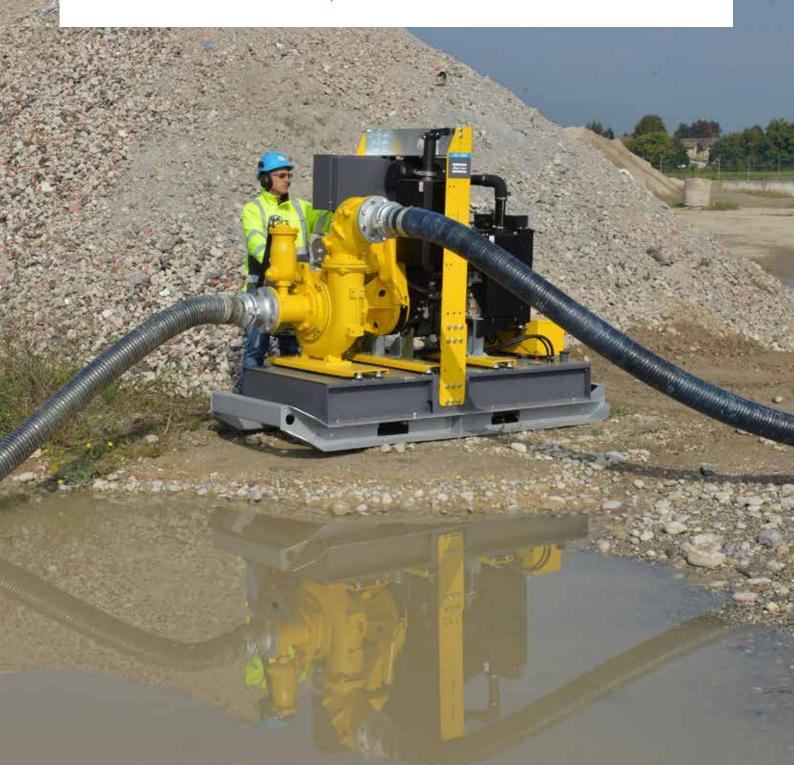
# **DEWATERING SOLUTIONS**

A guide to our centrifugal and piston pump range.



Sustainable Productivity



## Dewatering solutions

The dewatering range was developed as a result of our over 140 years' experience working with customers across the world, combined with our acquisition of Varisco – an industry leading pump designer and manufacturer.

Our strategy fits perfectly with pumps. The first focus is providing efficient products. We strive to develop products that are better for you and better for the environment. Secondly, the products should be easy to take to your point of work. Therefore we put a huge amount of focus on making products that are smaller and lighter, with features that make them easy to move.

The range is packed with features that not only meet, but exceed the needs of the market. We are focused on producing versatile pumps that are suitable for many industries, including construction, general dewatering, wellpoint applications and emergency use, such as flood clean up.

## WHEN IT COMES TO PUMPS, WE FOCUS ON FIVE KEY CRITERIA:



Made to go where ou need to go. With easy to transport



#### VERSATILE

One pump should designs.



## **DURABLE**

Tested, performed toughest working



## **EFFICIENCY**

Focused on reducing



## SIMPLE SERVICE

Hinged cover for key components.



# Great benefits of the range

## HINGED COVER FOR SIMPLE MAINTENANCE

Easy access to all components and made for field based service procedures



### HIGH CAPACITY DIAPHRAGM PUMP

For automatic priming



### **MECHANICAL SHAFT SEALS IN OIL BATH**

Dry running capability without damaging the shaft seals



## " SOLIDS HANDLING

Without the risk of clogging



### HIGH EFFICIENCY HYDRAULIC END

Guaranteeing low fuel consumption

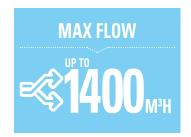


### **ELECTRIC MOTOR**

Option available for most models



## FIND THE PUMP THAT BEST SUITS YOUR NEEDS







**MAX HEAD** 

www.atlascopco.com

## Pump range



## APPLICATION AND ADVANTAGES



#### PAS

Centrifugal dry prime pumps

Models: 10 (3 high-flow models)

Configurations: 6 Max flow: 1130 m³/h Max head: 58,5 m Outlet size: 100-300 mm Great for construction, general dewatering, drainage and emergency applications. Due to its dry prime capabilities, this highly efficient pump can start pumping from the moment you turn the switch.



#### VAR

Centrifugal wet prime pumps

Models: 11

Configurations: 6 Max flow: 1400 m³/h Max head: 58 m Outlet size: 40-300 mm Great for construction, general dewatering, drainage and emergency applications. These self-priming centrifugal pumps are for applications where the main challenge is the difficulty to start the unit in tough conditions. Due to the immediate water fill-in mechanism, the unit is always ready to prime and start pumping. An SPL version is also available.



#### **WEL ECO**

Centrifugal wet prime pumps

Models: 2

**Configurations:** 5 (no canopy version)

Max flow: 340 m<sup>3</sup>/h Max head: 27,5 m Outlet size: 100-150 mm Great for wellpoint applications along with general dewatering and drainage. This automatic, rapid, self-priming pump is designed for wellpoint applications with a high flow rate.



#### **WEL SPL**

Centrifugal wet prime pumps with

vacuum prime system

Models: 2

Configurations: 5 (no canopy version)

Max flow: 340 m<sup>3</sup>/h Max head: 27,5 m

Outlet size: 100 or 150 mm

The WEL SPL range incorporates the same great features of the WEL ECO range. However, the vacuum pump makes it possible to handle considerable quantities of air efficiently.



## **WEL PST**

Piston positive displacement pump

Models: 1

Configurations: 2 (canopy or block)

Max flow: 100 m<sup>3</sup>/h Max head: 20 m Outlet size: 125 mm Great for wellpoint applications where the volume and depth of the water is low. This highly efficient piston pump is specially designed to run dry without damaging the components. Low maintenance coupled with energy efficiency ensure that you realize real costs savings with this pump.



#### BEN

Centrifugal wet prime pumps

Models: 2

Configurations: 5 (no canopy version)

Max flow: 360 m<sup>3</sup>/h Max head: 27.5 m

Outlet size: 100 or 150 mm

Great for pumping abrasive liquids and bentonite mud. This pump features a purposely designed 'hard' cast iron impeller and casing to make the unit highly resistant against abrasion and wear, even while working in the toughest conditions. The possibility to flush the mechanical seal guarantees start up, ensuring performance under pressure.

# Modular design

You don't buy a pump. You design a system that is made for you! Modular customization is a feature of our products.













www.atlascopco.com

## PAS range

The PAS pump system consists of a centrifugal pump and a SuperDuo separator, which enables air to be separated from the liquid and be sucked by a vacuum pump – making automatic priming possible. Even with suction heights of several meters, the machine rapidly evacuates the air from the suction pipe and starts to pump. Additionally, thanks to the semi-open impeller, the PAS range is also suitable for pumping liquids with solids in suspension.

## TECHNICAL DATA

Specificat	tions	PAS 100 MF 225	PAS 100 MF 250	PAS 100 MF 260	PAS 150 MF 250	PAS 200 MF 300	PAS 200 MF 305	PAS 300 MF 390	PAS 100 HF 250	PAS 150 HF 300	PAS 200 HF 305
Max. head	m	58,5	36	42	37	31	30	29,5	51	51	50
Max. capacity	m³/h	230	250	325	540	720	630	1130	280	520	920
Suction / discharge size		DN100 (4")	DN100 (4")	DN100 (4")	DN150 (6")	DN200 (8")	DN200 (8")	DN300 (12")	ANSI 4"	ANSI 6"	ANSI 8"
Max. solids handling	mm	35	50	76	76	60	76	76	76	76	76
Best efficiency point	%	70	70	70	77	73	64	60	70	70	75
Max. absorbed power	kW	30	17	24	27	41	33	68	29	51	78
Engine											
Model		Hatz Perkins	Kohler Deutz	Perkins	Deutz	Deutz	Deutz				
Cooling system		Liquid Air	Liquid	Liquid	Liquid	Liquid					
Emission compliance		Stage 3A	Stage 3A	Stage 3A	Stage 3A	Stage 3B	Stage 3B	Stage 3A	Stage 3B	Stage 3B	Stage 4
Max. engine power	kW	38	24,3	28,4	28,4	47,7	33,6	92,1	31,0	51,2	79,1
Max. operating speed	rpm	3000	2000	2000	2000	1800	1800	1500	2200	2200	2200
Max. fuel autonomy	h	30	51	48	48	37	48	31	45	27	22
Weight ar											
Weight	kg	965	865	830	865	1210	1180	1800	1180	1330	1500
Width	mm	995	995	995	995	995	995	995	995	995	1430
Length	mm	2020	2020	2020	2020	2450	2450	2450	2080	2080	2300
Height	mm	1520	1520	1520	1520	1700	1700	1700	1800	1800	2050

All six configurations are available.





# Hinged cover access

Easy access to components. Simple cleaning mechanism. Designed for field based service.

Sustainable Productivity

Atlas Copco



## VAR range

The VAR range of self-priming centrifugal pumps are for applications where the main feature is the difficulty in priming. Even with suction heights of several meters, the machine quickly evacuates the air from the suction pipe and starts pumping. Additionally, thanks to the semi-open impeller, the VAR range is also suitable for pumping liquids with solids in suspension.

## TECHNICAL DATA

Specificat	tions	VAR 4-225	VAR 4-250	VAR 4-316	VAR 6-250	VAR 6-251	VAR 6-350	VAR 6-400	VAR 8-300	VAR 8-305	VAR 10-305	VAR 12-400
Max. head	m	53	40	57,5	33	24,5	44	58	32,5	35	39	29,3
Max. capacity	m³/h	150	180	190	340	260	310	480	580	560	690	1400
Suction / discharge size		Threaded 4" BSP	Threaded 4" BSP	Threaded 4" BSP	Flanged DN 150 D.I. 1882 (6")	Flanged DN 200 UNI 6082 (8")	Flanged DN 200 UNI 6082 (8")	Flanged DN 250 D.I. 1882 (10")	Flanged DN 300 UNI 6082 (12")			
Max. solids handling	mm	35	50	38	76	50	37	50	60	76	76	70
Best efficiency point	%	65	65	55	60	65	58	64	60	53	70	54
Max. absorbed power	kW	22,8	16,5	33,5	25	11,5	34	78	41	31	45	85,5
Engine												
Model		Hatz Perkins	Deutz Kohler	Deutz Kohler	Deutz Kohler	Kohler	Deutz Kohler	Deutz	Deutz Kohler	Deutz Kohler	Deutz Kohler	Deutz Kohler
Cooling system		Air Liquid	Air Liquid	Air Liquid	Air Liquid	Air Liquid	Air Liquid	Air Liquid	Air Liquid	Air Liquid	Air Liquid	Air Liquid
Emission compliance		Stage 3A	Stage 3A	Stage 3A	Stage 3A	Stage 3A	Stage 3B	Stage 3B	Stage 3B	Stage 3B	Stage 3B	Stage 3B
Max. engine power	kW	38	24,3	34	28,4	10,7	45	78,2	47,7	33,6	47,7	79,1
Max. operating speed	rpm	3000	2000	2000	2000	1700	1600	1800	1800	1800	1800	1150
Max. fuel autonomy	h	27	48	55	42	110	28	28	47	50	47	29
Weight ar												
Weight	kg	780	780	820	835	700	1155	1550	1115	1080	1600	2015
Width	mm	995	995	995	995	995	995	995	995	995	995	1145
Length	mm	1770	1770	1770	1770	1770	1770	2750	2250	2250	2750	2850
Height	mm	1520	1520	1520	1520	1520	1520	1800	1700	1700	1800	2035

All six configurations are available.





## VAR SPL and BEN range

The VAR SPL range incorporates the same great features of the VAR range. However, the vacuum system makes it possible for the pump to also prime 'dry' and handle considerable quantities of air. The vacuum system ensures continued dewatering and performance under 'snore' conditions.

The BEN range is designed with a special 'hard' cast iron impeller and casing to make the unit highly resistant against abrasion and wearing, even while working in the toughest conditions.

## TECHNICAL DATA

Specifications		VAR SI	PL 4-316	VAR SI	PL 6-350	VAR SI	PL 6-400	VAR SP	L 10-305	BEN	4-250	BEN	6-250	
Max. head	m	57	7,5	4	14	5	58	3	9	3	2	27,5		
Max. capacity	m³/h	190		310		4	480		90	180		340		
Suction / discharge size		Threaded 4" BSP		Flanged DN 150 D.I. 1882 (6")		Flanged DN 150 D.I. 1882 (6")		Flanged DN 250 D.I. 1882 (10")		Spherical quick coupling 4"		Spherical quick coupling 6"		
Max. solids handling	mm	38		37		50		76		5	0	7	6	
Best efficiency point	%	55		58		64		70		65		62		
Max. absorbed power	kW	33,5		34		78		45		13,2		19		
Engine														
Model		Deutz	Kohler	Deutz	Kohler	De	utz	Deutz	Kohler	Deutz	Kohler	Deutz	Kohler	
Cooling system		Air	Liquid	Air	Liquid	Air	Liquid	Air	Liquid	Air	Liquid	Air	Liquid	
Emission compliance		Stag	je 3A	Stage 3B		Stage 3B		Stage 3B		Stage 3A		Stage 3A		
Max. engine power	kW	3	34	4	15	78	3,2	47	7,7	22	2,1	30	30,6	
Max. operating speed	rpm	20	000	16	600	18	300	18	00	18	00	18	00	
Max. fuel autonomy	h	5	55	2	28	2	28	4	7	5	3	3	9	
Weight and dime	nsions													
Weight	kg	83	20	11	55	15	550	16	00	7:	90	8	50	
Width	mm	99	95	9	95	9	95	995		995		995		
Length	mm	17	70	17	770	27	<b>'</b> 50	27	50	1770		17	70	
Height	mm	15	520	15	520	18	300	18	00	15	20	1520		

Five configurations are available, we only offer open-frame models.



# WEL range

These automatic, rapid, self-priming pumps are designed for wellpoint applications with a high flow rate. The WEL SPL range incorporates a vacuum pump, making it possible to handle considerable quantities of air efficiently. The vacuum system ensures continued dewatering and performance under "snore" conditions. The WEL PST model is great for applications where the volume and depth of the water is low.

## TECHNICAL DATA

Specifications		WELEC	0 4-250	WELEC	0 6-250	WEL SP	L 4-250 D	WEL SP	L 6-250 D	WEL PST 100	
Max. head	m	32		27	,5	3	2	27	,5	20	
Max. capacity	m³/h	180	0	340		180		340		100	
Suction / discharge size		Spherical quick coupling 4"		Spherical quick coupling 6"		Spherical quick coupling 4"		Spherical quick coupling 6"		DIN 125	
Max. solids handling	mm	50		76		50		76		-	
Best efficiency point	%	65		6	2	6	55	6	2	93	
Max. absorbed power	kW	13,2		1	19 13,2		1	9	5,5		
Engine											
Model		Deutz	Kohler	Deutz	Kohler	Deutz	Kohler	Deutz	Kohler	Hatz	
Cooling system		Air	Liquid	Air	Liquid	Air	Liquid	Air	Liquid	Air	
Emission compliance		Stage	3A	Stag	Stage 3A Stage 3.		je 3A	Stage 3A		Stage 2	
Max. engine power	kW	22,	1	22,1		22,1		22,1		5,5	
Max. operating speed	rpm	180	0	1800		1800		18	00	1500	
Max. fuel autonomy	h	53		5	3	5	53		3	128	
Weight and dime	nsions										
Weight	kg	960	960		60	96	960		60	1590	
Width	mm	99!	5	99	95	995		995		1050	
Length	mm	190	0	21	15	19	000	2115		2100	
Height	mm	152	0	15	20	15	20	15	20	1650	

Five configurations are available, we only offer open-frame models.

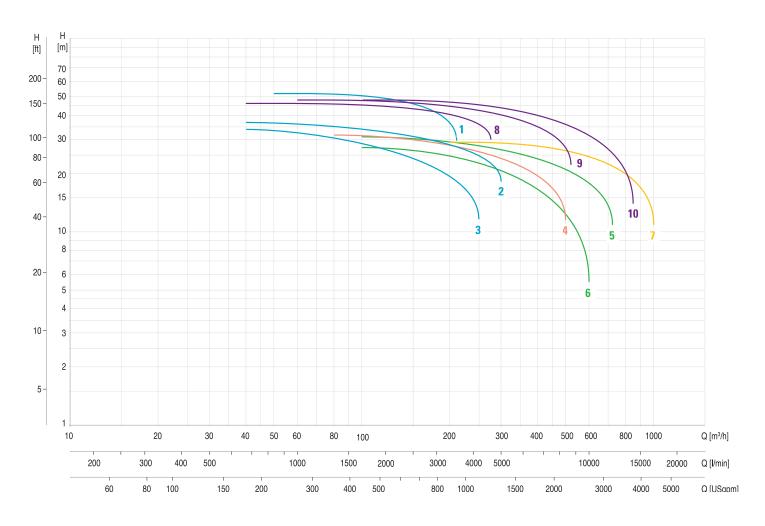








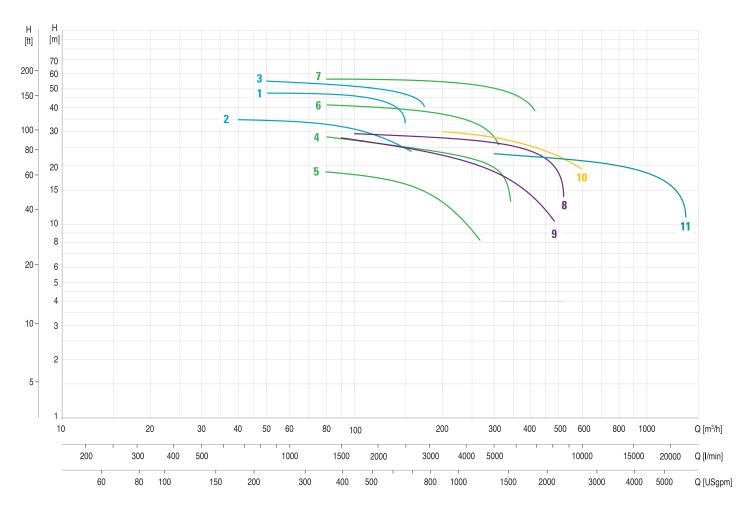
# PAS performance curves





## × PAS **PAS 100MF 225** 2. **PAS 100MF 250** 3. **PAS 100MF 260** PAS 150MF 250 5. **PAS 200MF 300** 6. **PAS 200MF 305 PAS 300MF 390 PAS 100HF 250** 8. 9. **PAS 150HF 300** 10. PAS 200HF 305

# VAR performance curves





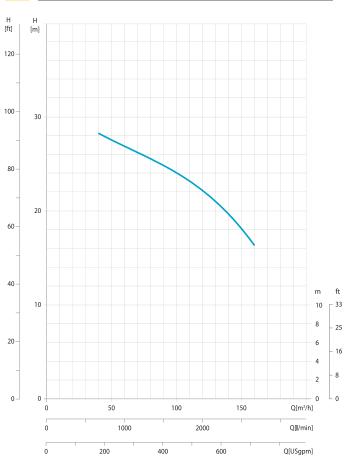
- VAR 4-225
- 2. **VAR 4-250**
- **VAR 4-316 / VAR SPL 4-316**
- 4. **VAR 6-250**
- **VAR 6-251**
- VAR 6-350 / VAR SPL 6-350
  - **VAR 6-400 / VAR SPL 6-400 - 7**.
  - 8. **VAR 8-300**
  - **VAR 8-305**
  - 10. VAR 10-305 / VAR SPL 10-305
- 11. VAR 12-400

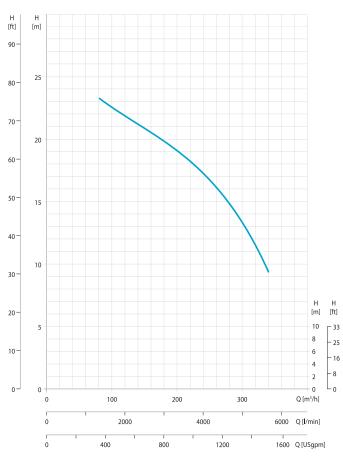


# WEL and BEN performance curves





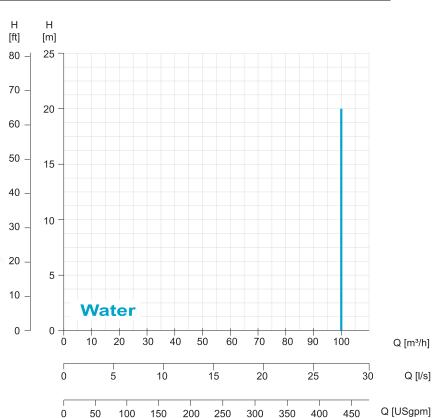




## **WEL PST**







## The PumpWatch controller system

PumpWatch controllers were designed and engineered to keep up with the constantly evolving demands of today's water moving industry.

The PW750 comes as standard with all **PAS high-flow** units. The advanced capabilities of the optional PW1000 are significantly enhanced by its event management system, allowing the user to define operational conditions to trigger events, warnings, faults and alarms, which can even be received remotely.

PumpWatch supports accessories including transducers, float switches, flow meters and pressure gauges. The standard software supports display menus in 13 different languages, in addition to the industry standard J1939 and RS485 protocols. Both models feature propriety designs to deliver unmatched durability and dependability in the harshest of environments.



# **@W750 & @W1000**

Hardware Inputs &	Hardware Inputs & Outputs / Event Handling												
	Analog/Digital Inputs	Mag Pick-Up Speed Input	Pulse Frequency Inputs (Flow Meter)	4-20 mA Inputs (Transducer)	Resistive Sender Inputs (Temp, Pressure, Fuel, etc.)	Conditional Engine State Monitoring	Shutdown Management (Immediate/ Controlled/Derate)	Warning and Shutdown on Fault	Service Interval Timers and Event History	Data Logging and Reporting	Instantaneous Flow	Totalized Flow	
PW750 (standard)	12		0	1	3			<b>~</b>	<b>~</b>		<b>~</b>		
PW1000 (option)	32	<b>~</b>	2	6	6	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	

System and Netwo	System and Network Compatibility												
	J1939 CANbus Network	RS485 Modbus Interface	Wi-Fi Ready	Telemetry Ready	PC-Based Configuration Tool	External Programming Port	External Configuration Connection	Configurable Settings Via Display	Multi-Language Support	Multi-Level Password Protection			
PW750 (standard)	1	~		<b>~</b>	<b>~</b>		<b>~</b>	Some	<b>~</b>				
PW1000 (option)	2	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	All	<b>~</b>	<b>~</b>			

Indicators & Switc	Indicators & Switches													
	High-Contrast Display	Green LED – Auto/ Standby	Amber LED – SAE Icon Glowplug Preheat	Red LED - SAE Engine Stop/Shutdown	Amber LED - SAE Diagnostic/Warning	Red LED - User Definable	Blue LED - SCR/DEF Indication	Audible Alarm	Visual Alarm Ready	IP64 Keyswitch	2.5" Vacuum Gauge			
PW750	<b>~</b>	<b>~</b>	<b>~</b>	<b>✓</b>	<b>✓</b>	<b>~</b>			<b>~</b>	<b>~</b>	<b>✓</b>			
PW1000	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>			

## Portable Energy Solutions Portfolio

## **AIR COMPRESSORS**







Diesel and electric options available

#### **GENERATORS**







\*Multiple configurations available to produce power for any size application

### **DEWATERING PUMPS**







Diesel and electric options available

## **LIGHT TOWERS**







## Committed to sustainable productivity

Atlas Copco's Portable Energy division has a forward-thinking philosophy. For us, creating customer value is all about anticipating and exceeding your future needs – while never compromising our environmental principles. Looking ahead and staying ahead is the only way we can ensure we are your long term partner.

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