



e.holding

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Hönnestraße 49 • 58809 Neuenrade • Fon +49(0)2394/61662 • Fax + 49(0)2394/61661 • www.e-holding.de





Echterhage - holding

Industrial divisions

Development & production

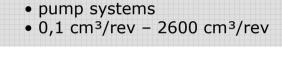












- flow measurement technology
 0,002 cm³/min......525 l/min
- magnetic coupling systems

oil tanks
hydraulic components
drive couplings



- hydraulic components
- measurement instrumentation







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Echterhage - Group

distribution & Service worldwide

Argentinien	Israel
Australien	Malaysia
Belgien	Italien
Brasilien	Japan
China	Kanada
Dänemark	Korea
Deutschland	Kuweit
Finnland	Malaysia
Frankreich	Mexiko
Großbritannien	Niederlande
Indien	Norwegen
Indonesien	Österreich
Iran	

Philippinen Polen Russland Schweden Schweiz Slowakei Spanien Süd-Afrika Tschechien Türkei Ungarn USA



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Beinlich Pumpen GmbH

Beinlich Pumpen GmbH

beinlich_{pump} systems

上海柔肯液压科技有限公司

http://www.roken.com.cn/

Tel:021-6180 8099 Fax:021-6259 5096







Key markets 市场

- ✓ Electronic entertainment (Mobile Phone, Television)
 电子产品(手机, 电视)
- ✓ Bonding (Glue) in automotive and glass industry
 各种粘接 / 汽车和玻璃工业
- ✓ Hot melt in packaging industry 热熔胶 / 包装行业
- ✓ Heating and Cooling (thermal oil and cooling liquids)
- ✓ Test benches







Target market 目标市场

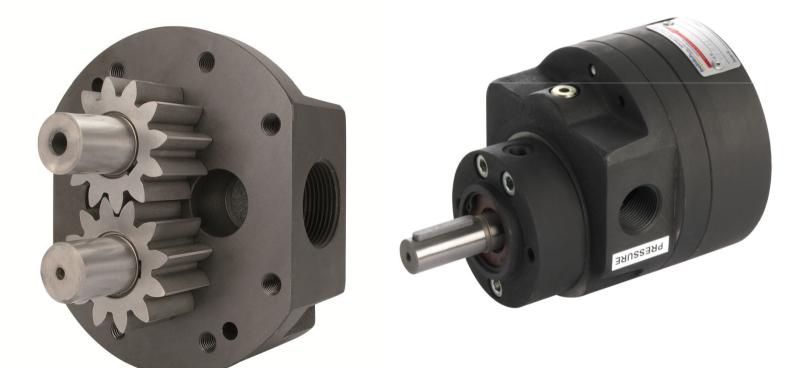
- ✔ Hydraulic 液压
- ✓ Chemical and process industry 化工
- ✓ Dosing and Transfer 定量和输送
- ✓ Petrogas industry 液化气行业
- ✓ Food industry 食品行业







Gear pump with external gears









✓ Available in different material selections 可选不同材质

✓ Available in different sealant options 不同密封材料和形式

✓Available for 0,1 – 2600cc/rev





Use...

- ✓ ...any fluid application, no matter if lubricant or non lubricant, no matter if there are any fillers or not.
- ✓ ...for fluids with viscosities of 0,8 to 2.000.000mPa*s and sometimes even more or less. 最高可处理材料粘度可达 2百万mPa.s
- ✓ …for pressure up to 200bar. In my family we have a few versions which can even work for higher pressures.







Gear pump with internal gears









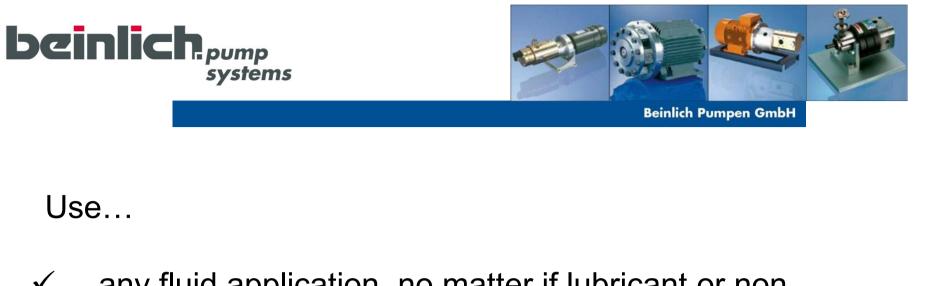


Available in different material selections

Available in different sealant options

✓ Available for 1,0 – 207cc/rev





- ...any fluid application, no matter if lubricant or non lubricant.
- ✓ …for fluids with viscosities of 0,8 to 1.000mPa*s and sometimes even more or less.
- ✓ …for pressure up to 120bar. In my family we have a few versions which can even work for higher pressures.







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Radial piston pump









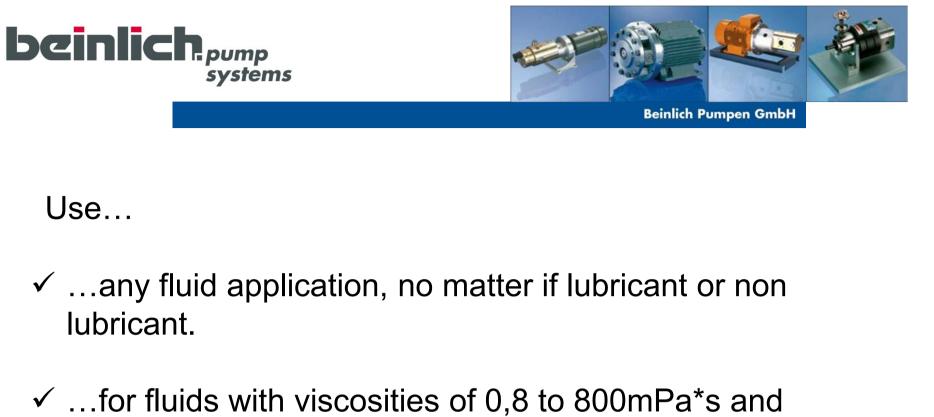


Available with/without housing or coating

 Available in different sealant options

✓ Available for 0,6 – 41,4cc/rev





- sometimes even more or less.
- ✓ ...for pressure up to 700bar.





FLUID TECHNOLOGY GROUP





Transfer pumps



ZPB









Transfer pumps

Industry

- Engineering
- Tank depot
- Gearbox lubrication

- Fluid
- Oil
- Polyol
- Isocyanate
- Diesel

Application/ Function

Transfer

.

- Pressure
 boosting
- Lubrication

Customers/ Target

- Engineering
- Engine
 manufacturing
- Gearbox
 manufacturing







Applications

- ✓ Engine test benches
- ✓ Gearbox Filling Station
- ✓ Booster applications



Solutions for Fluid Technology





Competitive advantages

- ✓ Various material combinations
- ✓ Higher pressures
- ✓ Increased durability
- ✓ High efficiency
- ✓ Application related test
- Customized and innovated solutions









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Dosing pumps定量泵



ZPBD

ZPDA

DARTec







Dosing pumps

Industry

- Polyurethane
 industry
- Tank storage
- Painting
 machinery
- Potting
- Food industry

Fluid

- Polyol / Isocyante
- Additive
- Peroxide
- Epoxy
- Hotmelt
- Silicons
- Paint

Application/ Function

- Dosing
- Pressure increase

Customers/ Target

- Engineering
- Dosing technology
- Painting machineries







Applications应用

- ✓ Potting machinery 灌封/封装
- ✓ 2-Component application / 3-Component application
 2组分或3组分定量、混合应用
- ✓ Hotmelt application 热熔胶







Competitive advantages

- ✓ Various material combinations
- ✓ Higher pressures
- ✓ Increased durability
- ✓ High efficiency
- ✓ Application related test
- Customized and innovated solutions





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Radialpiston Pumps



TRG TRGD







Radialpiston Pumps

Industry

- Hydraulic
 test benches
- Engine test
 benches

Fluid

- Hydraulic oil
- Kerosene

Application/ Function

- Pressure
 increase
- Power transfer
- Power press

Customers/ Target

- Automotive industry
- Aircraft
 industry







Applications

- ✓ Engine test benches
- ✓ Jet engine test benches
- ✓ Hydraulic test benches







Competitive advantages

- ✓ Coatings
- ✓ Increased durability
- ✓ High efficiency
- ✓ Application related test
- $\checkmark\,$ Customized and innovated solutions







Customers

- ✓ HPS
- ✓ Bürkle (SMG)
- ✓ Bosch
- ✓ Krauss Maffei
- ✓ Afros
- ✓ IAC









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Application examples







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Hotmelt-sealing machine in the glass industry







Hotmelt-sealing machine in the glass industry









Common pump features

- plate assembling inlet in rear plate
- with heating supplied through us or direct on plate
- low speed from 10 to max. 100 rpm
- not more than 120 bar working pressure
- cast iron housing
- double lip seal or gland packing
- ✓ fluid temperature between 160 to 190 ° C
- not more than 3 l/min flow rate







Pump models

- ✓ ZPD Hotmelt
- ✓ ZPDA
- ✓ ZPDE











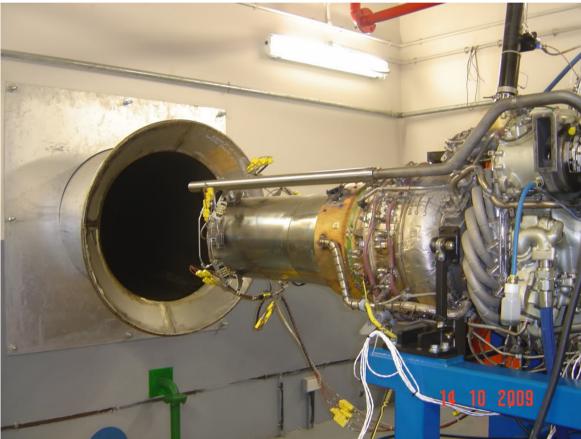








Aircraft test bench









- / high speeds from 680 to max. 3000 rpm
- working pressure between 1 700bar
- \checkmark cast iron housing
- / magnetic coupling
- \checkmark fluid temperature between 20 to 130 $^\circ\,$ C
- ✓ wide range of flow rates







Pump models

- ✓ ZPD
- ✓ ZPA✓ TR / TRG / TRGD











Solutions for Fluid Technology

Rotor blade production







Rotor blade production









- / low speeds from 100 to max. 680 rpm
- not more than 120 bar working pressure
- \checkmark cast iron housing
- \checkmark triple shaft seal
- \checkmark fluid temperature between 20 to 130 $^\circ\,$ C
- ✓ flow rates between 2 50l/min





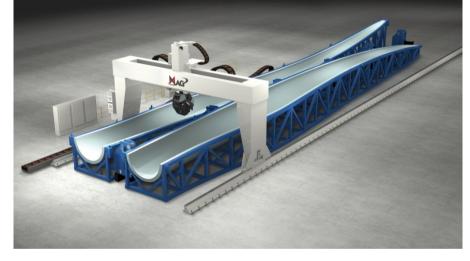


Pump models

- ✓ ZPDA
- ✓ DARTec
- ✓ ZPD
- ✓ ZPA



















Fire engine









Fire engine









- / high speeds from 1000 to max. 3000 rpm
- not more than 50 bar working pressure
- ✓ stainless steel or bronze housing
- \checkmark mechanical seal
- \checkmark fluid temperature between 20 to 130 $^\circ\,$ C
- ✓ wide range of flow rates







Pump models



✓ZPD

✓ZPA

Solutions for Fluid Technology

















Dispensing System









- ✓ low speeds from 1 to max. 400 rpm
- $\checkmark\,$ not more than 150 bar working pressure
- ✓ stainless steel housing
- \checkmark mechanical seal
- $\checkmark\,$ fluid temperature between 20 to 130 $^\circ\,$ C
- ✓ flow rates between 0,1 4,0l/min

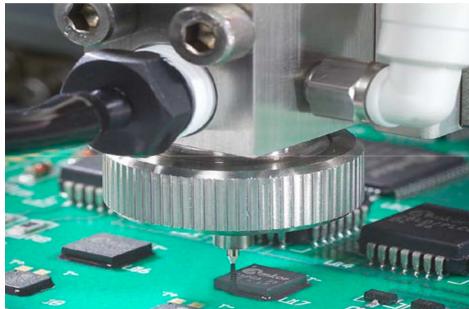






Pump models

- ✓ ZPD
- ✓ ZPDA
- ✓ DARTec
- ✓ ZPA











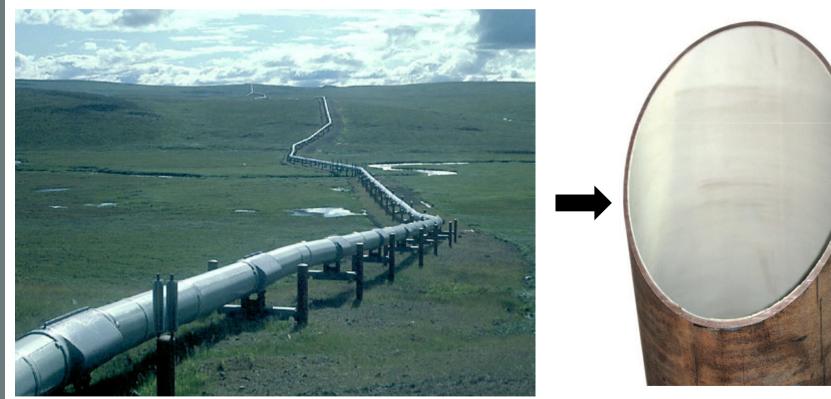








Internal pipe coating









- / low speeds from 250 to max. 600 rpm
- not more than 80 bar working pressure
- $\checkmark\,$ cast iron housing
- \checkmark mechanical seal
- \checkmark fluid temperature between 20 to 130 $^\circ\,$ C
- ✓ flow rates between 5 40l/min







Pump models

- ✓ ZPD
- ✓ ZPDA
- ✓ DARTec











Solutions for Fluid Technology

Propane gas compression







Propane gas compression









- / high speeds from 1000 to max. 1800 rpm
- $\checkmark\,$ not more than 80 bar working pressure
- $\checkmark\,$ cast iron housing
- ✓ magnetic coupling
- ✓ fluid temperature between 20 to 130 $^\circ\,$ C.
- / high flow rates > 20I/min







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Pump models





















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Shoe machinery









Shoe machinery









Shoe machinery









- ✓ low speeds from 50 to max. 250 rpm
- $\checkmark\,$ not more than 80 bar working pressure
- \checkmark cast iron housing
- \checkmark mechanical seal
- ✓ fluid temperature between 20 to 130 $^\circ\,$ C
- ✓ low flow rates between 0,1 2,01/min





✓ ZPD

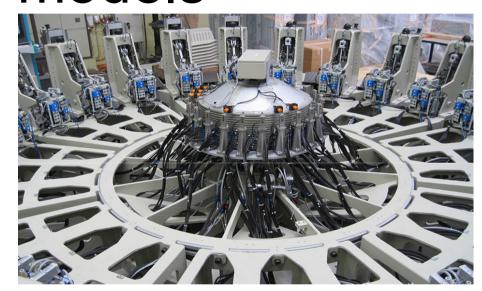
 \checkmark

✓ ZPDA

DARTec



Pump models











Marine engines







Beiniich Pumpen Gmb

Marine engines









- / high speeds from 680 to max. 1450 rpm
- $\checkmark\,$ not more than 80 bar working pressure
- \checkmark cast iron housing
- \checkmark mechanical seal
- ✓ fluid temperature between 20 to 130 $^\circ\,$ C
- ✓ high flow rates between 50 300 l/min







Pump models



✓ ZPA









Hot melt







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Hot melt



Solutions for Fluid Technology





Common pump features

- ✓ low speeds from 100 to max. 600 rpm
- $\checkmark\,$ not more than 80 bar working pressure
- $\checkmark\,$ cast iron housing
- \checkmark mechanical seal
- ✓ fluid temperature between 80 to 250 $^\circ\,$ C
- ✓ low flow rates between 0,1 3,01/min





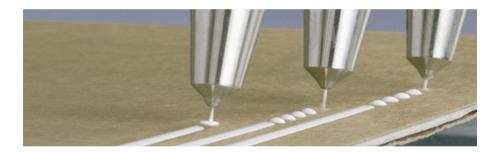


Pump models















Solutions for Fluid Technology

Robotic dosing application







Robotic dosing application









Common pump features

- $\checkmark\,$ low speeds from 100 to max. 600 rpm
- $\checkmark\,$ not more than 100 bar working pressure
- $\checkmark\,$ cast iron housing
- \checkmark mechanical seal
- $\checkmark\,$ fluid temperature between 20 to 150 $^\circ\,$ C
- ✓ low flow rates between 0,1 5,01/min
- high inlet pressures > 80bar







Pump models

- ✓ ZPD
- ✓ ZPDA
- ✓ DARTec



















Robotic gluing application in automotive industrie









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Robotic gluing application 汽车白车身涂胶/粘接









Common pump features

- ✓ low speeds from 10 to max. 400 rpm
- $\checkmark\,$ not more than 100 bar working pressure
- ✓ Stainless steel housing
- \checkmark mechanical seal
- \checkmark fluid temperature between 20 to 150 $^\circ\,$ C
- ✓ Iow flow rates between 0,1 5,0I/min
- high inlet pressures > 80bar



✓ fluid
✓ low
✓ high





Beimen Fompen ombi

Pump models

- ✓ ZPD
- ✓ ZPDA
- ✓ DARTec



















Color coding - cables









Common pump features

- low speeds from 10 to max. 100 rpm
- / not more than 100 bar working pressure
- ✓ Stainless steel housing
- \checkmark mechanical seal
- \checkmark fluid temperature between 20 to 50 $^\circ\,$ C
- ✓ Iow flow rates between 0,01 0.5I/min
- ✓ low inlet pressures < 10bar</p>







Pump models





✓ DARTec









Heat transfer oil – solar heat







Heat transfer oil – solar heat









Heat transfer oil – solar heat









Common pump features

- / high speeds from 680 to max. 1450 rpm
- / not more than 20 bar working pressure
- ✓ Cast iron housing
- ✓ Gland packing
- $\checkmark\,$ high fluid temperature between 200 to 350 $^\circ\,$ C
- ✓ flow rates between 1 20l/min
- ✓ low inlet pressures < 10bar</p>





✓ ZPA

✓ ZPD



Pump models



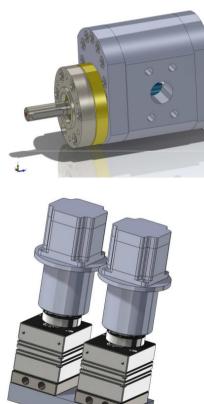






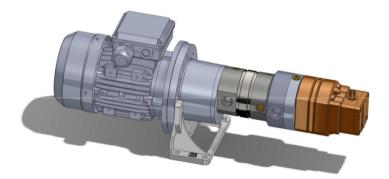


New products

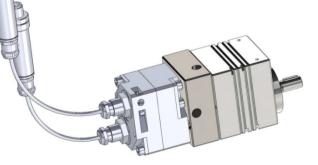


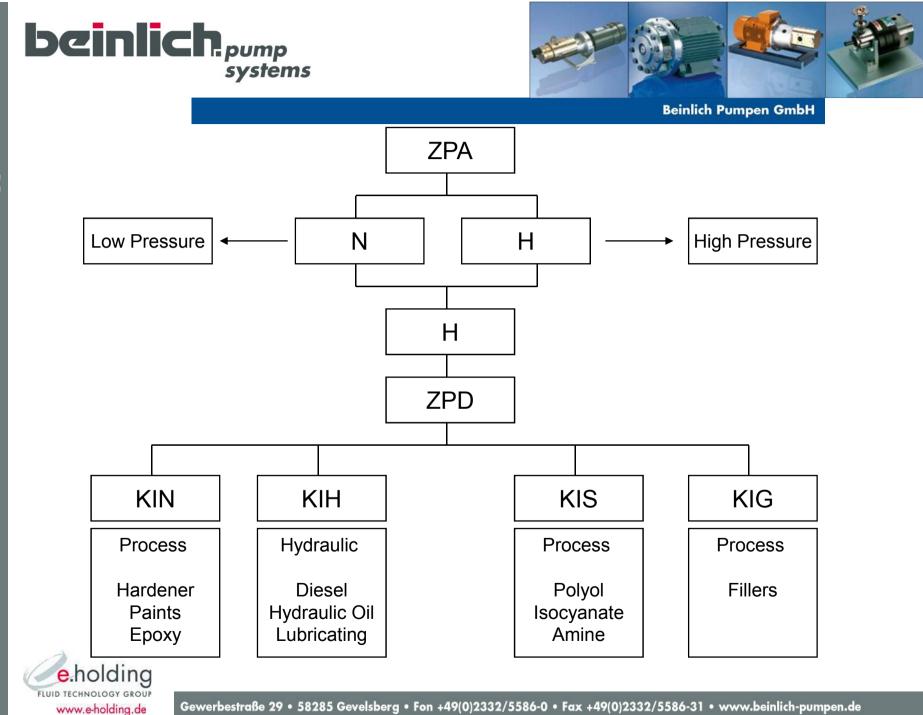








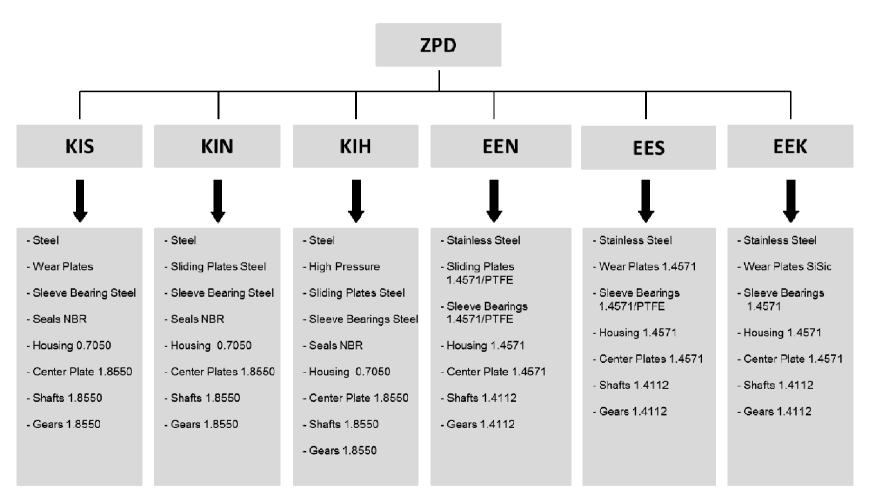








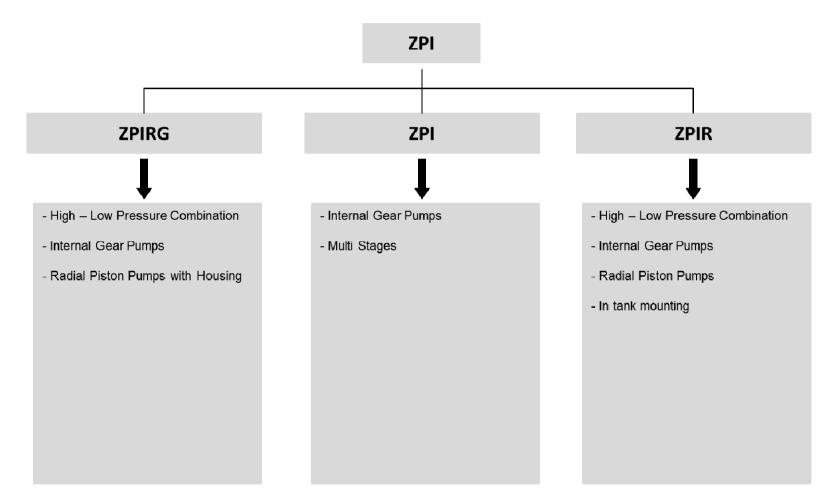
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