

Shown: ZW5111SWE100



► Enerpac's workholding pump unit features an innovative range of zero leakage, poppet design, directional valves. With the modular valve design, various independent single-acting or double-acting circuits can be realized.

Application

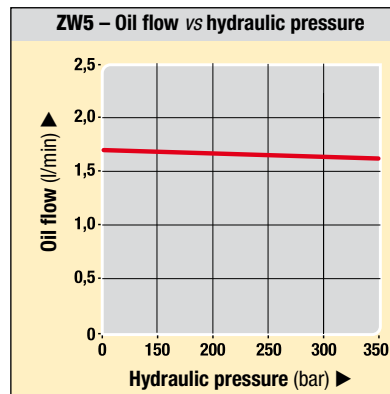
These advanced workholding pumps, operating at maximum 350 bar hydraulic pressure, are highly suitable for production tooling applications – offering the optimum in terms of compact size for required oil flow and pressure rating and customization to your specific needs.

Enerpac electric pump used in conjunction with swing cylinders, work supports, directional valves, control valves and sequence valves can provide a complete clamping solution. The pressure switch allows the unit to be fully automated.

Customize to your needs

- Various models including electric controls and pressure switch
- Stackable to 8 VP-series valve stations high
- Customer adjustable relief valve
- Glycerine dampened pressure gauge G-2517L on pumps with VP-series valves
- 230/460/3/50/60 Hz 1,1 kW motor.

Output oil flow



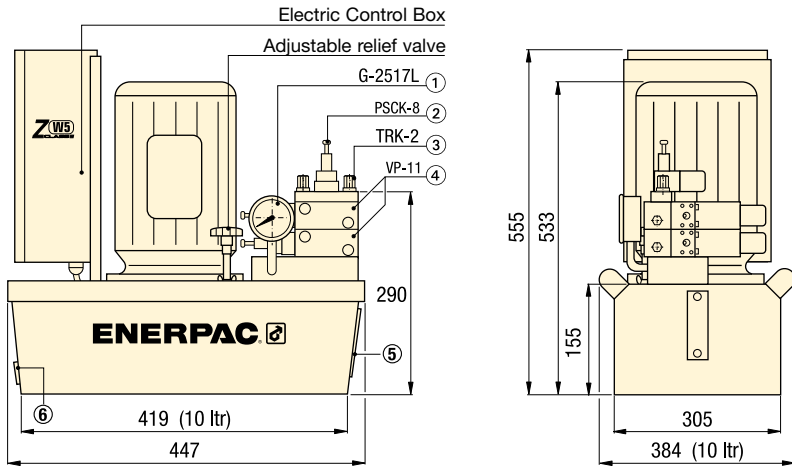
Product selection

Oil flow rate	Pressure range	Voltage and current	Usable oil capacity ²⁾	Valve models included	Model number	kg
l/min	bar	V @ A	litres			
▼ With manifold for VP-series modular valves, no electric controls						
1,64	100-350	230 @ 4,8	10,0	–	ZW5VPSEE100	65
1,64	100-350	400 @ 2,4	10,0	–	ZW5VPSWE100	65
▼ With manifold for CETOP 03 valves, no electric controls						
1,64	100-350	230 @ 4,8	10,0	–	ZW5C03SEE100	65
1,64	100-350	400 @ 2,4	10,0	–	ZW5C03SWE100	65
▼ For 2x single-acting circuits						
1,64	100-350	230 @ 4,8	10,0	1x VP-41	ZW5141SEE100	77
1,64	100-350	400 @ 2,4	10,0	1x VP-41	ZW5141SWE100	77
▼ For 1x double-acting circuits + isolating valve ¹⁾ for A-port						
1,64	100-350	230 @ 4,8	10,0	1x VP-11	ZW5111SEE100	77
1,64	100-350	400 @ 2,4	10,0	1x VP-11	ZW5111SWE100	77
▼ For 2x double-acting circuits + isolating valves ¹⁾ for all A-ports						
1,64	100-350	230 @ 4,8	10,0	2x VP-11	ZW5211SEE100	80
1,64	100-350	400 @ 2,4	10,0	2x VP-11	ZW5211SWE100	80

¹⁾ Isolating valve is pressure switch PSCK-8.

²⁾ ZW5-series pumps comes standard with 8 litres reservoir. (4, 8, 20 or 40 reservoir is optional).

ZW5-series Shown: ZW5211SEE100 with standard 10 litres reservoir



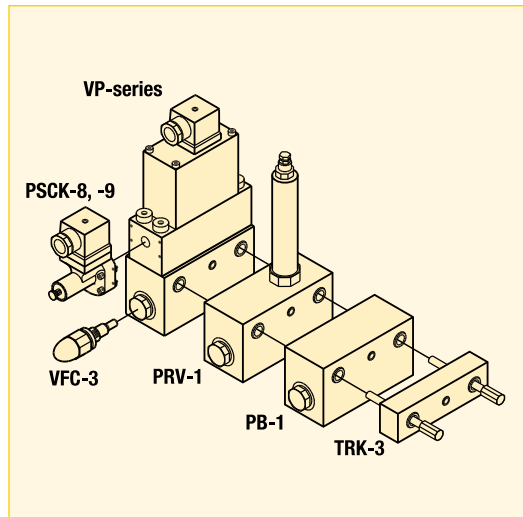
- ① Pressure gauge
- ② Pressure switch
- ③ Tie Rod Kit
- ④ Directional valve
- ⑤ Oil level glass
- ⑥ Oil drain

Product selection

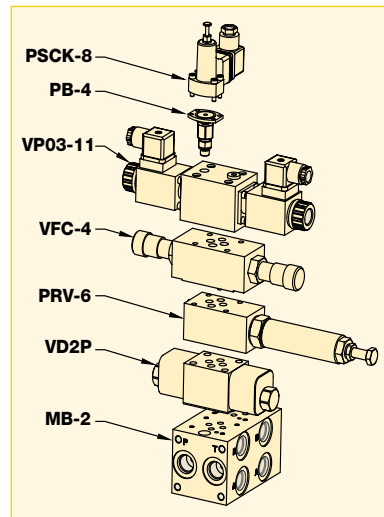
Pump series	Voltage	Phase	Continuous operation at 350 bar	Motor capacity	Motor speed	Motor protection class	Sound Level
	Volt			kW	RPM		dBa
ZW5....	230	1	50%	1,1	1390	IP54	75
ZW5.....	400	3	50%	1,1	1390	IP54	75

Valve options

See page 136 for VP-series valves and available options.

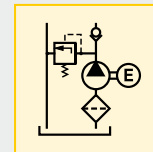


See page 141 for VP03-series valves and available options.





- Flow: 1,64 l/min**
- Pressure: 100 - 350 bar**
- Motor: 1,1 kW**
- Reservoir: 4 - 40 litres**

- E Bombas eléctricas**
- F Centrale hydraulique**
- D Modulare Spannumpme**



Options


VP-series, modular valves  [136](#)

VFC-3 flow control valve  [137](#)

Pressure switches  [188](#)

Hoses and couplers  [192](#)

High-pressure filters  [193](#)

Fittings  [194](#)

Electric Driven Workholding Pumps *Application & selection*

Shown: ZW5111SWE100



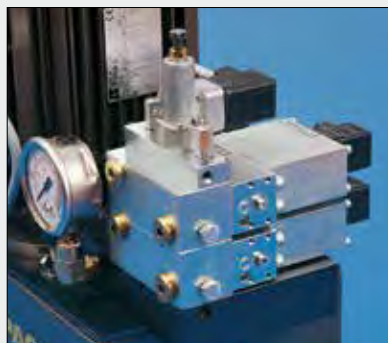
ZW5 series

These advanced workholding pumps, operating at maximum 350 bar hydraulic pressure, are highly suitable for production tooling applications – offering the optimum in terms of compact size for required oil flow and pressure rating and customization to your specific needs.

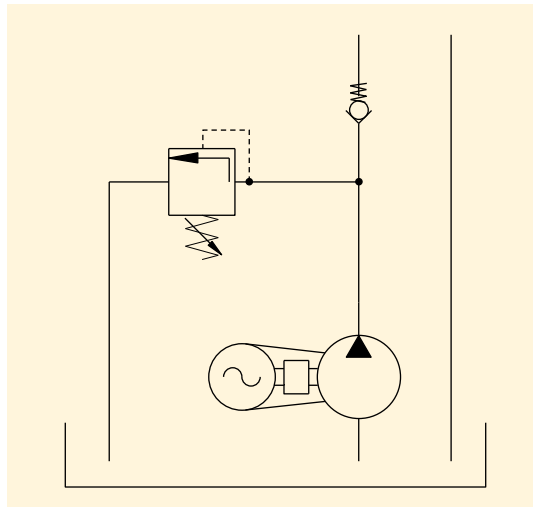
Application

Enerpac electric pump used in conjunction with swing cylinders, work supports, directional valves, control valves and sequence valves can provide a complete clamping solution. The pressure switch allows the unit to be fully automated.

■ Enerpac VP-series valves stackbuilt on ZW5211SWE100. The pressure switch PSCK-8 is mounted directly onto the endplate of Tie Rod Kit TRK-2.



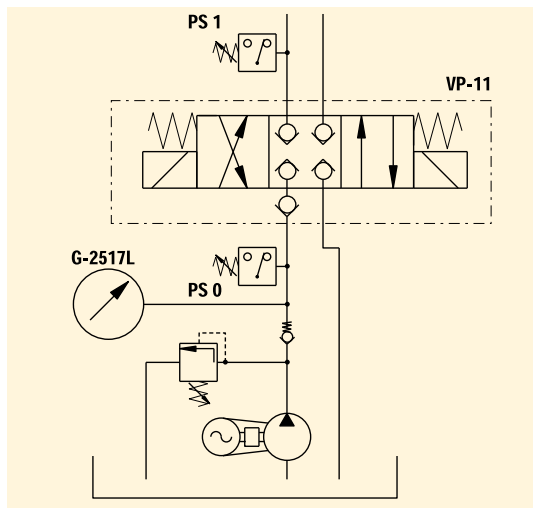
ZW5VPSEE100 with manifold for VP-series or CETOP 03 valves, without electric controls and gauge



Basic pumps

Customize to your needs with the Enerpac VP-series valves and options or choose your own D03 valve.

ZW5111SEE100 For 1x Double-Acting circuit and Isolating Valve for A-port



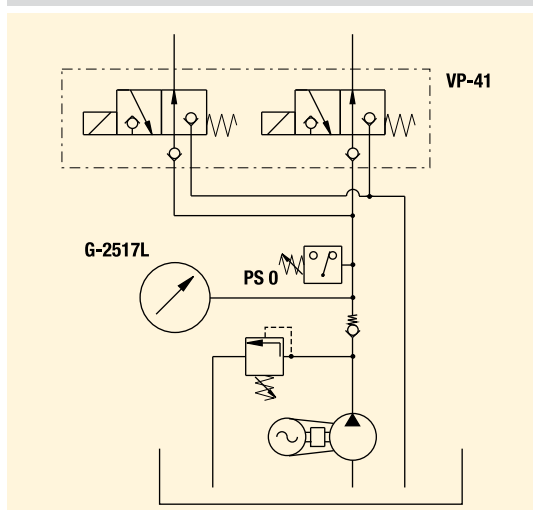
Isolating valves

For applications where clamping pressure has to be maintained, isolating valves are an economic and safe solution.

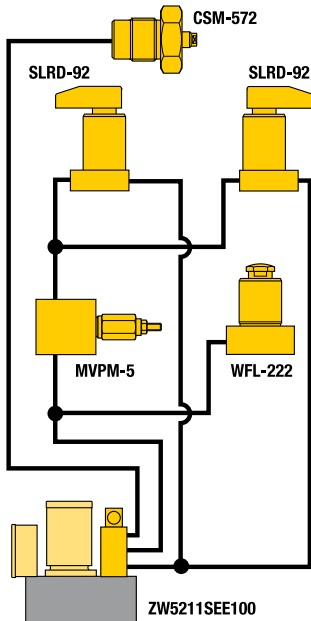
The pressure switch (PS 1) switches in the hydraulic line to the cylinder actuates the valve with a closed center position and isolates the circuit when the preset pressure has been reached. In case of pressure drop the switch opens the valve to compensate.

For some particular applications, i.e., when a workpiece has to be positioned and clamped with different forces, you can set different isolating valve pressures for the independent circuits.

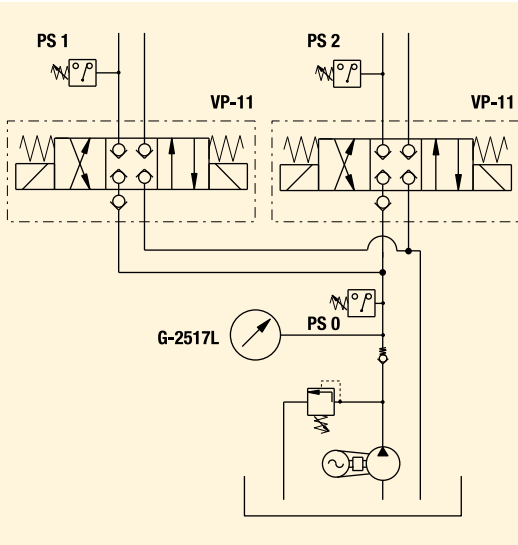
ZW5141SEE100 For 2x Single-Acting circuits



Pressure switch (PS 0) switches the motor off at maximum pressure; in case of pressure drop due to activating circuits, the motor restarts.



ZW5211SEE100 for 2x Double-Acting circuit and Isolating Valve for all A-ports



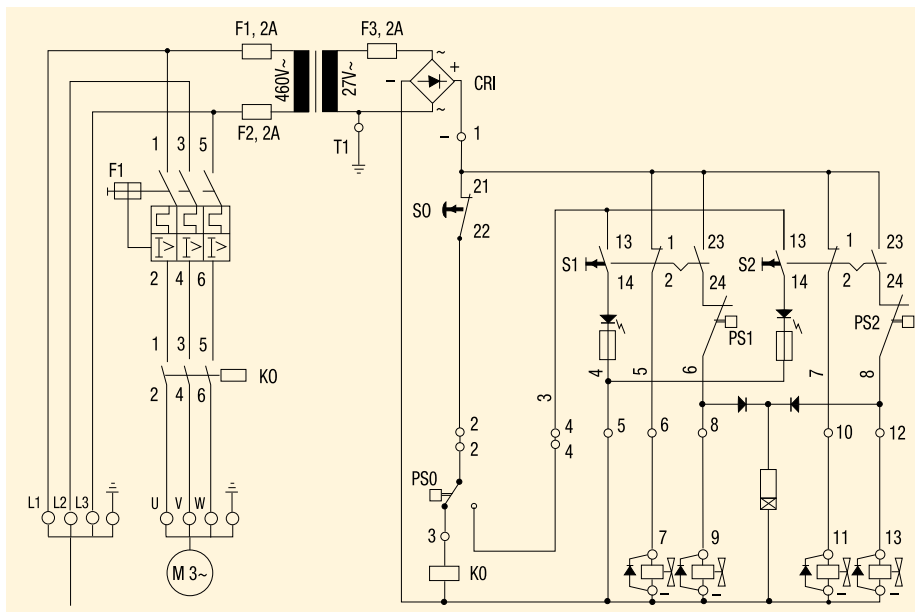
Application example

Building the right workholding system for a specific production tooling requirement is best achieved by observing the Basic System Set-up in our "Yellow Pages" (□202 ▶).

Electric Scheme

Shown the electric scheme of the ZW5211SWE100 (400 volt) for two double-acting circuits and isolating valves (pressure switches) in both A-lines.

ZW5211SWE100



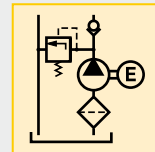
Flow: 1,64 l/min

Pressure: 100 - 350 bar

Motor: 1,1 kW

Reservoir: 4 - 40 litres

- E** Bombas eléctricas
- F** Centrale hydraulique
- D** Modulare Spannumppe



Options

Sequence valves □152 ▶

Flow control valves □155 ▶

Hoses and couplers □192 ▶

High pressure filters □193 ▶

Hydraulic oil □193 ▶

Fittings □194 ▶

VP-series valve options □136 ▶

