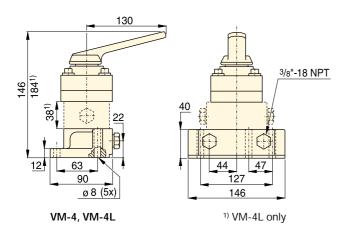
Solenoid Valve Model number	Control station included
VSPR-424	IC-43

Valve Operation	Valve Location	Valve Type		
Manual	Pump Mounted	3-position, d Tandem Center		
Manual	Remote Mounted	3-position, Tandem Center		
Manual	Pump Mounted	3-pos., Tandem Center, Locking 1)		
Manual	Remote Mounted	3-pos., Tandem Center, Locking 1)		
Manual	Remote Mounted	3-position, Closed Center		
Manual	Remote Mounted	3-position, Closed Center, Locking 1)		
Solenoid 24 VDC	Remote Mounted	3-position, Tandem Center ²⁾		
Solenoid 24 VDC	Pump Mounted	3-position, Tandem Center ²⁾		

¹⁾ with pilot-operated check valves.

²⁾ with integrated check valves.

Valve dimensions in millimetres.



VC/VM VSP Series

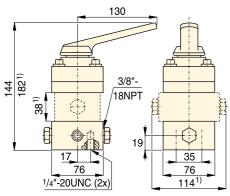




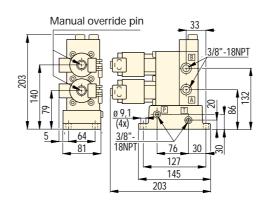
Flow Capacity: 17 l/min

Maximum Operating Pressure:

700 bar







VSP-424, VSPR-424

Model	Hydraulic Symbol	S	Ā		
Number	Зушьы	Advance	Hold	Retract	(kg)
VM-4	A B A B	P	A. T.	P	2,1
VC-4		B	B	В	2,9
 VM-4L	A B	P	P T	A T	3,9
VC-4L		B	B	B	4,7
VC-20	A B P T	A †	A 🌉	A ♥	2,9
VC-20L		P B t	P B	P	4,7
VSPR-424	A B	B	B	<u>B</u> B	10,8
VSP-424	PT	T P	T P	TA P	10,6



Conversion Kit VSPCK-24

For use when replacing a BVS-4 valve with a VSP-424 valve. This is necessary because it allows for a

pendant connection from the electric box to the valve.



Locking Valves

For applications that require positive load holding, most VC and VM Series valves are available with a pilot-

operated check valve. This option provides hydraulic locking of the load until the valve is shifted into the retract position.

To order this feature, place an "L" at the end of the model number.

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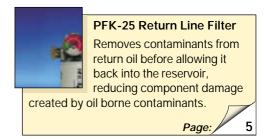
GPA-Series, Modular Air/Hydraulic Pumps



▼ GPAM-2410



Power Large Hydraulic Jobs with Compressed Air





RFL-102
Regulator-Filter-Lubricator
Recommended for use with
all air pumps. Provides
clean, lubricated air and

allows for air pressure adjustment. Steel bowl guards are standard.

- Available as two-stage model for reduced cycle times and improved productivity
- · User adjustable pressure external relief valve
- Including large muffler avoids freezing of exhaust line and reduces sound level to 74 dBA
- · 40 micron filtered breather with splash guard
- Easy to read integrated oil level sight glass
- 70-74 dBA for quiet in-plant applications

▼ SELECTION CHART

BASIC PUMP CONFIGURATIONS Select your pump model here for most applications.	Used with Cylinder		Val	lve Funct	ion	Valve* Model	Reservoir Capacity	
For special requirements see the hushh air pump ordering matrix. Page: 7					+	Number	(litres)	
GPAW-Series without Valve						_	10	
• Ideal for matching your valving to your needs, for example in						_	20	
production applications.						_	40	
For remote valve or valve block, use a BSS1090 high pressure connecting plate								
pressure connecting plate								
GPAM-Series with Manual Valve	•		•		•	VM-2	10	
Ideal choice for most applications	•		•	•	•	VM-3	10	
Manual valve control, for both single-acting or double-acting	•		•	•	•	VM-3L	20	
applications	•	•	•	•	•	VM-4	10	
	•	•	•	•	•	VM-4L	40	

^{*} See pages 8-11 for technical information of valves.

Modular Air/Hydraulic Hushh Pumps

CUSTOM BUILD YOUR AIR HYDRAULIC PUMP

Type

If the Air Hydraulic pump that would best fit your application cannot be found in the charts, here you can easily build your custom pump.

▼ This is how an Air Hydraulic Pump model number is built up:



Series

Type

Type Type 1 Product Type

GP = Global Pump

2 Motor Type

= Air Motor

3 Pump Type

M = With Manual Valve

W = Without Valve

4 Pump Series (Flow rate)

> = 0.72 I/min= 1,05 l/min

5 Valve Type

 $0 = \text{No valve}^{1)}$

2 = 3-way, 2-position, manual valve

3 = 3-way, 3-position, manual

4 = 4-way, 3-position, manual valve

6 = 3-way, 3-position, manual locking valve with pilot operated check

8 = 4-way, 3-position, manual locking valve with pilot operated check

6 Reservoir Capacity

10 = 10 litres 20 litres

40 = 40 litres

7 Options

Capacity

blanc = Two stage

F Return Filter Kit

N = No Roll Bars 2)

S = Single Stage

V = Viton Seals

(leave blanc if not required)

E = EPR Seals

Ordering Example

Example: GPAM-2410FS

The GPAM-2410FS is an air operated, single stage hydraulic pump, flow 0,72 lmin at 700 bar, with a 4-way, 3-position manual valve, a 10 litres reservoir, with rollbar and return filter.

- 1) For remote valve or valve block, use a BSS-1090 high pressure connecting plate.
- 2) Unless using the "N" suffix all pumps are supplied with roll bars.

GPA Series





Reservoir Capacity:

10 - 20 - 40 litres

Flow at Rated Pressure:

0,72 - 1,05 l/min

Air Consumption:

3900 I/min

Motor Size:

3,0 kW

Maximum Operating Pressure:

700 bar

		(3,0 kW) 0 bar: 0,72 l/mi	3-Series (3,0 kW) Flow Rate at 700 bar: 1,05 l/min						
Single Stag	е	Two Stage		Single Stag	е	Two Stage			
Model Number	(kg)	Model Number	(kg)	Model Number	(kg)	Model Number	(kg)		
CDAW 2010C	(kg)	CDAW 2010	(kg)	CDAW 2010C	(kg)	CDAW 2010	(kg)		
GPAW-2010S	50	GPAW-2010	51	GPAW-3010S	53	GPAW-3010	54		
GPAW-2020S	62	GPAW-2020	63	GPAW-3020S	65	GPAW-3020	66		
GPAW-2040S	90	GPAW-2040	91	GPAW-3040S	93	GPAW-3040	94		
GPAM-2210S	52	_		GPAM-3210S	54	-			
GPAM-2310S	55	GPAM-2310	56	GPAM-3310S	57	GPAM-3310	58		
GPAM-2620S	68	GPAM-2620	69	GPAM-3620S	70	GPAM-3620	71		
-		GPAM-2410	58	GPAM-3410S	60	GPAM-3410	61		
_		GPAM-2640	95	_		GPAM-3640	97		



Single Stage or Two Stage

Choose Single Stage operated pumps, for applications that require constant flow

regardless of pressure, such as testing or clamping.

Two Stage operated pumps have an increased output flow (appr. 10x higher) at pressures below 55 bar. This allows fast plunger movement towards the load, for reduced cycle times and increased productivity.

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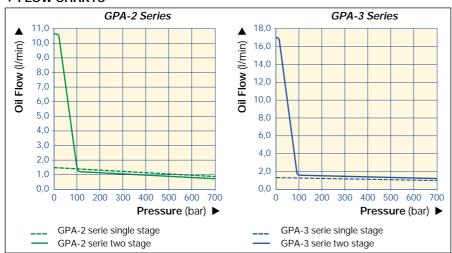
GPA-Series, Modular Air/Hydraulic Pumps

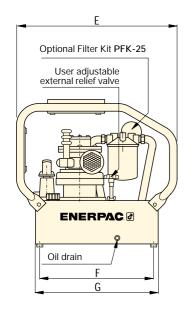


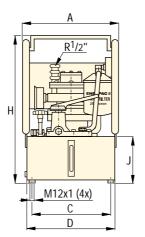
▼ PERFORMANCE CHART

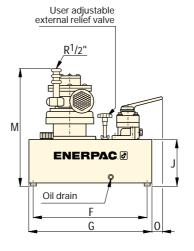
Hushh Pump GPA-	Operation	'	low Rate	Pressure (ba	3	Тур	Type of Pump Motor S		, ,		,		,		, ,		r Size	Air Consump- tion	Relief Valve Adjustment Range	Sound Level
Series		1st stage	2 nd stage	1st stage	2 nd stage	1st stage	2 nd stage	kW	RPM	(I/min)	(bar)	(dBA)								
2 (3,0 kW)	Single-stage	_	_	-	700	_	3x Rad. pist.	3,0	3000	3900	55-700	74								
2 (3,0 KVV)	Two-stage	10,84	0,72	55	700	gerotor	3x Rad. pist.	3,0	3000	3700	33 700	''								
3 (3,0 kW)	Single-stage	_	_	-	700	-	3x Rad. pist.	3,0	3000	3900	55-700	74								
3 (3,0 KVV)	Two-stage	10,84	0,72	55	700	gerotor	3x Rad. pist.	3,0	3000	3700	33 700	, 4								

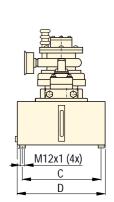
▼ FLOW CHARTS











GPA-Series with Roll Bar

GPA-Series without Roll Bar

Reservoir Capacity	Usable Oil Capacity		Dimensions GPA-Series (mm)											
(litres)	(litres)	Α	С	D	E	F	G	Н	J	М	0			
10	9,5	257	165	223	676	475	506	575	180	480	30			
20	18,9	384	312	350	676	475	506	600	180	480	30			
40	37,9	384	312	350	676	475	506	725	325	625	30			



About Enerpac



Enerpac manufacturers high-force hydraulics (cylinders, pumps, valves, presses, pullers, tools, accessories and system components) for industry and construction and provides hydraulic workholding and OEM solutions to industry worldwide.

With an 80-year history of quality and innovation, the broadest line in the business, and more than 4,000 distributors and factory-trained service centers around the world, Enerpac leads the industry by setting new standards in design, strength, durability and local support. Strict quality programs, zero tolerance for defects, and ISO-9001 certification are your assurance of safe, trouble-free operation.

Enerpac is ready to tackle your toughest challenge and provide the hydraulic advantage you need to increase productivity, labor efficiency and speed of operation.

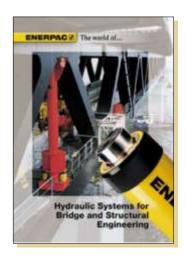
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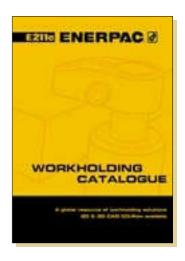
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