FNP·FNPM·FNPMF型PFA塑料衬里标准化工泵

Standardized Chemical Pumps with PFA Lining

Type FNP·FNPM·FNPMF



SINOGE

FRIATEC

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FNP型PFA衬里标准化工泵
Standardized Chemical Pumps with PFA Lining
Type FNP

应 用

以PFA衬里标准化工泵适用于化学,制药工业,石化工业及一般流程工业,用于泵送化学侵蚀及腐蚀性流体。

最高工作温度: 190℃
设计工作压力: 16bar

Areas of application

Standardized chemical pumps with PFA lining are suitable for virtually universal use in the chemical and pharmaceutical industries, in the petrochemical industry and in general processing technology, for the handing of chemically aggressive and corrosive media.
Maximum operating temperature: 190℃.
Nominal pressure 16 bar

PFA衬里泵结构特点:

- 与泵液接触的部件均有厚层防渗漏PFA衬里。
- 泵壳PFA衬里,配特殊接缝,耐真空防变形。
- 一体化泵壳。
- 如需要,泵壳排水口供选。
- 组件简单所以组装及拆卸便宜。
- 金属压力轴承组件使用GGG40.3球墨铸铁和/或钢。

Design features of the PFA lined pumps

- Thick walled and thus diffusion resistant PFA lining of all parts in contact with the medium.
- PFA lining with special joint to the armour, therefore vacuum-resistant and resistant against deforming
- One-piece casing.
- Casing drain available if required.
- Simple disassembly and assembly because of few component parts.
- Metallic pressure-bearing components made of GGG-40.3 ductile iron, and/ or steel.

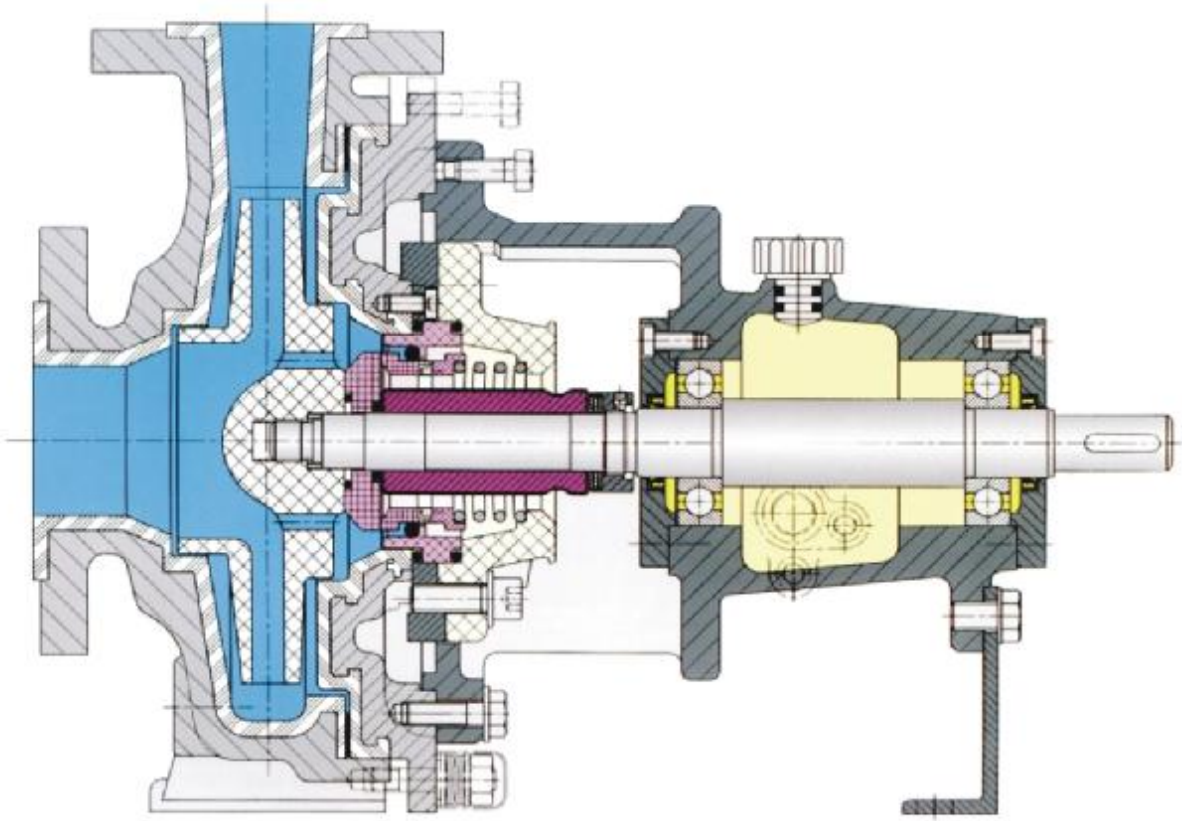
FNP结构特点:

- 开式或闭式叶轮供选
- 轴封
  - 压盖密填(A型)
  - 静机械密封(CS型)
  - 外部机械密封(CA型)
  - 双机械密封(CN2型)
- 容易更换机械密封而不必改变密封嵌入物
- 闭式叶轮上的平衡孔或采用开式叶轮背带小叶片来减小轴间推力

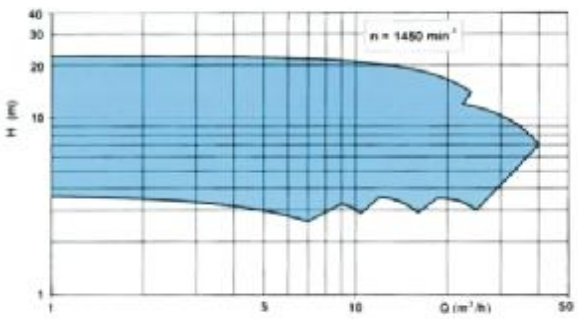
Design features of the FNP

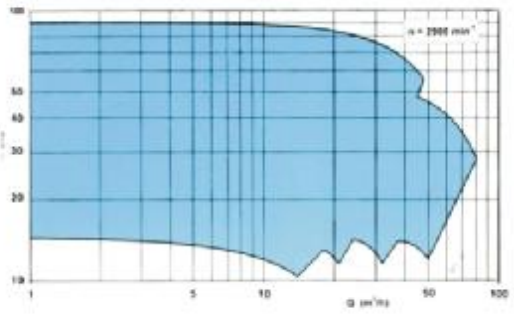
- Impeller available in closed or open design.
- Shaft sealing by :
  - Gland packing (design A)
  - Stationary mechanical seal (design CS)
  - External mechanical seal (design CA)
  - Double acting mechanical seal (design CN2)
- Easy exchange of mechanical seal types is possible without changing the seal insert.
- Axial thrust relief by means of balance holes in closed impellers, or with back-vanes on open impellers.

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型谱图
Range Chart





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FNPM•FNPF型PFA衬里磁力驱动泵
Magnetic Drive Pumps with PFA Lining
Type FNPM • FNPMF

应 用

使用磁动力泵可安全输送强腐蚀、有毒、有害或对环境造成污染的液体。

Areas of application

Highly aggressive and corrosive media which are also toxic, generally hazardous, or which can pollute the environment, can be safely handled with magnetic drive pumps.

FNPM/FNPMF型泵的结构特点

- 轴向转动传输动力耦合
- 碳纤加固塑料,内衬PFA材质的双间隔罐防止了涡流损失
- 内部转子和泵轴呈一体化,完全PFA涂层
- 叶轮与内部转子用螺丝锁紧
- 平衡孔消除轴向推力
- 新开发的非纯硅-碳化硅材质的套圈轴承
- 泵和电机端套筒轴承同质
- 安全,非接触式间隔罐限定了安全接触区域
- 提供外冲洗联接
- 实时监控和保护装置备选
- 二级附加保护密封供选
- 对特殊介质,紧急防泄漏安全密封供选

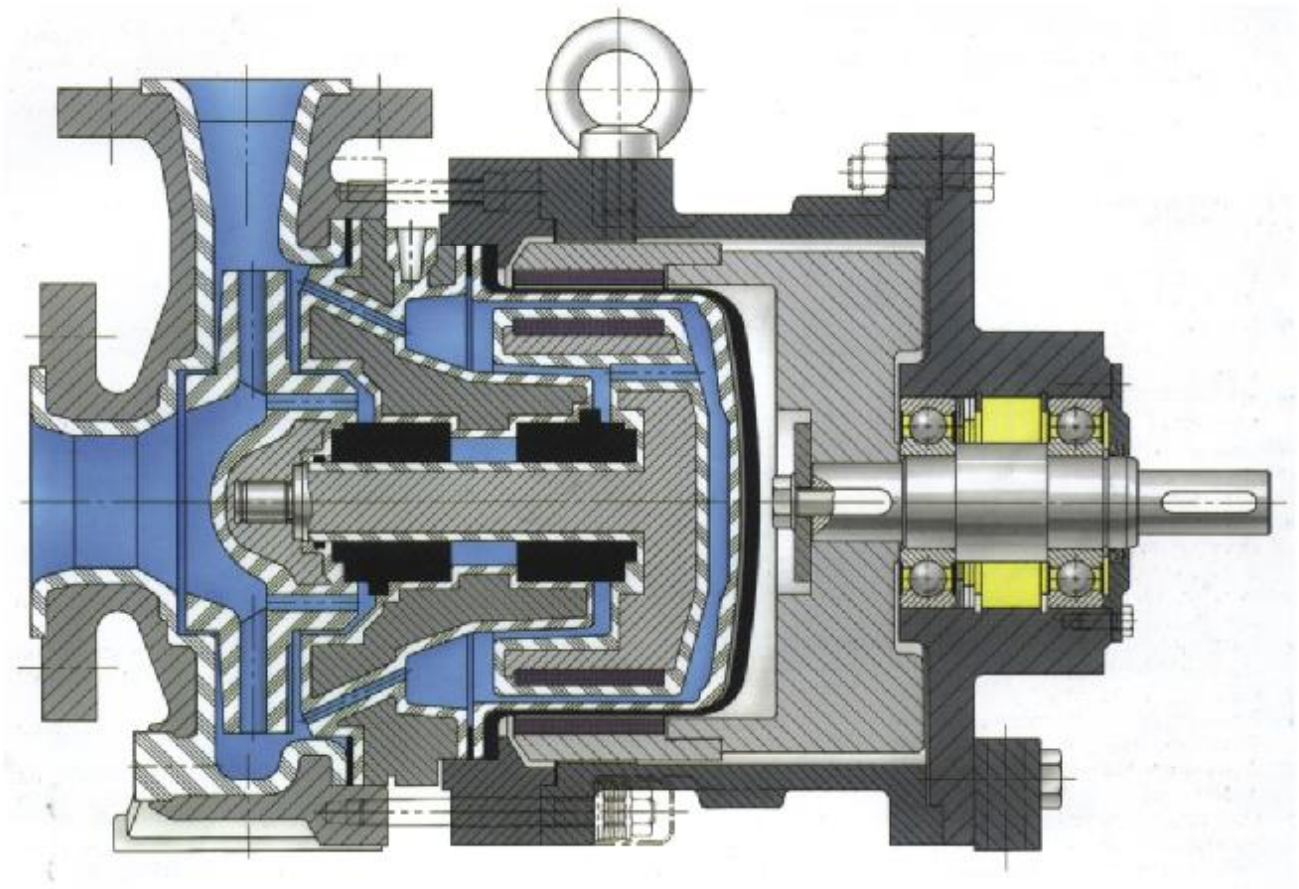
Design features of the FNPM/FNPMF

- Power transmitted through an axial rotation coupling
- Double spacer-can made of carbon fibre reinforced plasticwith an internal PFA lining, therefore no eddy current losses
- Inner rotor and shaft made in one piece, completely PFA coated
- Impeller screwed to inner rotor
- Axial thrust relief by means of balance holes
- Newly developed sleeve bearing made of pure silicon-free SiC silicon carbide
- Pump and motor end sleeve bearings are identical
- Safe, contact-free design of spacercan because of clearly defined safe contact areas
- Connection for external flushing provided
- Practical monitoring and protection equipment available
- Additional protection provided by secondary sealing in the bearing area
- For especially critical media, emergency sealing in connection with leakage detector (AIRBAG)

- 可转化为直联FNPMF型
- 无需对中连接
- 有定位销便打装拆电机
- 可使用无底座设计型
- 标准电机可使用

- Simple charge to closed coupled design FNMF possible
- Coupling alignmnet not required
- Simple Motor fitting and remral because of guide pins
- An inexpersive installation without foundations is possible
- Stanrard Motors can be used

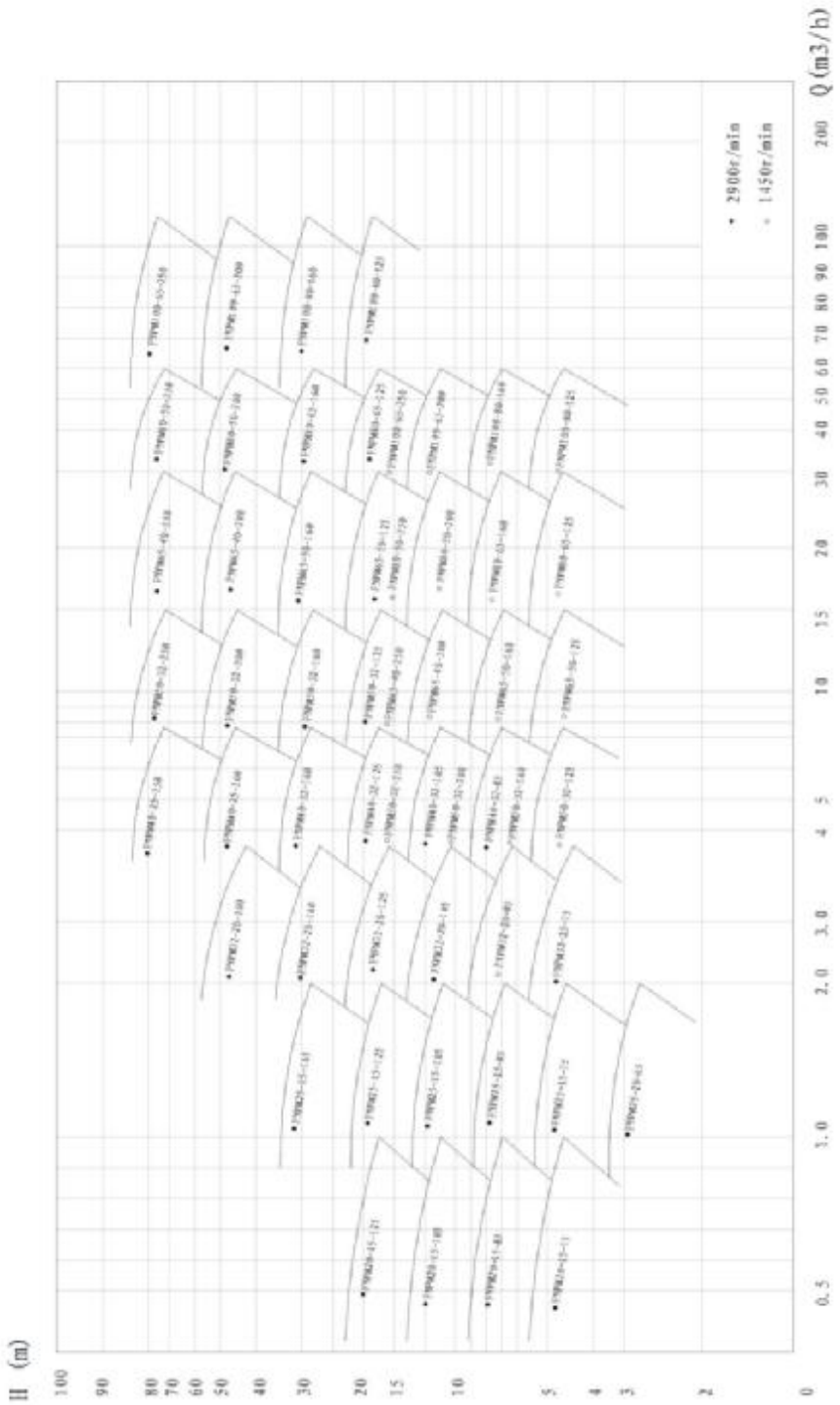
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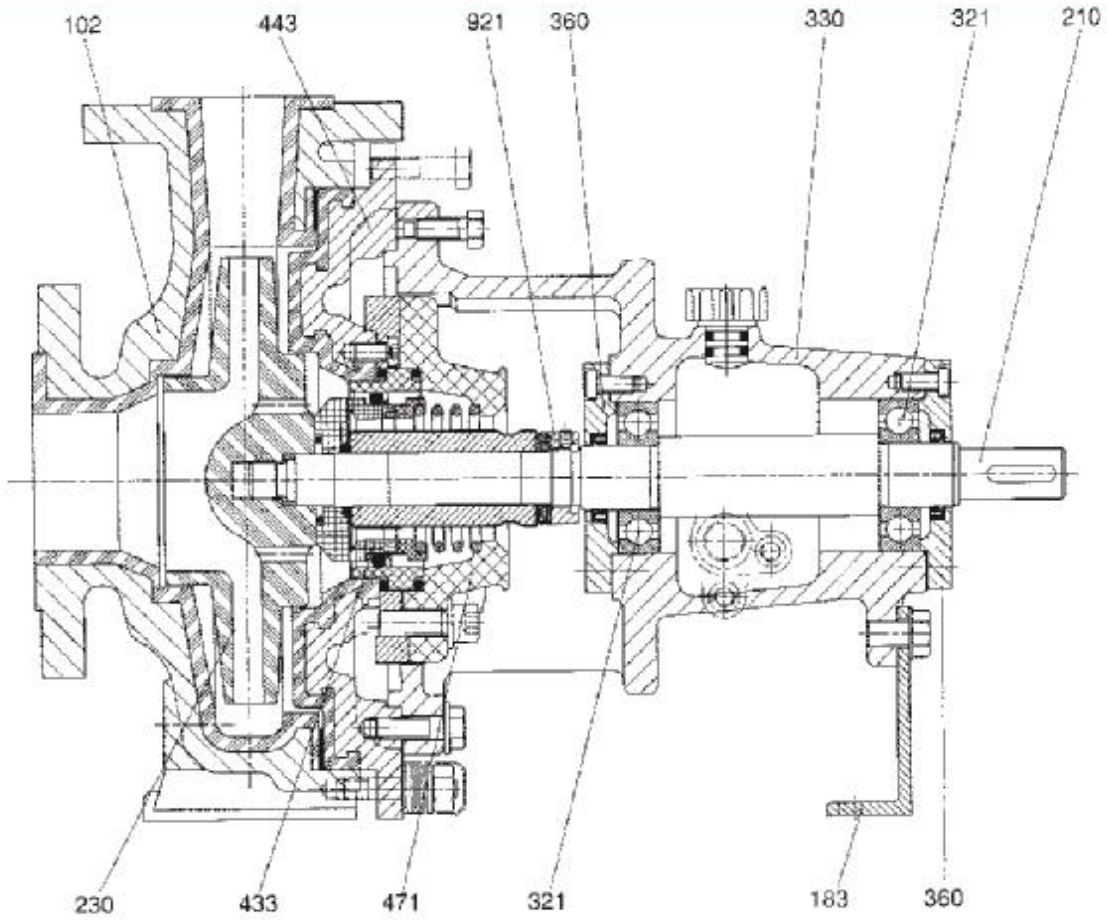
型谱图　Range Chart

FNPM 型谱图
FNPM Type Arrangement Chart



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FNP型结构与部件



FNP型结构与部件

序号	名称
102	涡壳
183	支架
210	泵轴
230	叶轮
321	径向球形轴承
330	轴承支架
360	轴承压盖
433	机械密封
443	密封嵌入物
471	机械密封压盖
921	泵轴螺栓

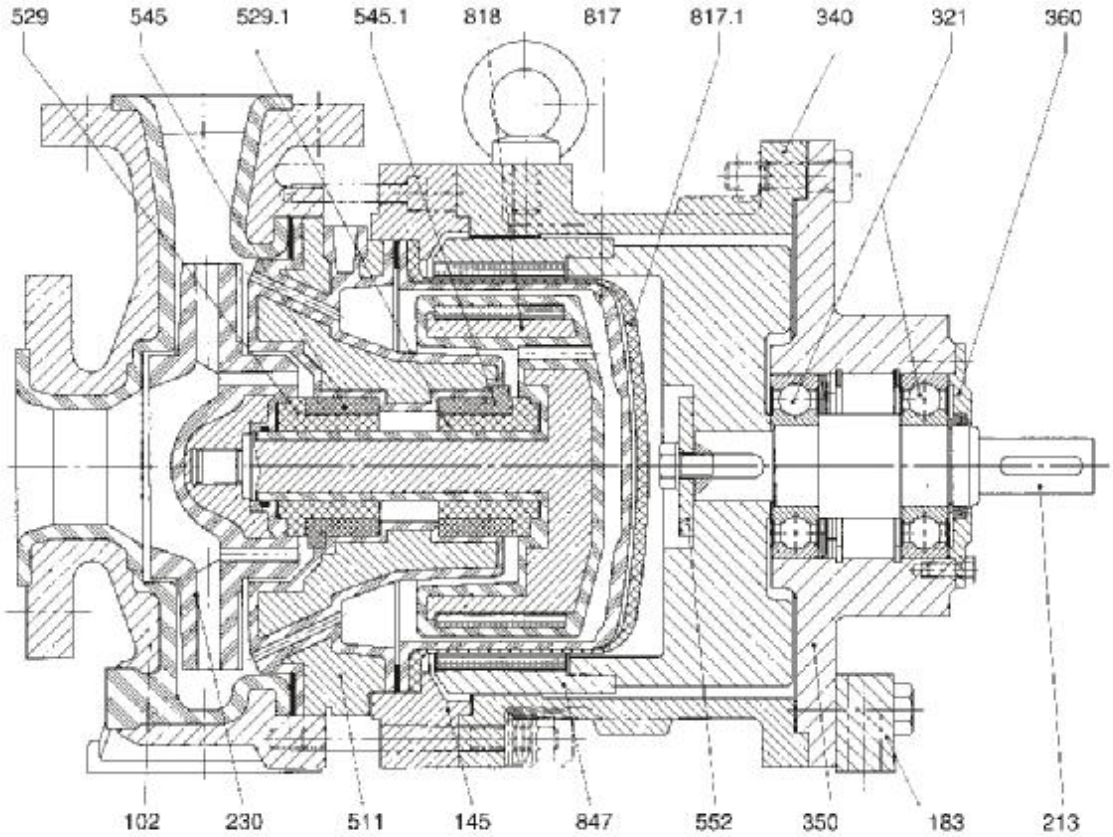
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符合DIN24250标准

Type FNP designation and parts

Part-No.	Designation
102	Volute casing
183	Support
210	Shaft
230	Impeller
321	Radial ball bearing
330	Bearing bracket
360	Bearing cover
433	Mechanical seal
443	Seal insert
471	Mech. seal cover
921	Shaft nut

Pump complies generally with drawing but the design is subject to alteration.

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FNPM型结构与部件

序号	名称
102	涡壳
145	适配器
183	支架
213	上轴
230	叶轮
321	径向球形轴承
340	轴承支架
350	轴承架
360	轴承压盖
511	中心环
529	轴套筒轴承
529.1	轴套筒轴承
545	轴承套管
545.1	轴承套管
552	扳手
817	间隔罐
817.1	间隔罐
818	转子
847	磁性连接

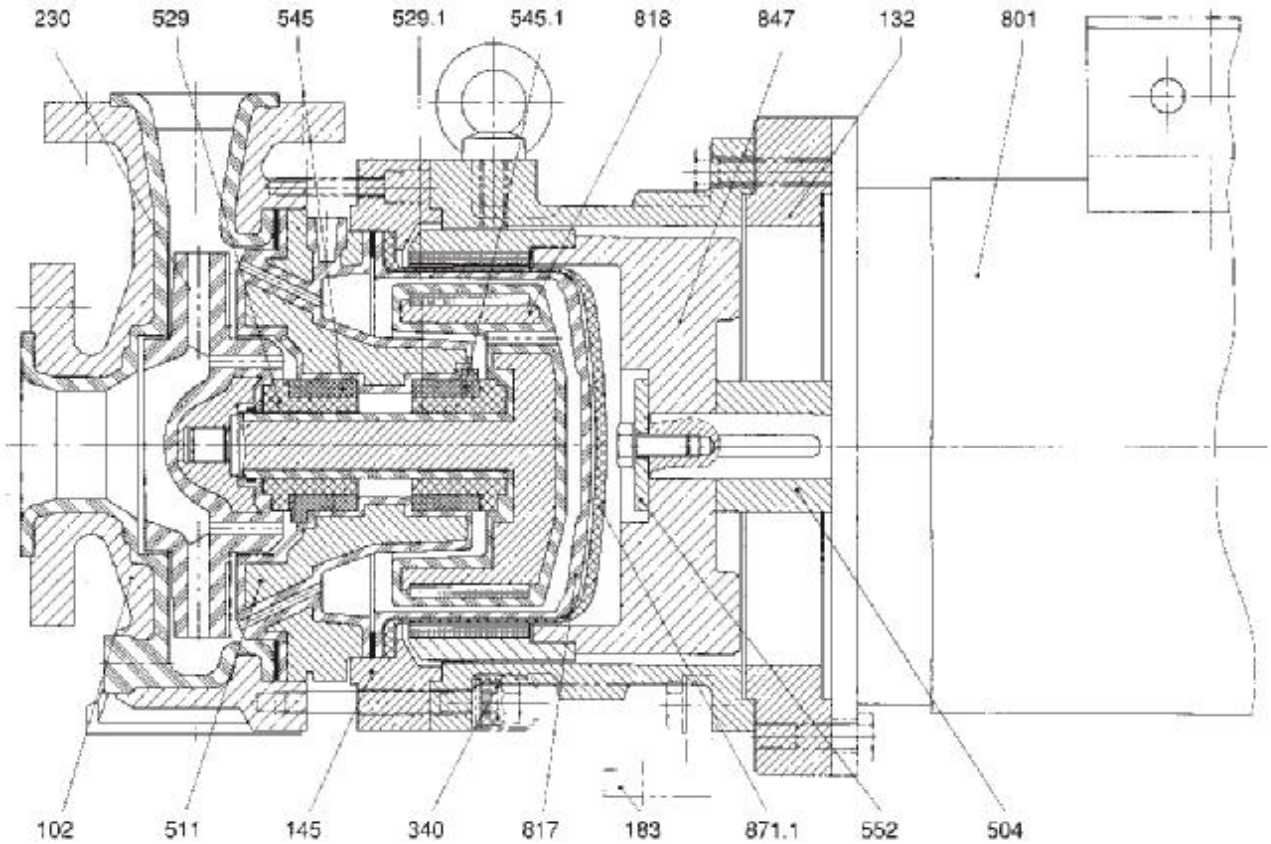
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Type FNPM designation and parts

Part-No.	Designation
102	Volute casing
145	Adaptor
183	Support
213	Top shaft
230	Impeller
321	Radial ball bearing
340	Bearing bracket lantern
350	Bearing housing
360	Bearing cover
511	Centring ring
529	Shaft sleeve bearing
529.1	Shaft sleeve bearing
545	Bearing bushing
545.1	Bearing bushing
552	Spanner
817	Spacer-can
817.1	Spacer-can
818	Rotor
847	Magnetic coupling

Pump complies generally with drawing but the design is subject to alteration.

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FNPM型结构与部件

序号	名称
102	涡壳
132	中间层
145	适配器
187	支架
230	叶轮
340	轴承支架
504	定距环
571	中心环
529	套筒轴承
529.1	套筒轴承
545	轴承套管
545.1	轴承套管
552	扳手
801	法兰电机
817	间隔罐
817.1	间隔罐
818	转子
847	磁力连接

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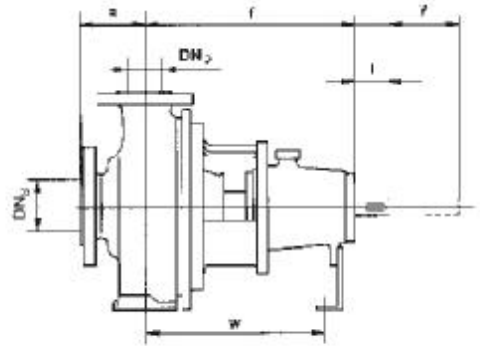
Type FNPM designation and parts

Part-No.	Designation
102	Volute casing
132	Interm.piece
145	Adaptor
187	Support
230	Impeller
340	Bearing bracket lantern
504	Distance ring
571	Centring ring
529	Shaft sleeve bearing
529.1	Shaft sleeve bearing
545	Bearing bushing
545.1	Bearing bushing
552	Spanner
801	Flange motor
817	Spacer-can
817.1	Spacer-can
818	Rotor
847	Magnetic coupling

Pump complies generally with drawing but the design is subject to alteration.

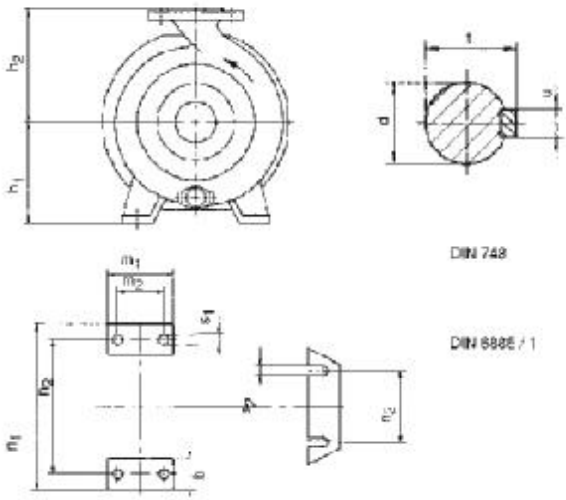
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Dimension 尺寸

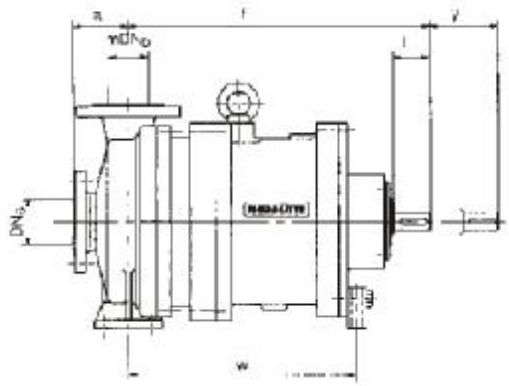


y = Spacer lengths

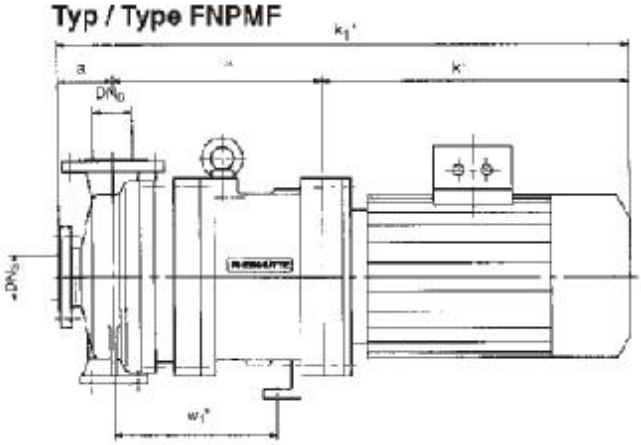
Typ / Type FNP



Typ / Type FNPM



Typ / Type FNPMF



Design without armour 不带夹套设计

Size 型 号	Bearing Bracket 轴承支架	Flanges* 法 兰		Pump Sizes 泵尺寸				Support Dimensions 支撑尺寸										Sheft End 轴端			
		DNd	DNs	a	f	h1	h2	b	m1	m2	n1	n2	n3	s1	s2	w	y	d	l	t	u
25/160	I	25	32	80	370	132	160	50	100	70	240	190	110	14	14	270	100	24	50	26,9	8
32/160	I	32	50	80	385	132	160	50	100	70	240	190	110	14	14	285	100	24	50	26,9	8
32/200	I	32	50	80	385	160	180	50	100	70	240	190	110	14	14	285	100	24	50	26,9	8
40/200	I	40	65	100	385	160	180	50	100	70	265	212	110	14	14	285	100	24	50	26,9	8
40/250	II	40	65	100	500	180	225	65	125	95	320	250	110	14	14	370	100	32	80	35,3	10
50/200	I	50	80	100	385	160	200	50	100	70	265	212	110	14	14	285	100	24	50	26,9	8

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