

Portable Electric Torque Wrench Pumps

▼ PMU-10422



- Powerful two-speed pump is lightweight and easy to carry
- Standard heat exchanger package on PMU-Series keeps pump cool under extreme use
- Glycerin filled gauge with scales reading in psi and bar
- Transparent overlays in Nm and Ft.lbs for all Enerpac torque wrenches provide a quick torque reference
- Universal motor for a high power-to-weight ratio; generates full pressure on as little as 50% of the rated line voltage
- Adjustable pressure relief valve for accurate torque adjustments and precise repeatability.

▼ SELECTION CHART

For Use With Torque Wrenches		Maximum Pressure Rating (bar)		Oil Flow Rate (l/min)		Model Number with Heat Exchanger *	Useable Oil Capacity (litres)	Electric Motor (Volt-phase-Hz)	Dimensions L x W x H (mm)	Weight (kg)
		1 st stage	2 nd stage	1 st stage	2 nd stage					
S1500X S3000X	W2000X W4000X	48	700	3,3	0,33	PMU-10427-Q	1,9	115 - 1 - 50/60	431x280x381	21
		48	700	3,3	0,33	PMU-10447-Q	3,8	115 - 1 - 50/60	431x330x381	24
		48	700	3,3	0,33	PMU-10422-Q	1,9	230 - 1 - 50/60	431x280x381	21
		48	700	3,3	0,33	PMU-10442-Q	3,8	230 - 1 - 50/60	431x330x381	24
SQD-25-I SQD-50-I	HXD-30 HXD-60	48	800	3,3	0,33	PMU-10427	1,9	115 - 1 - 50/60	431x280x381	21
		48	800	3,3	0,33	PMU-10447	3,8	115 - 1 - 50/60	431x330x381	24
		48	800	3,3	0,33	PMU-10422	1,9	230 - 1 - 50/60	431x280x381	21
		48	800	3,3	0,33	PMU-10442	3,8	230 - 1 - 50/60	431x330x381	24

* For pump without heat exchanger change PMU into PME. Example **PME-10442-Q**.
PME-Series pump size: 250 x 250 x 360 mm. Weight 18 kg (1,9 litres) and 21 kg (3,8 litres).

PME PMU Series



Reservoir Capacity:
1,9 - 3,8 litres

Flow at Rated Pressure:
0,33 l/min

Motor Size:
0,37 kW

Maximum Operating Pressure:
700 - 800 bar



Torque Wrench Hoses

Use Enerpac twin safety hoses to connect your torque wrench to the pump.

For 700 bar	Model-Nr.
6 m long, 2 hoses	THQ-706T
12 m long, 2 hoses	THQ-712T
For 800 bar	
6 m long, 2 hoses	THC-7062
12 m long, 2 hoses	THC-7122



Gauge and Overlay Kit

Available separately for use with PMU-Series pumps:

GT-4015-Q includes gauge and overlays for all S- and W-Series wrenches.

GT-4015 includes gauge and overlays for all SQD and HXD Series wrenches.

▼ TQ-700E



- **Optimized flow technology – three stage pump maximizes productivity of the pump and tool while minimizing heat build-up and down time**
- **Heat exchanger is standard included**
- **A quiet (<85 dBA), lightweight pump with a compact footprint – easy to move around and through the work site**
- **Durable roll cage with an ergonomically sized handle and shielded gauge – a pump that is easy to put into position and safe from on site operational hazards**
- **Maintenance made simple with a brushless motor designed for continuous usage**
- **Straightforward operation with a simple pressure set and convenient to use 6 m pendant control – immediate productivity for crews operating the pump**
- **IP55 Rating for Superior Dust and Water Protection**
- **Transparent gauge overlays in Nm and Ft.lbs for all Enerpac S and W-Series torque wrenches provide a quick torque reference.**

Lightweight Torque Wrench Pumps



Four Port Manifold

The TQ-700 offers an optional four wrench manifold as an accessory factory installed. (Add suffix "M" at the end of the model number.

For example: **TQ-700EM**).



Hydraulic Torque Wrenches

Enerpac offers a complete range of square drive and hexagon cassette torque wrenches.

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Torque Wrench Hoses

Use Enerpac THQ-700 series twin hoses with 700 bar pumps.

For 700 bar	Model Nr.
6 meters long, 2 hoses	THQ-706T
12 meters long, 2 hoses	THQ-712T



The TQ-700E and the W-Series wrenches are a productive combination in wind applications. ▶

Electric Torque Wrench Pumps

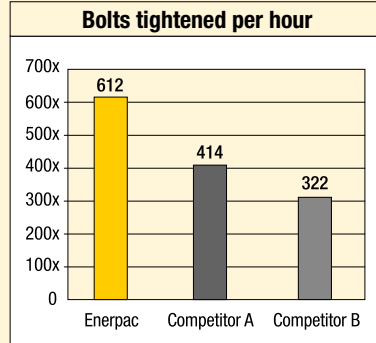


TQ-700 Applications

The TQ-700 Series pump is ideal for powering hydraulic wrenches for the Power Generation and Wind Markets.

Bolting speed is more complex than how much flow per minute the pump produces. The key is optimising the flow rate across the entire bolting cycle. With more oil flowing at the right time and at the right volume, you achieve the optimized flow for a hydraulic bolting system.

The result of this optimized flow is more bolts tightened faster and a more productive work team.



Internal laboratory testing based on standard torquing procedure on a pipe flange with 14, 1 1/2" bolts.

TQ Series



Reservoir Capacity:

4,0 litres

Flow at Rated Pressure:

0,5 l/min

Motor Size:

0,75 kW

Maximum Operating Pressure:

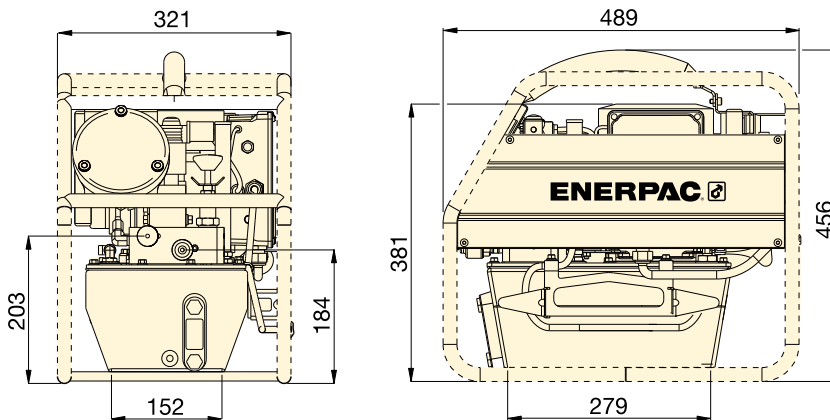
700 bar



Torque Wrench Pump Selection Matrix

For optimum speed and performance see the torque wrench, pump and hose selection matrix.

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For Use with Torque Wrenches	Pressure Rating (bar)	Model Number ¹⁾	Useable Oil Capacity (litres)	Motor Size (kW)	Motor Electrical Specifications (Volt - Ph - Hz)	Sound Level (dBA)	Weight (kg)
All S and W-Series	700	TQ-700B	4,0	0,75	115 - 1 - 50/60	82 - 85	31
	700	TQ-700E ²⁾	4,0	0,75	230 - 1 - 50	82 - 85	30
	700	TQ-700I ³⁾	4,0	0,75	230 - 1 - 60	82 - 85	30

¹⁾ All models meet CE safety requirements and all TÜV requirements.

²⁾ TQ-700E with European plug and CE EMC directive compliant.

³⁾ TQ-700I with NEMA 6-15 plug.

▼ The TQ-700E and the W-Series wrenches are a productive combination.



ZU4T,-Series, Electric Torque Wrench Pumps

ENERPAC 
POWERFUL SOLUTIONS. GLOBAL FORCE.

▼ ZU4204TE-Q (Pro-Series), ZU4204BE-Q (Classic)



Z

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Classic Electrical

Basic electrical package includes mechanical contactor, ON/OFF toggle switch, pendant with electro-mechanical push buttons, 24V transformer timer and operator accessible circuit breaker.



Pro-Series

Back-lit LCD and Pressure Transducer featuring Auto-Cycle Technology.

- Features Z-Class high-efficiency pump design; higher oil flow and bypass pressure, cooler running and requires 18% less current draw than comparable pumps
- Powerful 1,25 kW universal electric motor provides high power-to-weight ratio and excellent low-voltage operating characteristics
- High-strength, molded composite shroud protects motor and electrical components, while providing an ergonomic, non-conductive handle for easy transport
- Low-voltage pendant provides additional safety for the operator.

Pro Series pump only

- LCD readout provides pressure display and a number of diagnostic and readout capabilities never before offered on a portable electric pump
- AutoCycle feature provides continuous cycle operation of the torque wrench as long as the advance button is pressed (pump can be used with or without auto cycle feature).

- Torque wrench model is selectable
- "Auto cycle" setting easily programmable.
- Digital read-out and "Autocycle" setting
- Pump usage information, hour and cycle counts
- Low-voltage warning and recording
- Self-test and diagnostic capabilities
- Information can be displayed in English, French, German, Italian, Spanish and Portuguese
- Pressure transducer is more accurate and durable than analog gauges
- Easy-viewing variable rate display
- Display pressure in bar, MPa or psi.



◀ Any brand of hydraulic torque wrench can be powered by the portable ZU4-Series torque wrench pump.

ZU4T-Series, Torque Wrench Pumps



Z-Class – A Pump For Every Application

Patented Z-Class pump technology provides high bypass pressures for increased productivity – important in applications using long hose runs and high pressure-drop circuits, like heavy lifting or certain double-acting tools.

Enerpac ZU4T-Series pumps are built to power small to large torque wrenches. Choosing the right ZU4T-Series torque wrench pump for your application is easy.

Classic Electric Torque Wrench Pump

- The Classic has traditional electro-mechanical components (transformers, relays and switches) in place of solid-state electronics. The Classic delivers durable, safe and efficient hydraulic power.

Pro Series Electric Torque Wrench Pump

- Digital (LCD) display features a built-in hour meter, pressure display and shows self-diagnostic, cycle-count and low voltage warning information. These premium features are not available on any other pump – anywhere!
- Auto-Cycle feature provides continuous cycle operation of the torque wrench as long as the advance button is pressed (pump can be used with or without Auto-Cycle feature).

ZU4T Series



Reservoir Capacity:

4,0 - 8,0 litres

Flow at Rated Pressure:

1,0 l/min

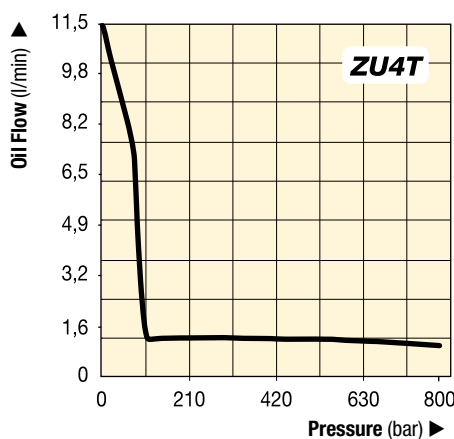
Motor Size:

1,25 kW

Maximum Operating Pressure:

700 - 800 bar

OIL FLOW VERSUS PRESSURE



Torque Wrench Pump Selection Matrix

For optimum speed and performance see the torque wrench pump and hose selection matrix.

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Pump Ratings

-Q suffix pumps are for 700 bar torque wrenches, and include spin-on couplers.

-E suffix pumps are for use with 800 bar torque wrenches, and include polarized lock-ring safety couplers.

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COMMON PUMP MODELS

	For Use With Torque Wrenches	Model Number ^{1) 4)}	Motor Electrical Specification	Usable Oil Capacity (litres)	Weight (kg)
Pro Series	All wrenches	ZU4204TB-Q	115 VAC, 1-ph	4,0	32
		ZU4208TB-Q	115 VAC, 1-ph	8,0	34
		ZU4204TE-Q ²⁾	208-240 VAC, 1-ph	4,0	32
		ZU4208TE-Q ²⁾	208-240 VAC, 1-ph	8,0	34
		ZU4204TI-Q ³⁾	208-240 VAC, 1-ph	4,0	32
		ZU4208TI-Q ³⁾	208-240 VAC, 1-ph	8,0	34
Classic	All wrenches	ZU4204BB-QH	115 VAC, 1-ph	4,0	37
		ZU4204BB-Q	115 VAC, 1-ph	4,0	33
		ZU4208BE-QH ²⁾	208-240 VAC, 1-ph	8,0	38
		ZU4204BE-Q ²⁾	208-240 VAC, 1-ph	4,0	34
		ZU4208BI-QH ³⁾	208-240 VAC, 1-ph	8,0	40
		ZU4208BI-Q ³⁾	208-240 VAC, 1-ph	8,0	36



Gauge and Overlay Kit

Available separately for use with ZU4T-Series Classic: **GT-4015Q** includes gauge and overlays for all S- and W-Series torque wrenches.

GT-4015 includes gauge and overlays for all SQD and HXD torque wrenches.

¹⁾ All models meet CE safety requirements and all CSA requirements.
²⁾ European plug and CE EMC directive compliant
³⁾ With NEMA 6-15 plug
⁴⁾ Select -E suffixed pumps for Enerpac SQD and HXD 800 bar torque wrenches, see page 213.



4-Wrench Manifold

- For simultaneous operation of multiple torque wrenches
- Can be factory installed or ordered separately.

Accessory Kit * Model Nr.	Can be used on ZU4-Series torque wrench pumps
ZTM-E	for 800 bar torque wrenches
ZTM-Q	for 700 bar torque wrenches

* Add suffix **M** for factory installation.

Ordering Example: ZU4208TE-QM



Skid Bar

- Provides greater pump stability on soft or uneven surfaces
- Provides easy two-handed lift.

Accessory Kit * Model Nr.	Can be used on ZU4-Series torque wrench pumps
SBZ-4	4 and 8 litres reservoir ¹⁾
SBZ-4L	4 and 8 litres reservoir ²⁾

* Add suffix **K** to pump model number for factory installation.

¹⁾ Without heat exchanger 2,2 kg.

²⁾ With heat exchanger 3,2 kg.

Ordering Example: ZU4208TE-QK



Heat Exchanger

- Removes heat from the bypass oil to provide cooler operation
- Stabilizes oil viscosity, increasing oil life and reduces wear of pump and other hydraulic components.

Accessory Kit * Model Nr.	Can be used on ZU4-Series torque wrench pumps
ZHE-U115	115 V pumps
ZHE-U230	230 V pumps

* Add suffix **H** to pump model number for factory installation.

Heat Exchanger adds 4,1 kg to pump weight.

Ordering Example: ZU4208TE-QH

▼ Most hydraulic torque wrenches can be powered by the Enerpac ZU4T-Series torque wrench pump.



Roll Cage

- Protects pump
- Provides greater pump stability.

Accessory Kit * Model Nr.	Can be used on ZU4-Series torque wrench pumps
ZRC-04	4 and 8 litres reservoir ¹⁾
ZRC-04H	4 and 8 litres reservoir ²⁾

* Add suffix **R** for factory installation.

¹⁾ Without heat exchanger.

²⁾ With heat exchanger.

Ordering Example: ZU4208TE-QR

Thermal Transfer *	Max. Pressure	Max. Oil Flow	Voltage
(Btu/h)	(bar)	(l/min)	(VDC)
900	20,7	26,5	12

* At 1,9 l/min at 21 °C ambient temperature. Do not exceed maximum oil flow and pressure ratings. Heat exchanger is not suitable for water-glycol or high water-based fluids.

ZU4T-Series, Ordering Matrix and Specifications

▼ This is how a ZU4T-Series pump model number is built up:



1 Product Type

Z = Pump series

2 Motor Type

U = Universal electric motor

3 Flow Group

4 = 1,0 l/min @ 700 bar

4 Valve Type

2 = Torque wrench valve

5 Reservoir Size (useable oil)

04 = 4 litres

08 = 8 litres

6 Valve Operation

T = **Pro Serie** pump with solenoid valve and pendant, LCD Electric and pressure transducer

B = **Classic pump** with solenoid valve and pendant.

7 Voltage

B = 115V, 1 ph, 50/60 Hz

E = 208-240V, 1 ph, 50/60 Hz (with European plug CE RF compliant)

I = 208-240V, 1 ph, 50/60 Hz (with NEMA 6-15 plug)

8 Options

E = **800 bar couplers** for use with HXD and SQD-Series or other wrenches

Q = **700 bar couplers** for use with S and W-Series or other wrenches

H = Heat exchanger

K = Skid bar

M = 4-wrench manifold

R = Roll cage

ZU4T Series



Reservoir Capacity:

4 - 8 litres

Flow at Rated Pressure:

1,0 l/min

Motor Size:

1,25 kW

Maximum Operating Pressure:

700 - 800 bar



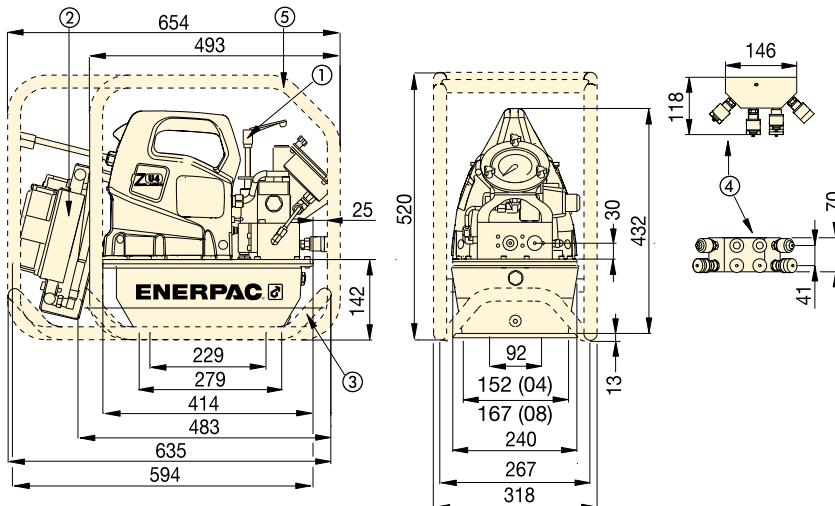
How to order your ZU4T-Series torque wrench pump

Ordering Example : Modelnr. ZU4208TE-QMHK

700 bar Pro Serie pump for use with Enerpac S and W-Series and other 700 bar torque wrenches, 230V motor, 8 litres reservoir, 4-wrench manifold, heat exchanger and skidbar.

Refer to the torque wrench pump selection matrix for optimum wrench, pump and hose combinations.

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ZU4T-Series Torque Wrench Pumps

① User adjustable relief valve

② Heat Exchanger (optional)

③ Skidbar (optional)

④ 4-wrench manifold (optional)

⑤ Roll cage (optional)

ZU4T-Series Performance Chart									
Motor Size (kW)	Output Flow Rate (l/min)				Motor Electrical Specification (Volt - Phase - Hz)	Sound Level (dBA)	Relief Valve Adjustment Range (bar)		
	7 bar	50 bar	350 bar	700 bar					
1,25	11,5	8,8	1,2	1,0	115 - 1 - 50/60 208-240 - 1 - 50/60	85-90	124-700 *		

* Pump type (-Q) shown, (-E) range is 124-800 bar.



Torque Wrench Hoses

Use Enerpac twin safety hoses to connect your torque wrench to the pump.

For 700 bar	Model-Nr.
6 m long, 2 hoses	THQ-706T
12 m long, 2 hoses	THQ-712T
For 800 bar	
6 m long, 2 hoses	THC-7062
12 m long, 2 hoses	THC-7122

▼ ZE4204TE-QHR



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- Auto-Cycle feature provides continuous cycle operation of the torque wrench as long as the advance button is pressed (pump can be used with or without auto cycle feature)
- LCD readout provides pressure and torque display and a number of diagnostic and readout capabilities never before offered on a portable electric pump
- Totally enclosed, fan-cooled industrial electric motors supply extended life and stand up to harsh industrial environments
- High-strength, molded electrical enclosure protects electronics, power supplies and LCD readout from harsh environments.



Pro-Series

Back-lit LCD and Pressure Transducer featuring Auto-Cycle Technology.

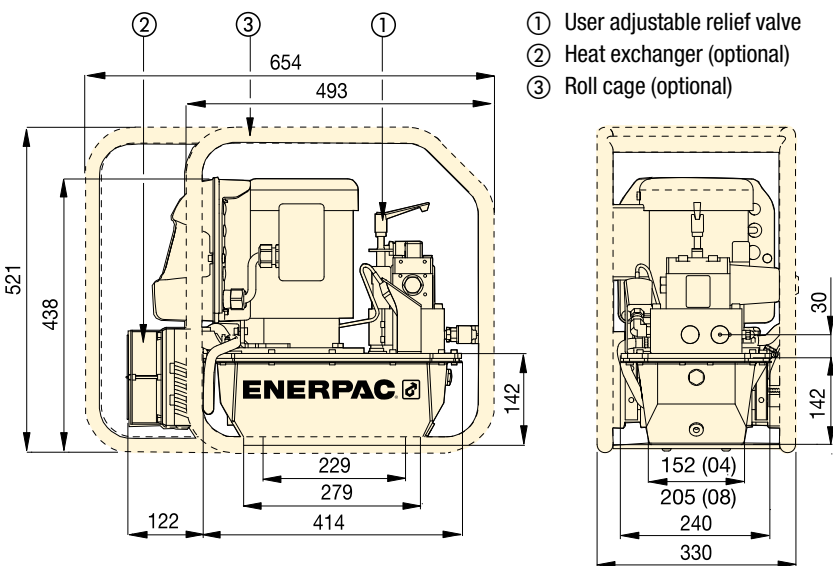
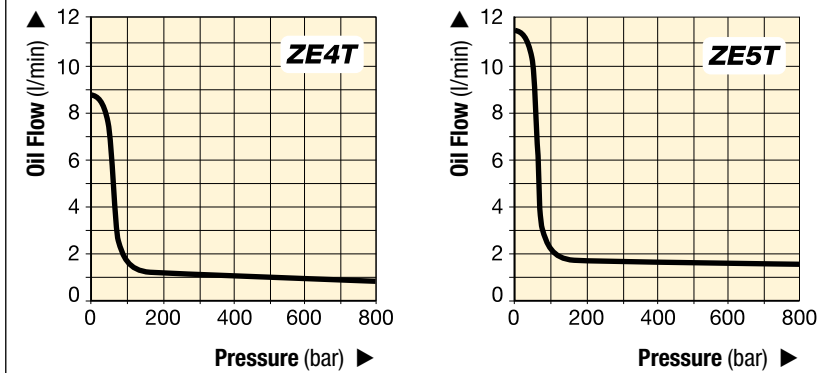
- Torque wrench model is selectable
- "Auto cycle" setting easily programmable.
- Digital read-out and "Autocycle" setting
- Pump usage information, hour and cycle counts
- Low-voltage warning and recording
- Self-test and diagnostic capabilities
- Information can be displayed in English, French, German, Italian, Spanish and Portuguese
- Pressure transducer is more accurate and durable than analog gauges
- Easy-viewing variable rate display
- Display pressure in bar, MPa or psi.



◀ The ZE4T-Series torque wrench pumps are perfectly matched for this W2000X wrench.

Electric Torque Wrench Pumps

ZE4T AND ZE5T-SERIES OIL FLOW VERSUS PRESSURE



ZE4T and ZE5T-Series, 4 and 8 litres reservoirs

▼ COMMON TORQUE WRENCH PUMP MODELS

For Use With Torque Wrenches	Max. Operating Pressure (bar)	Model Number with Heat Exchanger and Roll Cage	Motor Electrical Specification (Volt - Ph - Hz)	Usable Oil Capacity ¹⁾ (litres)	Weight (kg)
all S and W-Series	700	ZE4204TB-QHR	115 - 1 - 50/60	4,0	61
	700	ZE4204TE-QHR	230 - 1 - 50/60	4,0	61
	700	ZE4204TG-QHR	230 - 3 - 50/60	4,0	62
	700	ZE5204TW-QHR	400 - 3 - 50/60	4,0	62
all SQD and HXD-Series	800	ZE4204TB-EHR	115 - 1 - 50/60	4,0	61
	800	ZE4204TE-EHR	230 - 1 - 50/60	4,0	61
	800	ZE4204TG-EHR	230 - 3 - 50/60	4,0	62
	800	ZE5204TW-EHR	400 - 3 - 50/60	4,0	62

¹⁾ Larger reservoirs (8, 10, 20 and 40 litres) are available. Contact Enerpac.

▼ PERFORMANCE CHART

Pump Series	Output Flow Rate at 50 Hz ²⁾ (l/min)				Motor Size (kW)	Relief Valve Adjustment Range (bar)	Sound Level (dBA)
	7 bar	50 bar	350 bar	700 bar			
ZE4T	8,8	8,1	0,9	0,8	1,1	70 - 800	75
ZE5T	11,8	11,2	1,7	1,6	2,2	70 - 800	75

²⁾ Flow rate will be approximately 6/5 higher at 60 Hz.

ZE4T ZE5T Series



Reservoir Capacity:

4 - 40 litres

Flow at Rated Pressure:

0,82 - 1,64 l/min

Motor Size:

1,1 - 2,2 kW

Maximum Operating Pressure:

700 - 800 bar



Torque Wrench Pump Selection Matrix

For optimum speed and performance see the torque wrench pump and hose selection matrix.

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Torque Wrench Hoses

Use Enerpac twin safety hoses to connect your torque wrench to the pump.

For 700 bar	Model Nr.
6 m long, 2 hoses	THQ-706T
12 m long, 2 hoses	THQ-712T
For 800 bar	
6 m long, 2 hoses	THC-7062
12 m long, 2 hoses	THC-7122

▼ PTA-1404



Two-Stage Power in a Portable Design

- Compact and portable
- Handle located directly over pump's center of gravity for greater ease in carrying
- High bypass pressure (125 bar) for faster torque cycles
- High power-to-weight ratio suits all Enerpac torque wrenches
- Glycerine filled pressure gauge with scales reading in bar/psi
- Transparent overlays in Nm and Ft.lbs for all Enerpac torque wrenches provide a quick torque reference
- Internal safety relief valve, factory preset.



Torque Wrench Hoses

Use Enerpac twin safety hoses to connect your torque wrench to the pump.

For 700 bar	Model Nr.
6 m long, 2 hoses	THQ-706T
12 m long, 2 hoses	THQ-712T
For 800 bar	
6 m long, 2 hoses	THC-7062
12 m long, 2 hoses	THC-7122



Gauge Overlay Kit

Available separately for use with PTA-Series pumps: **GT-4015-Q** includes overlays for all S and W-Series torque wrenches.

GT-4015 includes overlays for all SQD and HXD-Series torque wrenches.



◀ *Easy and reliable service and maintenance in the workshop with Enerpac steel wrenches powered by a pneumatic torque wrench pump.*

Compact Pneumatic Torque Wrench Pump

PTA Series



Reservoir Capacity:

3,8 litres

Flow at Rated Pressure:

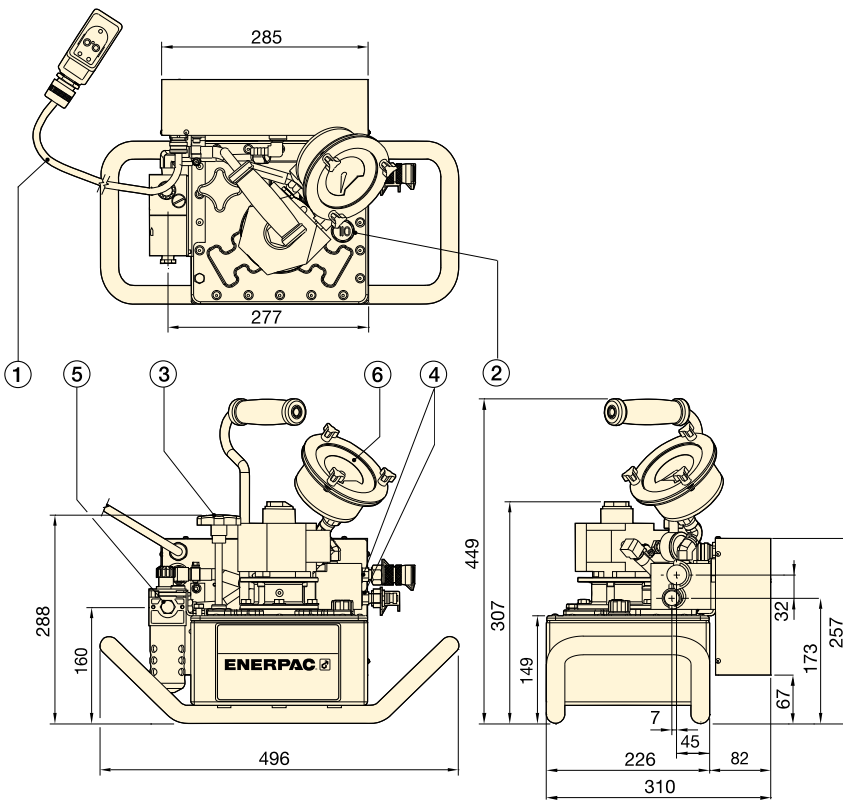
0,33 l/min

Air Consumption:

1133 l/min

Maximum Operating Pressure:

700 - 800 bar



- ① 5 mtr Air control pendant
- ② Vent/Fill plug
- ③ Externally adjustable relief valve
- ④ 1/4" - 18 NPTF Hydraulic ports
- ⑤ 3/8" - 18 NPTF Air inlet
- ⑥ Gauge with overlay kit

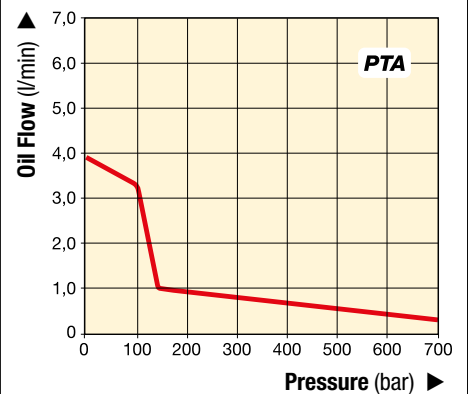


Torque Wrench Pump Selection Matrix

For optimum speed and performance see the torque wrench pump and hose selection matrix.

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OIL FLOW VERSUS PRESSURE



▼ SELECTION CHART

For Use With Torque Wrenches		Pressure Rating		Model Number	Oil Flow Rate		Reservoir Capacity	Useable Oil Capacity	Air Motor Consumption at 7 bar	Air Pressure Range	Weight
		1st stage	2nd stage		1st stage	2nd stage					
S1500X S3000X	W2000X W4000X	125	700	PTA-1404-Q	3,9	0,33	3,8	1,9	1133	3,4 - 7,0	24,5
SQD-25-I SQD-50-I	HXD-30 HXD-60	125	800	PTA-1404	3,9	0,33	3,8	1,9	1133	3,4 - 7,0	24,5

▼ ZUTP-1500E



- Two-stage pump design provides high flow at low pressure for fast system fills and controlled flow at high pressure for safe and accurate operation
- Z-Class high-efficiency pump design runs cooler and requires less current draw which is especially helpful in remote locations
- 6 m pendant cord enables motor control from a distance
- Angled 153 mm pressure gauge, with polycarbonate cover, built into a protective metal shroud for improved visibility and protection
- Safety relief valve limits output pressure
- Compact, lightweight and rugged aluminium frame for increased durability and ease of handling.



◀ *The ZUTP-1500 pump is rugged, lightweight, compact for tight openings, and delivers hassle-free operation of bolt tensioning in remote locations with up to two times the speed of competitive pumps.*

Reliability, Power and Precision



Applications

The Enerpac ZUTP-Series electric pump is ideally suited for use with hydraulic bolt tensioning tools and hydraulic nuts. See our Bolting Tools catalogue and website.



Ultra-high pressure

This pump operates at ultra-high pressure, use only the specified fittings and hoses designed for these pressures.

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Bolting Integrity Software

Visit www.enerpac.com to access our free on-line bolting software application and obtain information on tool selection, bolt load calculations and tool pressure settings. A combined application data sheet and joint completion report is also available.

Electric Tensioning Pumps

ZUTP Series



Reservoir Capacity:

4,0 litres

Flow at Rated Pressure:

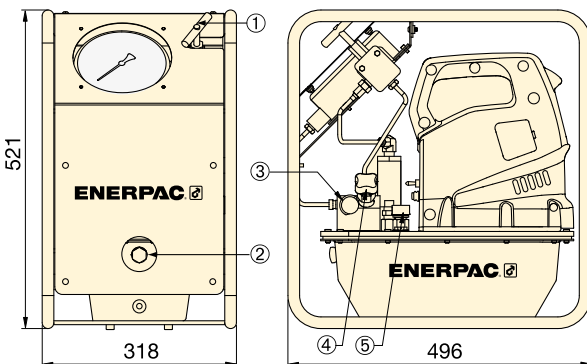
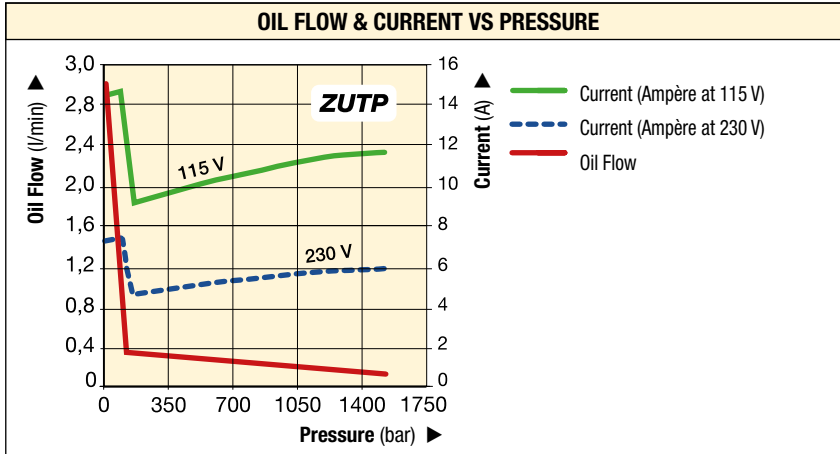
0,13 l/min

Motor Size:

1,25 kW

Maximum Operating Pressure:

1500 bar



- ① Release Valve
- ② Sight Glass
- ③ Out Port 1/4" BSPM and BR-150 female coupler
- ④ User Adjustable Relief Valve
- ⑤ Breather

1500 bar HIGH PRESSURE PUMP

Pump Type	Useable Oil Capacity (litres)	Model Number ¹⁾	Pressure Rating (bar)	Output Flow Rate at 0 bar (l/min)	Output Flow Rate at 1500 bar (l/min)	Motor Electrical Specification	Motor Size (kW)	Sound Level (dBA)	Weight (kg)
Two speed	4,0	ZUTP-1500 B	1500	2,90	0,13	115 VAC, 1-ph	1,25	89	29,5
	4,0	ZUTP-1500 E ²⁾	1500	2,90	0,13	230 VAC, 1-ph ²⁾	1,25	89	29,5
	4,0	ZUTP-1500 I ³⁾	1500	2,90	0,13	230 VAC, 1-ph ³⁾	1,25	89	29,5

¹⁾ All models meet CE safety requirements and all TÜV requirements.

²⁾ European plug and CE EMC directive compliant.

³⁾ With NEMA 6-15 plug.

1500 bar HOSES

Model Number	Hose End 1	Hose End 2	Length (m)
HT-1503	1/4" BSPM 120° Cone	1/4" BSPM 120° Cone	1,0
HT-1510	1/4" BSPM 120° Cone	1/4" BSPM 120° Cone	3,0
HT-1503HR*	BH-150	BR-150	1,0
HT-1510HR*	BH-150	BR-150	3,0

* Includes dust caps.

1500 bar COUPLERS

Description	Complete Set	Female Half	Male Half
Quick Disconnect Coupler*	B-150	BR-150	BH-150
Quick Disconnect Coupler and Adaptor Kit*	BW-150AW	-	-
Quick Disconnect Blanking Coupler Set*	B-150B	-	-

* Includes dust caps.

▼ ZA4204TX-ER



- Two-speed operation and high by-pass pressure reduces cycle time for improved productivity
- Glycerin filled pressure gauge with transparent overlays in Nm and Ft.lbs for Enerpac torque wrenches provide a quick torque reference
- Standard Regulator-Filter-Lubricator with removable bowls and auto drain
- Heat exchanger warms exhaust air to prevent freezing and cools the oil
- Ergonomic pendant allows remote operation up to 6 m.

Complete 700 bar Pump-Hose Set ZA4208TX-QRU105

- Fine air pressure adjustment for very accurate torque control
- High bypass pressure (200 bar) for faster torque cycles
- Improved wrench performance at low pressure
- Standard with THQ706T twin hose.



Z Tough, Dependable Innovative CLASS



Torque Wrench Hoses

Use Enerpac twin safety hoses to connect your torque wrench to the pump.

For 700 bar	Model Nr.
6 m long, 2 hoses	THQ-706T
12 m long, 2 hoses	THQ-712T
For 800 bar	
6 m long, 2 hoses	THC-7062
12 m long, 2 hoses	THC-7122



Gauge and Overlay Kit

Gauge Overlay Kits are available separately for use with ZA4T-Series pumps:

GT-4015-Q includes gauge and overlays for all S- and W-Series torque wrenches.

GT-4015 includes gauge and overlays for all SQD and HXD torque wrenches.



Torque Wrench Pump Selection Matrix

For optimum speed and performance see the torque wrench pump and hose selection matrix.

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◀ Most hydraulic torque wrenches can be powered by the Enerpac ZA4T-Series torque wrench pump.

Air Driven Torque Wrench Pumps



ZA4T-Series Pump Applications

The ZA4T-Series pump is best suited to power medium to large size torque wrenches.

Patent-pending Z-Class technology provides high by-pass pressures for increased productivity.

Its high power to weight ratio and compact design make it ideal for applications which require easy transport of the pump.

All ZA4T-Series pump models meet CE, CSA and TÜV safety requirements. For further application assistance contact your local Enerpac office.

ATEX 95 Certified

The ZA4T-Series pumps are tested and certified according to the Equipment Directive 94 / 9 / EC "ATEX Directive".

The explosion protection is for equipment group II, equipment category 2 (hazardous area zone 1), in gas and/or dust atmospheres. The ZA4T-Series pumps are marked with: **Ex II 2 GD ck T4**.



ZA4T Series



Reservoir Capacity:

4,0 - 8,0 litres

Flow at Rated Pressure:

0,8 - 1,0 l/min

Air Consumption:

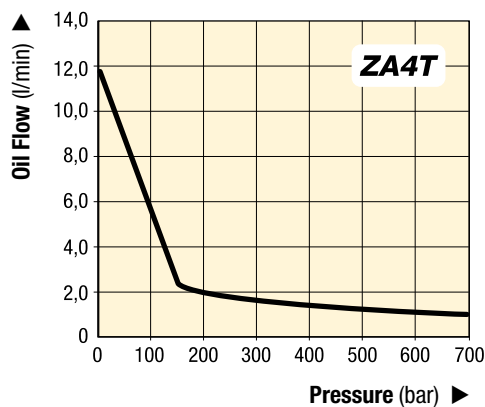
600 - 2840 l/min

Maximum Operating Pressure:

700 - 800 bar

OIL FLOW VERSUS PRESSURE

6,9 bar dynamic air pressure at 2840 l/min



Accessory Options

Available by placing the following additional suffix at the end of the model number:

- K** = Skid bar
- M** = 4-wrench manifold
- R** = Roll cage.

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▼ ZA4208TX-QRU105 for improved wrench performance and torque control at low pressure.



COMMON PUMP MODELS

For Use With Torque Wrenches	Maximum Operating Pressure (bar)	Model Number	Usable Oil Capacity (litres)	Weight (kg)
all S and W-Series	700	ZA4208TX-QRU105 *	6,6	45
	700	ZA4204TX-Q	2,7	42
	700	ZA4208TX-Q	6,6	47
	700	ZA4204TX-QR	2,7	46
	700	ZA4208TX-QR	6,6	51
all SQD and HXD-Series	800	ZA4204TX-E	2,7	42
	800	ZA4208TX-E	6,6	47
	800	ZA4204TX-ER	2,7	46
	800	ZA4208TX-ER	6,6	51

* Standard with THQ706T hose and fine air pressure adjustment for very accurate torque control. Pump weight 45 kg, complete set weight 58 kg.



Skid Bar

- Provides greater pump stability on soft or uneven surfaces
- Provides easy two-handed lift.



4-Wrench Manifold

- For simultaneous operation of multiple torque wrenches
- Can be factory installed or ordered separately.



Roll Cage

- Protects pump
- Provides greater pump stability.

Accessory Kit * Model Nr.	Can be used on ZA4T-Series torque wrench pumps
SBZ-4	Reservoir 04 and 08

* Add suffix **K** for factory installation.
Weight skid bar 2,2 kg.
Ordering Example: ZA4208TX-QK

Accessory Kit * Model Nr.	Can be used on ZA4T-Series torque wrench pumps
ZTM-E	for 800 bar torque wrenches
ZTM-Q	for 700 bar torque wrenches

* Add suffix **M** for factory installation.
Weight manifold 4,5 kg.
Ordering Example: ZA4208TX-QM

Accessory Kit * Model Nr.	Can be used on ZA4T-Series torque wrench pumps
ZRC-04	Reservoir 04 and 08

* Add suffix **R** for factory installation.
Roll cage weight 3,4 kg.
Ordering Example: ZA4208TX-QR



700 bar Spin-on Couplers

- Mounted on:
 - Torque wrench pumps with suffix "Q"
 - S and W-Series wrenches
 - THQ-Series hoses
 - 4-Wrench manifold ZTM-Q.



800 bar Lock-ring Couplers

- Mounted on:
 - Torque wrench pumps with suffix "E"
 - HXD and SQD-Series wrenches
 - THC-Series hoses
 - 4-Wrench manifold ZTM-E.



Torque Wrench Hoses

Use Enerpac twin safety hoses to connect your torque wrench to the pump.

For 700 bar	Model Nr.
6 m long, 2 hoses	THQ-706T
12 m long, 2 hoses	THQ-712T
For 800 bar	Model Nr.
6 m long, 2 hoses	THC-7062
12 m long, 2 hoses	THC-7122



Torque Wrench Couplers

For Enerpac torque wrench couplers see our "System Components" section in this catalogue.

Ordering Matrix and Specifications

▼ This is how a ZA4T-Series pump model number is built up:

Z	A	4	2	08	T	X	-	Q	M	R
1 Product Type	2 Motor Type	3 Flow Group	4 Valve Type	5 Reservoir Size	6 Valve Operation	7 Voltage		8 Must be E or Q	8 Options	8 Options

1 Product Type

Z = Pump series

2 Motor Type

A = Air motor

3 Flow Group

4 = 1,0 l/min @ 700 bar

4 Valve Type

2 = Torque Wrench Valve

5 Reservoir Size

(useable capacity)

04 = 2,7 litres

08 = 6,6 litres

6 Valve Operation

T = Air operated valve with pendant

7 Voltage

X = Not applicable

8 Options

E = 800 bar couplers for use with HXD and SQD-Series or other wrenches

Q = 700 bar couplers for use with S and W-Series or other wrenches

K = Skid bar

M = 4-wrench manifold

R = Roll cage

ZA4T Series



Reservoir Capacity:

4 - 8 litres

Flow at Rated Pressure:

0,8 - 1,0 l/min

Air Consumption:

600 - 2840 l/min

Maximum Operating Pressure:

700 - 800 bar

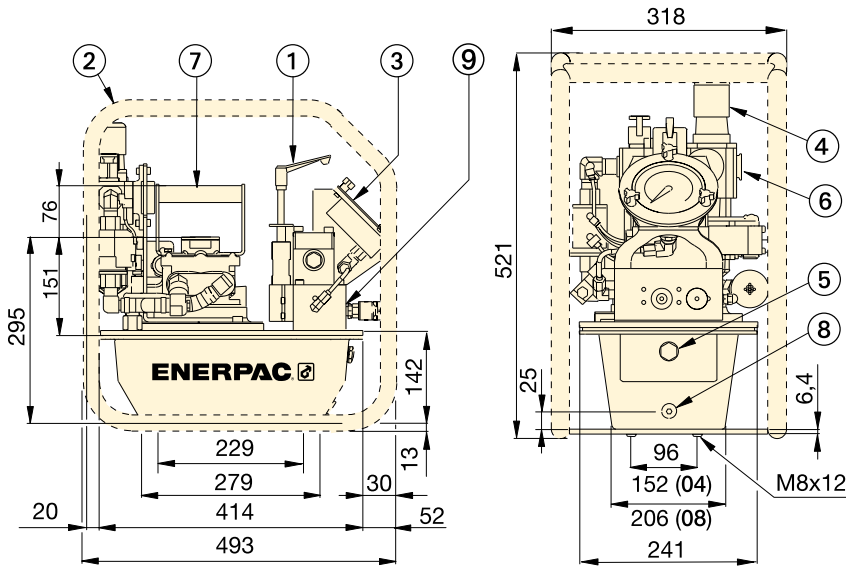


How to order your ZA4T-Series torque wrench pump

Model No. ZA4208TX-QMR

700 bar pump for use with Enerpac S- and W-Series and other 700 bar torque wrenches, 8 litres reservoir, 4-wrench manifold, and roll cage.

Refer to the torque wrench pump selection matrix for optimum wrench, pump and hose combinations.



- ① User adjustable relief valve
- ② Roll Cage (optional)
- ③ Gauge with overlays
- ④ Filter/lubricator/regulator
- ⑤ Oil level sight gauge
- ⑥ Air input 1/2" NPTF
- ⑦ Standard handle
- ⑧ Oil drain
- ⑨ 1/4"-18 NPTF Oil outlet

ZA4T-Series Performance								
Output Flow Rate (l/min)				Dynamic Air Pressure Range (bar)	Air Consumption (l/min)	Sound Level (dBA)	Relief Valve Adjustment Range (bar)	
7 bar	50 bar	350 bar	700 bar					
11,5	8,8	1,2	1,0	4,0 - 6,9	600 - 2840	85-90	124-700 *	
5,4 **	4,8 **	1,1 **	0,8 **	7,0 **				

* Pump type (-Q) shown, (-E) range is 124-800 bar.

** ZA4208TX-QRU105 only.

www.enerpac.com

▼ Most hydraulic torque wrenches can be powered by the Enerpac ZA4T-Series torque wrench pump.

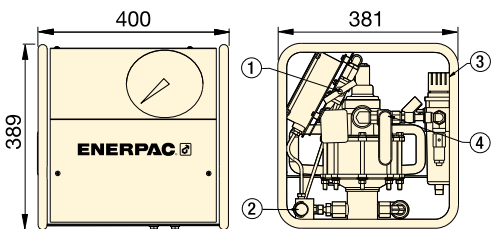


ATP-Series, Ultra-High Pressure Air Pump


▼ ATP-1500



- General purpose, high pressure air driven two speed pump unit for products requiring up to 1500 bar hydraulic pressure
- Compact, lightweight, rugged steel frame for protection and easy handling
- Prelubricated pump element, does not require an airline lubricator
- Easily adjustable output pressure control
- Integrated and protected easy to read glycerin filled gauge
- Safety relief valve limits output pressure.



1500 bar HIGH PRESSURE AIR PUMP

Pump Type	Useable Oil Capacity (litres)	Pressure Rating (bar)	Model Number	Output Flow Rate at 0 bar (l/min)	Output Flow Rate at 1500 bar (l/min)	Air Pressure Range (bar)	Air Consumption (l/min)	Sound Level (dBA)	 (kg)
Two speed	3,8	1500	ATP-1500	0,43	0,07	5,5 - 6,2	594	70	32

ATP Series

Reservoir Capacity:
3,8 litres

Flow at Rated Pressure:
0,07 l/min

Maximum Operating Pressure:
1500 bar



This pump operates at ultra-high pressure, use only the specified fittings and hoses designed for these pressures.

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Applications

The ATP-pump is ideally suited for use with GT-Series hydraulic bolt tensioning tools and hydraulic nuts. See our Bolting Tools catalogue or enerpac.com



ATEX Certified

The ATP-Pump is tested and certified according ATEX.

 II 2 GD ck T4

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OIL FLOW VERSUS PRESSURE

