

# KTM-WSM

KTM 1200 - 1500 - 1800 - 2300

WSM 2700 - 3300

Technical catalogue

Catalogo tecnico

Technischer Katalog



Battioni®  
Pagani

*Setting the pace since 1953*

**Battioni Pagani Pompe S.p.A.**

Via Enzo Ferrari, 2  
43058 Sorbolo (PR) - Italy

Ph. +39 0521 663203

Fax +39 0521 663206



[www.bapag.it](http://www.bapag.it)  
[info@bapag.it](mailto:info@bapag.it)





**Battioni®  
Pagani**

*Setting the pace since 1953*



**Automatic lubrication pump as standard**  
Pompa di lubrificazione automatica di serie  
Automatische Schmierung als Serie

**Integrated oil tank**

Seratoio olio incorporato  
Eingebauter Öltank

**Painting RAL 7021, resistant to 240 hours corrosion protection – salt- and fog/haze tested**

Verniciatura RAL 7021, resistente a 240 ore di esposizione in nebbia salina

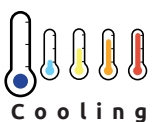
Lackierung RAL 7021, beständig gegen 240 Stunden Salz- und Nebeltest

**Watercooling in the body and flanges**

Raffreddamento ad acqua su corpo e flange  
Wasserkühlung im Körper und in den Flanschen

**High wearing resistance thanks to cast-iron with high hardness**

Elevata resistenza ad usura grazie a ghisa ad alta durezza  
Hohe Festigkeit zu Abnutzung für Gußeisen mit hohe Härte



Cooling

LIQUID COOLED -  
ROTARY VANES  
VACUUM/PRESSURE  
PUMPS

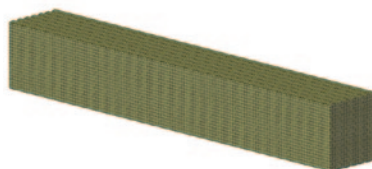
**Suction Unit**  
Gruppo aspirazione  
Absauge Gruppe

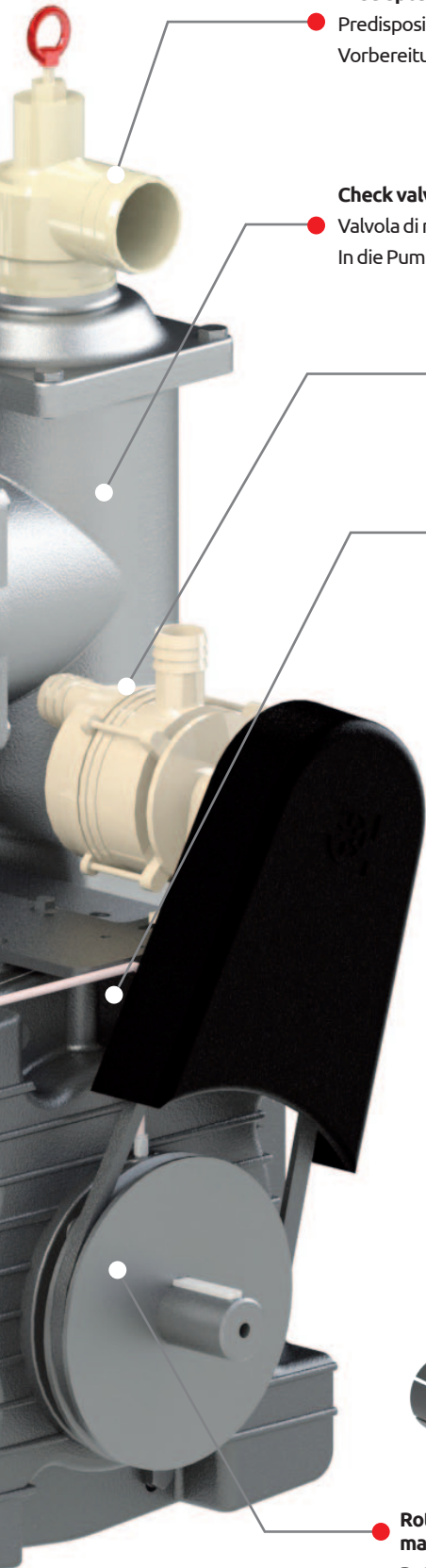
**Pneumatic Changeover**

Attuatore pneumatico  
Pneumatischer Trieb

**Long Life Blades as standard**

Palette Long Life di serie  
Long Life Schaufeln als serie





**Predisposition for overpressure valve**

Predisposizione per valvola di sovrappressione  
Vorbereitung für Überdruckventil

**Check valve (rubber ball) inside the pump**

Valvola di ritegno (sfera in gomma) integrata nella pompa  
In die Pumpe integriertes Rückschlagventil (Gummikugel)

**Integrated Cooling pump as standard**

Pompa di raffreddamento di serie  
Kühlungspumpe als Serie

**CRASH PROTECTION SYSTEM**

**Sliding Flanges to avoid breakages of the body and rotor during vanes crashes**

Flange con asole di scorrimento in caso di ingresso materiale o rottura palette

Flansche mit Slotsblättern falls Materialschmierung oder Palettenbruch

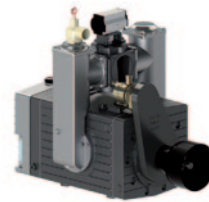


**Rotor with steel pins fixed on it to help maintenance operations**

Rotore con perni in acciaio riportati per facilitare interventi di manutenzione

Rotor mit stahl Stifte eingebaut auf Rotor für leichte Unterhaltung

### VERSIONS



KTM - DFR



KTM - HFR



KTM - PFR



WSM - PFR

Liquid cooled - Rotary  
Vanes Vacuum/Pressure  
pumps



The picture is only for informative purpose.  
See the table on page 81 for the complete list of the available optionals.

## KTM – The Superpower

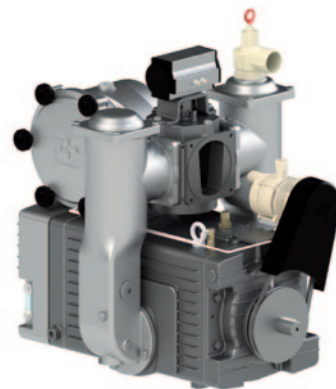
The KTM pump series features liquid cooled housing and flanges enabling continuous operation in vacuum and in pressure modes.

The KTM design assures maximum cooling thanks to the wide cooling liquid chambers and to the high flow capacity of the integrated water pump.

The KTM Crash Protection System prevents the housing or the rotor to break of in case of vanes crash. Therefore the pump is easily repairable inexpensively in field.

The KTM oversized robust construction makes this pump ideal for heavy duty applications where long time continuous non-stop operation is required (i.e. oil fields, combined vacuum trucks, industrial applications, sucking of muds, semi-solid muds and stones).

The KTM series is the ideal choice for professional users and contractors.

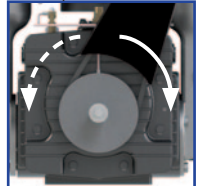


## STANDARD FEATURES

- Long Life Blades, 60 l/min integrated cooling pump, 4 points automatic lubrication by copper pipes.

## VERSIONS

CCW on request CW as standard



### Version PFR

Smooth Cylindrical shaft,  
Ø 42, length 80 mm  
Parallel key UNI 6604

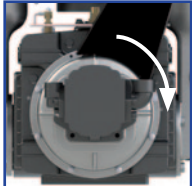
CCW as standard



### Version DFR

Splined shaft  
1"3/8 - Z6 ISO 500

CW as standard



### Version HFR

**KTM 1200:** Group 4 108,9 cc/rev - Pmax 250 bar - In G 1" - Out G 1"1/4  
**KTM 1500:** Group 4 150,8 cc/rev - Pmax 200 bar - In G 1"1/4 - Out G 1"1/2

## TECHNICAL DATA

	Geometrical capacity			Max rpm			Max abs pressure Bar/PSI	Max vacuum % (inHg)	Max continuous vacuum % (inHg)	Power at max vacuum kW (HP)	Weight kg		
	m³/h	l/min	cfm	PFR	DFR	HFR					PFR	DFR	HFR
KTM 1200	1290	21500	759,27	1200	1200	1200	2,5 (36)	95% (28,5")	95% (28,5")	35 (46,9)	391	398	398
KTM 1500	1594	26400	932,31	1200	1200	1200	2,5 (36)	95% (28,5")	95% (28,5")	42 (56,3)	446	453	453

## OPTIONALS



### Suction unit

Code 6080200152



### Hydraulic suction unit

Code 6080200169



### Pneumatic suction unit

Code 6080200172



### Aluminum Final Air filter

Code 6080200094



### Battioni Vacuum Pump Oil

Code 5070200100



### Customized Painting

### Suction unit with filter

Code 6080200171

### Hydraulic suction unit with filter

Code 6080200174

### Pneumatic suction unit with filter

Code 6080200180



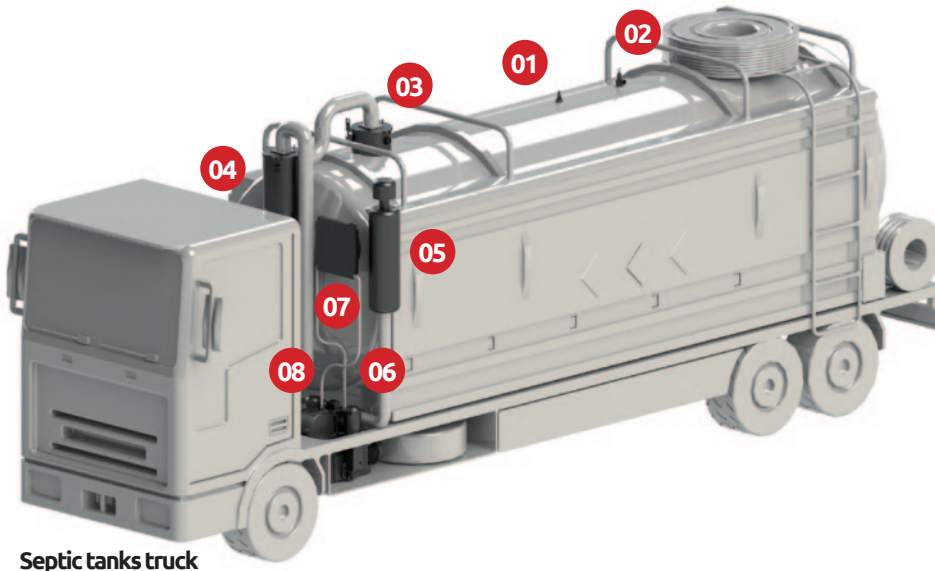
## ACCESSORIES



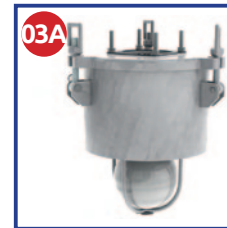
**Vacuum Relief Valve  
1"1/2**  
Code 5100200012  
Setting range:  
-0,3 bar / -0,8 bar  
Working temperature:  
-20°C / +90°C  
Thread: G 1"1/2  
Weight: 0,65 kg



**Overpressure Safety  
Valve - 2"1/2**  
Code 5100200032  
Setting range:  
+0,3 bar / +1,5 bar  
Working temperature:  
-20°C / +90°C  
Thread: G 2"1/2  
Weight: 1,5 kg



Septic tanks truck



**Primary Shut-Off Valve  
Bapag 3300**  
Code 6100200023  
Iron ring to be welded  
Housing: Mild Steel  
Ball: Stainless Steel AISI 304  
Weight: 26 kg

Liquid cooled - Rotary  
Vanes Vacuum/Pressure  
pumps



**Primary Shut-Off  
SS Valve Bapag 3300**  
Code 6100200031  
Stainless ring to be welded  
Housing: Stainless Steel  
AISI 304  
Ball: Stainless Steel AISI 304  
Connection: Ø 150 mm  
Weight: 26 kg



**Filter - Silencer**  
Code 5090000022  
Hose connection: Ø 100 mm  
Weight: 30 kg  
Length: 1200 mm



**Secondary Shut-Off  
Valve - 3300**  
Code 6100200024  
Housing: Galvanized Mild  
Steel  
Cover: aluminum  
Ball: SS AISI 304  
Connection: Ø 150 mm  
Weight: 55 kg



**Discharge valve -  
1"1/2**  
Code 504020015  
To be fitted on  
Secondary valve



**Aluminum Water filter**  
Code 6080200095



**Cyclon valve - 3300  
SS**  
Code 6100200032  
Housing: SS AISI 304  
Cover: aluminum  
Ball: SS AISI 304  
Connection: Ø 150 mm  
Weight: 55 kg



**Air-Water Cooler  
with Thermostat**  
Code 5090000081  
- 12V  
Code 5090000082  
- 24V  
Weight: 17,8 kg

## KTM – The Superpower

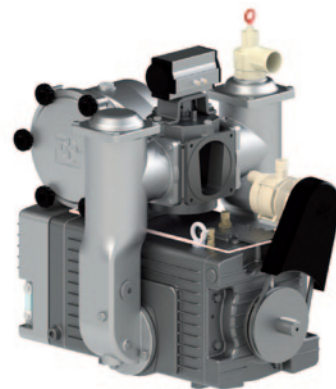
The KTM pump series features liquid cooled housing and flanges enabling continuous operation in vacuum and in pressure modes.

The KTM design assures maximum cooling thanks to the wide cooling liquid chambers and to the high flow capacity of the integrated water pump.

The KTM Crash Protection System prevents the housing or the rotor to break of in case of vanes crash. Therefore the pump is easily repairable inexpensively in field.

The KTM oversized robust construction makes this pump ideal for heavy duty applications where long time continuous non-stop operation is required (i.e. oil fields, combined vacuum trucks, industrial applications, sucking of muds, semi-solid muds and stones).

The KTM series is the ideal choice for professional users and contractors.

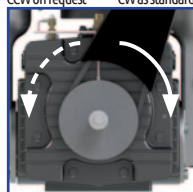


## STANDARD FEATURES

- Long Life Blades, 60 l/min integrated cooling pump, 4 or 6 points automatic lubrication by copper pipes.

## VERSIONS

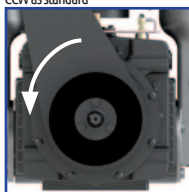
CCW on request CW as standard



### Version PFR

Smooth Cylindrical shaft,  
Ø 55, length 110 mm  
Parallel key UNI 6604

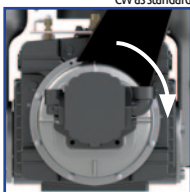
CCW as standard



### Version DFR

Splined shaft  
1"3/4 - Z6 ISO 500

CW as standard



### Version HFR

100 cc/rev - Pmax 400 bar - In G 1" - Out G 1"

## TECHNICAL DATA

	Geometrical capacity			Max rpm			Max abs pressure Bar/PSI	Max vacuum % (inHg)	Max continuous vacuum % (inHg)	Power at max vacuum kW (HP)	Weight kg		
	m³/h	l/min	cfm	PFR	DFR	HFR					PFR	DFR	HFR
KTM 1800	1860	31000	1094,76	1200	1200	1200	2,5 (36)	95% (28,5")	95% (28,5")	52 (69,7)	610	617	620
KTM 2300	2178	36300	1281,92	1200	1200	1200	2,5 (36)	95% (28,5")	95% (28,5")	61 (81,7)	673	680	683

## OPTIONALS



### Suction unit

Code 6080200154



### Hydraulic suction unit

Code 6080200170



### Pneumatic suction unit

Code 6080200187



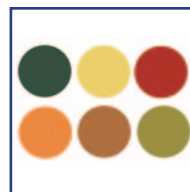
### Aluminum Final Air filter

Code 6080200094



### Battioni Vacuum Pump Oil

Code 5070200100



### Customized Painting



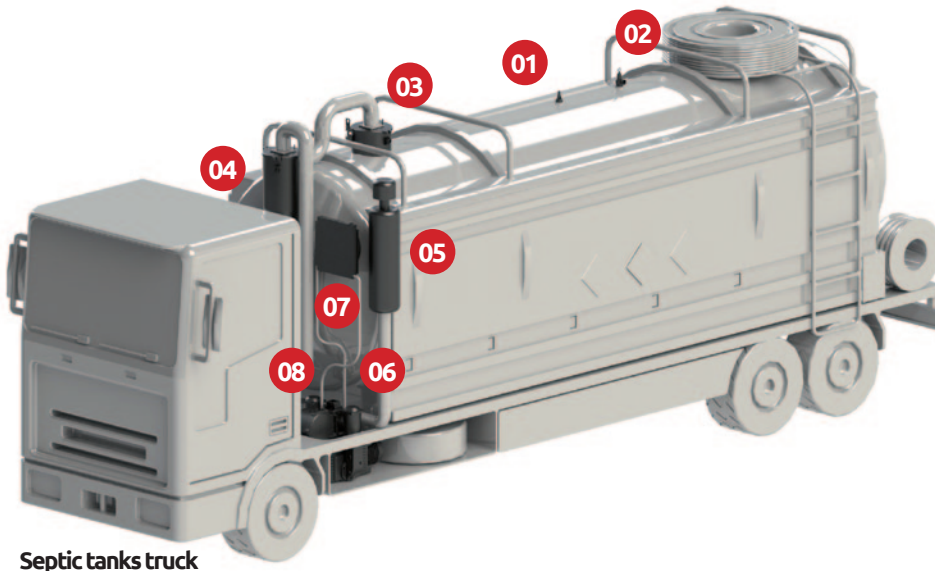
## ACCESSORIES



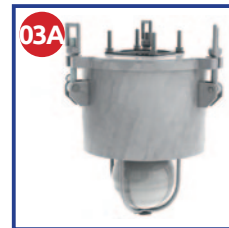
**Vacuum Relief Valve  
1"1/2**  
Code 5100200012  
Setting range:  
-0,3 bar / -0,8 bar  
Working temperature:  
-20°C / +90°C  
Thread: G 1"1/2  
Weight: 0,65 kg



**Overpressure Safety  
Valve - 2"1/2**  
Code 5100200011  
Setting range:  
+0,3 bar / +1,5 bar  
Working temperature:  
-20°C / +90°C  
Thread: G 2"1/2  
Weight: 1,5 kg

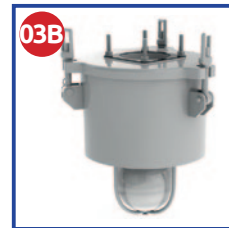


Septic tanks truck



**Primary Shut-Off Valve  
Bapag 3300**  
Code 6100200023  
Iron ring to be welded  
Housing: Mild Steel  
Ball: Stainless Steel AISI 304  
Weight: 26 kg

Liquid cooled - Rotary  
Vanes Vacuum/Pressure  
pumps



**Primary Shut-Off  
SS Valve Bapag 3300**  
Code 6100200031  
Stainless ring to be welded  
Housing: Stainless Steel  
AISI 304  
Ball: Stainless Steel AISI 304  
Connection: Ø 150 mm  
Weight: 26 kg



**Filter - Silencer**  
Code 5090000023  
Hose connection: Ø 120 mm  
Weight: 40 kg  
Length: 1400 mm



**Secondary Shut-Off  
Valve - 3300**  
Code 6100200024  
Housing: Galvanized Mild  
Steel  
Cover: aluminum  
Ball: SS AISI 304  
Connection: Ø 150 mm  
Weight: 55 kg



**Discharge valve -  
1"1/2**  
Code 504020015  
To be fitted on  
Secondary valve



**Aluminum Water filter**  
Code 6080200095



**Cyclon valve - 3300  
SS**  
Code 6100200032  
Housing: SS AISI 304  
Cover: aluminum  
Ball: SS AISI 304  
Connection: Ø 150 mm  
Weight: 55 kg



**Air-Water Cooler  
with Thermostat**  
Code 5090000081  
- 12V  
Code 5090000082  
- 24V  
Weight: 17,8 kg

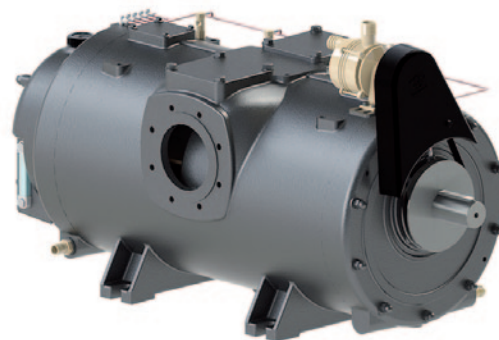
### WSM – The Greedy

The WSM pump series features liquid cooled housing and flanges enabling continuous operation in vacuum and in pressure modes.

The WSM design assures maximum cooling thanks to the wide cooling liquid chambers and to the high flow capacity of the integrated water pump.

The WSM oversized robust construction makes this pump ideal for heavy duty applications where long time continuous non-stop operation is required (i.e. oil fields, combined vacuum trucks, industrial applications, sucking of muds, semi-solid muds and stones).

The WPT series is the ideal choice for professional users and contractors.

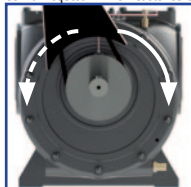


### STANDARD FEATURES

- Long Life Blades, 60 l/min integrated cooling pump, 4 or 6 points automatic lubrication by copper pipes.

### VERSIONS

CCW on request CW as standard



#### Version PFR

Smooth Cylindrical shaft,  
Ø 60, length 130 mm  
Parallel key UNI 6604

### TECHNICAL DATA

	Geometrical capacity			Max rpm	Max abs pressure Bar/PSI	Max vacuum % (inHg)	Max continuous vacuum % (inHg)	Power at max vacuum kW (HP)	Weight kg
	m³/h	l/min	cfm	PFR					PFR
WSM 2700	2700	45000	1589,2	1000	2,5 (36)	95% (28,5")	80% (21")	64 (85,7)	840
WSM 3300	3360	56000	1977,6	1000	2,5 (36)	95% (28,5")	80% (21")	73 (97,8)	960

### OPTIONALS



**Suction unit**  
Code 6080200154



**Hydraulic suction unit**  
Code 6080200170



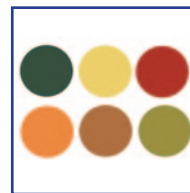
**Pneumatic suction unit**  
Code 6080200187



**Aluminum Final Air filter**  
Code 6080200094



**Battioni Vacuum Pump Oil**  
Code 5070200100



**Customized Painting**





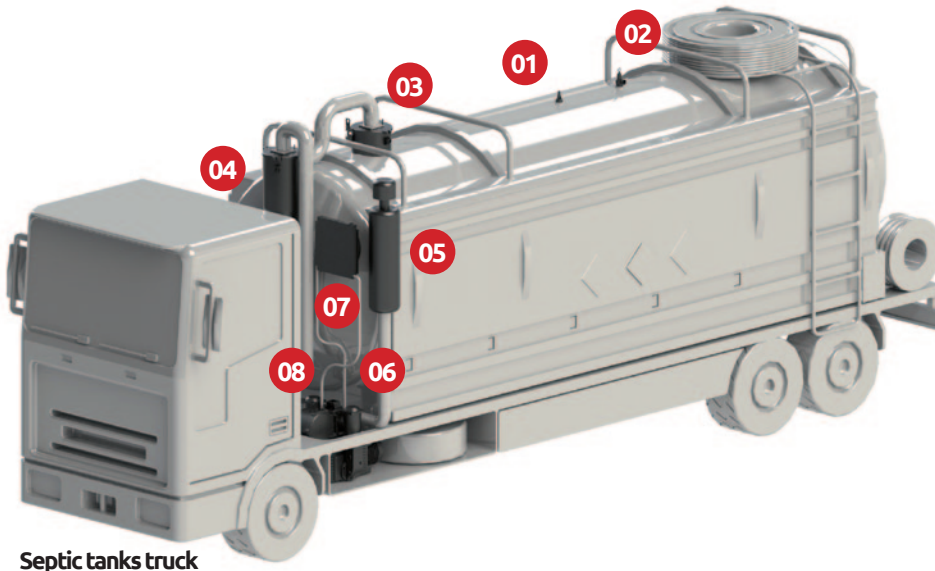
## ACCESSORIES



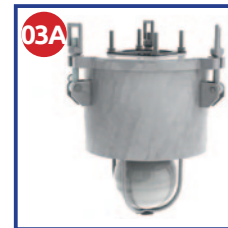
**Vacuum Relief Valve  
1"1/2**  
Code 5100200012  
Setting range:  
-0,3 bar / -0,8 bar  
Working temperature:  
-20°C / +90°C  
Thread: G 1"1/2  
Weight: 0,65 kg



**Overpressure Safety  
Valve - 2"1/2**  
Code 5100200011  
Setting range:  
+0,3 bar / +1,5 bar  
Working temperature:  
-20°C / +90°C  
Thread: G 2"1/2  
Weight: 1,5 kg



Septic tanks truck



**Primary Shut-Off Valve  
Bapag 3300**  
Code 6100200023  
Iron ring to be welded  
Housing: Mild Steel  
Ball: Stainless Steel AISI 304  
Weight: 26 kg

Liquid cooled - Rotary  
Vanes Vacuum/Pressure  
pumps



**Primary Shut-Off  
SS Valve Bapag 3300**  
Code 6100200031  
Stainless ring to be welded  
Housing: Stainless Steel  
AISI 304  
Ball: Stainless Steel AISI 304  
Connection: Ø 150 mm  
Weight: 26 kg



**Filter - Silencer**  
Code 5090000024  
Hose connection: Ø 150 mm  
Weight: 51 kg  
Length: 1400 mm



**Secondary Shut-Off  
Valve - 3300**  
Code 6100200024  
Housing: Galvanized Mild  
Steel  
Cover: aluminum  
Ball: SS AISI 304  
Connection: Ø 150 mm  
Weight: 55 kg



**Discharge valve -  
1"1/2**  
Code 504020015  
To be fitted on  
Secondary valve



**Aluminum Water filter**  
Code 6080200095



**Cyclon valve - 3300  
SS**  
Code 6100200032  
Housing: SS AISI 304  
Cover: aluminum  
Ball: SS AISI 304  
Connection: Ø 150 mm  
Weight: 55 kg



**Air-Water Cooler  
with Thermostat**  
Code 5090000081  
- 12V  
Code 5090000082  
- 24V  
Weight: 17,8 kg