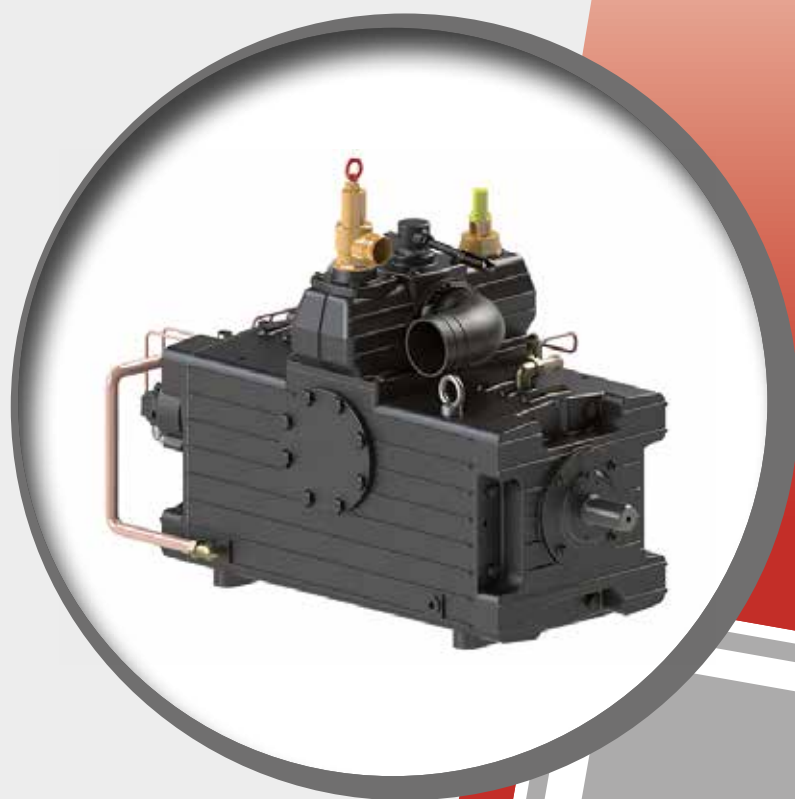




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**Technical Catalogue**  
Catalogo Tecnico  
Technischer Katalog

**2020**  
**KTS**  
**1080**



**[www.bapag.it](http://www.bapag.it)**

rev. 2 del 15/10/2020



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**Kit Aluminum Final Air Filter**

Kit filtro aria alluminio  
Saugfilter Satz

**Automatic lubrication pump as standard**

Pompa di lubrificazione automatica di serie  
Automatische Schmierung als Serie



**Integrated cooling pump as standard**

Pompa di raffreddamento integrato di serie  
Integrierte Kühlpumpe

**Watercooling in the body and flanges**

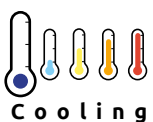
Raffreddamento ad acqua su corpo e flange  
Wasserkühlung im Körper und in den Flanschen

**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

**Long Life Blades as standard**

Palette Long Life di serie  
Long Life Schaufeln als serie



**LIQUID COOLED -  
ROTARY VANES  
VACUUM/PRESSURE  
PUMPS**



**Selector vacuum - pressure**

Selettore Vuoto - Pressione  
Wähler von Vakuum/Druck

**Overpressure valve 2"1/2 as standard**

Valvola di sovrappressione 2"1/2 di serie  
Überdruckventil 2"1/2 als serie



**Depression valve as standard**

Valvola di regolazione vuoto di serie  
Unterdruckventil als Serie

**Integrated Check valve (rubber ball)**

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

**CPS - 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



### VERSIONS



KTS - MFR/  
MAFR



KTS - PFR



KTS - DFR



KTS - HFR

Liquid cooled - Rotary  
Vanes Vacuum/Pressure  
pumps



*Full water cooling*

**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



The picture is only for informative purpose.  
See the table on page 89 for the complete list of the available optionals.

## KTS – The Incredible

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

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

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

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



## STANDARD FEATURES

- Long Life Blades, 30 l/min integrated cooling pump, 4-ways valve, integrated check valve, 4 points automatic lubrication by copper pipes, side outlets, exhaust elbows, depression valve, overpressure valve, Crash protection System.
- Available hoses connections: Ø 100 mm (4")

## VERSIONS

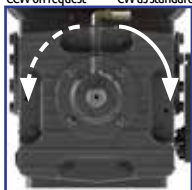
CCW as standard



### Version MFR/MAFR

Splined shaft  
1"3/8 - Z6 ISO 500

CCW on request CW as standard



### Version PFR

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

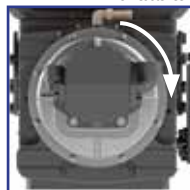
CCW as standard



### Version DFR

Splined shaft  
1"3/8 - Z6 ISO 500

CW as standard



### Version HFR

Group 4  
108,9 cc/rev - Pmax 250  
bar - In G 1" - Out G 1" 1/4

## TECHNICAL DATA

|          | Geometrical capacity |       |        | Max rpm |      |                   | Max abs pressure<br>Bar/PSI | Max vacuum<br>% (inHg) | Max continuous vacuum<br>% (inHg) | Power at max vacuum<br>kW (HP) | Weight kg   |     |     |     |
|----------|----------------------|-------|--------|---------|------|-------------------|-----------------------------|------------------------|-----------------------------------|--------------------------------|-------------|-----|-----|-----|
|          | m <sup>3</sup> /h    | l/min | cfm    | MFR     | MAFR | PFR<br>DFR<br>HFR |                             |                        |                                   |                                | MFR<br>MAFR | PFR | DFR | HFR |
| KTS 1080 | 1080                 | 18000 | 635,66 | 600     | 1000 | 1200              | 2,5 (36)                    | 95%(28,5")             | 95%(28,5")                        | 45 (60,3)                      | 459         | 433 | 433 | 475 |

## OPTIONALS



**Kit Aluminum Final Air filter 1300**  
Self cleaning  
Code 6080200290



**Hydraulic Changeover**  
Code 6080200176



**Hydraulic Revolving Changeover**  
Code 5090000078



**Pneumatic Revolving Changeover**  
Code 6080200238



**Pneumatic Revolving Changeover - 3 positions**  
Code 6080200293



**Battioni Pagani Vacuum Pump Oil 5 lt.**  
Code 5070200100



**Battioni Pagani Flushing Fluid 5 lt.**  
Code 5070200102



**Flushing Kit**  
Code 6080200325



**Pump Controller**



**Pump Active Controller**



**Customized Painting**



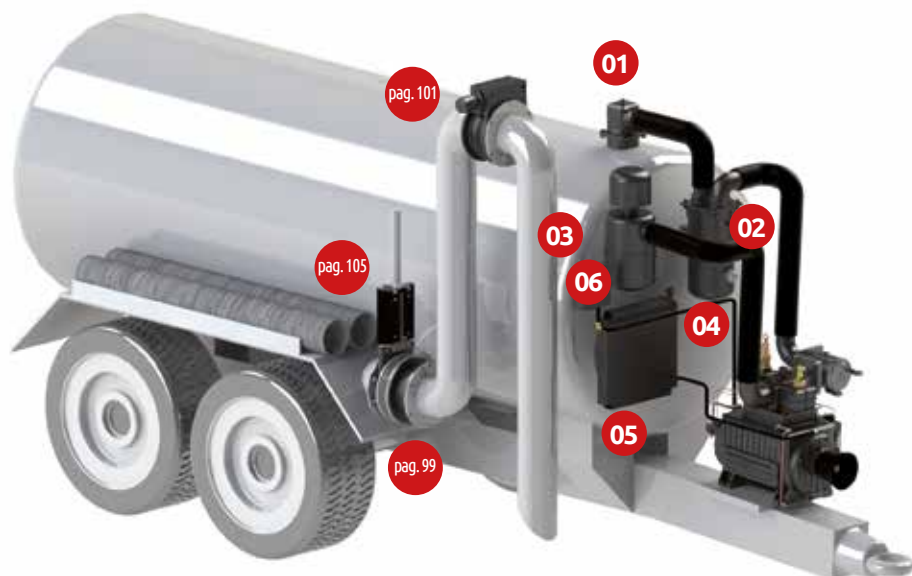
## ACCESSORIES



**01** **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



**02** **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



Tank with side pipe



**03** **Discharge**  
**Silencer**  
Code 5090000126  
Ø 100  
Weight 25 kg



**06** **Sliding Support**  
Code 5090000129 (Ø250)  
(Silencer Code 5090000126)



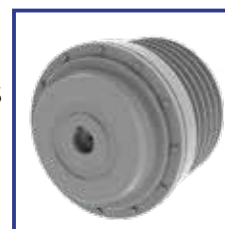
**05** **Air-Water Cooled with**  
**Thermostat**  
Code 5090000081 - 12V  
Code 5090000082 - 24V  
Weight: 17,8 kg



**01A** **Primary Overflow Valve -**  
**Two Balls**  
Code 6100200030 - Ø76  
Code 6100200025 - Ø80  
Code 6100200026 - Ø100  
Iron ring to be welded  
Weight: 13,9/14,0 kg



**01B** **Primary Overflow Valve -**  
**One SS Ball**  
Code 6100200027 - Ø80 SS  
Code 6100200028 -  
Ø100 SS  
Ball material: AISI 316  
Iron ring to be welded  
Weight: 13,8/13,9 kg



**Pulley with**  
**pneumatic**  
**clutch**  
Code 6080200035



**02A** **Cyclon valve - 1100**  
Code 6100200033/Ø100  
Housing: Galvanized Mild Steel  
Cover: aluminum  
Ball: AISI 316  
Weight: 35 Kg  
**Cyclon valve - 1100 SS**  
Code 6100200034/Ø100  
Housing: AISI 304  
Cover: aluminum  
Ball: AISI 316  
Weight: 35 kg



**04A** **Discharge valve - 1" 1/4**  
Code 5040200016  
To be fitted on Secondary  
valve



**04B** **Gauge - Ø 80 mm**  
**Axial Connection**  
Code 5101700007  
To be fitted on  
Secondary valve



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