

**ULTRA**

**齿轮式  
螺杆式**

**润滑泵  
输送泵  
计量泵  
冷却泵  
流量计  
安全阀**



**意大利**

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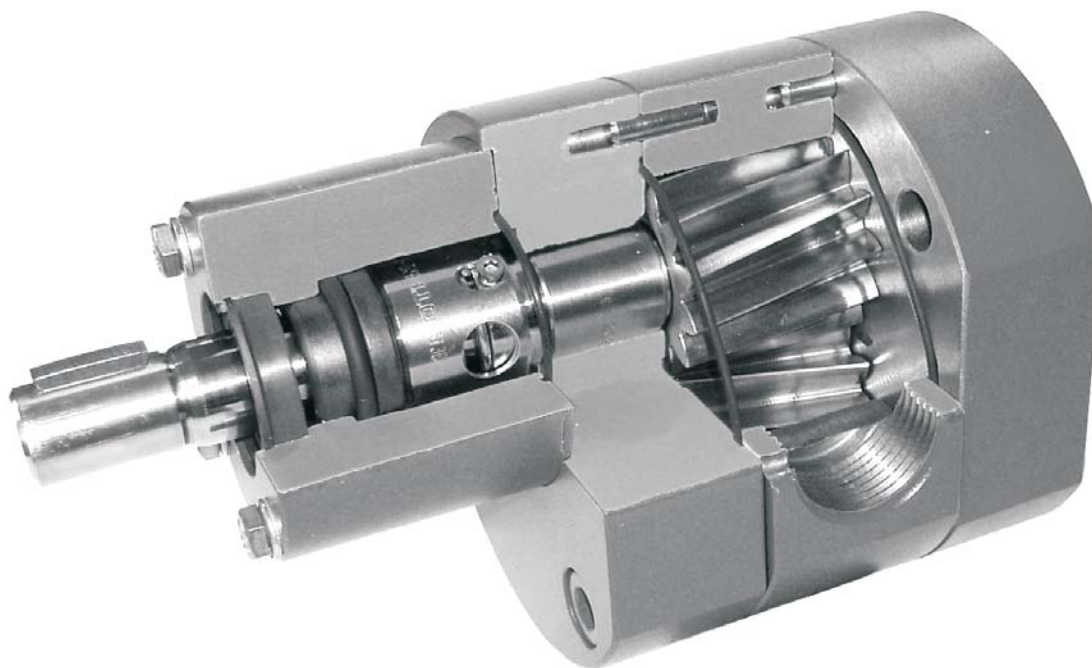
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ULTRA 泵进口适应流体压力最高达到 200bar

ULTRA 泵适应更高温度流体和更高粘度流体

需要请咨询上海华歌实业有限公司





## 公司历史

ULTRA公司成立于1957年，是意大利比较早成立的完全自主设计，生产，测试的齿轮泵公司之一。ULTRA的成功基于按用户的要求生产和高质量的产品以及有竞争力的价格。

Gear Pumps

ULTRA

ULTRA POMPE S.r.l.

Pumps Manufacturer  
Since 1957

## 声誉

基于以下原因，ULTRA泵在市场上非常好的声誉：

技术的进步：ULTRA不断更新技术和生产新产品，保证了为市场提供最好的齿轮泵，满足各种加工工艺，流体，半流体和乳化液类。

更新产品生产线：为足够快速提供给用户创造性的设计，并在短时间内满足生产，ULTRA公司多年来不断更新产品生产线。今天，我们的每一台机器都是自动化操作外加手动操作。这样可以避免任何产品因为机器的故障耽误生产，以满足许诺用户的货期。

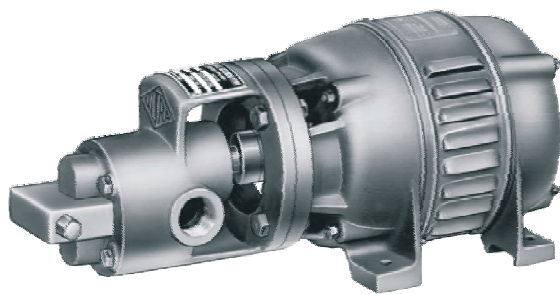
悠久的机械加工传统：ULTRA一直以来集中全部精力关注于生产齿轮泵。我们把我们所有的努力，智慧和财力用来发展和提高齿轮泵。

意大利生产：ULTRA公司会一直继续在自己的公司里完成所有的机械工艺流程，齿轮加工等，以实现无与伦比的齿轮泵成品的质量标准。

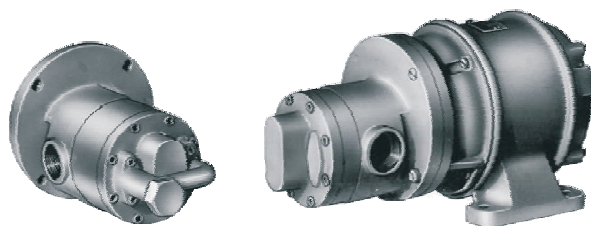
半个世纪的技术优势：ULTRA的专有技术和经验会不断的传承到下一代，因此，50多年来，我们积累了大量宝贵的直接经验，从而保证ULTRA齿轮泵的声誉。

库存部件：ULTRA储备大量标准部件和未装配部件。这样我们就能以更快的速度提供客户高质量的产品和客户应急的维修部件。

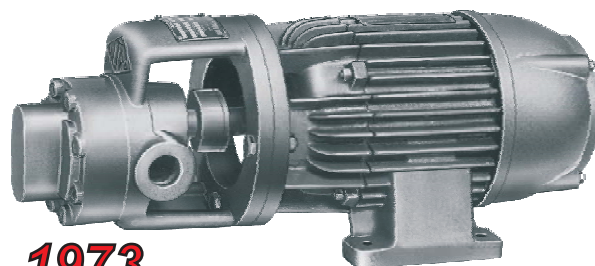
标准零件：ULTRA生产符合UNI/ISO/ANSI/DIN/MEC等尺寸标准的泵，这样就能大大增加与其它品牌泵的互换机会，或者仅仅做些小的修改就能实现互换。



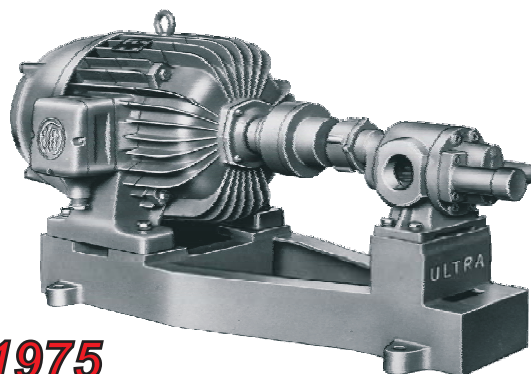
1962



1967



1973



1975

# ULTRA 意大利 润滑泵 输送泵 计量泵

意大利 ULTRA,1962 年开始生产齿轮泵，主要用于润滑，计量和挤出，适应介质广泛，包括：油品类，溶剂，汽油，油漆，燃料，纤维胶，硅酸盐类，动物油脂，葡萄糖，流体皂类，糖果汁，蜜糖，淀粉，墨水，氯化钙类，酒精，食用油，果酱，冷却液，鱼油，油脂，巧克力，粘合剂，乙二醇，沥青，蜡状物等等）

## 性能表(G 系列，N 系列，S 系列，D 系列)

m³/h		转速 rpm												
		250	350	450	550	650	750	850	1000	1200	1450	1800		
Gear pumps capacity 齿轮泵性能表	1.5cc/rev	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.11	0.13	0.16	G series G系列	S series S系列
	3cc/rev	0.05	0.06	0.08	0.10	0.12	0.14	0.15	0.18	0.22	0.26	0.32		
	4.5cc/rev	0.07	0.09	0.12	0.15	0.18	0.20	0.23	0.27	0.32	0.39	0.49		
	7cc/rev	0.11	0.15	0.19	0.23	0.27	0.32	0.36	0.42	0.50	0.61	0.76		
	10cc/rev	0.15	0.21	0.27	0.33	0.39	0.45	0.51	0.60	0.72	0.87	1.08		
	14cc/rev	0.21	0.29	0.38	0.46	0.55	0.63	0.71	0.84	1.01	1.22	1.51		
	21cc/rev	0.32	0.44	0.57	0.69	0.82	0.95	1.07	1.26	1.51	1.83	2.27		
	28cc/rev	0.4	0.6	0.8	0.9	1.1	1.3	1.4	1.7	2.0	2.2	3.0		
	35cc/rev	0.5	0.7	0.9	1.2	1.4	1.6	1.8	2.1	2.5	3.0	3.8		
	42cc/rev	0.6	0.9	1.1	1.4	1.6	1.9	2.1	2.5	3.0	3.7	4.5		
	52cc/rev	0.8	1.1	1.4	1.7	2.0	2.3	2.7	3.1	3.7	4.5	5.6		
	72cc/rev	1.1	1.5	1.9	2.4	2.8	3.2	3.7	4.3	5.2	6.3	7.8		
	93cc/rev	1.4	2.0	2.5	3.1	3.6	4.2	4.7	5.6	6.7	8.1	10.0		
	114cc/rev	1.7	2.4	3.1	3.8	4.4	5.1	5.8	6.8	8.2	9.9	12.3		
	144cc/rev	2.2	3.0	3.9	4.8	5.6	6.5	7.3	8.6	10.4	12.5			
	200cc/rev	3.0	4.2	5.4	6.6	7.8	9.0	10.2	12.0	14.4	17.4			
	300cc/rev	4.5	6.3	8.1	9.9	11.7	13.5	15.3	18.0	21.6	26.1			
	460cc/rev	6.9	9.7	12.4	15.2	17.9	20.7	23.5	27.6	33.1			Nseries N系列	
	636cc/rev	9.5	13.4	17.2	21.0	24.8	28.6	32.4	38.2	45.8				
	863cc/rev	13.0	18.1	23.3	28.5	33.7	38.9	44.0	51.8	62.2				
	1330cc/rev	20.0	27.9	35.9	43.9	51.9	59.9	67.9	79.8	95.8				
D 系列计量泵性能表														
	1.2cc.rev	0.018	0.025	0.032	0.040	0.047	0.054	0.061	0.072	0.086	0.104	0.130		
	3cc/rev	0.045	0.063	0.081	0.099	0.117	0.135	0.153	0.180	0.216	0.261	0.324		
	6cc/rev	0.09	0.13	0.16	0.20	0.23	0.27	0.31	0.36	0.43	0.52	0.65		
	18cc/rev	0.27	0.38	0.49	0.59	0.70	0.81	0.92	1.08	1.30	1.57	1.94		

以上性能表是在 220cst，进口压力为大气压，出口压力为 1bar 条件下测得。我们可以提供的不同粘度下（1cst, 350cst，4000cst，25000cst）泵 流量@压力；压力@功率 性能曲线

**适应介质粘度：**1-1000000cst

**压力：**出口增压压力 G(0-30bar)； N(0-15bar)； S(0-30bar)； D(0-70bar)，进口流体压力最高达到 200bar(请咨询)

**介质温度：**-10℃ -+240℃

**旋转方向：**单向旋转，双向旋转

ULTRA 公司可以根据用户要求特殊定制齿轮泵 请咨询 ULTRA 公司或中国区代理商：上海华歌实业有限公司



**应用:** G/N 系列应用于润滑, 计量, 增压, 真空萃取和介质输送等场合  
S 系列应用于化工, 食品, 医药等工业, 具有腐蚀性环境或腐蚀性流体, 也适用于 CIP 在线清洗系统  
D 系列是精密计量泵, 小而紧凑, 广泛应用于各种化工行业, 塑料行业, 电子行业以及其他需要计量流体的场合和设备中。

**备注:** 老型号: F, P, C, L 等系列是 ULTRA 老型号泵, 已经停止生产, 需要时请咨询 ULTRA 公司或当地代理商

**订货示例:**

1	2	3	4	5	6	7	8	9	10
G	L	-	2	1	V	-	B	OH	-
Series 系列		安装形式 Configuration		Size 泵规格		密封代码 Seal Type		其他选项 Included Options	

**VISCOSITY:** 黏度

泵型号的选择主要由泵产品自身所能接受的介质黏度范围所限制, 根据这个规律: 黏度越大, 泵的转速越低, 所有的泵选择都能很容易的进行操作。当然这个条件只是在泵的选择过程中需要考虑的条件之一, 不过这个参考条件可以缩小我们所需泵的范围, 因为它使泵的转速得到了限制。温度对黏度的影响是成反比的, 所以说同样的液体在不同的温度环境下表现出的黏度是不一样的。温度越高粘度越低。

**PRESSURE:** 压力

齿轮泵的流量取决于工作压力。泵的选择可以根据这个规律: 工作压力越高, 泄漏量越大。泵的泄露可以根据目录中泄露曲线来决定。黏度对泄漏量的百分比也是有影响的。在密封的选择上也必须考虑到压力的影响。每一种密封都有它自己的压力范围的限制, 超出压力范围后是不能正常工作的。例如, 唇密封的最高工作压力是 10bar, 而其他的机械密封工作压力可以达到 30bar。如有任何疑问, 请联系ULTRA公司

**CONFIGURATIONS:** 配置

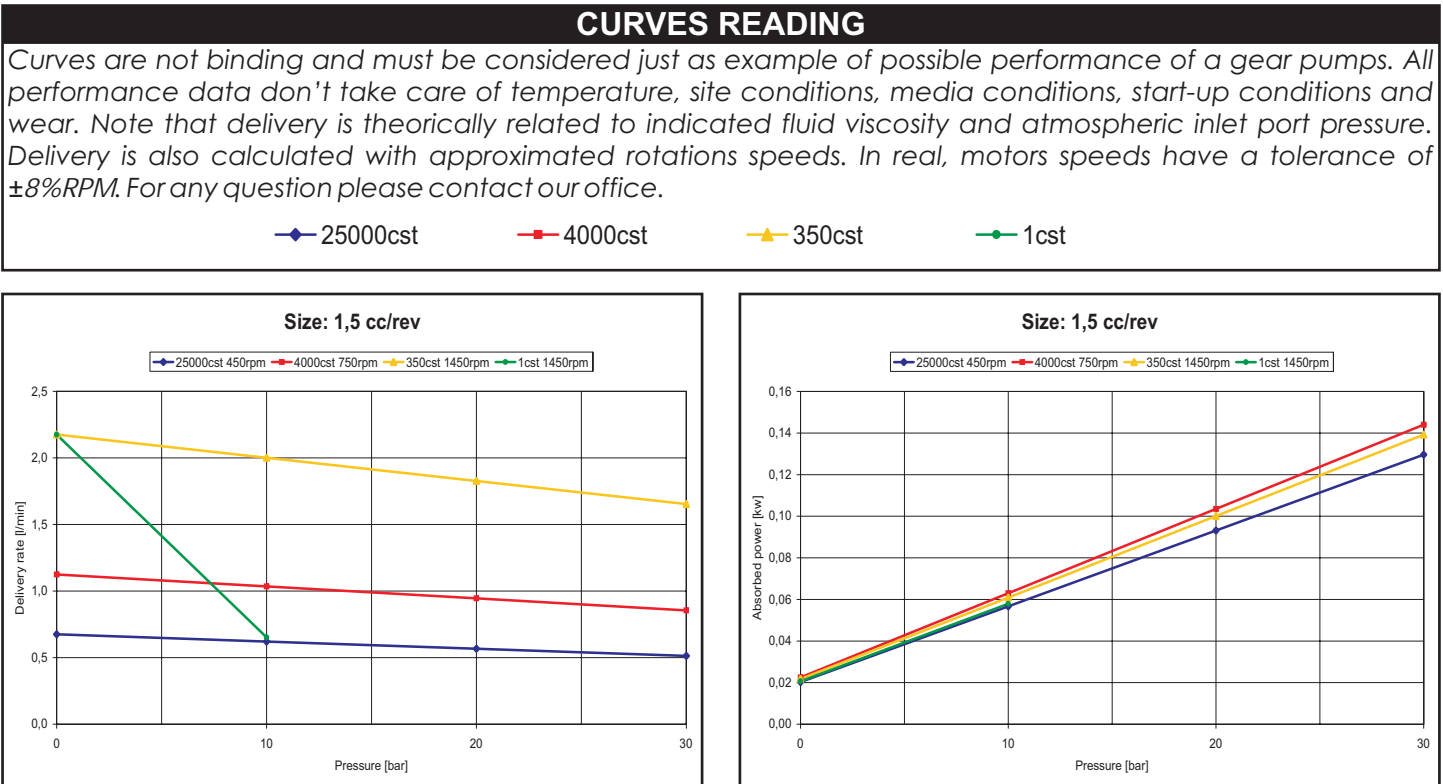
配置取决于成本和工厂建设, 此项由用户自行选择无限制条件。用户可以选择底脚安装和钟罩安装

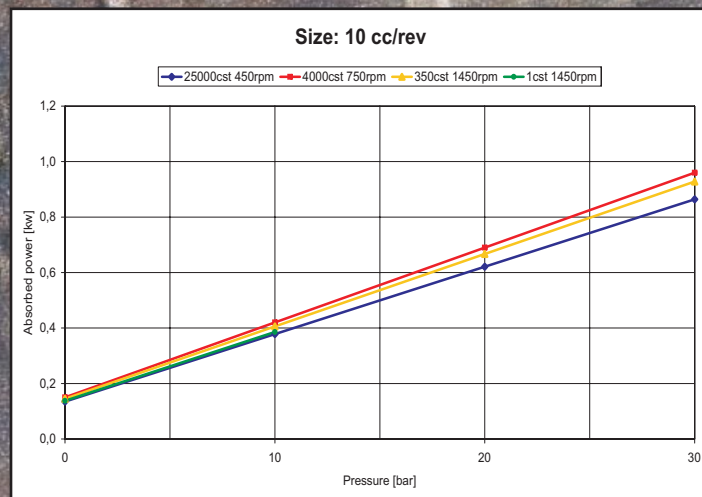
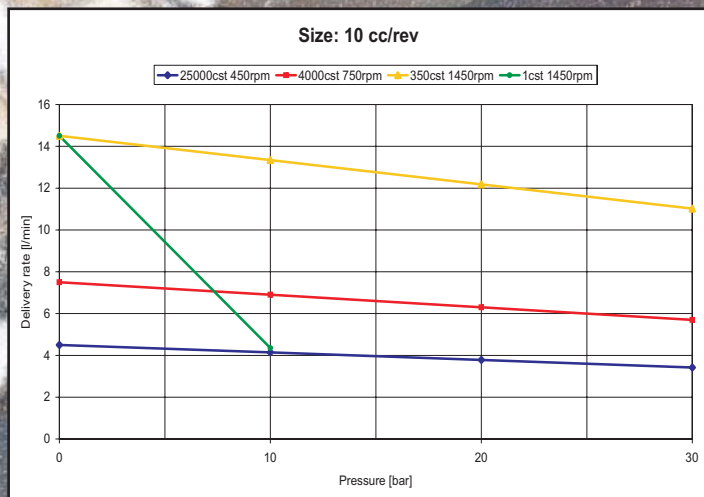
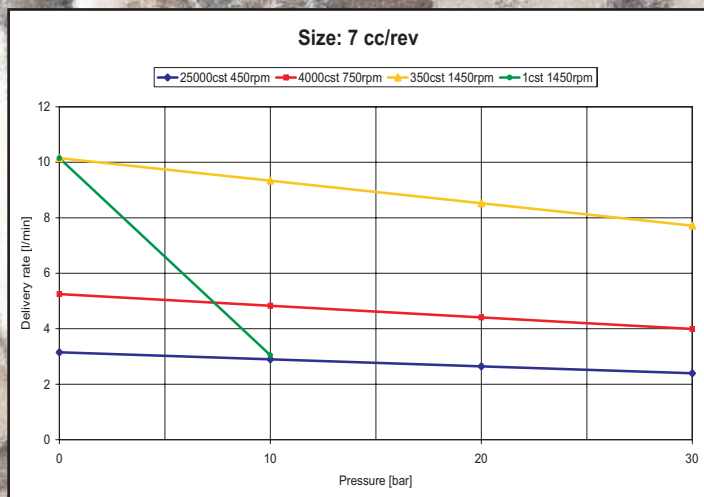
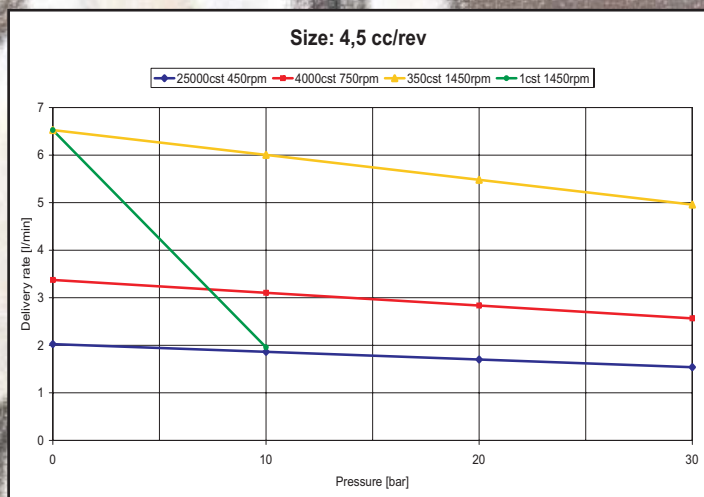
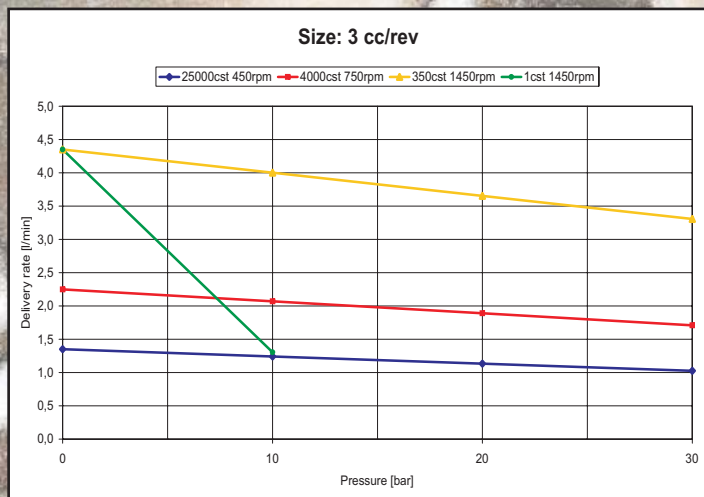
**DRIVE UNIT:** 驱动装置

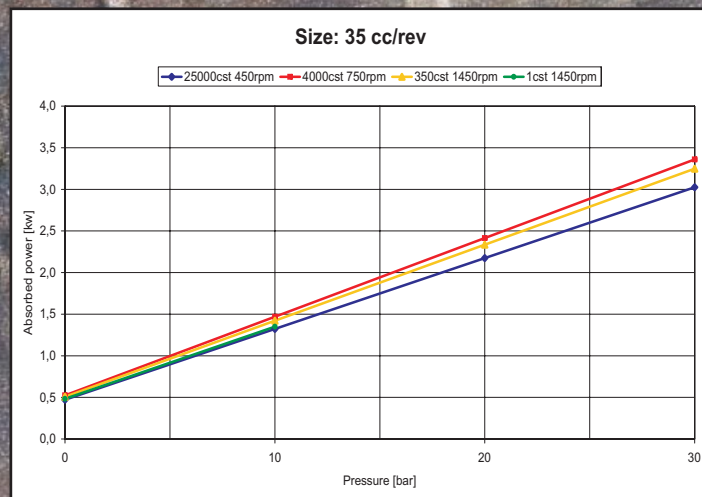
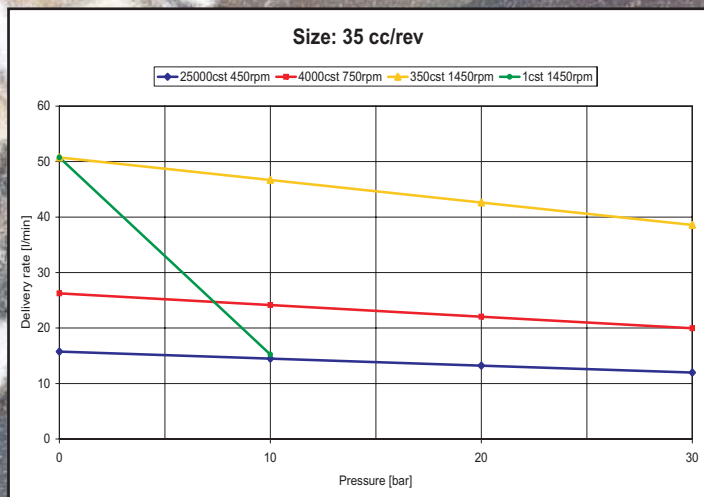
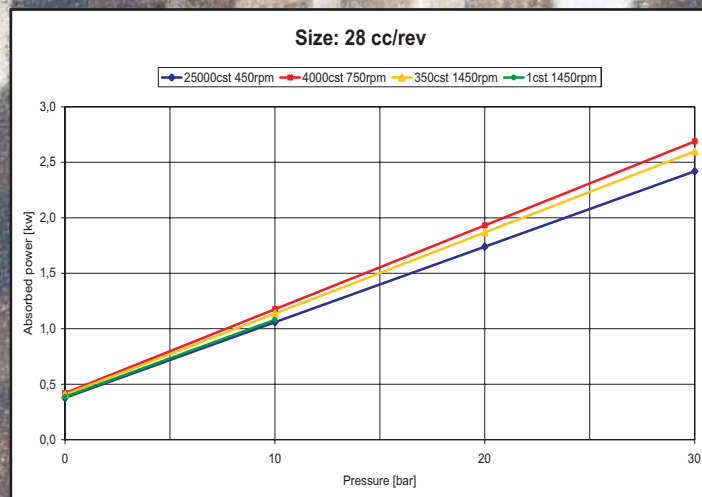
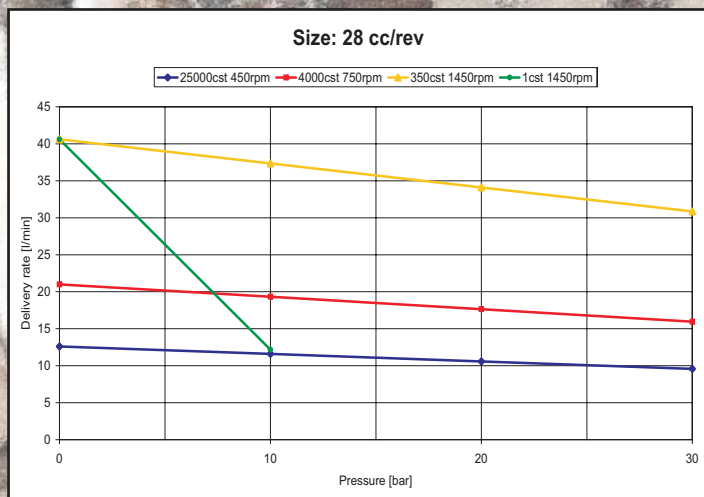
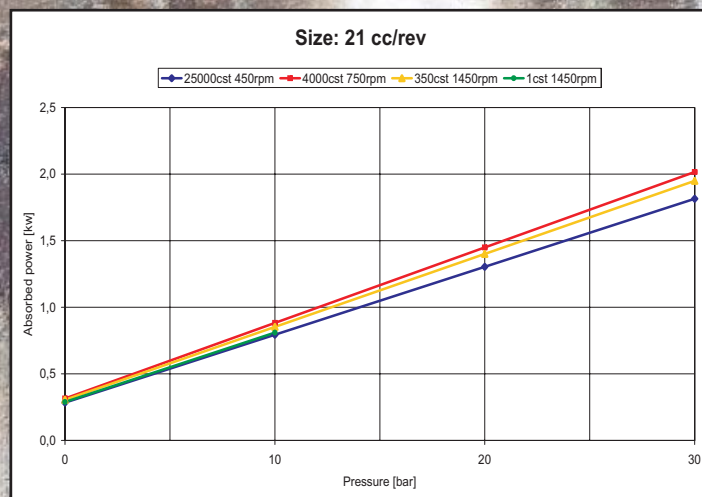
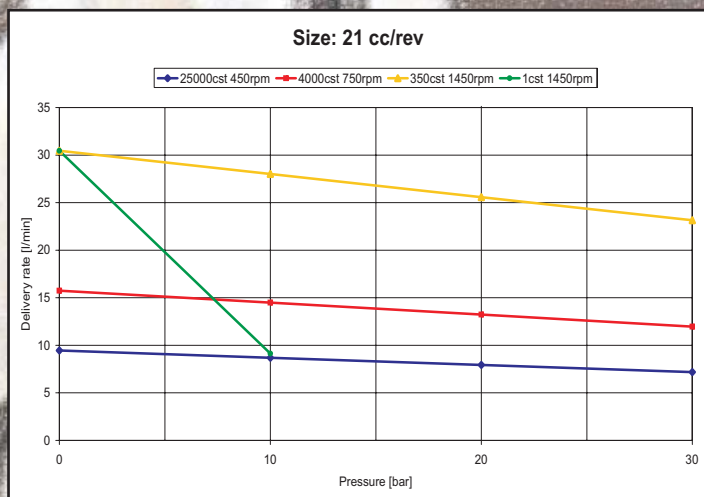
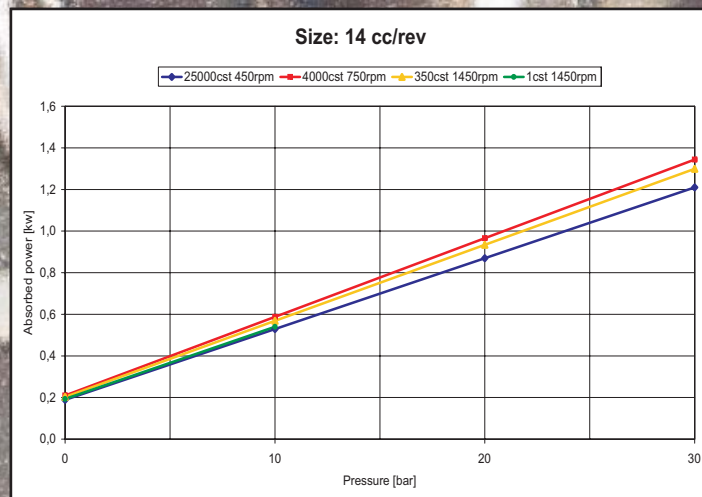
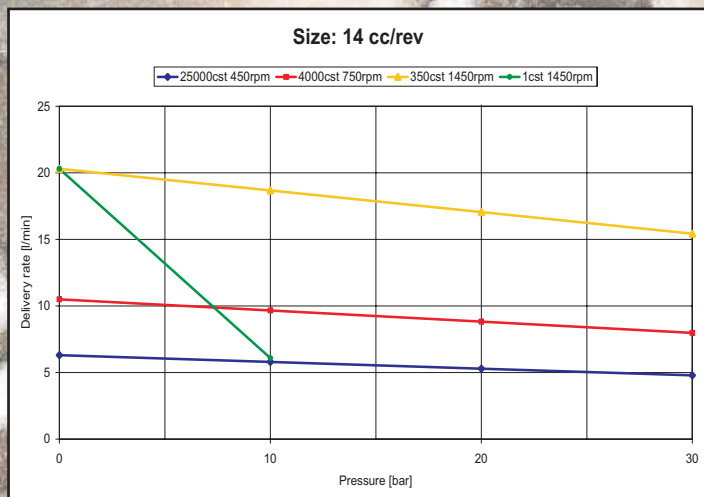
泵压力在计算电机的型号时是很重要的。因此我们只考虑了电机的转速, 但是在决定电机型号的时候电机的输出功率也是很重要的, 有个规律是: 压力越高电机的输出功率越高。输出功率的计算单位是瓦。黏度等级对驱动装置驱动泵齿轮转动所需功率也有影响, 黏度越高输出功率越高。

**MATERIALS:** 材料

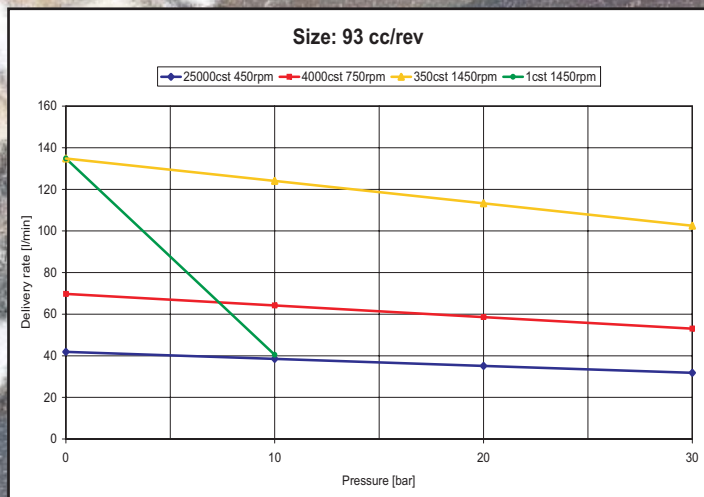
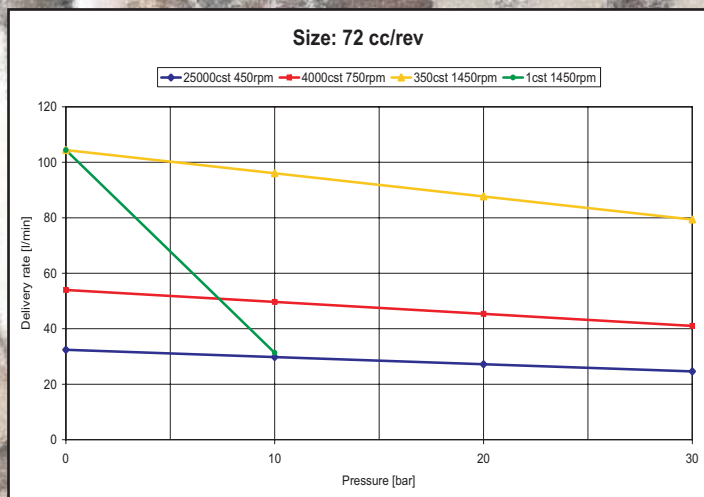
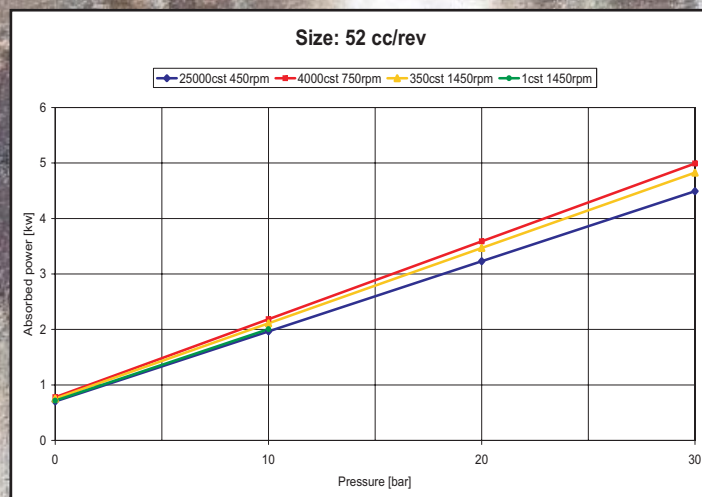
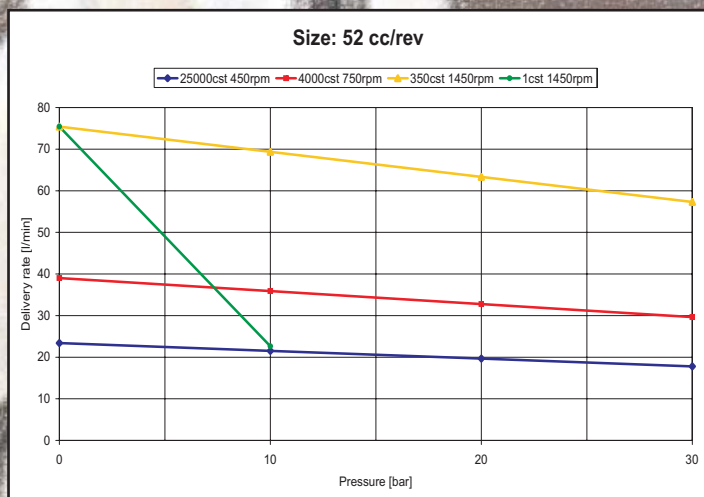
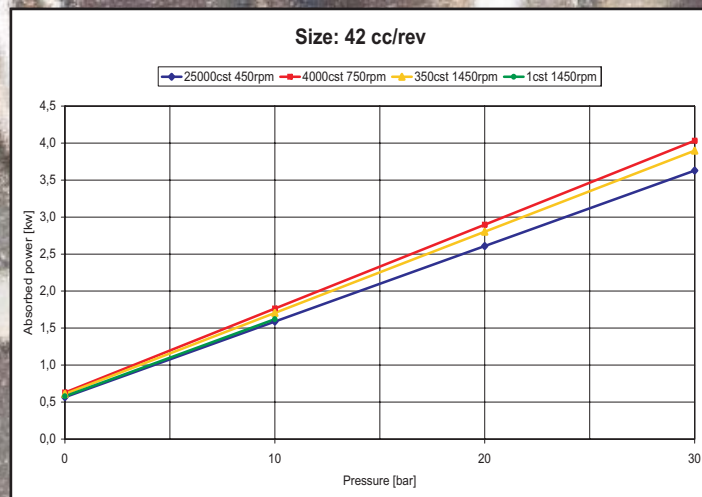
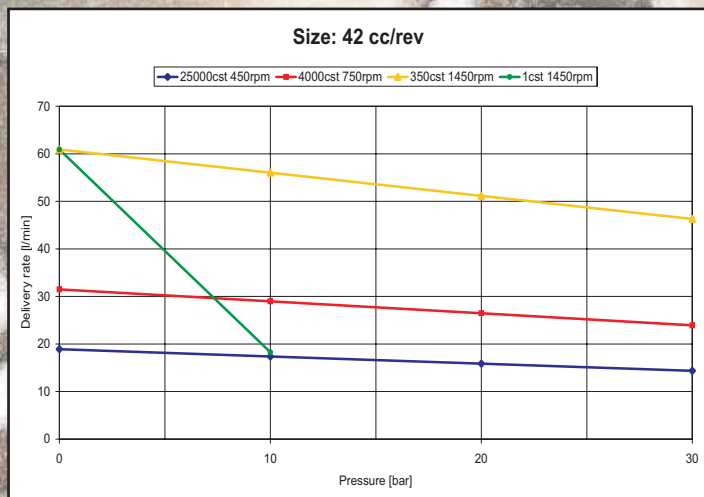
一旦泵的系列和工作条件是确定的, 我们会针对符合客户的要求的产品进行供货。这种泵的不同特别体现在它所用的材料上, 因此选择这种泵一定要核查它所用的介质是否和泵材料具有兼容性。

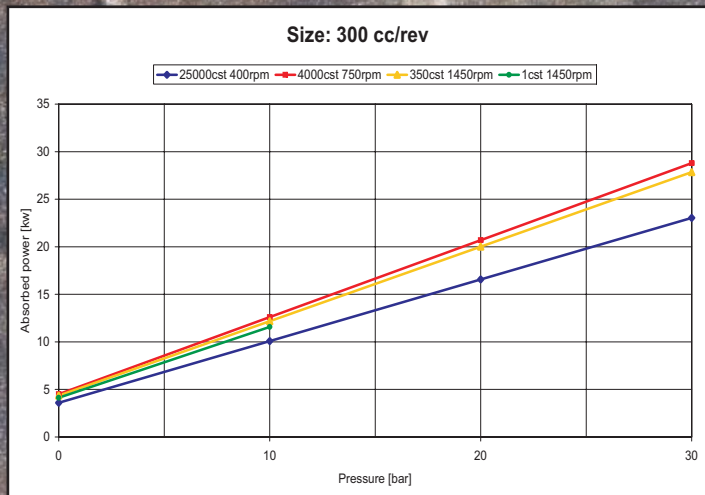
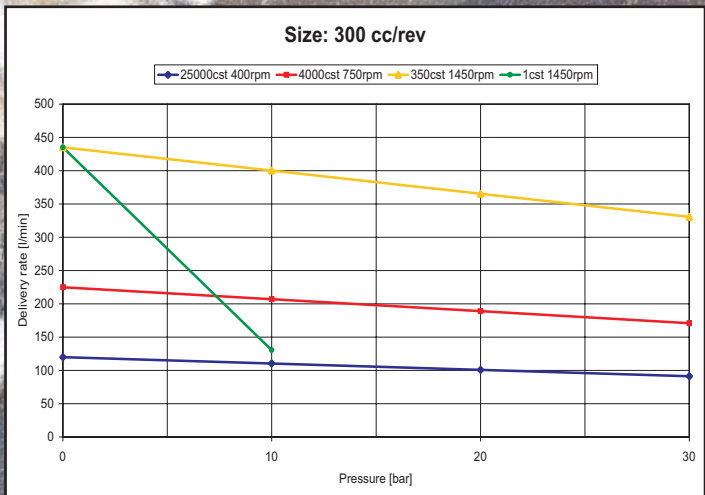
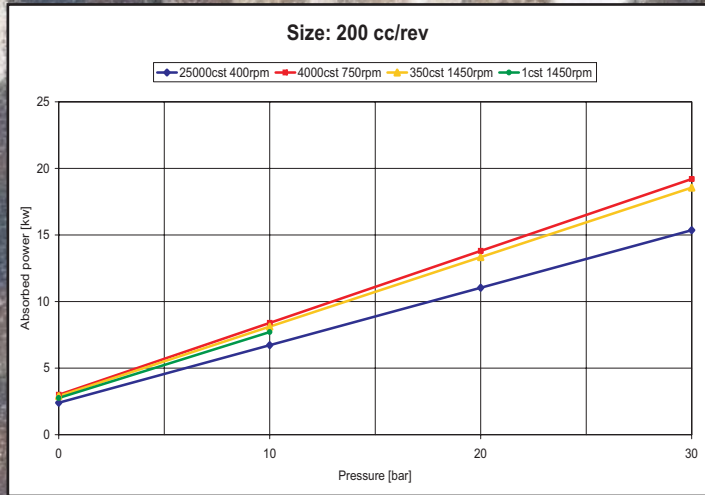
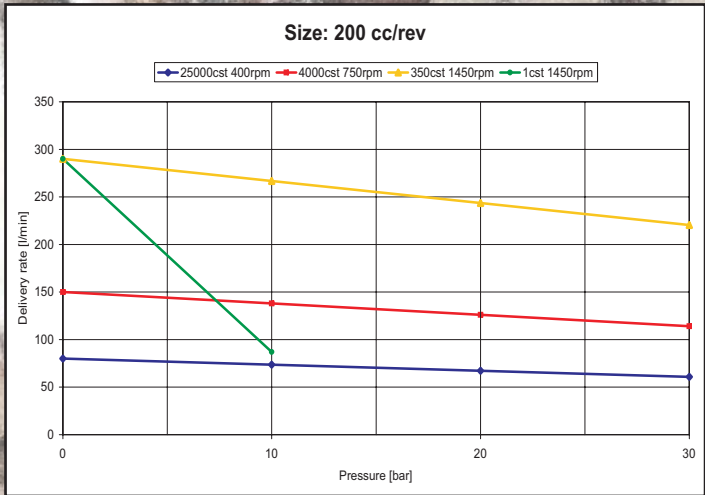
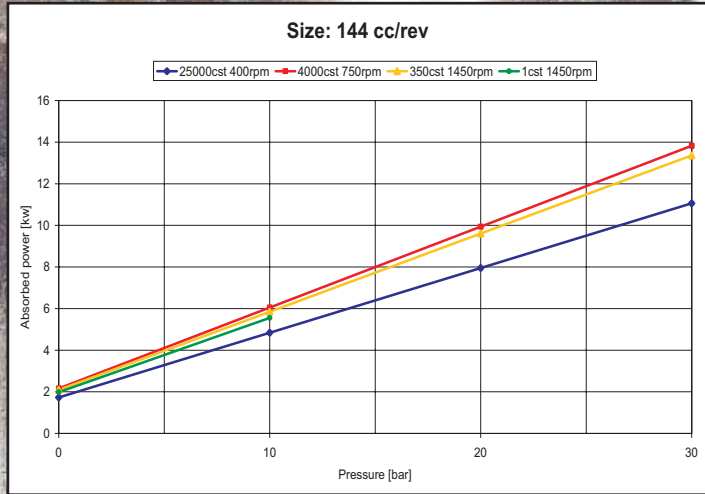
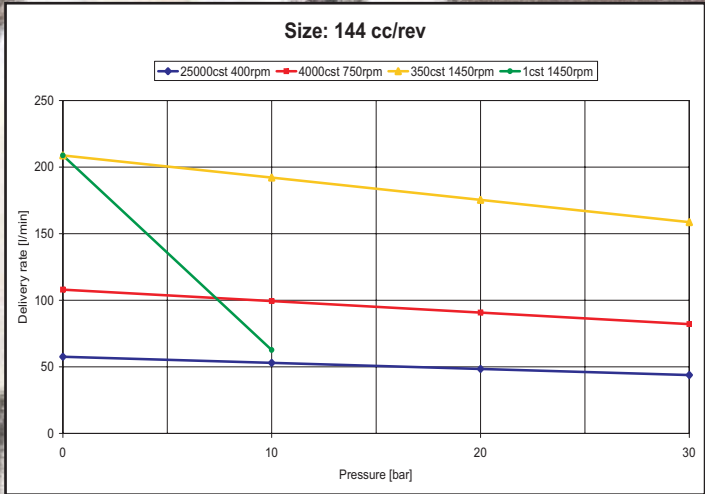
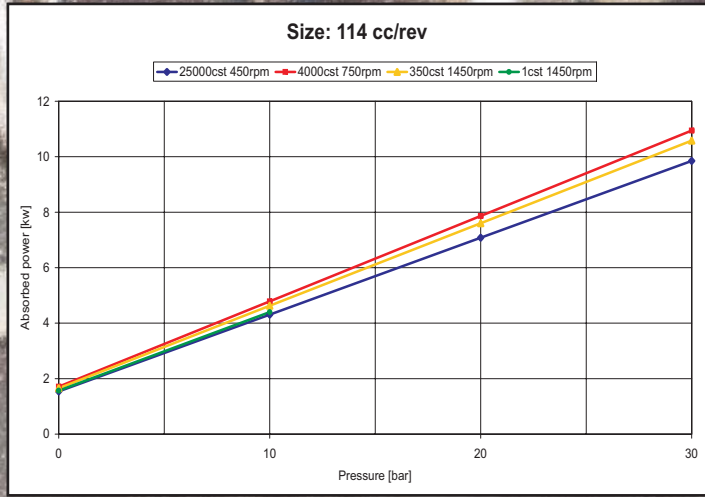
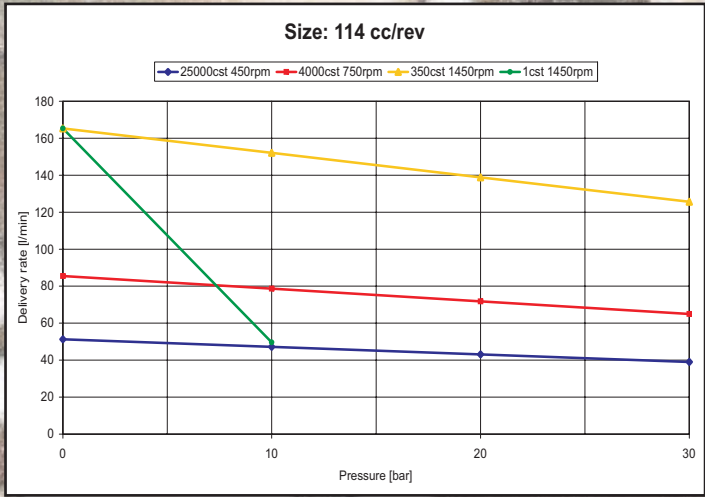




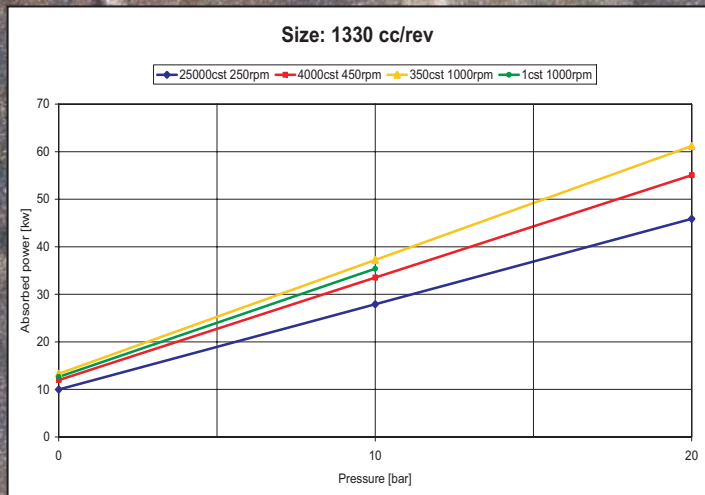
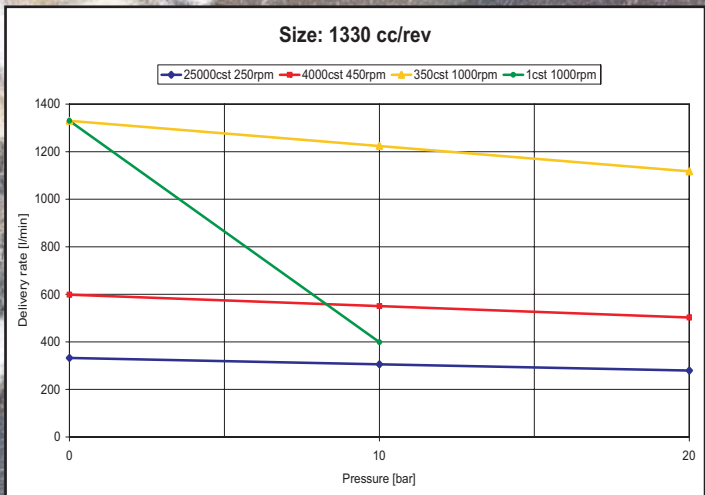
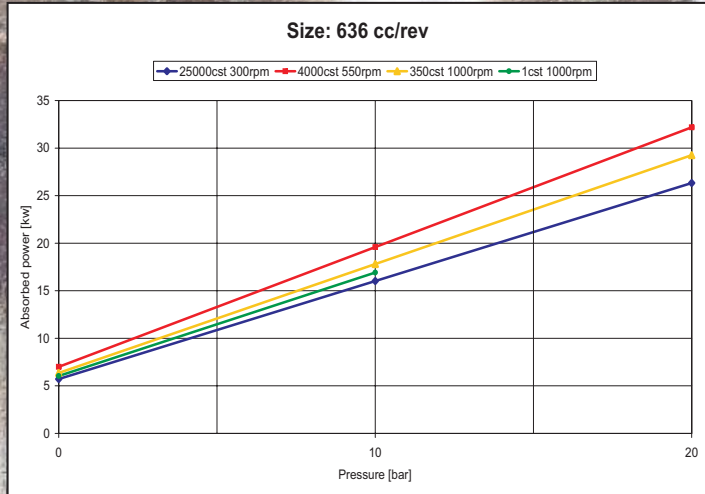
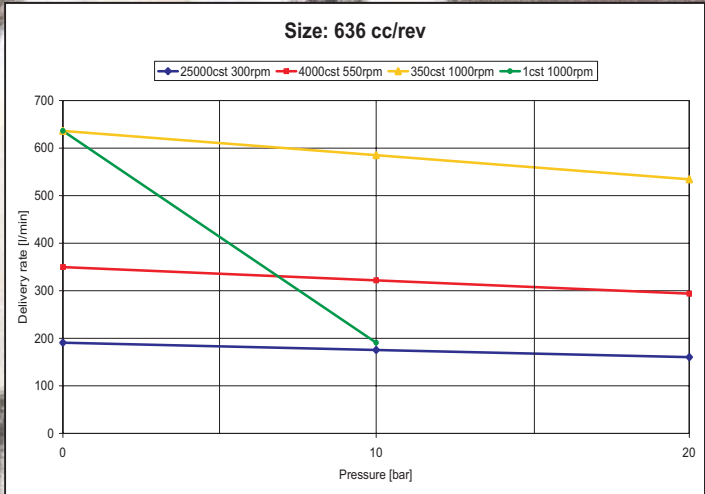
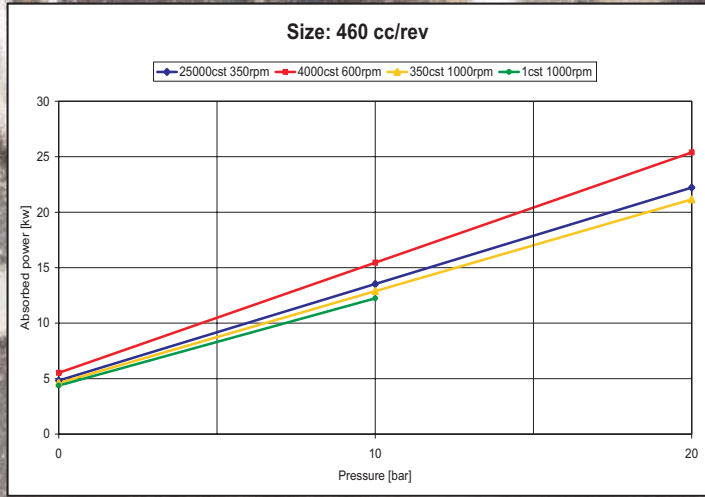
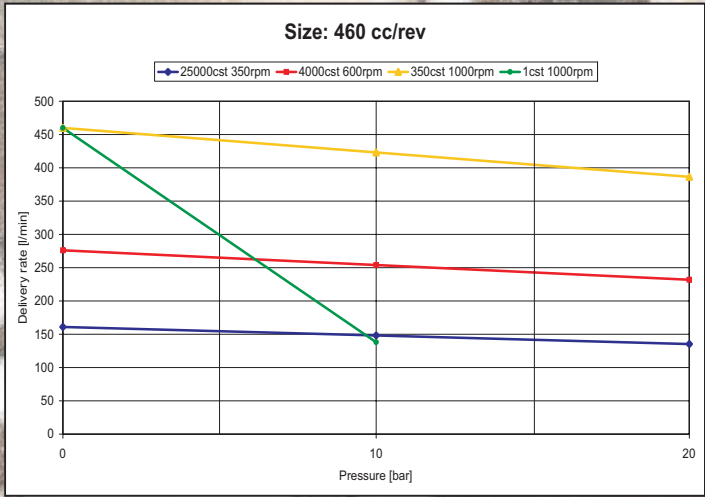








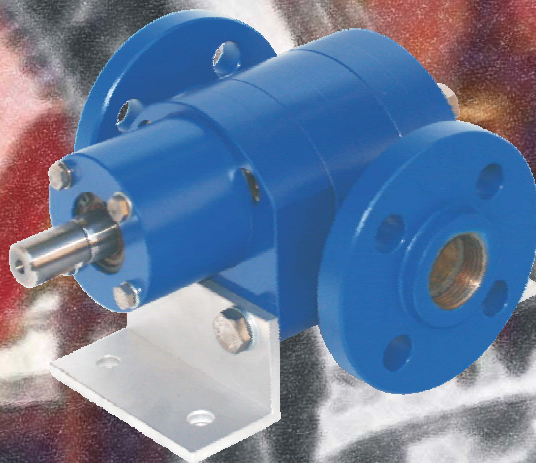






# G

G系列



Metering & Thrust Gear Pumps

Cast Iron (G25)

齿轮泵 (计量与加压)  
铸铁型



ULTRA POMPE Srl

2007



## GENERAL FEATURES

**+Application:** The G-series is designed for metering, booster, vacuum extraction, lubrication and transfer of a great variety of fluids in any industrial application. More than forty years of experience and development are invested in this series.

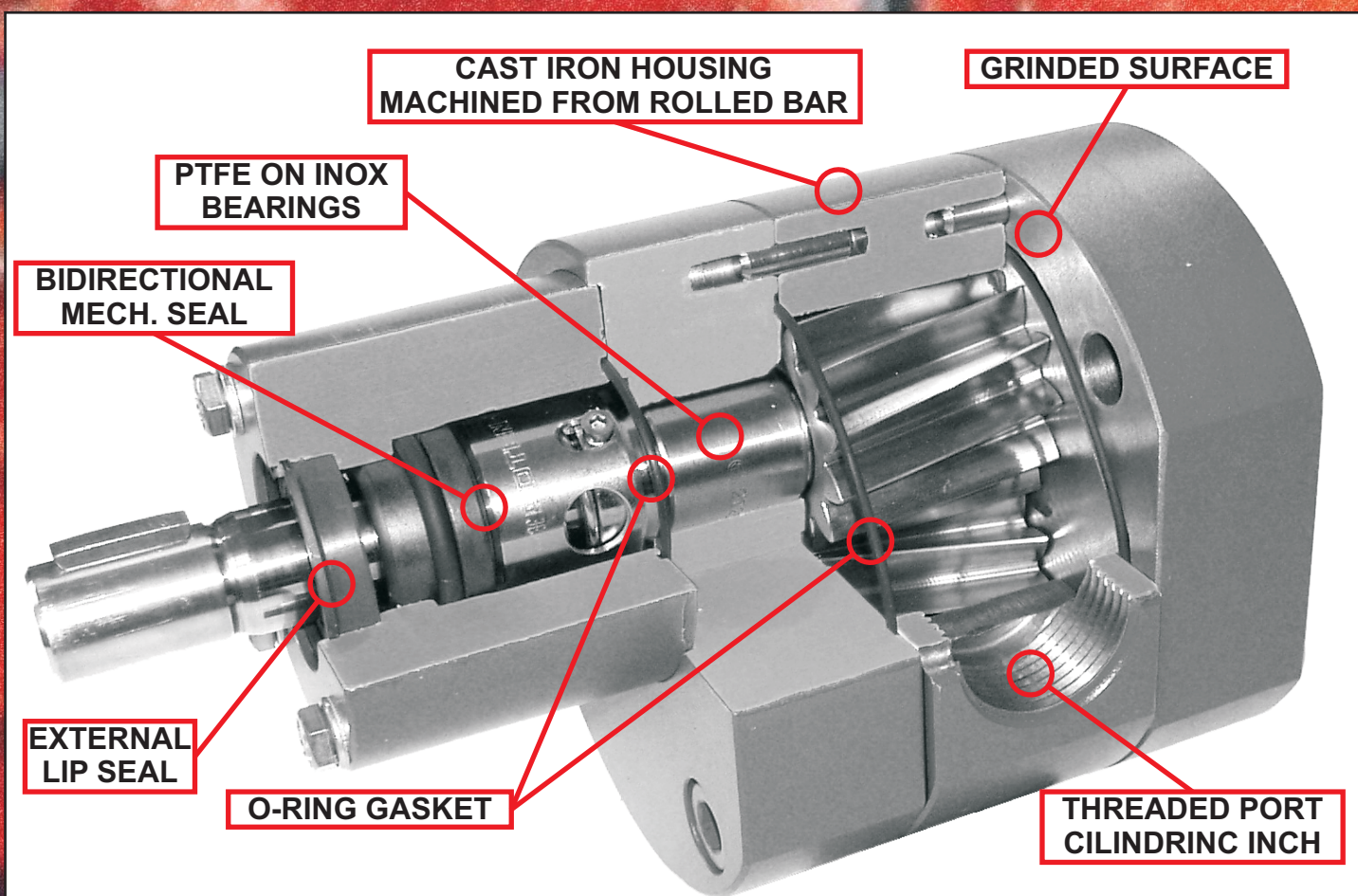
**+Bidirectional:** The G-Series offers the best combination of quality versus price. This series of pumps can provide flow in either direction. However keep in mind that an internal or external relief valve can only be designed for a single flow direction.

**+Ports:** The S-series inlet and outlet ports are threaded, are of the same diameter and are in-line (share the same axis). The flanges can be welded or screwed.

**+Hardened Materials:** The G-series housings, cover plates and gear shafts are machined from rolled bar forgings as apposed to casting, which ensures maximum hardness.

**+ Complete Unit:** The G-series can be supplied in different coupling configurations. Complete units consisting of a base-plate (not necessary for flange mounted motors), flexible coupling with guard and electric motor are available. 8-pole, 6-pole and 4-pole electric motors are available. Explosion proof motors, gear reducers, and variable speed drives are also available on request.

**+Seals and Options:** The G-series uses a simple and versatile mechanical seal design or magnetic coupling system. Heating options include electric or fluid (oil or steam) heating.



### Main Material

Cast Iron

**G25**

+Viscosity

+Pressure

+Size

+Temperature

From 1CST to 1'000'000CST

From 0BAR to 30BAR

From 1.5cc to 300cc

From -10°C to +240°C



## TECHNICAL FEATURES

### Housing (1,2,3,4)

Cast iron G25

The housing is machined from rolled bar that is cut, turned, machined and ground into its' final shape, thus ensuring maximum hardness as apposed to using cast parts.

### Rotors (5,6,7)

Steel 39NiCrMo3

Rotors are machined from rolled bar that is cut, turned and ground into its' final shape as opposed to using cast parts, thus ensuring maximum hardness.

### Bearings (8)

PTFE on Stainless Steel

The bearings are aided by a metal backing to increase resistance especially for corrosive environments. A lining of PTFE is coated in the ID of the bearings forming and a solid lubricant film.

### Sealing Elements (10,11,12,13)

FPM, PTFE or MVQ

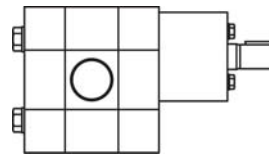
O-Rings are used on all mating surfaces to reduce leakage even when pumping fluid of low viscosity.

The shaft is sealed with both an external lip seal and a bidirectional mechanical seal according to API610 and PLAN13. Dimensions are in accordance with DIN24960 and DIN3760.

Other optional materials and sealing systems are available on request.

## G-

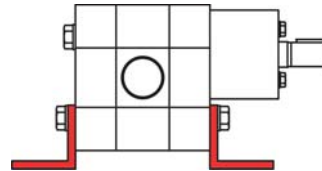
Naked



This configuration is provided with threaded holes on the front cover allowing direct coupling to a non-standard drive unit.

## GP

Foot



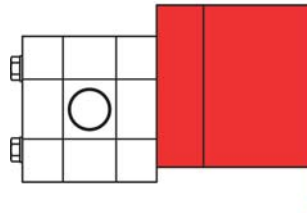
The pump is provided with feet for mounting on a baseplate. Projected to be coupled to drive units form B3.

+Foot

Alluminum

## GL

Lantern



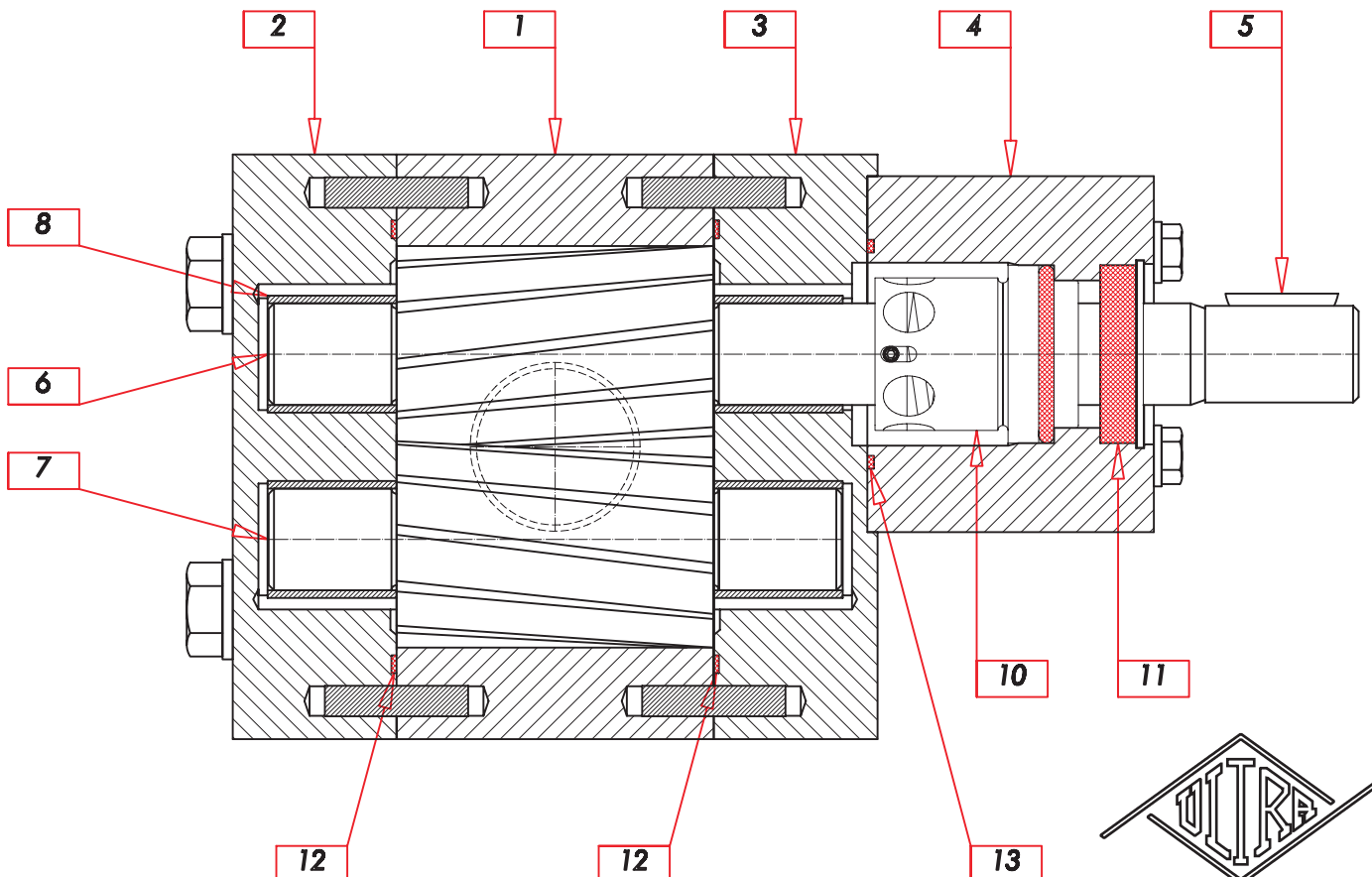
The pump is provided with an extension flange that couples with any B3/B5 or B3/B14 UNEL MEC flange. Available in different lengths.

+Mask

Cast Iron

+Lantern

Alluminum





# SHAFT SEAL

## MECHANICAL SEAL (Standard)

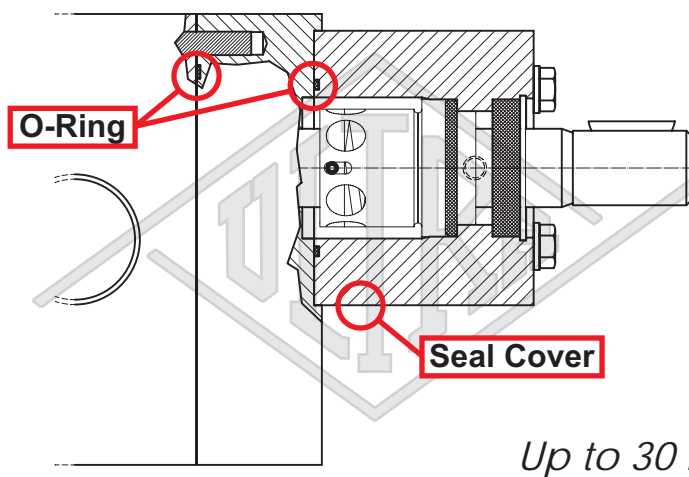
- V** Sealing elements made of **FPM**  
**T** Sealing elements made of **PTFE**  
**S** Sealing elements made of **MVQ**

*Features:* According to API610 and PLAN13, external lip seal and bidirectional mechanical seal, unaffected by the direction of shaft rotation. Dimension according to DIN24960 and DIN3760. **STAINLESS STEEL** and **CARBON GRAPHITE** mechanical seals are first choice for all such applications where pumped fluid doesn't have any oxidative property and work temperature is under 150°C.

*Maximum prussure:* 30 BAR

*Temperature:* -10/+240°C

*Work Sense:* Bidirectional



*Up to 30 BAR*

## MECHANICAL SEAL "K" (Optional)

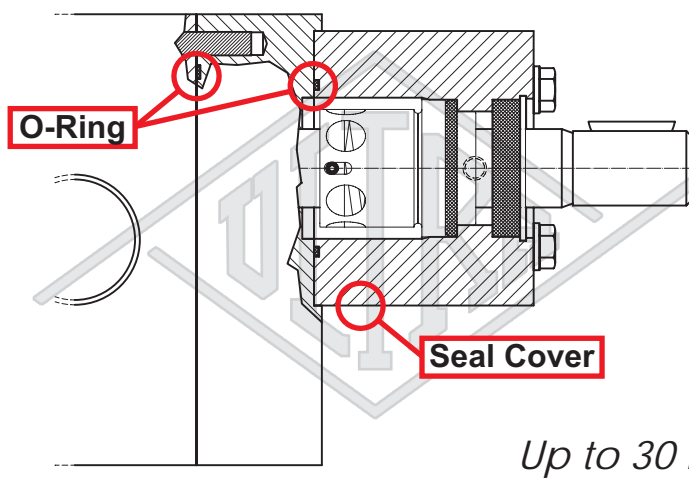
- KV** Sealing elements made of **FPM**  
**KT** Sealing elements made of **PTFE**  
**KS** Sealing elements made of **MVQ**

*Features:* According to API610 and PLAN13, external lip seal and bidirectional mechanical seal, unaffected by the direction of shaft rotation. Dimensions according to DIN24960 and DIN3760. **BRAZED TUNGSTEN CARBIDES** on **STAINLESS STEEL** mechanical seals are used when pumped fluids require the use of anticorrosion materials or work temperature is up to 240°C.

*Maximum prussure:* 30 BAR

*Temperature:* -10/+240°C

*Work Sense:* Bidirectional



*Up to 30 BAR*

## MAGNETIC COUPLING (Optional)

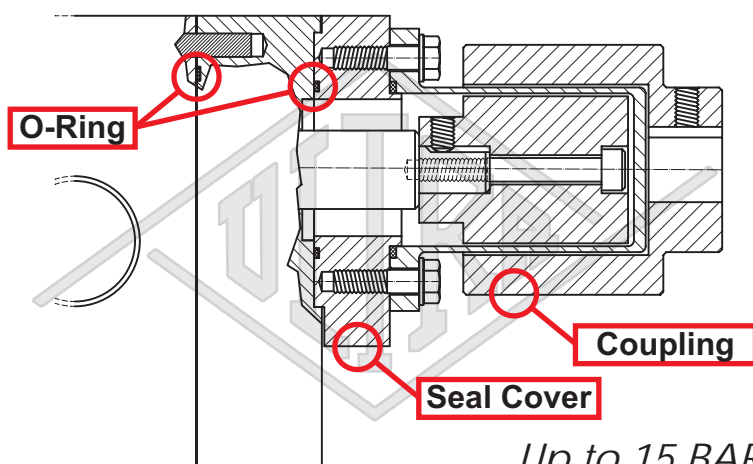
- MV** Sealing elements made of **FPM**  
**MT** Sealing elements made of **PTFE**  
**MS** Sealing elements made of **MVQ**

*Features:* The standard mechanical seal can be replaced by a magnetic coupling system that definitively eliminates seal leakage and wear in particularly harsh conditions. Magnetic coupling are synchronous coupling that transmits torque through magnetic forces between the internal and external rotor, but ensures a hermetic separation of the drive and the driven side via **STAINLESS STEEL** bell.

*Maximum prussure:* 15 BAR

*Temperature:* -30/+240°C

*Work Sense:* Bidirectional



*Up to 15 BAR*



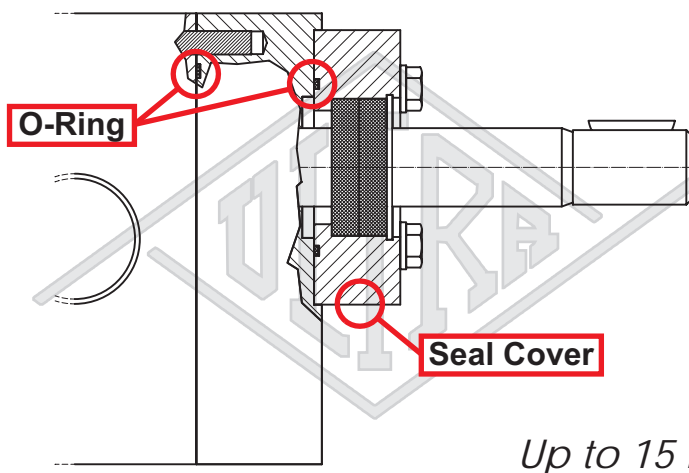
# SHAFT SEAL

## LIP SEAL (Optional)

- AV** Sealing elements made of **FPM**  
**AT** Sealing elements made of **PTFE**  
**AS** Sealing elements made of **MVQ**

*Features: The double lip seal is designed according to DIN3760. The seal is coated with either FPM, PTFE or MVQ and has a supplementary dust lip useful in particularly dusty environments. Also available in different materials.*

*Maximum prussure: 15 BAR  
 Temperature: -10/+240°C  
 Work Sense: Bidirectional*



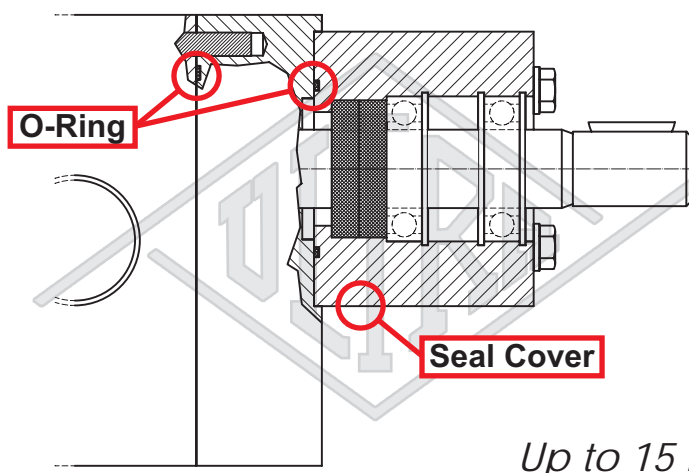
*Up to 15 BAR*

## LIP SEAL for CHAIN/BELT COUPLING (Optional)

- CV** Sealing elements made of **FPM**  
**CT** Sealing elements made of **PTFE**  
**CS** Sealing elements made of **MVQ**

*Features: The use of the double lip seal allows for non axial coupling between the motor and pump if the drive shaft is adequately supported against radial movement. This is an ideal solution when saving space is a priority. Typical applications include belt, gear or chain couplings.*

*Maximum prussure: 15 BAR  
 Temperature: -10/+240°C  
 Work Sense: Bidirectional*



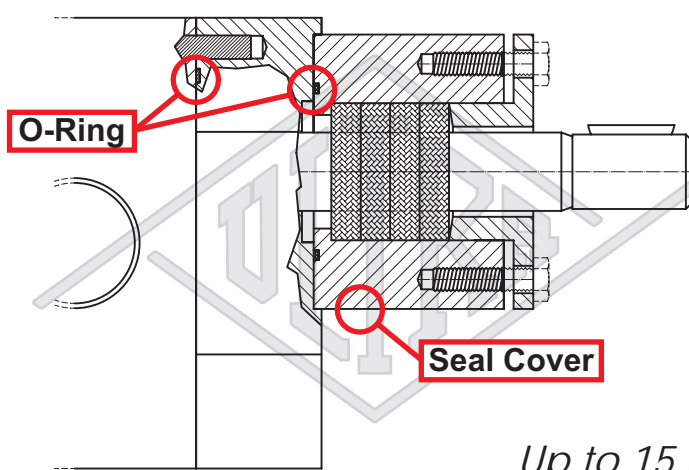
*Up to 15 BAR*

## PACKED GLAND SEAL (Optional)

- DV** Sealing elements made of **FPM**  
**DT** Sealing elements made of **PTFE**  
**DS** Sealing elements made of **MVQ**

*Features: The packed gland is composed of 4 packing gland rings seated on the seal cover. This type of seal requires a high level of maintenance and is therefore discouraged in pump applications. Ultra strongly recommends the use of mechanical seals instead.*

*Maximum prussure: 15 BAR  
 Temperature: -10/+240°C  
 Work Sense: Bidirectional*



*Up to 15 BAR*

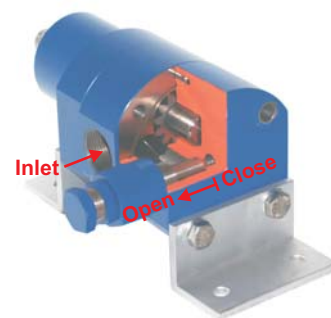
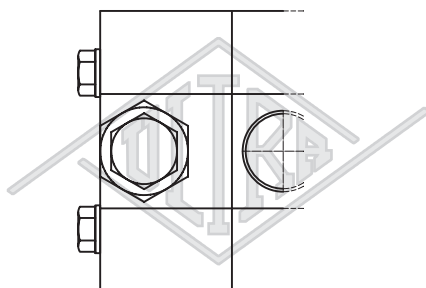


# OPTIONAL

## Bypass valve

The pump is supplied with an internal recirculation relief valve (by-pass) that is designed to protect the pump from damage that can be caused by overpressure.

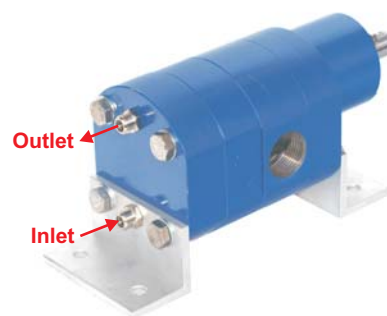
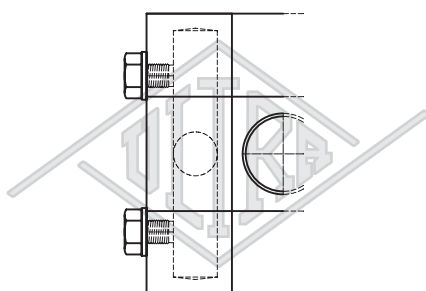
+B



## Oil Heating system

The pump is supplied with an integrated heating system to provide the heating of the entire pump with hot oil or steam. Heating fluid is pumped by an external pump in the internal channels of the gear pump.

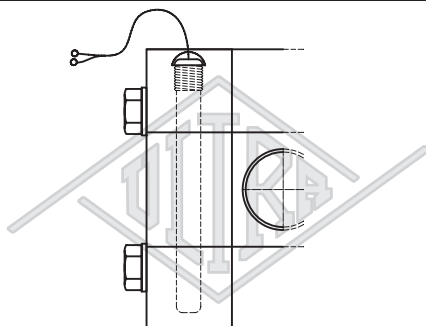
+OH



## Electric Heating system

The pump is supplied with an integrated electric cartridge heating system to provide the heating of the entire pump. PT100 Probes are probes which show a change in resistance with a change of temperature.

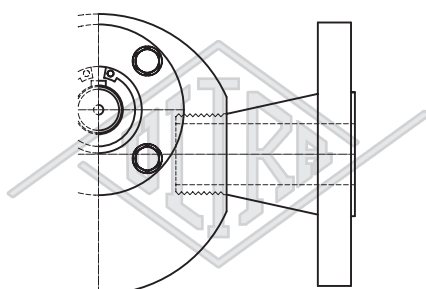
+EH



## Threaded Neck flange (ANSI or UNI)

The pump is supplied with a threaded neck flange screwed into the body of the pump. Also available, is a flexible coupling to mount between the pump flange and pipe line.

+TN



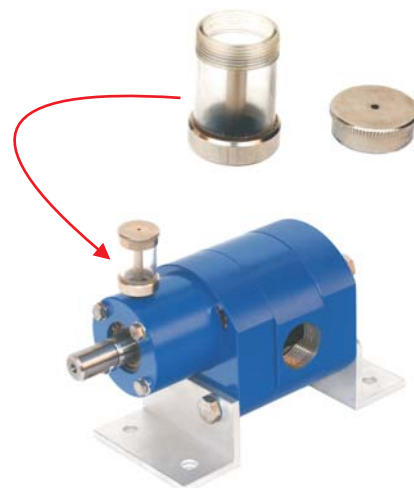
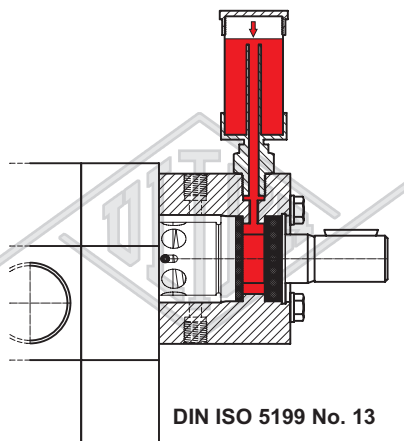


# OPTIONAL

## Quench dead end system

The pump is supplied with a transparent and ventilated reservoir positioned directly above the seal casing. Used when pumped fluid reacts with atmospheric oxygen, the quench medium stops the leakage making contact with the atmosphere. Quench applies a pressure less external fluid to mechanical seal's faces on the atmosphere side.

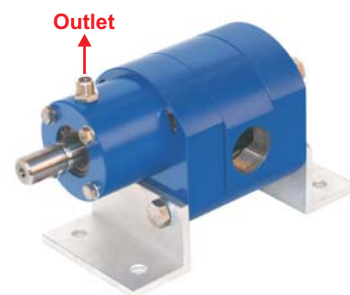
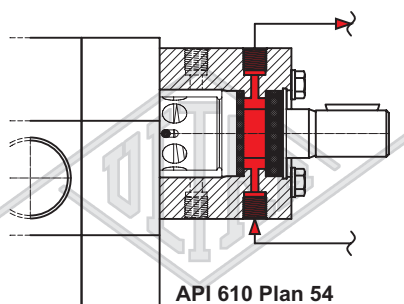
+Q



## Plan 54 circulation system

The pump is supplied with two threaded holes on a seal casing that allows the circulation of a quenching medium from an external system. The system absorbs the mechanical seal leakage by the quenching

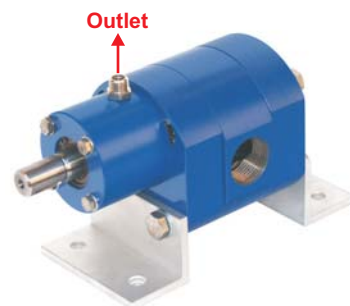
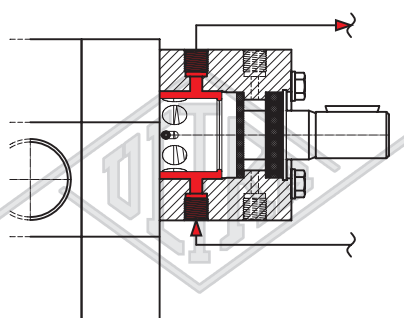
+P



## Flushing system

The pump is supplied with flushing holes. The seal washing can be ensured by a "CIP cycle," that through internal channels and with an appropriate solvent pumped from an external system, removes pumped fluid residue.

+F

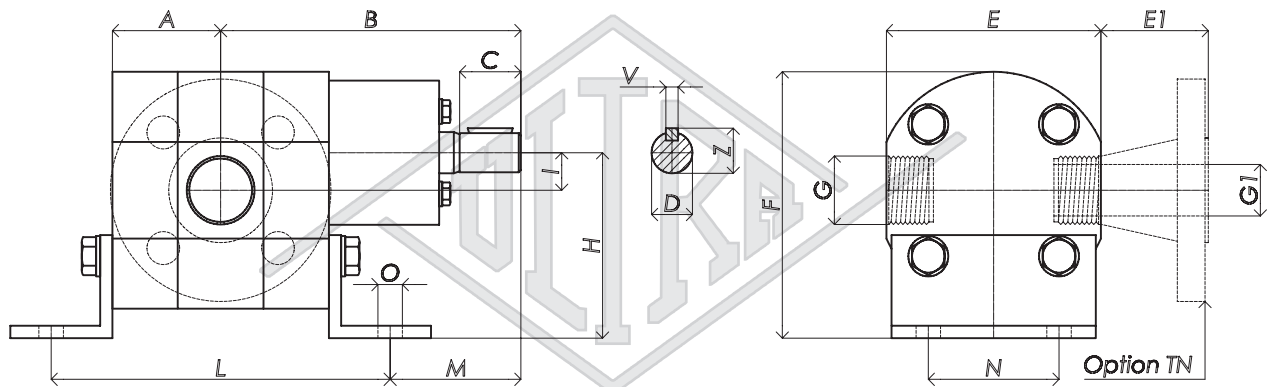


Many combinations of options are available limited by the pump material and pump series. Note that some options change the envelope dimensions of the pump. Options can be combined, such as a bypass system and oil heating system.

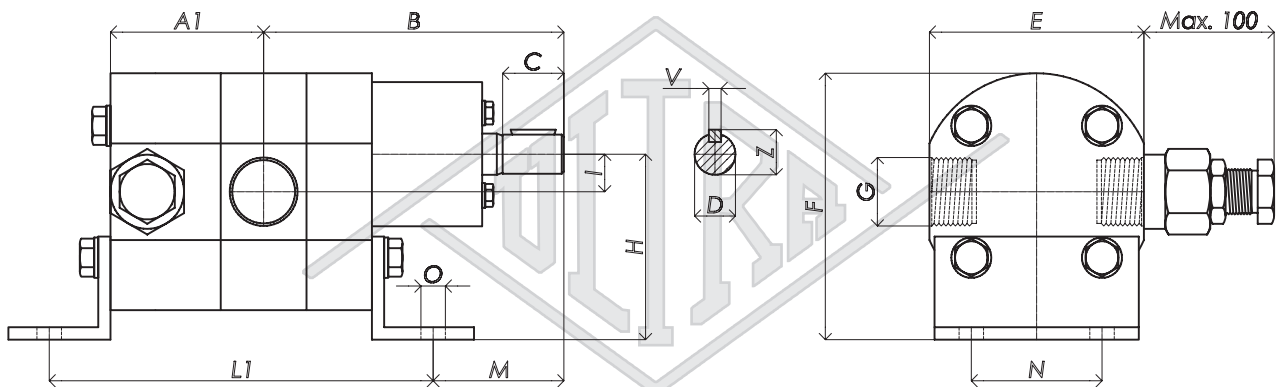


# OUTLINE DRAWINGS

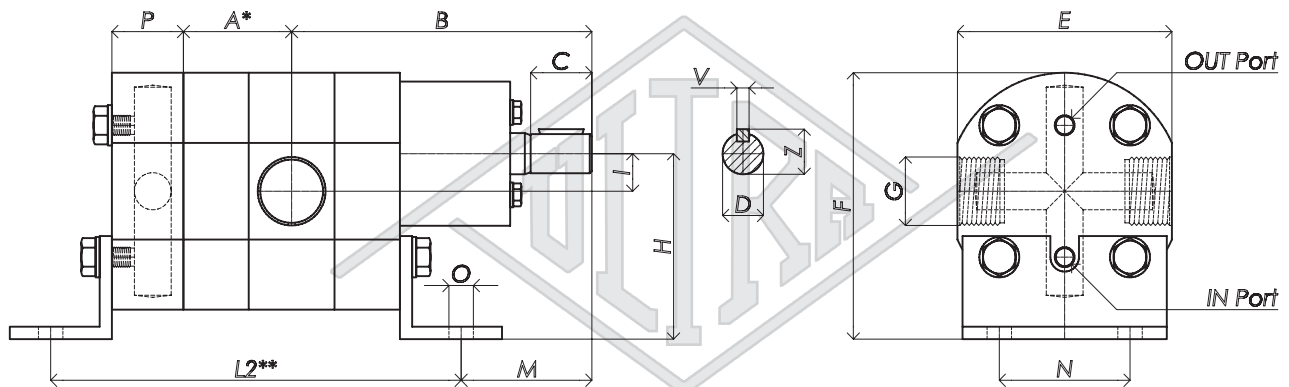
GP-(Standard) & GP-TN



GP-B

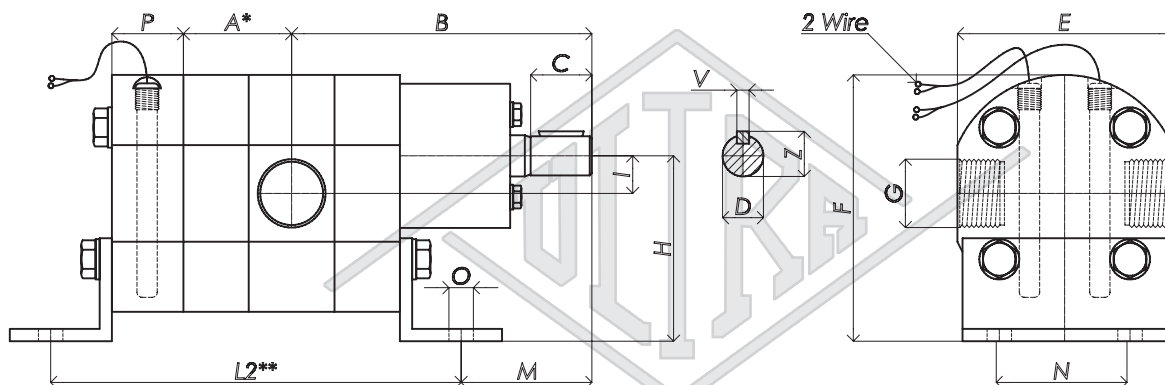


GP-OH & GP-BOH

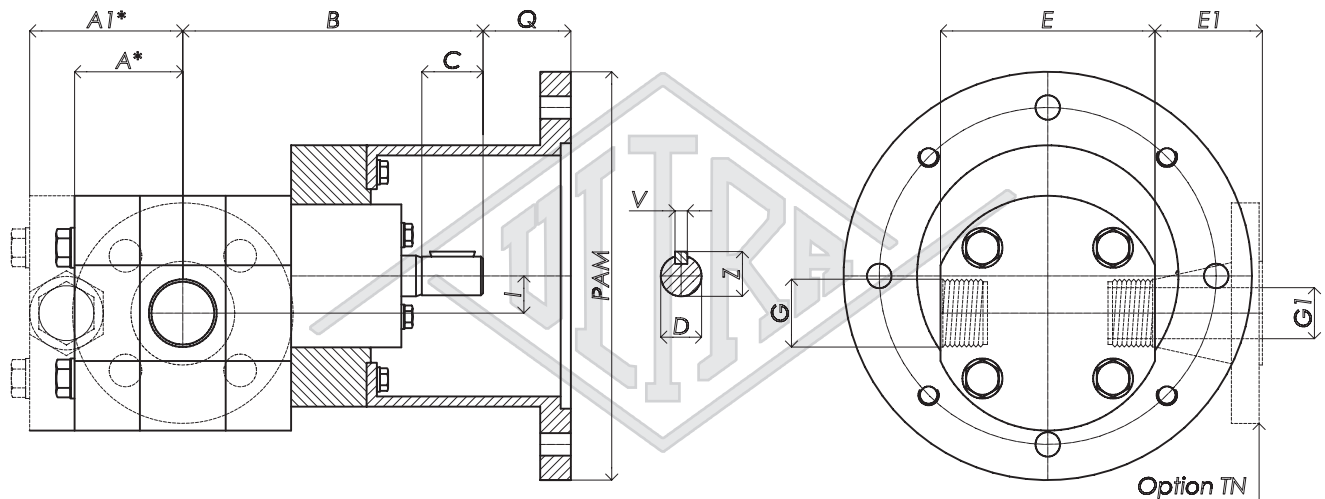


\* if Bypass option use quote A1 \*\* if Bypass use quote L1+P

GP-EH & GP-BEH



\* if Bypass option use quote A1 \*\* if Bypass use quote L1+P



\* if Oil or Electric Heating add P to quote A or A1

Size	A	A1	B	C	D	E	E1	F	G	G1	H	I	L	L1	L2	M	N	O
1.5	43	71	94	25	11	65	40	85	1/4"	Dn15	56	11	94	122	119	63	44	7
3	53	81	94										104	132	129			
4.5	37	65	120										114	142	139			
7	44.5	72.5	127.5										129	157	154			
10	40	67	131	30	14	90	40	110	1/2"	Dn15	76	16	130	157	165	66	56	10
14	45	72	136				45		3/4"	Dn20			140	167	175			
21	54	81	145										158	185	193			
28	53	75	147				52.5		1"	Dn25			166	188	201			
35	58	80	152	35	19	105	52.5	132	1"	Dn25	90	18	176	198	211	64	64	12
42	63	85	157										186	208	221			
52	72	109	171										204	241	244			
72	81	118	180				57.5		1.1/2"	Dn40			222	259	264			
93	89	126	188	50	28	160	57.5	200	1.1/2"	Dn40	132	30	230	267	270	69	86	14
114	97.5	134.5	196.5										255	292	295			
144	90	136	207										240	286	280			
200	100	146	217				60		2"	Dn50			260	306	300			
300	118	164	235	50	28	160	57.5	200	2.1/2"	Dn65	132	30	296	342	336	87	122	14

SIZE	P	Q							V	Z
1.5	25	56	56	69	NA	NA	NA	NA	NA	NA
3										
4.5										
7										
10	35	NA	69	69	89	NA	NA	NA	5	16
14										
21										
28										
35	35	NA	NA	68	81	81	105	NA	6	21.5
42										
52										
72										
93	40	NA	NA	NA	83	83	100	151	8	27
114										
144										
200										
300	40	NA	NA	NA	NA	83	100	136	8	31

71	80	90	100	112	132	160
LANTERN (B5 or B14) PAM (Type)						

### IMPORTANT NOTE

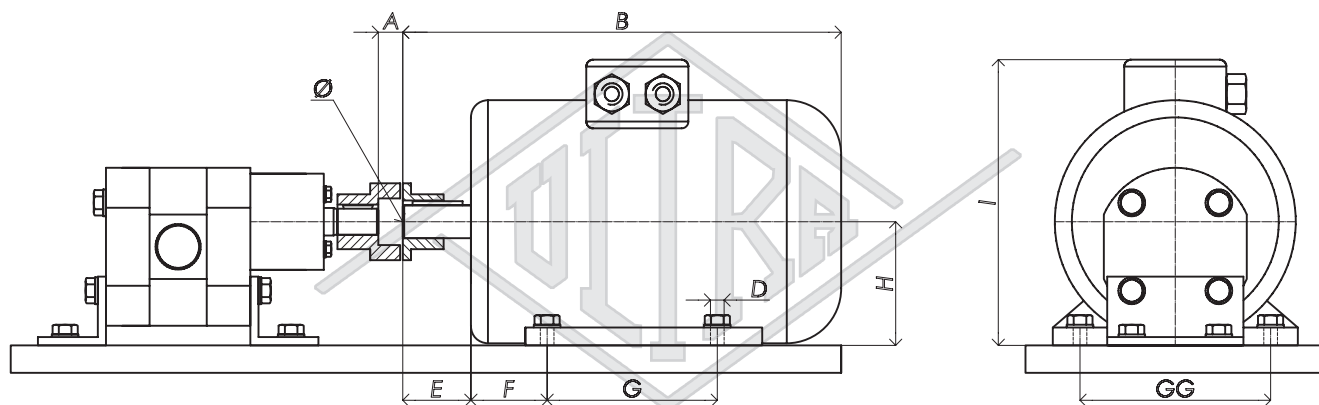
+Chosen dimensions: During the design phase we have tried to use dimensions that can easily match with standard components such as IEC motor dimensions.

+Overall Dimensions change: While in the Flange configuration, the addition of optional parts, such as valve systems or heating systems, doesn't effect coupling dimensions. In the foot configuration, the overall dimensions may change and positions of anchor bolts may change significantly due to modifications. Please contact our office for detailed drawings in these cases.

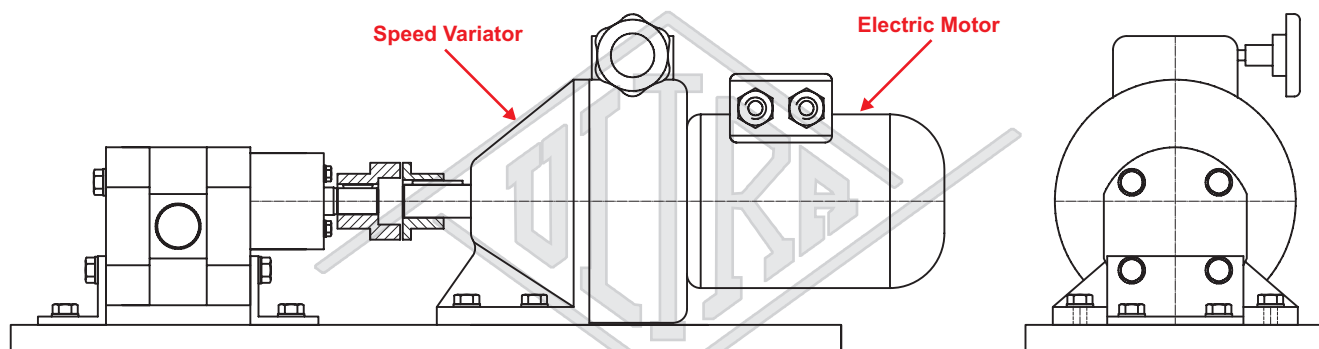
+ Disclaimer: Please not that all dimensions contained in this catalog are not binding. Please contact our office for detailed drawings.



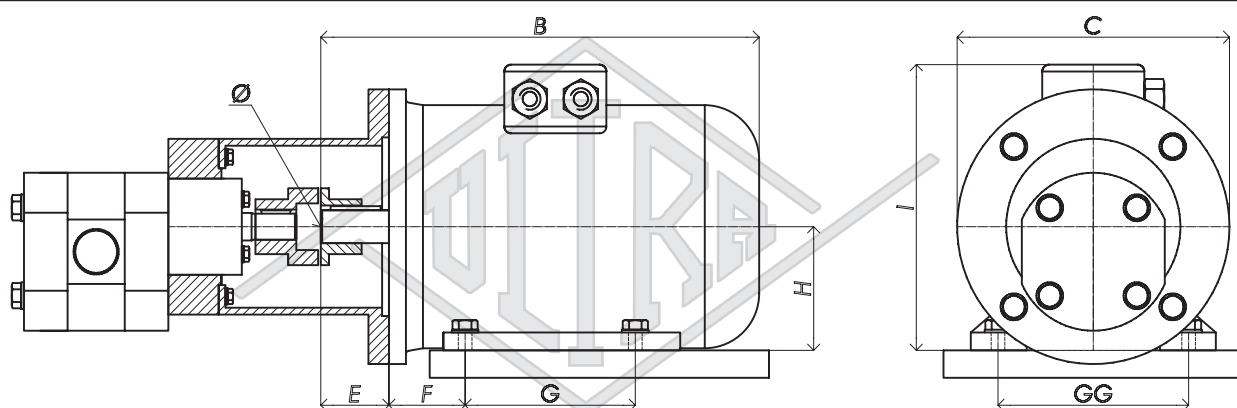
# Complete Unit GP



# Special Complete Unit GP



# Complete Unit GL



SIZE	Gr 71	Gr 80	Gr 90	Gr 100	Gr 112	Gr 132	Gr 160	Pump SIZE			
A	16	16	16	NA	NA	NA	NA	1.5	3	4.5	7
	NA	16	16	18	NA	NA	NA	10	14	21	
	NA	NA	18	18	18	20	NA	28	35	42	
	NA	NA	20	20	20	20	26	52	72	93	114
	NA	NA	NA	20	20	20	26	144	200	300	
B	234	264	302	367	384	483	653				
C	160	200	200	250	250	300	350				
D	7	10	10	12	12	12	15				
E	30	40	50	60	60	80	110				
Ø	14	19	24	28	28	38	42				
F	45	50	56	63	70	89	108				
G	90	100	125	140	140	178	254				
GG	112	125	140	160	190	216	254				
H	71	80	90	100	112	132	160				
I	175	192	208	245	277	312	380				

*Why should I use a lantern instead of a foot mounting configuration?*  
The use of a lantern configuration is used to reduce cost, because it eliminates the baseplate and guard. Additionally it is lighter and reduces shipping costs.

## TORSIONALLY FLEXIBLE COUPLINGS

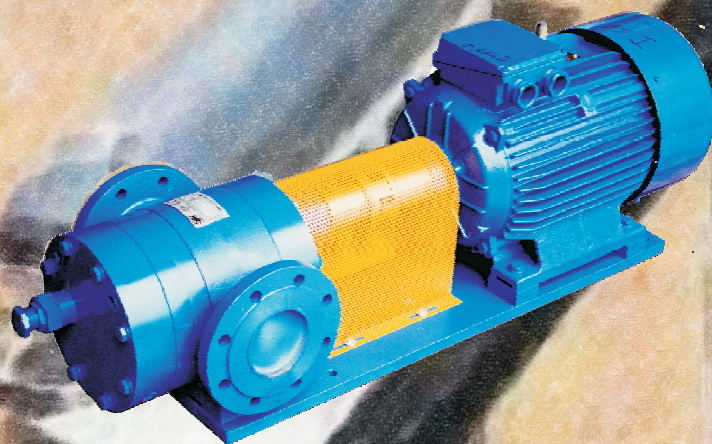
When pump is connected to the electric motor via a coupling, the dimension "A" is based on the size of the coupling model. This is determined by each coupling manufacturer. See manufacturer brochure for details.





# N

N系列

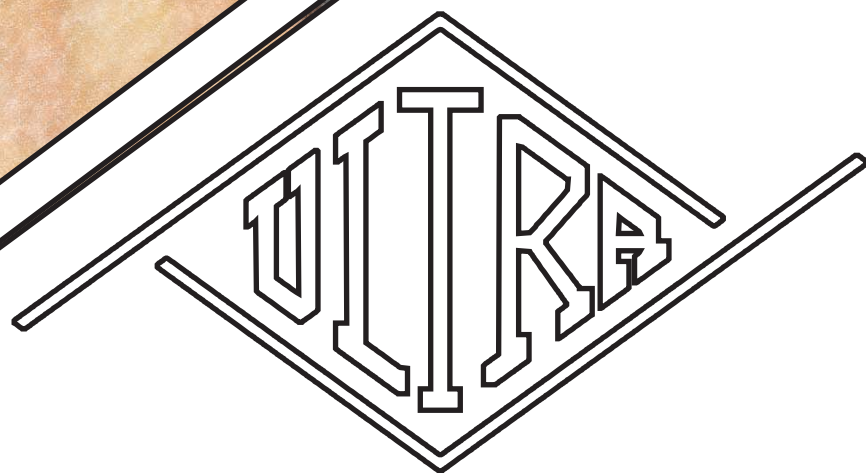


Metering & Thrust Gear Pumps

Cast Iron (G25)

齿轮泵 (计量与加压)

铸铁型



2007

ULTRA POMPE Srl



## GENERAL FEATURES

**+Application:** The N-series is designed for metering, booster, vacuum extraction, lubrication and transfer of a great variety of fluids in any industrial application. More than forty years of experience and development are invested in this series.

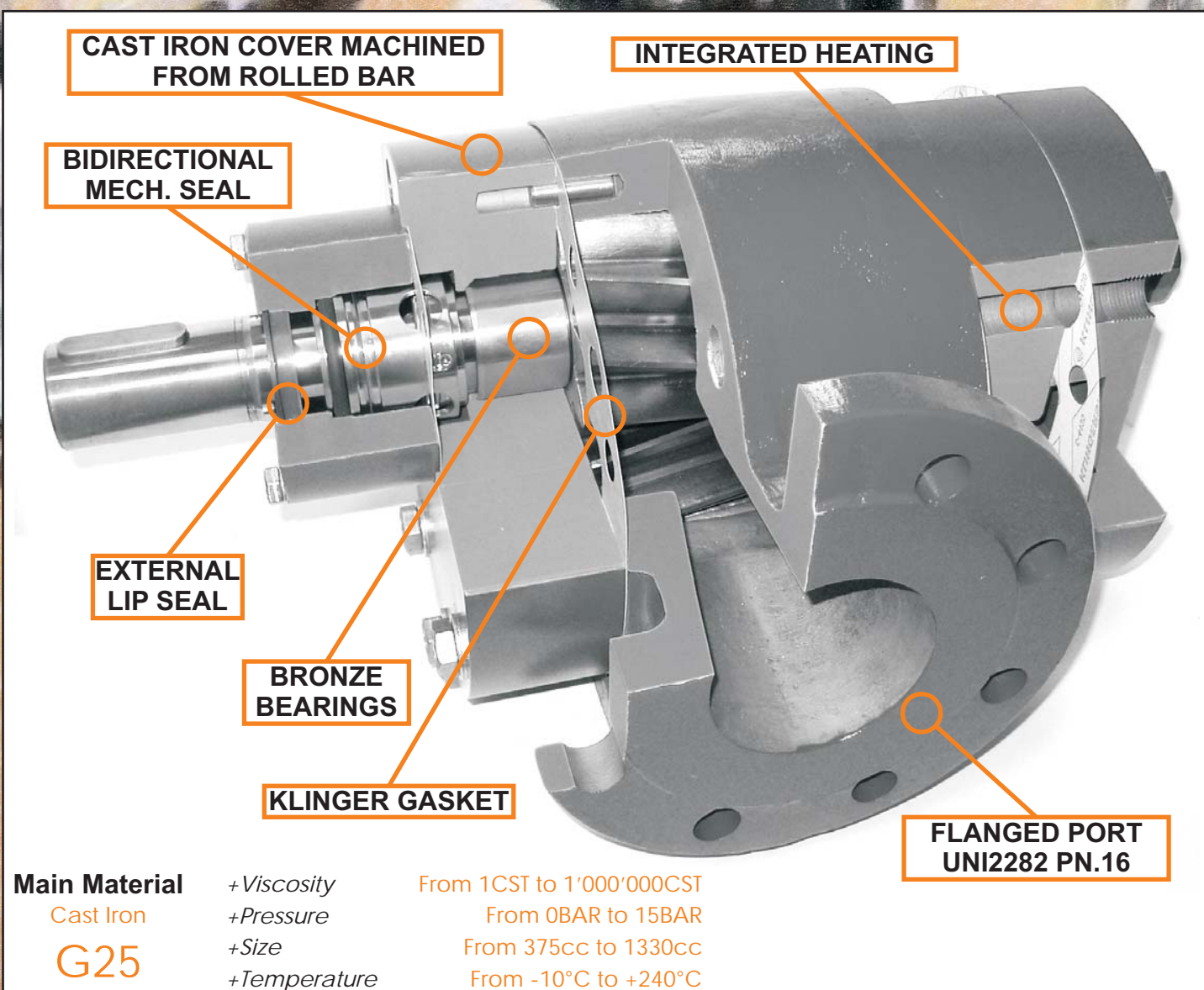
**+Bidirectional:** The N-Series offers the best combination of quality versus price. This series of pumps can provide flow in either direction. However keep in mind that an internal or external relief valve can only be designed for a single flow direction.

**+Ports:** The N-series inlet and outlet ports are flange type (UNI2282 PN.16), are of the same diameter and are in-line (share the same axis).

**+Hardened Materials:** The N-series housing, cover plates and gear shafts are machined from rolled bar forgings as apposed to casting, which insures maximum hardness.

**+Complete Unit:** The N-series can be supplied in different coupling configurations. Complete units consisting of a base plate (not required for flange mounted motors), flexible coupling with guard and electric motor are available. 8-pole, 6-pole and 4-pole electric motors are available. Explosion proof motors, gear reducers, and variable speed drives are also available on request.

**+Seals and Options:** The N-series uses a simple and versatile mechanical seal design or magnetic coupling system. Heating options include electric or oil heating.





## TECHNICAL FEATURES

### Housing (1,2,3,4)

Cast iron G25

The housing (except part 1) is machined from rolled bar forging that is cut, turned, machined and ground into its' final shape, thus ensuring maximum hardness as apposed to using cast parts.

### Rotors (5,6,7)

Steel 39NiCrMo3

Rotors are machined from rolled bar forging that is cut, turned and ground into its' final shape as opposed to using cast parts, thus ensuring maximum hardness.

### Bearings (8)

Bronze

Bearings are machined from rolled bar forging that is cut, turned and ground into its' final shape as opposed to using cast parts, thus ensuring maximum hardness.

### Sealing Elements (10,11,12,13)

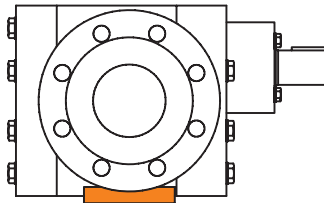
FPM, PTFE or MVQ

Plane gasket and O-Rings are used on all mating surfaces to reduce leakage even when pumping fluid of low viscosity.

The shaft is sealed with both an external lip seal and a bidirectional mechanical seal according to API610 and PLAN13. Dimensions are in accordance with DIN24960 and DIN3760.

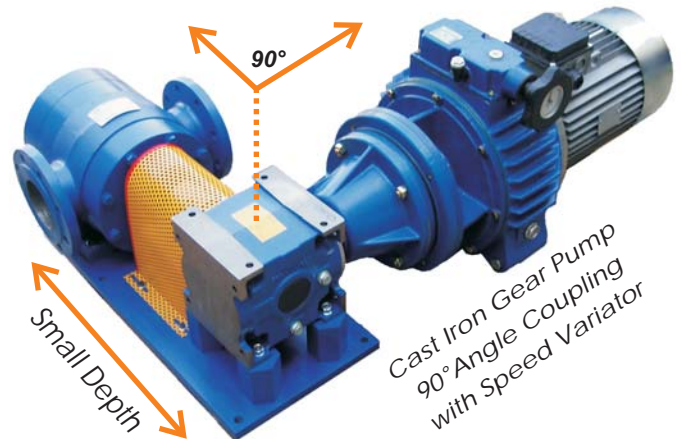
Other optional materials and sealing systems are available on request.

**N**  
**Foot**



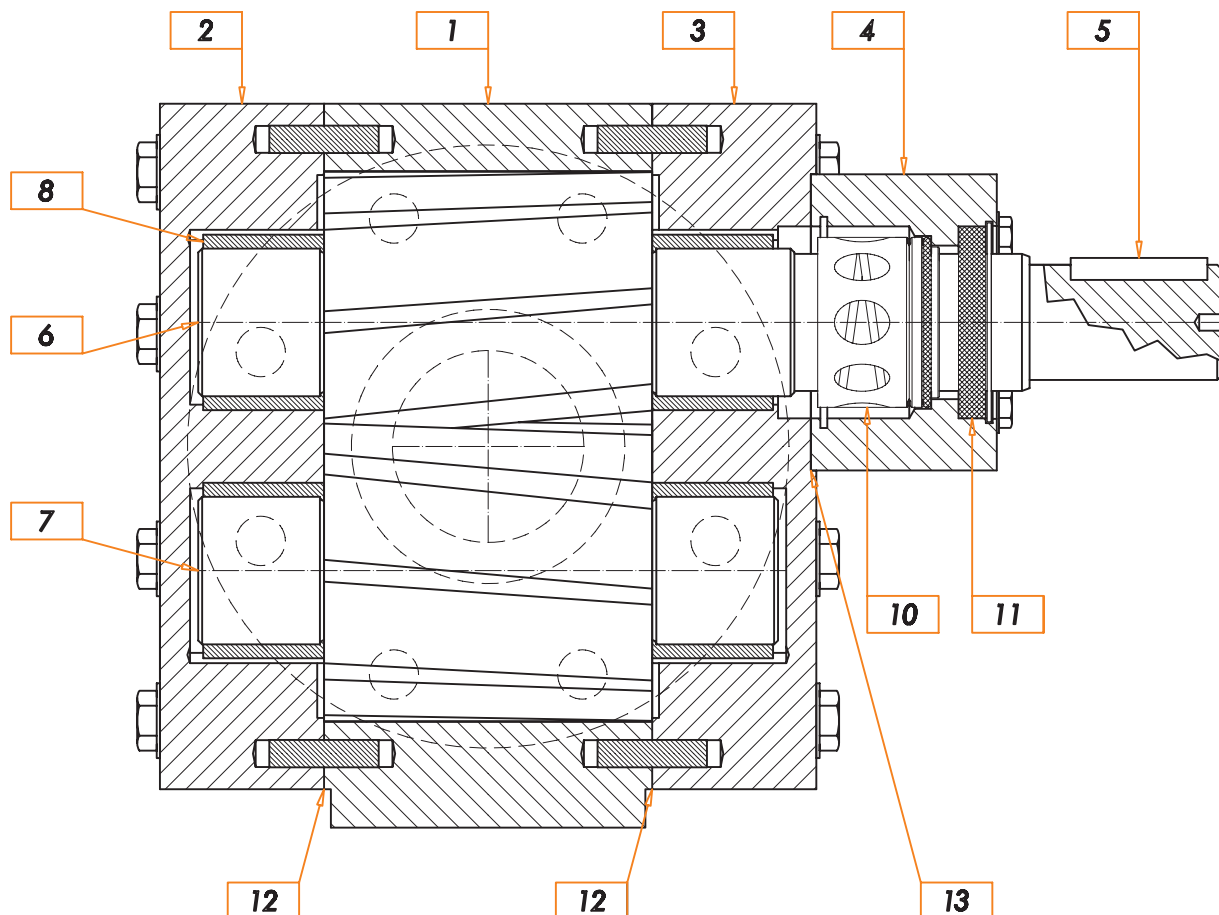
The pump is provided with one central foot for mounting on a baseplate. Projected to be coupled to drive units form B3.

## SPECIAL ASSEMBLY



Cast Iron Gear Pump  
90° Angle Coupling  
with Speed Variator

One strong point of our company is the capacity of develop custom solutions, especially couplings solutions, in few works days. For every custom designs are available section and outline drawing, realised with latest and updated CAD systems. If our standard product can't satisfy you request, we should project for you a special pumps!





# SHAFT SEAL

## MECHANICAL SEAL (Standard)

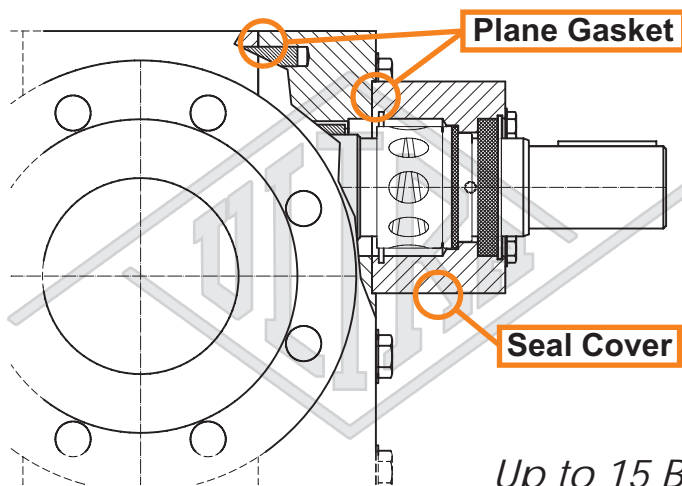
- V** Sealing elements made of **FPM**  
**T** Sealing elements made of **PTFE**  
**S** Sealing elements made of **MVQ**

*Features:* According to API610 and PLAN13, external lip seal and bidirectional mechanical seal, unaffected by the direction of shaft rotation. Dimension according to DIN24960 and DIN3760. **STAINLESS STEEL** and **CARBON GRAPHITE** mechanical seals are first choice for all such applications where pumped fluid doesn't have any oxidative property and work temperature is under 150°C.

*Maximum prussure:* 15 BAR

*Temperature:* -10/+240°C

*Work Sense:* Bidirectional



## MECHANICAL SEAL "K" (Optional)

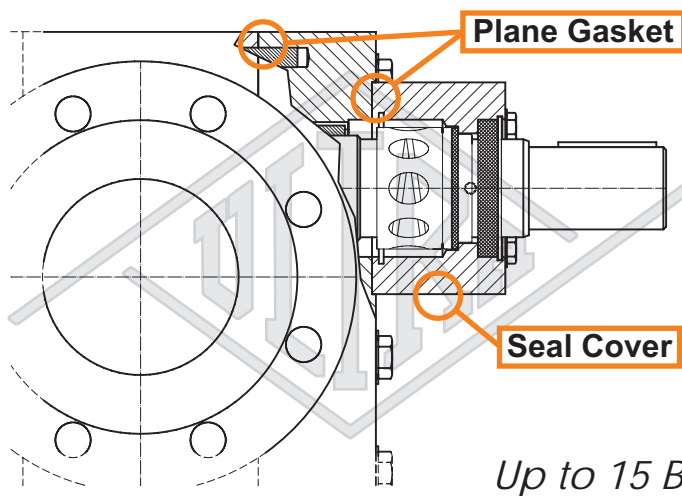
- KV** Sealing elements made of **FPM**  
**KT** Sealing elements made of **PTFE**  
**KS** Sealing elements made of **MVQ**

*Features:* According to API610 and PLAN13, external lip seal and bidirectional mechanical seal, unaffected by the direction of shaft rotation. Dimensions according to DIN24960 and DIN3760. **BRAZED TUNGSTEN CARBIDES** on **STAINLESS STEEL** mechanical seals are used when pumped fluids require the use of anticorrosion materials or work temperature is up to 240°C.

*Maximum prussure:* 15 BAR

*Temperature:* -10/+240°C

*Work Sense:* Bidirectional



## LIP SEAL (Optional)

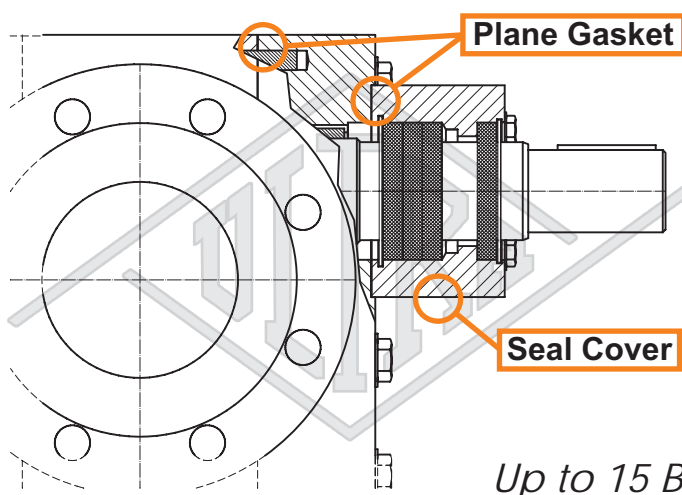
- AV** Sealing elements made of **FPM**  
**AT** Sealing elements made of **PTFE**  
**AS** Sealing elements made of **MVQ**

*Features:* Multiple lip seals are chosen in accordance with DIN3760 GP type, coated internally with FPM, PTFE or MVQ with a supplementary dust lip for particularly dusty environments. Also available in other materials.

*Maximum prussure:* 15 BAR

*Temperature:* -10/+240°C

*Work Sense:* Bidirectional





# SHAFT SEAL

## PACKED GLAND SEAL (Optional)

**DV** Sealing elements made of **FPM**

**DT** Sealing elements made of **PTFE**

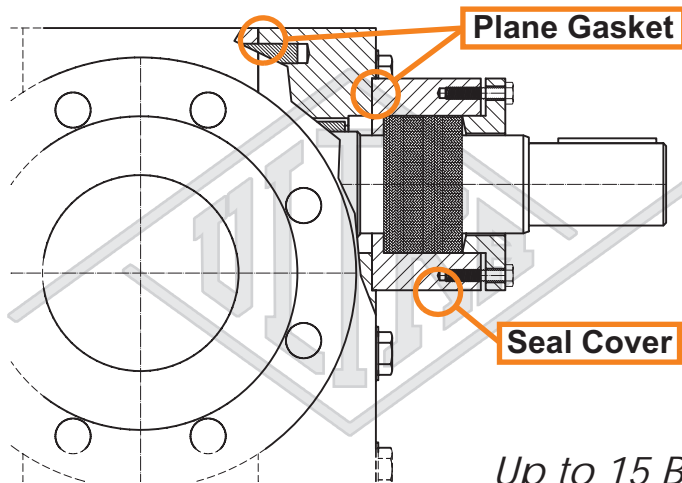
**DS** Sealing elements made of **MVQ**

*Features: The packed gland is composed of 4 packing gland rings seated on the seal cover. This type of seal requires a high level of maintenance and is therefore discouraged in pump applications. Ultra strongly recommends the use of mechanical seals instead.*

*Maximum pressure: 15 BAR*

*Temperature: -10/+240°C*

*Work Sense: Bidirectional*



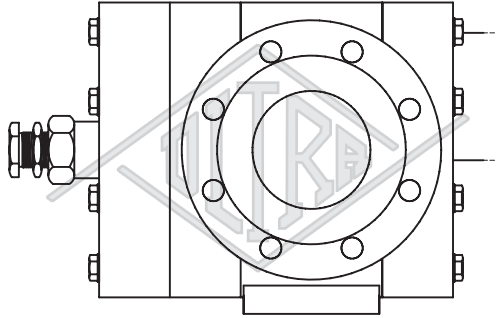


# OPTIONAL

## Bypass valve

The pump is supplied with an internal recirculation relief valve (by-pass) that is designed to protect the pump from damage that can be caused by overpressure.

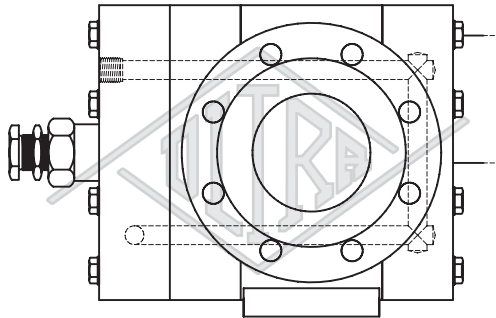
+B



## Oil Heating system

The pump is supplied with an integrated heating system to provide the heating of the entire pump with hot oil or steam. Heating fluid is pumped by an external pump in the internal channels of the gear pump.

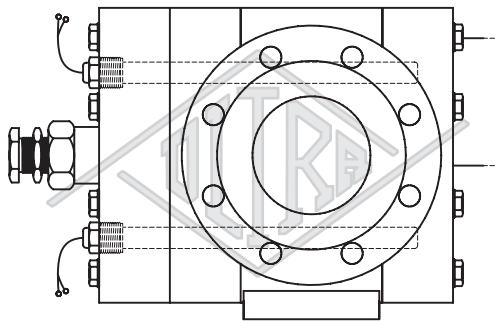
+OH



## Electric Heating system

The pump is supplied with an integrated electric cartridge heating system to provide the heating of the entire pump. PT100 Probes are probes which show a change in resistance with a change of temperature.

+EH



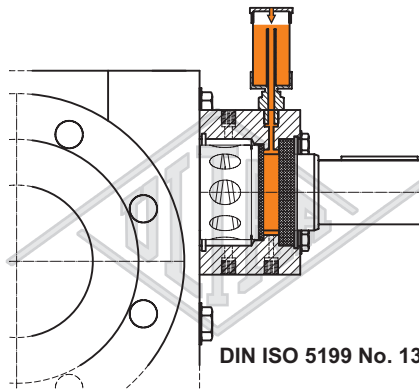


# OPTIONAL

## Quench dead end system

The pump is supplied with a transparent and ventilated reservoir positioned directly above the seal casing. Used when pumped fluid reacts with atmospheric oxygen, the quench medium stops the leakage making contact with the atmosphere. Quench applies a pressure less external fluid to mechanical seal's faces on the atmosphere side.

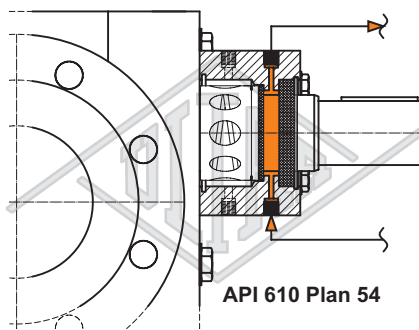
+Q



## Plan 54 circulation system

The pump is supplied with two threaded holes on a seal casing that allows the circulation of a quenching medium from an external system. The system absorbs the mechanical seal leakage by the quenching

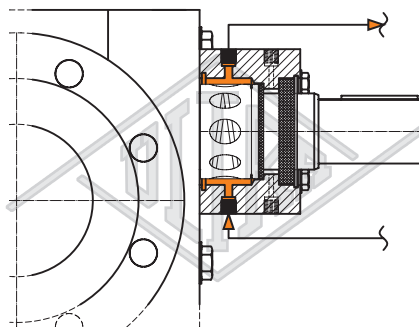
+P



## Flushing system

The pump is supplied with flushing holes. The seal washing can be ensured by a "CIP cycle," that through internal channels and with an appropriate solvent pumped from an external system, removes pumped fluid residue.

+F

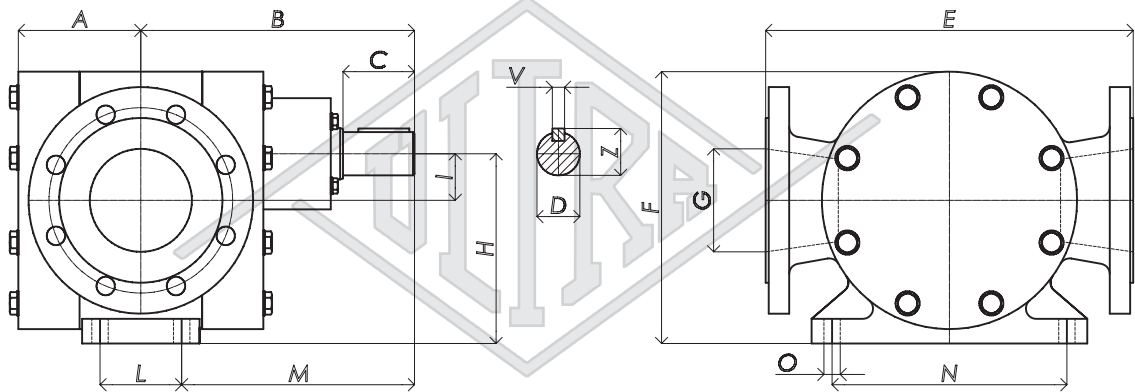


Many combinations of options are available limited by the pump material and pump series. Note that some options change the envelope dimensions of the pump. Options can be combined, such as a bypass system and oil heating system.

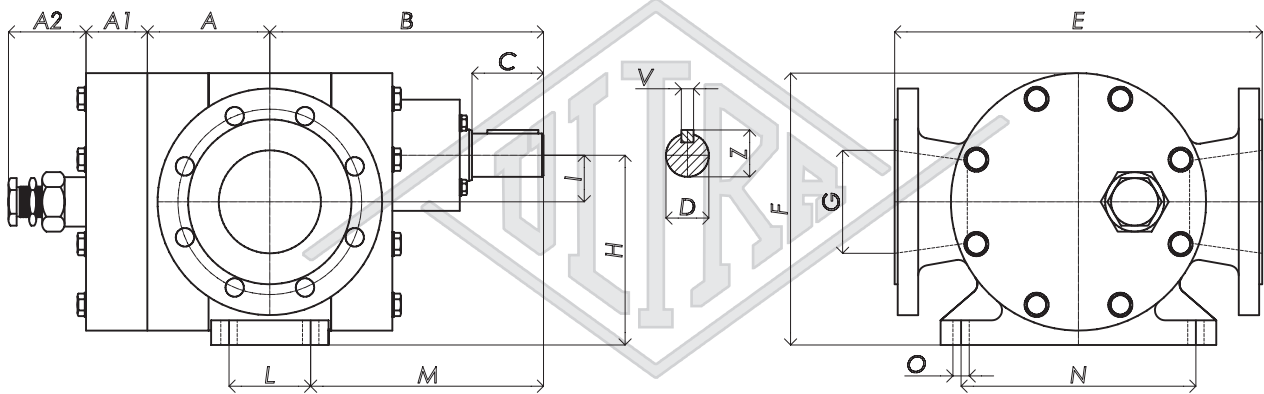


# OUTLINE DRAWINGS

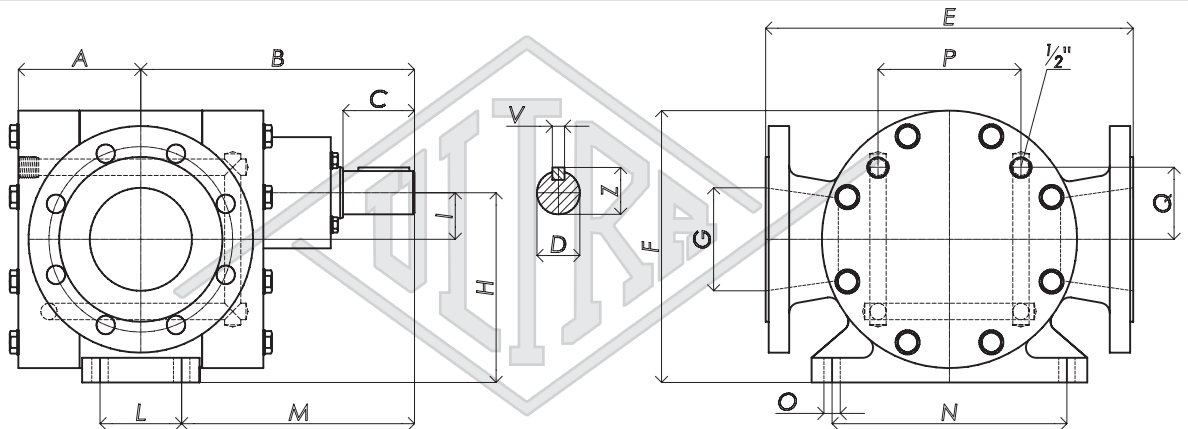
N-(Standard)



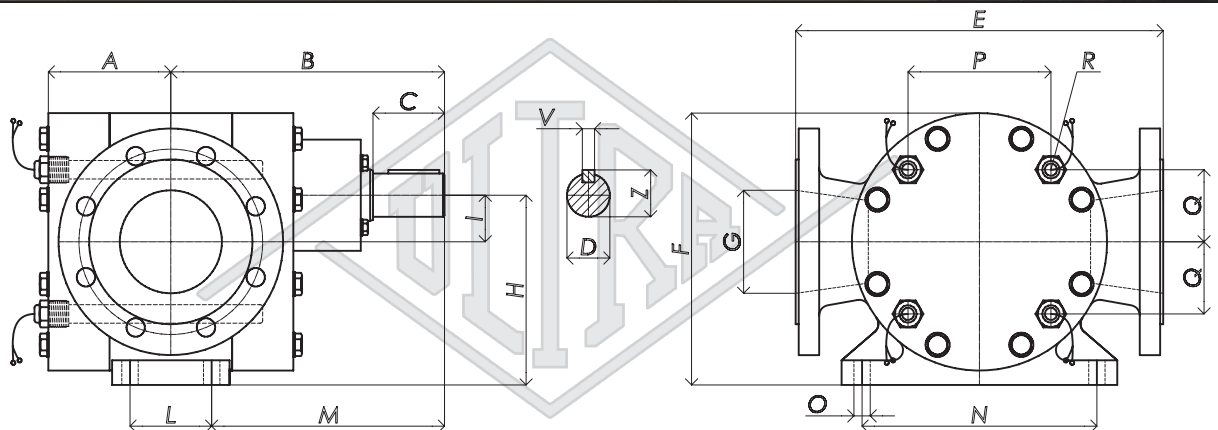
N-B



N-OH

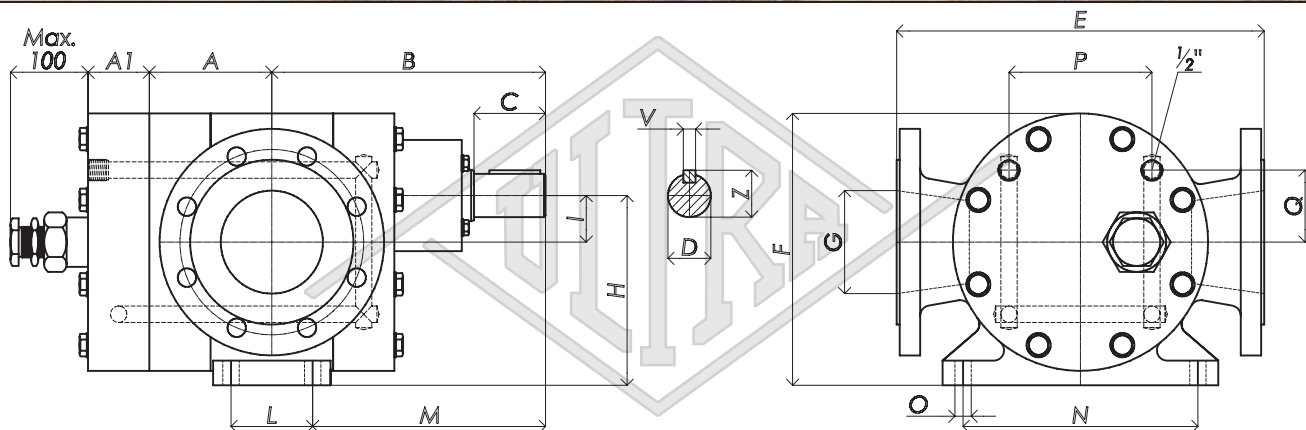


N-EH

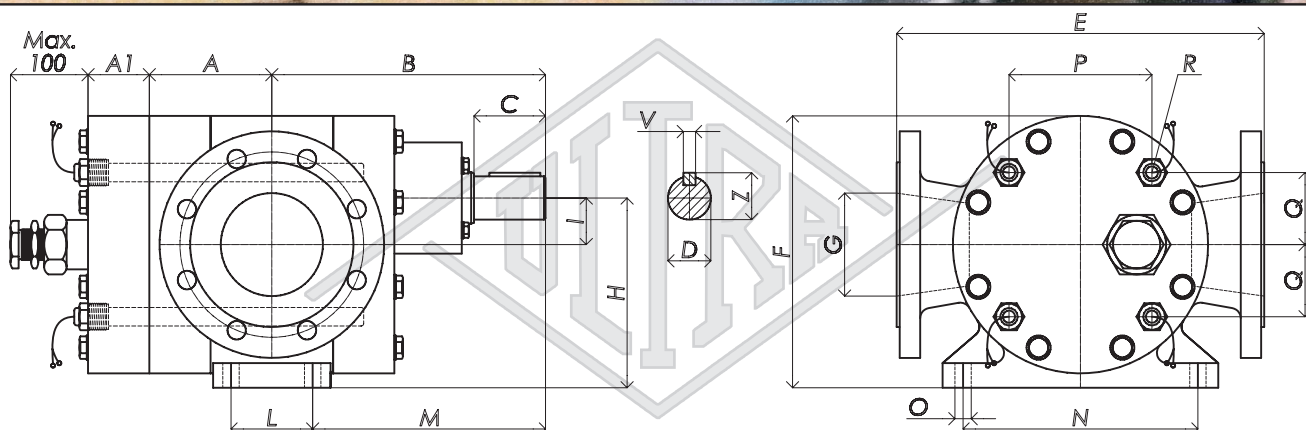




# N-BOH

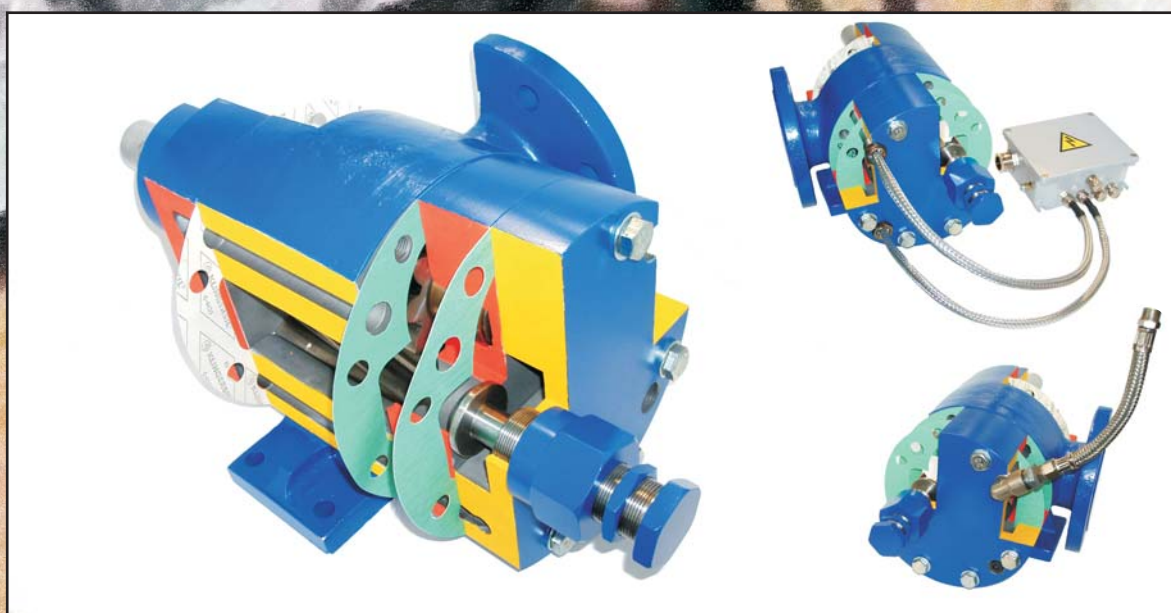


# N-BEH



Size	A	A1	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R
460	119	40	224	60	38	310	220	3" Dn80Pn16	150	37	70	189	195	14	118	59	1/2"
636	120	60	268	70	42	370	265	4" Dn100Pn16	184	45	80	228	230	16	140	70	3/4"
863	162																
1330	161	60	324	80	48	410	275	5" Dn125Pn16	200	49	150	249	240	16	150	70	3/4"

Size	V	Z
460	10	41.5
636	12	45.5
863		
1330	14	52



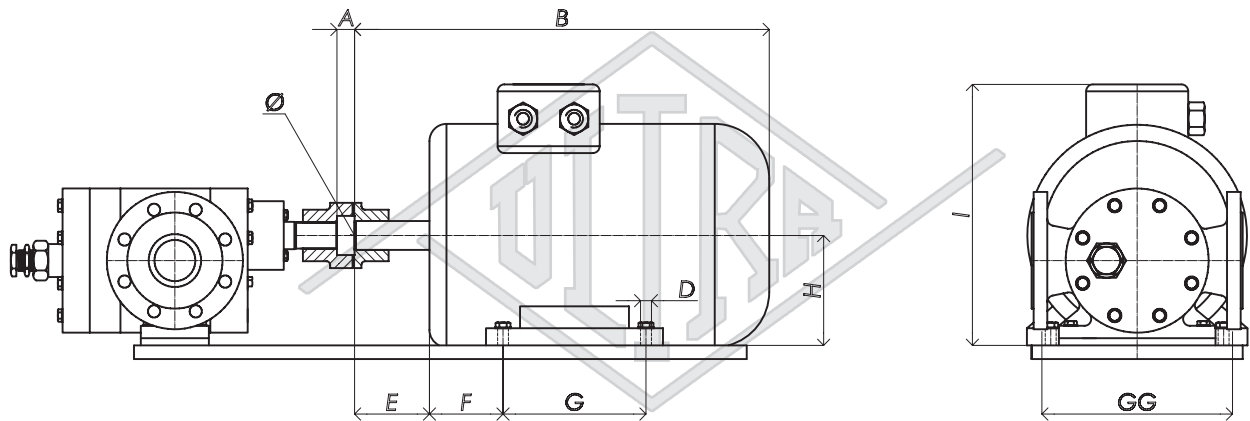
## IMPORTANT NOTE

+Chosen dimensions: During the design phase we have tried to use dimensions that can easily match with standard components such as IEC motor dimensions.

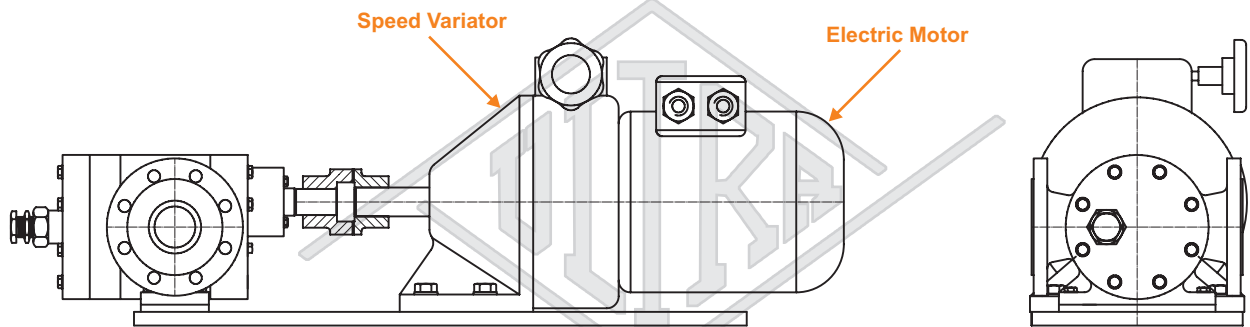
+ Disclaimer: Please not that all dimensions contained in this catalog are not binding. Please contact our office for detailed drawings.



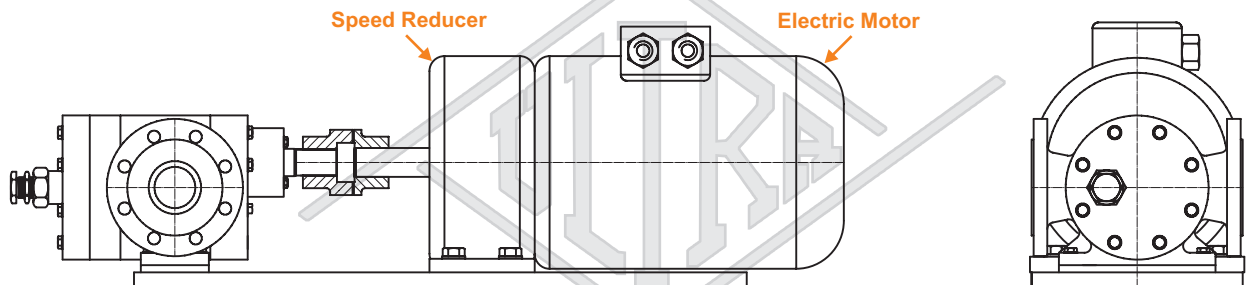
Complete Unit



Special Complete Unit



Special Complete Unit



SIZE	Gr 132	Gr 160	Gr 180	Gr 200	Gr 225	Pump SIZE
A	26	26	26	NA	NA	460
	NA	26	26	26	28	636 863
	NA	26	26	26	28	1330
B	483	653	697	779	817	
C	NA	NA	NA	NA	NA	
D	10	15	15	19	19	
E	80	110	110	110	140	
Ø	38	42	48	55	60	
F	89	108	121	133	179	
G	178	254	279	305	286	
GG	216	254	279	318	356	
H	132	160	180	200	225	
I	312	380	412	457	476	

### TORSIONALLY FLEXIBLE COUPLINGS

When pump is connected to the electric motor via a coupling, the dimension "A" is based on the size of the coupling model.

This is determined by each coupling manufacturer. See manufacturer brochure for details.





# S

S系列



## Chemical Gear Pumps

Stainless Steel (AISI316L)

齿轮泵 不锈钢体



2007



## GENERAL FEATURES

**+Application:** The S-series pump is designed for the chemical, food and pharmaceutical industries. The use of corrosion resistant materials allows for the transfer of aggressive fluids. The S-series is also suitable for applications that require cleaning by a "CIP cycle." An example of this type of application is pumping biodegradable fluids. The "CIP cycle" is possible with internal channels that enable the pump to be fully cleaned with solvents.

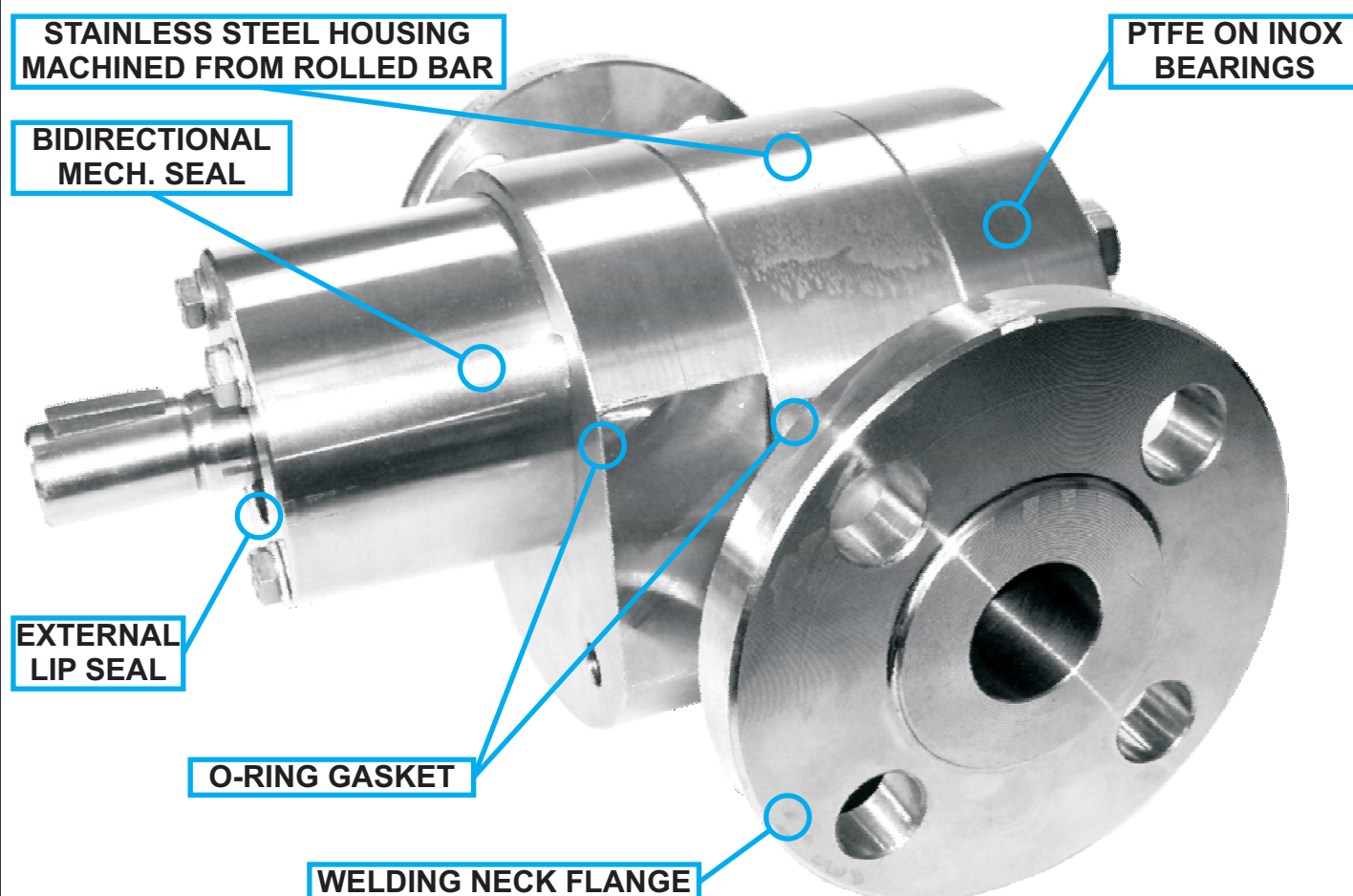
**+Bidirectional:** The S-Series offers the best combination of quality versus price. This series of pumps can provide flow in either direction. However keep in mind that an internal or external relief valve can only be designed for a single flow direction.

**+Ports:** The S-series inlet and outlet ports are threaded, are of the same diameter and are in-line (share the same axis). The flanges can be welded or screwed.

**+Hardened Materials:** The S-series housing, cover plates and gear shafts are machined from rolled bar forgings as apposed to casting, which insures maximum hardness.

**+Complete Unit:** The S-series can be supplied in different coupling configurations. Complete units consisting of a baseplate (not required for flange mounted motors), flexible coupling with guard and electric motor are available. 8-pole, 6-pole and 4-pole electric motors are available. Explosion proof motors, gear reducers, and variable speed drives are also available on request.

**+Seals and Options:** The S-series uses a simple and versatile mechanical seal design or magnetic coupling system. Heating options include electric or fluid (oil or steam) heating.



### Main Material

Stainless Steel

**AISI316L**

+Viscosity

+Pressure

+Size

+Temperature

From 1CST to 1'000'000CST

From 0BAR to 30BAR

From 1.5cc to 1330cc

From -40°C to +240°C



## TECHNICAL FEATURES

**Housing (1,2,3,4)** **Stainless Steel AISI316L**

The housing is machined from rolled bar forging that is cut turned, machined and ground into its' final shape, thus ensuring maximum hardness as apposed to using cast parts.

**Rotors (5,6,7,9)** **Sainless Steel S31803 Duplex**

Rotors are machined from rolled bar forging that is cut, turned and ground into its' final shape as opposed to using cast parts, thus ensuring maximum hardness. PTFE plates are installed to reduce wear.

**Bearings (8)** **PTFE on Stainless Steel**

The bearings are aided by a metal backing to increase resistance especially for corrosive environments. A lining of PTFE is coated in the ID of the bearings forming and a solid lubricant film.

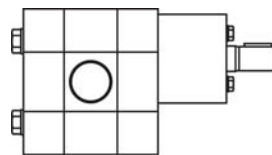
**Sealing Elements (10,11,12,13)** **FPM, PTFE or MVQ**

O-Rings (or plane gasket) are used on all mating surfaces to eliminate leakage even when pumping low viscosity fluid.

The shaft is sealed with both an external lip seal and a bidirectional mechanical seal according to API610 and PLAN13. Dimensions are in accordance with DIN24960 and DIN3760.

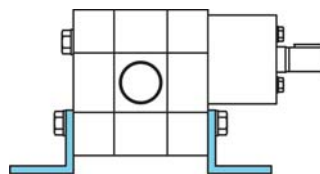
Other optional materials and sealing systems are available on request.

**S-**  
**Naked**



This configuration is provided with threaded holes on the front cover allowing direct coupling to a non-standard drive unit.

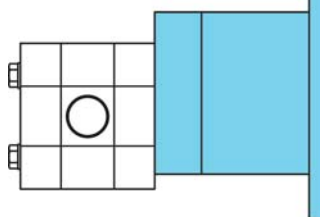
**SP**  
**Foot**



The pump is provided with feet for mounting on a baseplate. Projected to be coupled to drive units form B3.

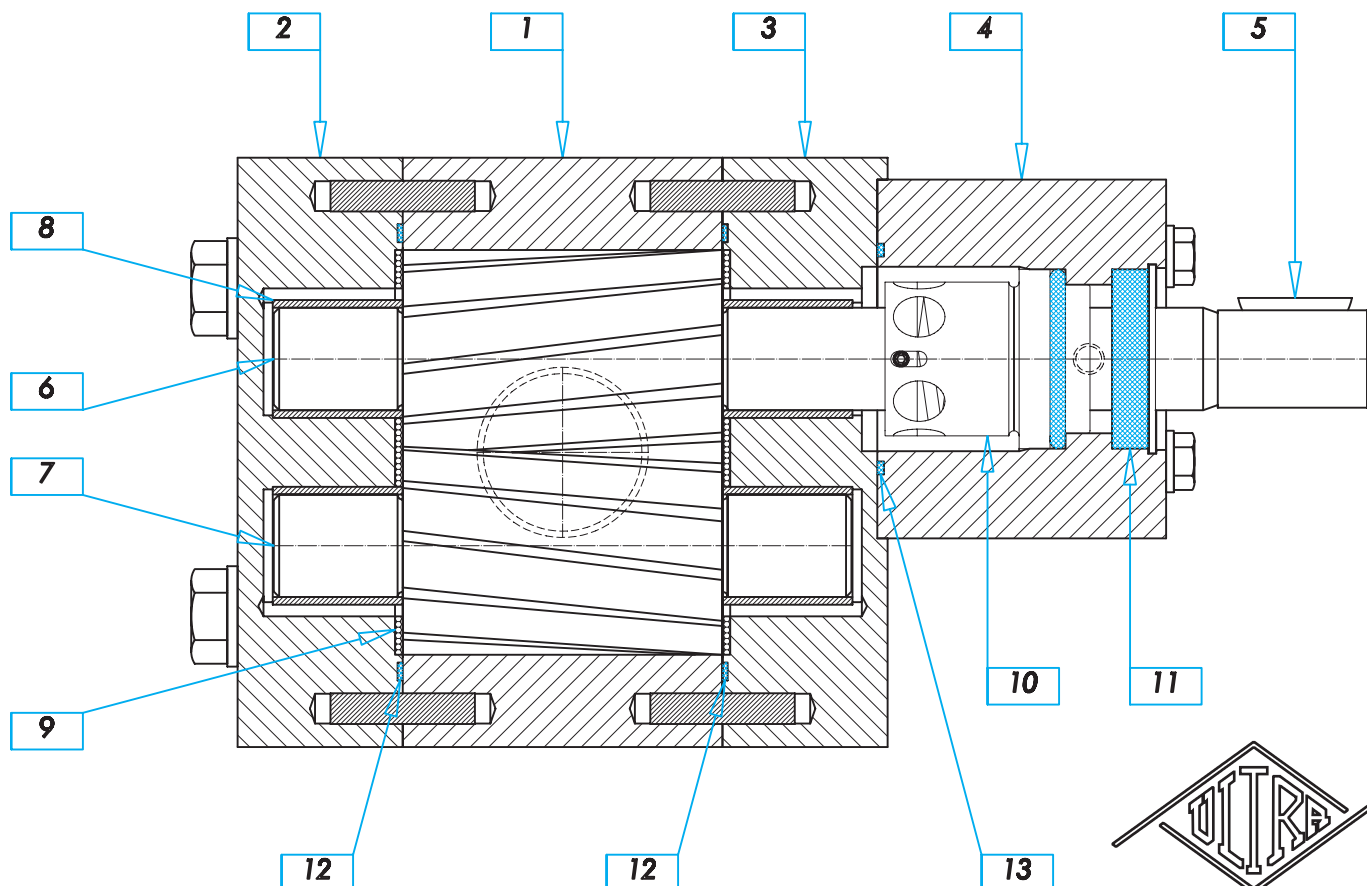
+Foot **Stainless Steel**

**SL**  
**Lantern**



The pump is provided with an extension flange that couples with any B3/B5 or B3/B14 UNEL MEC flange. Available in different lengths.

+Mask **Cast Iron**  
+Lantern **Aluminum**





# SHAFT SEAL

## MECHANICAL SEAL (Standard)

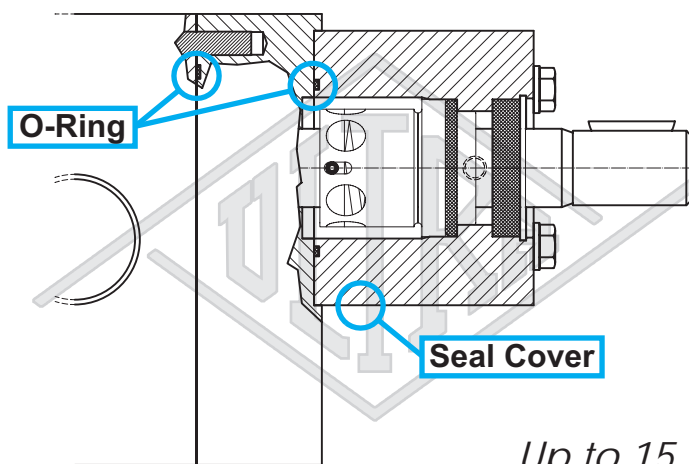
- V** Sealing elements made of **FPM**
- T** Sealing elements made of **PTFE**
- S** Sealing elements made of **MVQ**

*Features:* According to API610 and PLAN13, external lip seal and bidirectional mechanical seal, unaffected by the direction of shaft rotation. Dimensions according to DIN24960 and DIN3760. **STAINLESS STEEL** and **CARBON GRAPHITE** mechanical seals are first choice for all such applications where pumped fluid doesn't have any oxidative property and work temperature is under 150°C.

*Maximum prussure:* 15 BAR

*Temperature:* -10/+240°C

*Work Sense:* Bidirectional



*Up to 15 BAR*

## MECHANICAL SEAL "K" (Optional)

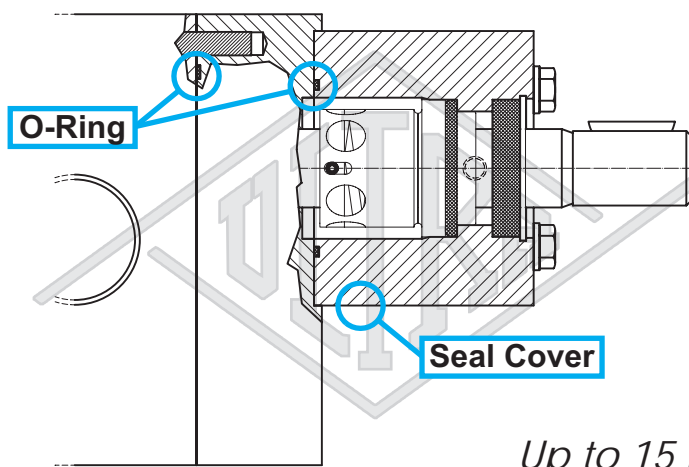
- KV** Sealing elements made of **FPM**
- KT** Sealing elements made of **PTFE**
- KS** Sealing elements made of **MVQ**

*Features:* According to API610 and PLAN13, external lip seal and bidirectional mechanical seal, unaffected by the direction of shaft rotation. Dimensions according to DIN24960 and DIN3760. **BRAZED TUNGSTEN CARBIDES** on **STAINLESS STEEL** mechanical seals are used when pumped fluids require the use of anticorrosion materials or work temperature is up to 240°C.

*Maximum prussure:* 15 BAR

*Temperature:* -10/+240°C

*Work Sense:* Bidirectional



*Up to 15 BAR*

## MAGNETIC COUPLING (Optional)

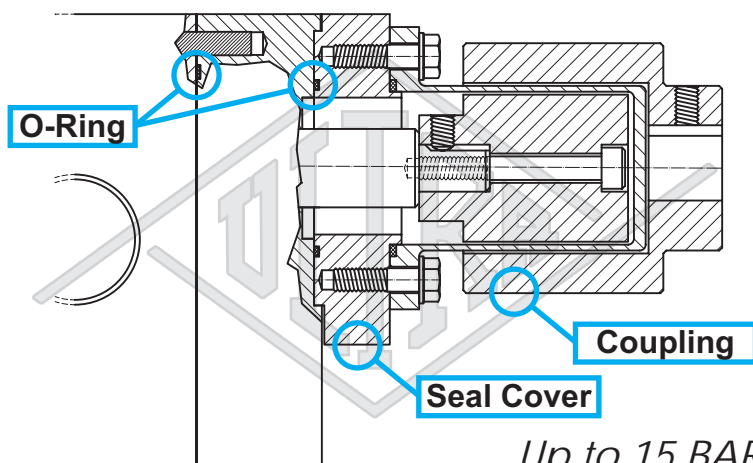
- MV** Sealing elements made of **FPM**
- MT** Sealing elements made of **PTFE**
- MS** Sealing elements made of **MVQ**

*Features:* The standard mechanical seal can be replaced by a magnetic coupling system that definitively eliminates seal leakage and wear in particularly harsh conditions. Magnetic coupling are synchronous coupling that transmits torque through magnetic forces between the internal and external rotor, but ensures a hermetic separation of the drive and the driven side via **STAINLESS STEEL** bell.

*Maximum prussure:* 15 BAR

*Temperature:* -30/+240°C

*Work Sense:* Bidirectional



*Up to 15 BAR*



# SHAFT SEAL

## DOUBLE MECHANICAL SEAL "Z"(Optional)

Dual Non-Pressurized (tandem)

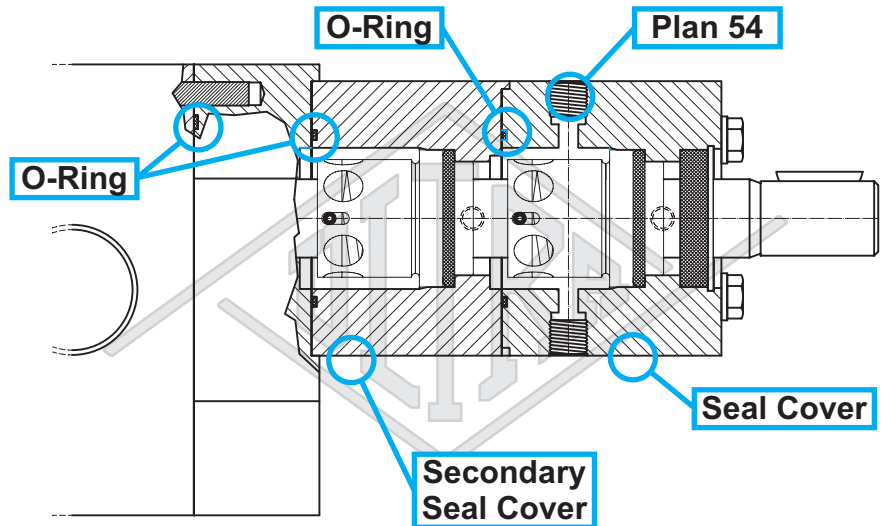
- +ZV** Added seal type V (FPM)
- +ZT** Added seal type T (PTFE)
- +ZS** Added seal type S (MVQ)
- +ZKV** Added seal type KV (FPM)
- +ZKT** Added seal type KT (PTFE)
- +ZKS** Added seal type KS (MVQ)

*Features:* Secondary mechanical seal system (as Plan 54 circulation) added to standard one. This solution is used when flushing liquid is not available under pressure. Pumped liquid may vary its pressure, while the chamber does not have to be at a higher pressure than the pumped fluid.

*Maximum prussure:* 15 BAR

*Temperature:* -10/+240°C

*Work Sense:* Bidirectional



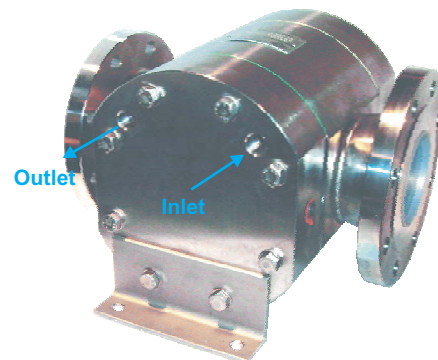
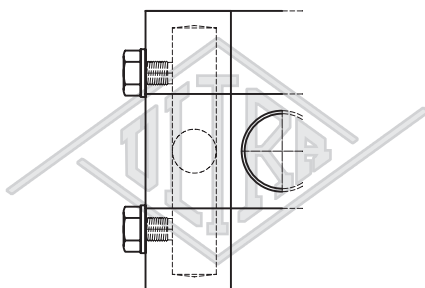


# OPTIONAL

## Oil Heating system

The pump is supplied with an integrated heating system to provide the heating of the entire pump with hot oil or steam. Heating fluid is pumped by an external pump in the internal channels of the gear pump.

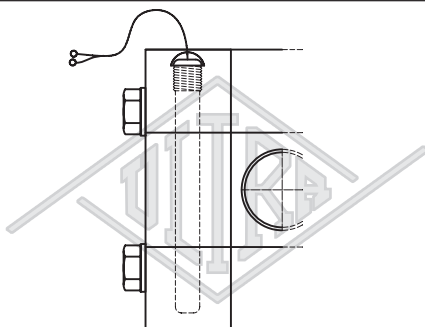
+OH



## Electric Heating system

The pump is supplied with an integrated electric cartridge heating system to provide the heating of the entire pump. PT100 Probes are probes which show a change in resistance with a change of temperature.

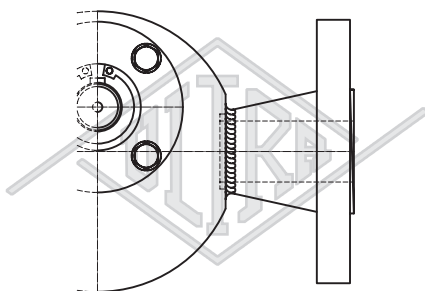
+EH



## Welded Neck flange (ANSI or UNI)

The pump is supplied with a welding neck flange welded on the body. Also available, is a flexible coupling to mount between the pump flange and pipe line.

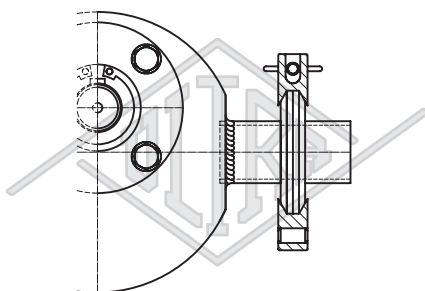
+WN



## Clamp flange

The pump is supplied with a welding clamp flange welded on the body. This allows fast mounting operation.

+WC



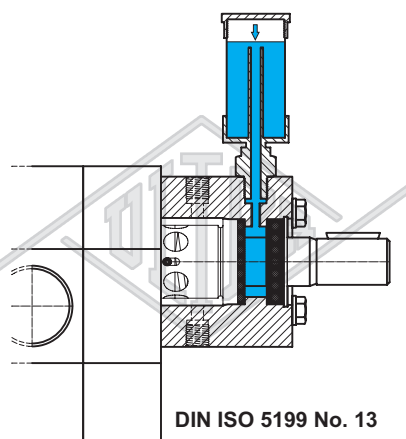


# OPTIONAL

## Quench dead end system

The pump is supplied with a transparent and ventilated reservoir positioned directly above the seal casing. Used when pumped fluid reacts with atmospheric oxygen, the quench medium stops the leakage making contact with the atmosphere. Quench applies a pressure less external fluid to mechanical seal's faces on the atmosphere side.

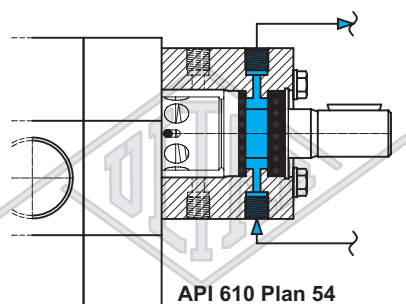
+Q



## Plan 54 circulation system

The pump is supplied with two threaded holes on a seal casing that allows the circulation of a quenching medium from an external system. The system absorbs the mechanical seal leakage by the quenching

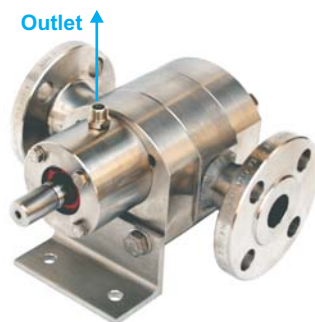
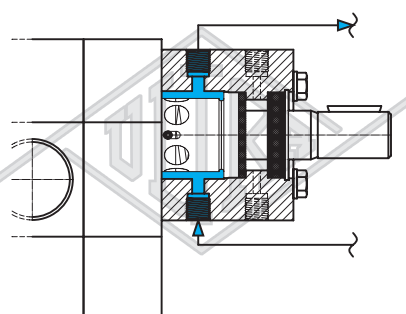
+P



## Flushing system

The pump is supplied with flushing holes. The seal washing can be ensured by a "CIP cycle," that through internal channels and with an appropriate solvent pumped from an external system, removes pumped fluid residue.

+F

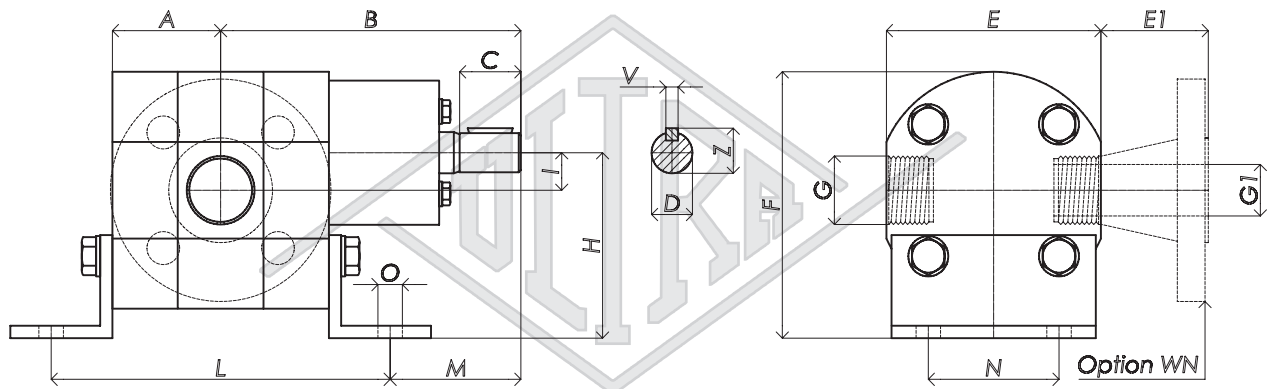


Many combinations of options are available limited by the pump material and pump series. Note that some options change the envelope dimensions of the pump. Options can be combined, such as a bypass system and oil heating system.

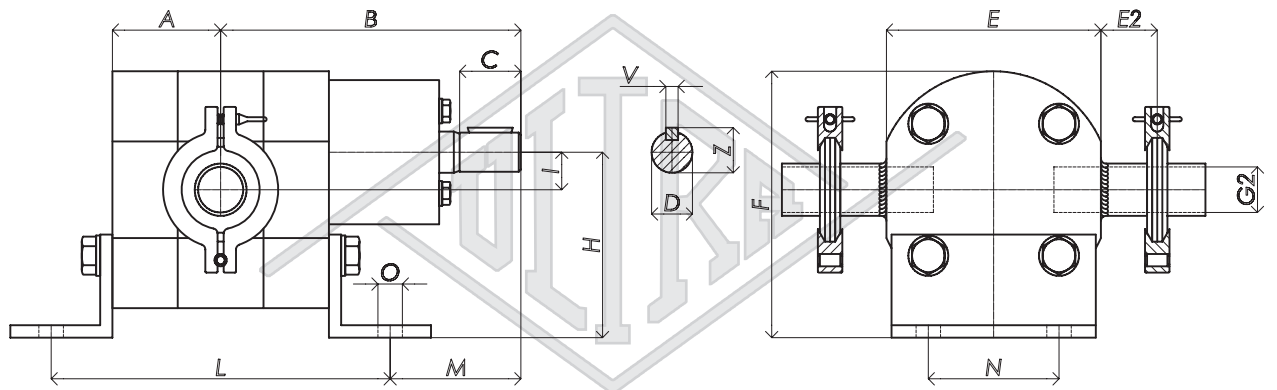


# OUTLINE DRAWINGS

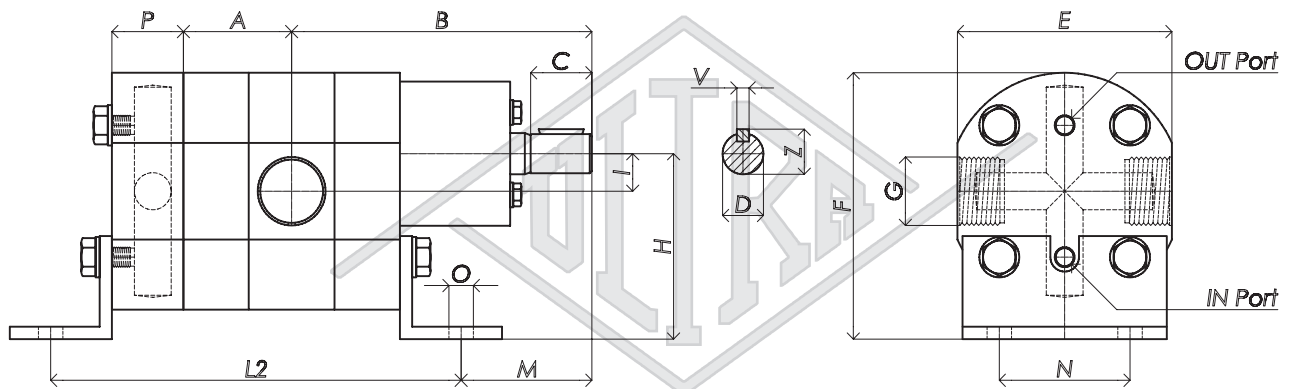
SP-(Standard) & SP-WN



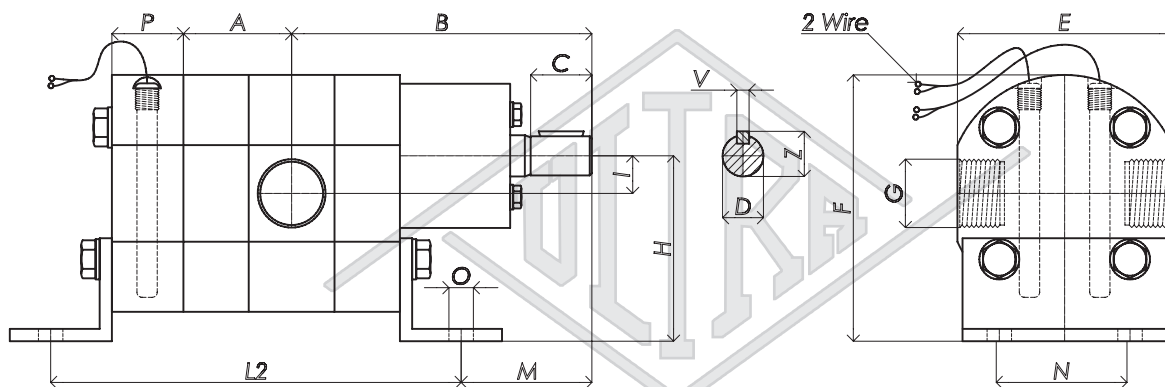
SP-WC



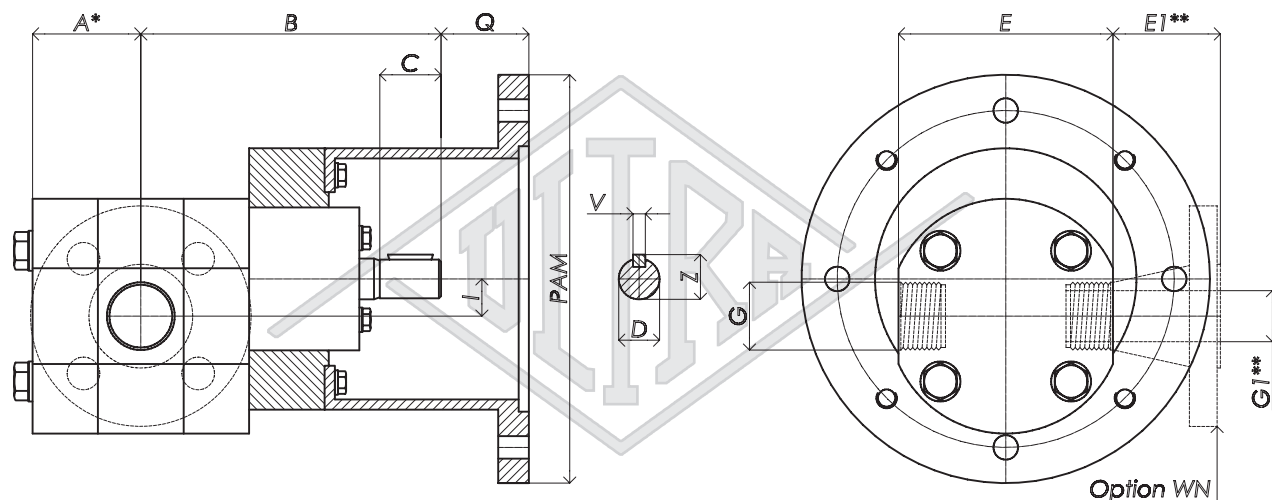
SP-OH



SP-EH







\* if Oil or Electric Heating add P to quote A \*\* if Welded Clamp use E2 and G2

Size	A	B	C	D	E	E1	E2	F	G	G1	G2	H	I	L	L2	M	N	O
1.5	43	94	25	11	65	40	25.6	85	¼"	Dn15	¼"	56	11	94	119	63	44	7
3	53	94												104	129			
4.5	37	120												114	139			
7	44.5	127.5												129	154			
10	40	131	30	14	90	40	25.6	110	½"	Dn15	½"	76	16	130	165	66	56	10
14	45	136				45	25.6		¾"	Dn20	¾"			140	175			
21	54	145												158	193			
28	53	147				52.5	25.6		1"	Dn25	1"			166	201			
35	58	152	35	19	105	52.5	25.6	132	1"	Dn25	1"	90	18	176	211	64	64	12
42	63	157												186	221			
52	72	171												204	244			
72	81	180							1.½"	Dn40	1.½"			222	264			
93	89	188	50	28	160	57.5	25.6	200	1.½"	Dn40	1.½"	132	30	230	270	87	122	14
114	97.5	196.5												255	295			
144	90	207							2"	Dn50	2"			240	280			
200	100	217							2.½"	Dn65	2.½"			260	300			
300	118	235												296	336			

SIZE	P	Q							V	Z
1.5	25	56	56	69	NA	NA	NA	NA	NA	NA
3										
4.5										
7										
10	35	NA	69	69	89	NA	NA	NA	5	16
14										
21										
28										
35	35	NA	NA	68	81	81	105	NA	6	21.5
42										
52										
72										
93	40	NA	NA	NA	83	83	100	151	8	27
114										
144										
200										
300	40	NA	NA	NA	NA	83	100	136	8	31

71 80 90 100 112 132 160  
 LANTERN (B5 or B14) PAM (Type)

### IMPORTANT NOTE

+Chosen dimensions: During the design phase we have tried to use dimensions that can easily match with standard components such as IEC motor dimensions.

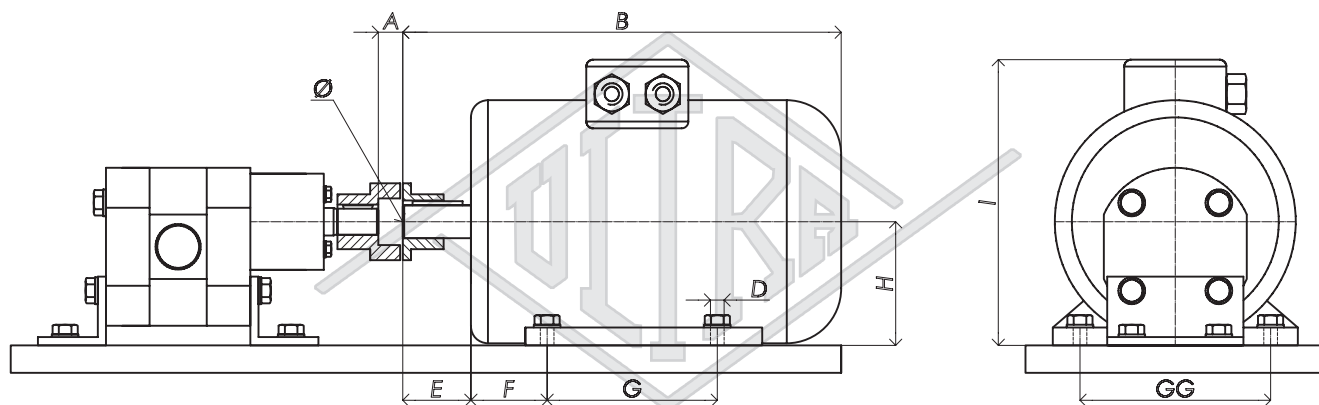
+Overall Dimensions change: While in the Flange configuration, the addition of optional parts, such as valve systems or heating systems, doesn't effect coupling dimensions. In the foot configuration, the overall dimensions may change and positions of anchor bolts may change significantly due to modifications. Please contact our office for detailed drawings in these cases.

+ Disclaimer: Please not that all dimensions contained in this catalog are not binding. Please contact our office for detailed drawings.

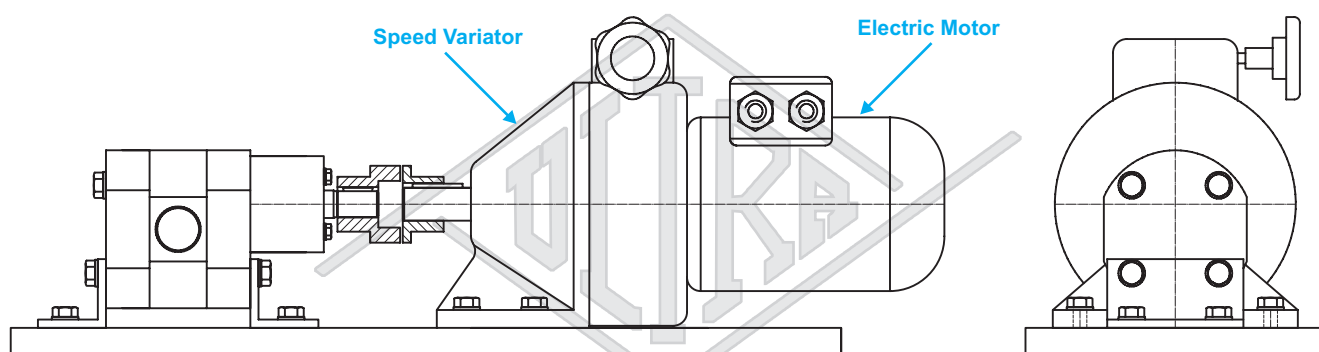
MORE PUMP SIZE »



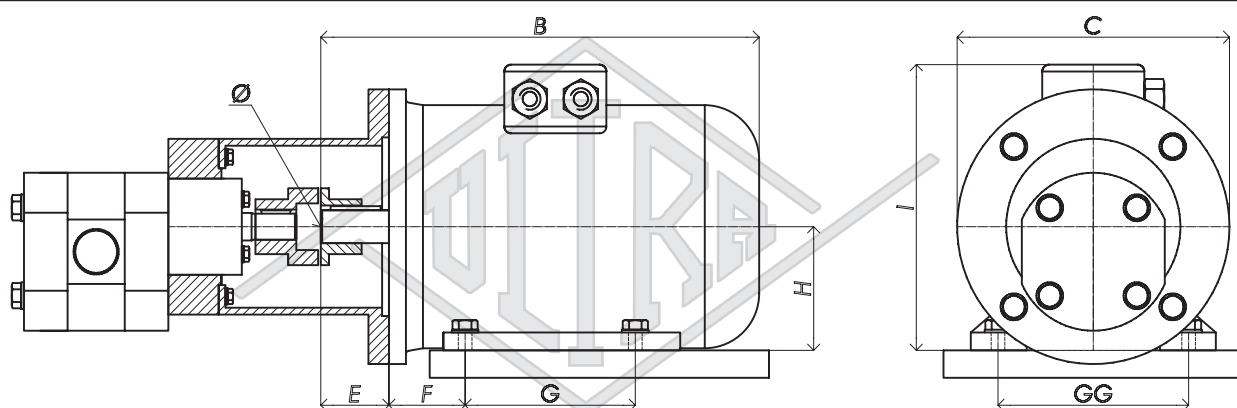
# Complete Unit SP



# Special Complete Unit SP



# Complete Unit SL



SIZE	Gr 71	Gr 80	Gr 90	Gr 100	Gr 112	Gr 132	Gr 160	Pump SIZE			
A	16	16	16	NA	NA	NA	NA	1.5	3	4.5	7
	NA	16	16	18	NA	NA	NA	10	14	21	
	NA	NA	18	18	18	20	NA	28	35	42	
	NA	NA	20	20	20	20	26	52	72	93	114
	NA	NA	NA	20	20	20	26	144	200	300	
B	234	264	302	367	384	483	653				
C	160	200	200	250	250	300	350				
D	7	10	10	12	12	12	15				
E	30	40	50	60	60	80	110				
Ø	14	19	24	28	28	38	42				
F	45	50	56	63	70	89	108				
G	90	100	125	140	140	178	254				
GG	112	125	140	160	190	216	254				
H	71	80	90	100	112	132	160				
I	175	192	208	245	277	312	380				

*Why should I use a lantern instead of a foot mounting configuration?*  
The use of a lantern configuration is used to reduce cost, because it eliminates the baseplate and guard. Additionally it is lighter and reduces shipping costs.

## TORSIONALLY FLEXIBLE COUPLINGS

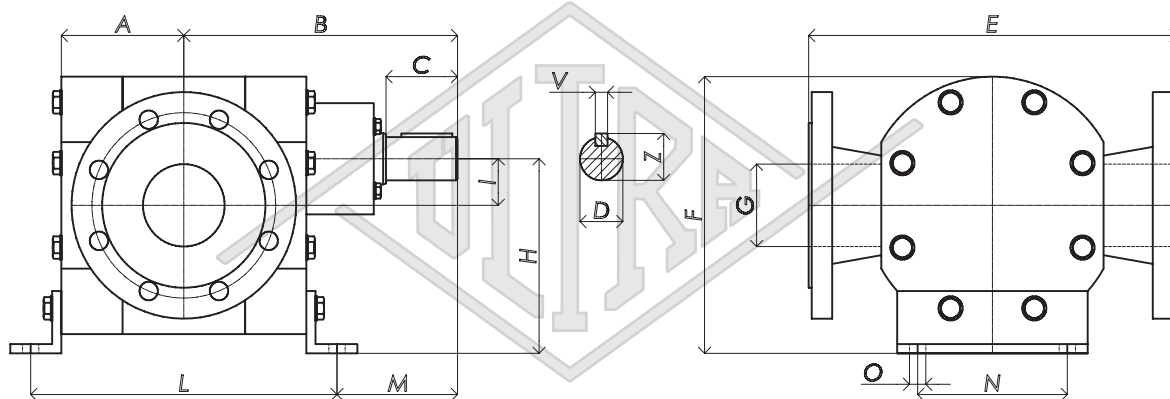
When pump is connected to the electric motor via a coupling, the dimension "A" is based on the size of the coupling model. This is determined by each coupling manufacturer. See manufacturer brochure for details.



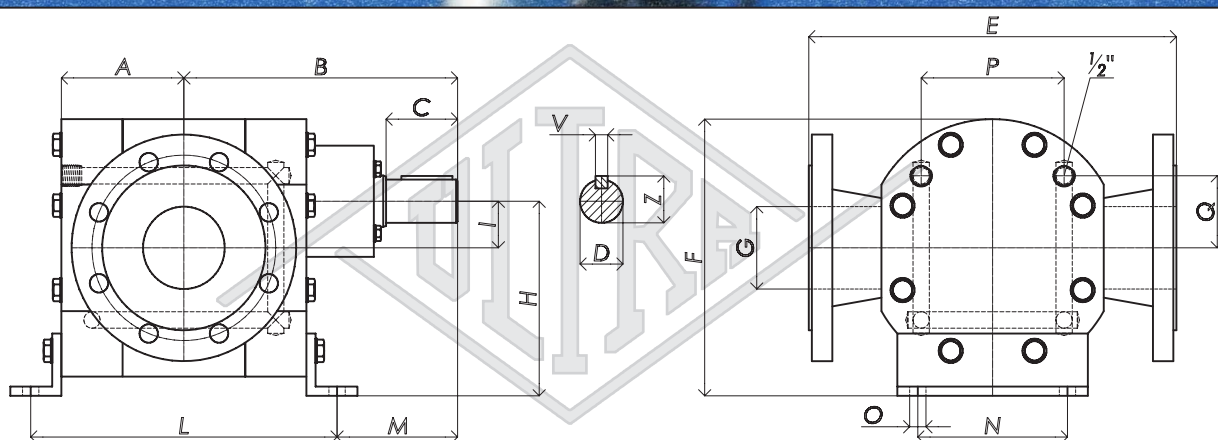


# OUTLINE DRAWINGS

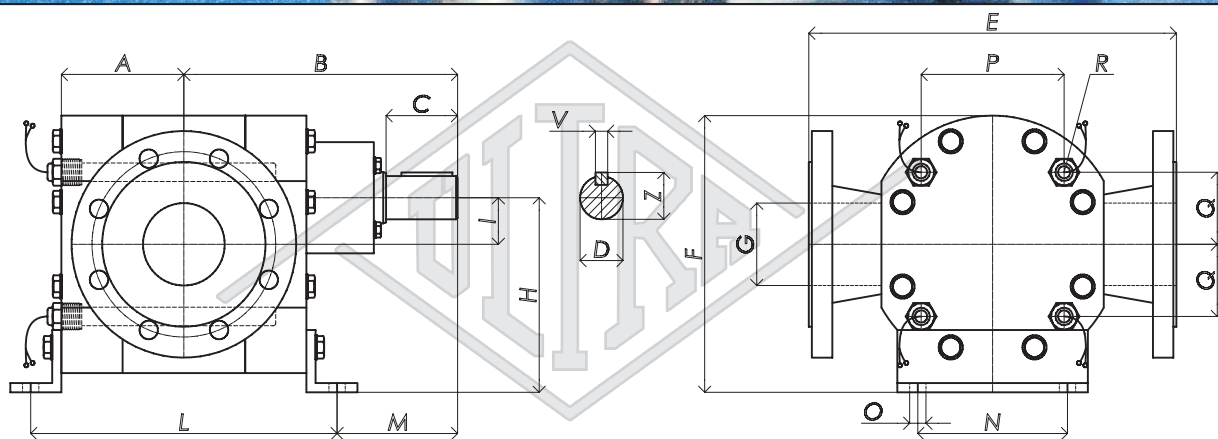
SP-(Standard)



SP-OH



SP-EH



Size	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	V
460	125	257	60	38	310	220	3" Dn80Pn16	150	37	310	102	122	14	118	59	1/2"	10
636	132	280	70	42	370	265	4" Dn100Pn16	184	45	324	118	140	14	140	70	3/4"	12
863	153	301								366							
1330	178	341	80	48	410	275	5" Dn125Pn16	200	49	416	133	150	14	150	70	3/4"	14

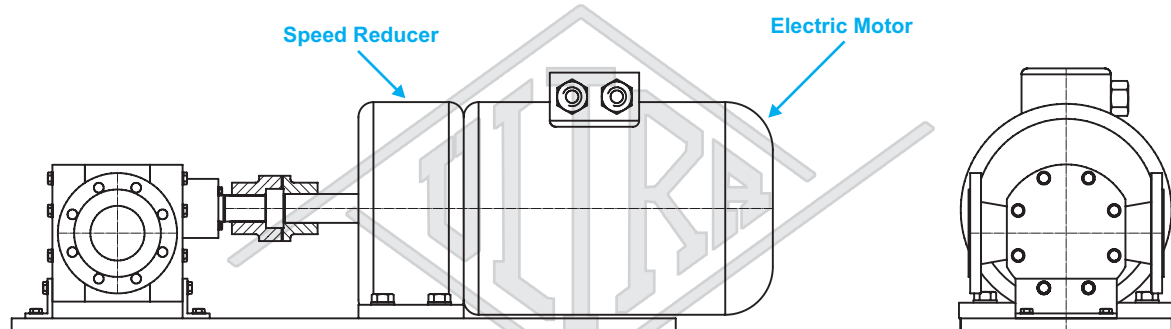
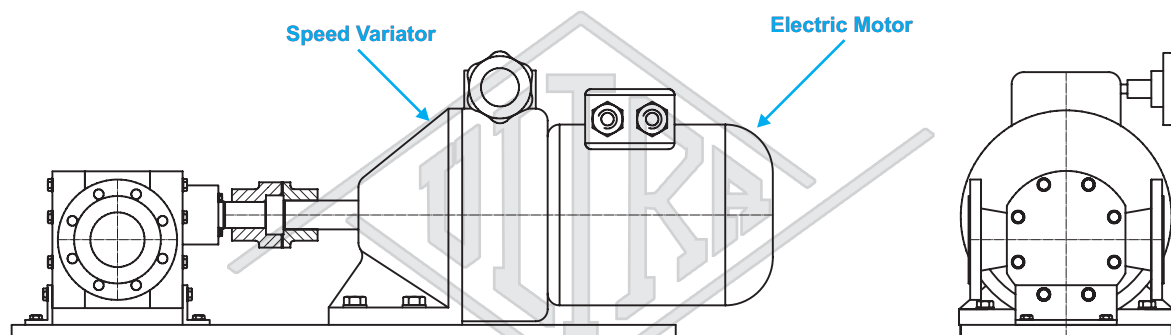
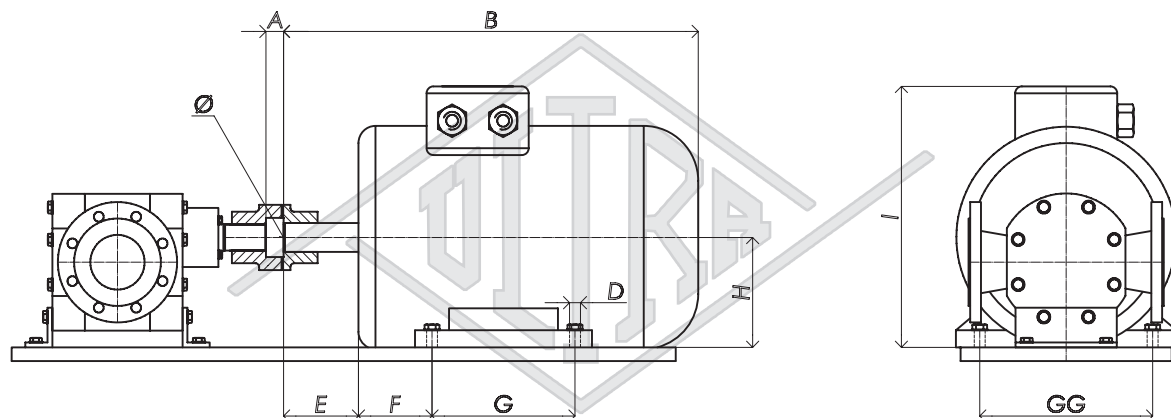
Size	V	Z
460	10	41.5
636	12	45.5
863		
1330	14	52

## IMPORTANT NOTE

+Chosen Dimension: During the design phase, we have tried to use dimensions that easily match with standard components, such as IEC motor dimensions.

+Disclaimer: Please note the dimensions in this catalog are not binding. Please contact our office for detailed drawings.





SIZE	Gr 132	Gr 160	Gr 180	Gr 200	Gr 225	Pump SIZE
A	26	26	26	NA	NA	460
	NA	26	26	26	28	636 863
	NA	26	26	26	28	1330
B	483	653	697	779	817	
C	NA	NA	NA	NA	NA	
D	10	15	15	19	19	
E	80	110	110	110	140	
Ø	38	42	48	55	60	
F	89	108	121	133	179	
G	178	254	279	305	286	
GG	216	254	279	318	356	
H	132	160	180	200	225	
I	312	380	412	457	476	

### TORSIONALLY FLEXIBLE COUPLINGS

Drive unit connected to pump via flexible coupling. Dimension "A" is mainly due by size and model of used coupling: each factory has its own size. Quote "A" dimensions are valid just for foot configuration and are not binding.





# D

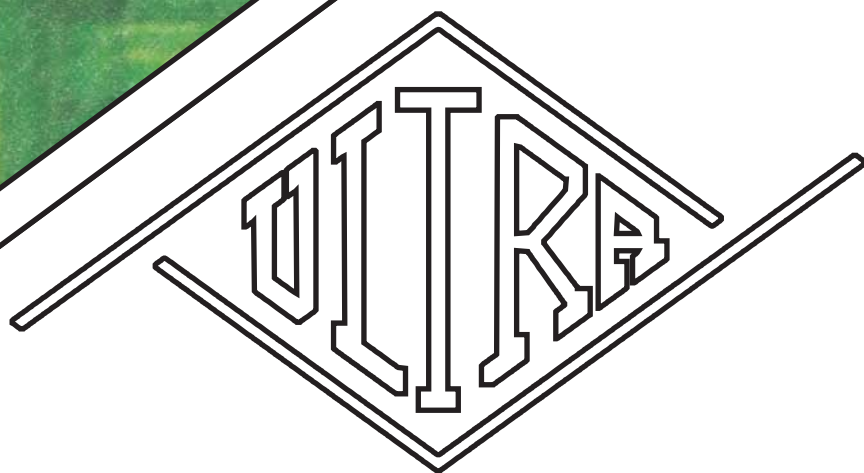
## D系列



### Dosing & Metering Gear Pumps

#### Nitrided Cast Iron (G25)

齿轮泵 (定量+计量)  
渗氮铸铁体



2008

### ULTRA POMPE Srl



## GENERAL FEATURES

**+Application:** D-series gear pumps are precision metering pumps, particularly small and compact, that have been projected for the metering and dosing of great variety of fluids for chemical and plastic industries.

**+Clock Wise Rotation:** D-series gear pumps have only one pumping sense, standard clock wise.

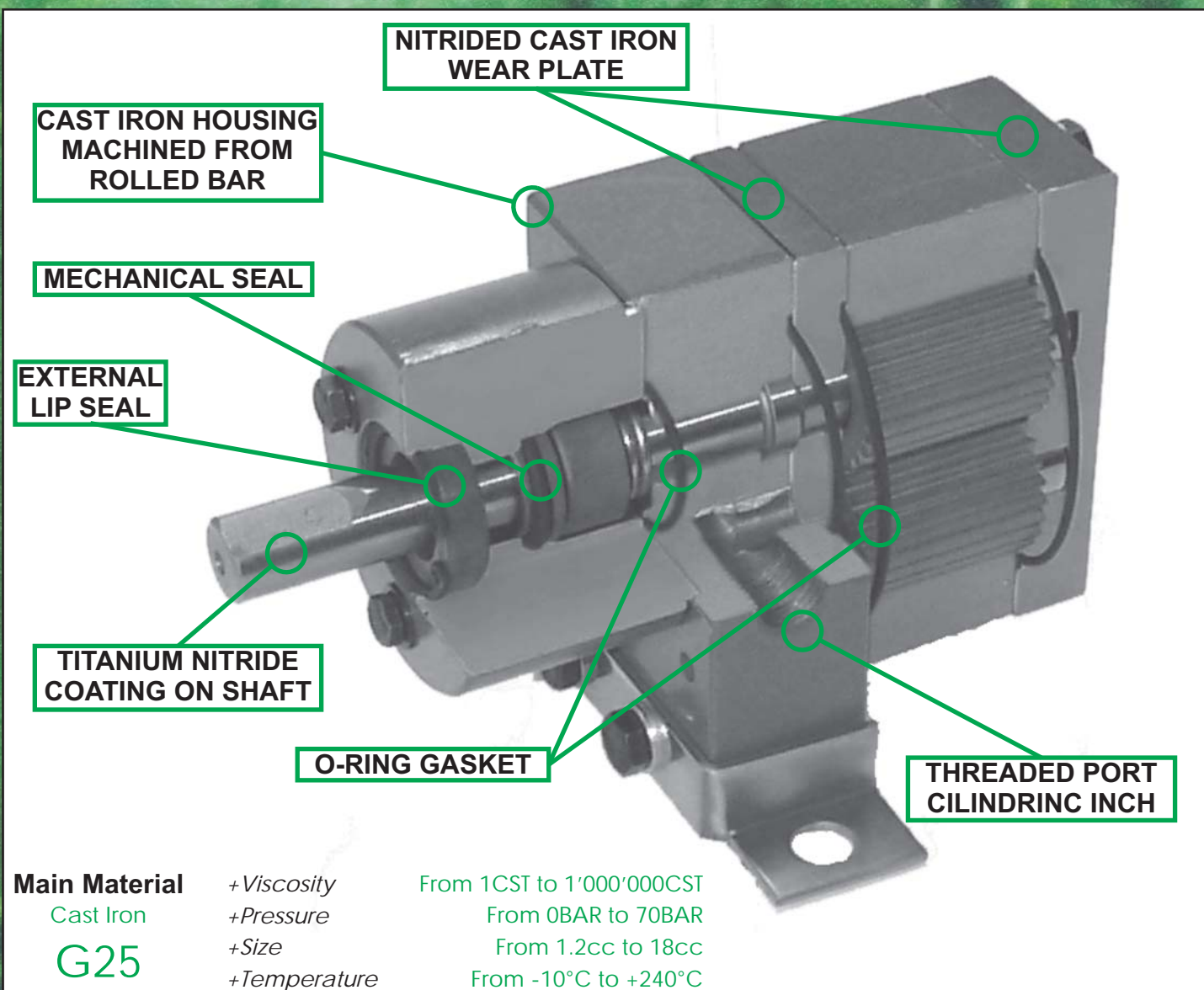
**+Ports:** The D-series inlet and outlet ports are threaded, are of the same diameter and are in-line (share the same axis). The flanges can be screwed.

**+Hardened Materials:** The D-series housing, cover plates and gear shafts are machined from rolled bar forgings as apposed to casting, which insures maximum hardness.

**+ Complete Unit:** The D-series can be supplied in different coupling configurations. Complete units consisting of a base-plate (not necessary for flange mounted motors), flexible coupling with guard and electric motor are available. 8-pole, 6-pole and 4-pole electric motors are available. Explosion proof motors, gear reducers, and variable speed drives are also available on request.

**+Seals and Options:** The D-series uses a simple and versatile mechanical seal design or magnetic coupling system. Heating options include electric or fluid (oil or steam) heating.

**+Custom design:** One strong point of our company is the capacity of develop custom solutions, especially couplings solutions, in few works days. For every custom designs are available section and outline drawing, realised with latest and updated CAD systems. If our standard product can't satisfy you request, we should project for you a special pumps!





## TECHNICAL FEATURES

### Housing (1,4,5)

Cast iron G25

The housing is machined from rolled bar forging that is cut, turned, machined and ground into its' final shape, thus ensuring maximum hardness as apposed to using cast parts.

### Wear plate (2,3)

Nitrided Cast iron G25

Wear plate are machined from rolled-bar that is cut, turned, machined and grinded to final shape. Using parts machined from rolled-bar instead of parts from casting, guarantee the maximum hardness allowed by the material. To ensure extra resistance to wear, the plates are *Nitrated*.

### Gear & Shaft (6,7,8,9)

Steel 39NiCrMo3+TiN coating

Gear and shaft are machined from rolled-bar that is cut, turned, toothed and grinded to final shape. Using parts machined from rolled-bar instead of parts from casting, guarantee the maximum hardness allowed by the material. As standard, shafts receive extra resistance to wear and decreased friction via a *Titanium Nitride coating* on all surface.

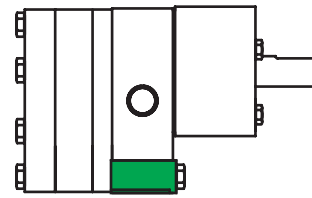
### Sealing Elements (10,11,12)

FPM

To prevent leakage, any parts of the pump housing match the other with O-Rings seated between the two faces to guarantee sealing also in presence of low viscosity medium. Note that on D18 seal cover are used Plane gasket (13). According to API610 and PLAN13, shaft seal is ensured by one external lip seal and one mechanical seal.

D

Foot



The pump is provided with feet for mounting on a baseplate. Projected to be coupled to drive units form B3.

+Foot

Steel

## NITRIDING PROCESS

Objective of nitriding is to increase the hardness of the component's surface by enriching it with the diffusion of nitrogen atoms into the metal's surface. Nitrogen is a colorless, odorless, tasteless and inert diatomic gas, constituting 78.1% by volume of Earth's atmosphere.

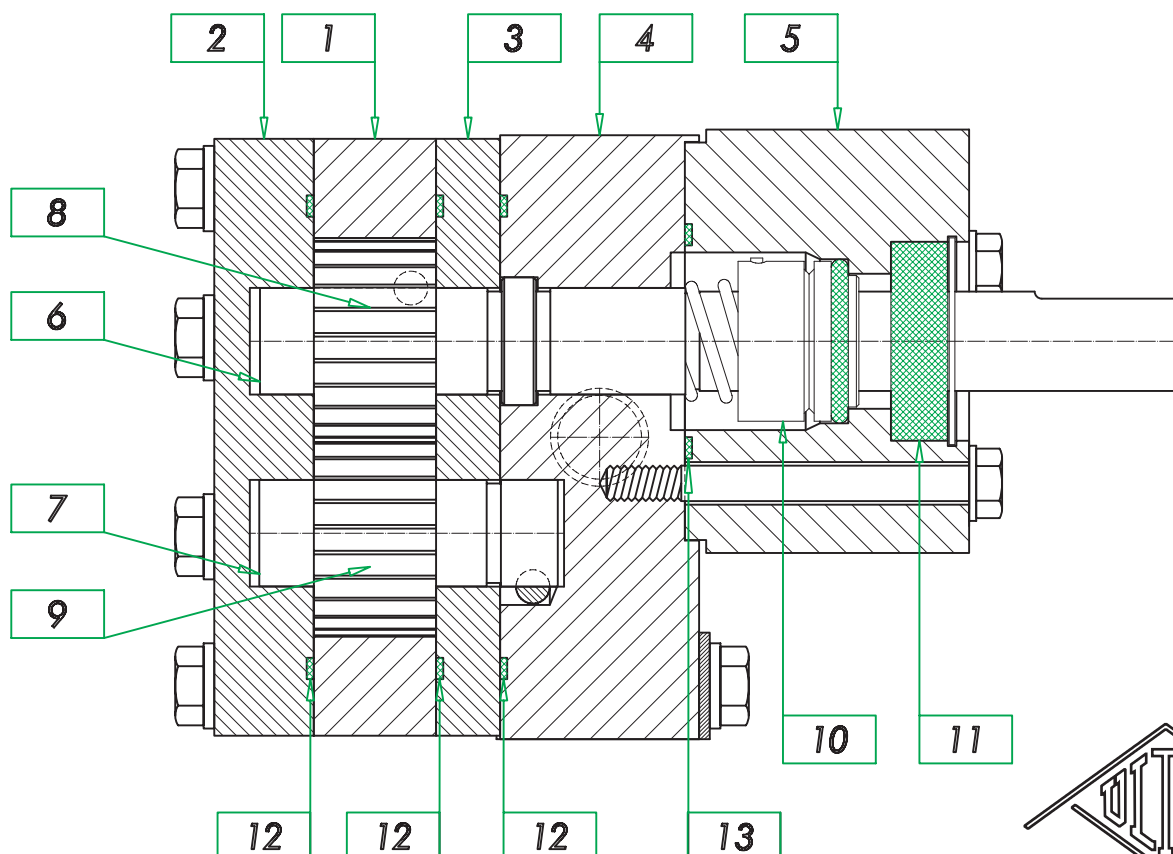
## TITANIUM NITRIDE (TiN) COATING

Titanium Nitride (TiN) is the most common hard coating in use today. TiN has an excellent combination of performance properties as:

- +Wear resistance and extreme hardness, is harder than carbide.
- +Maintaining sharp edges or corners.
- +Prevent galling, and decreases friction.
- +Resistant to nearly all chemicals and also withstands high temperatures.



TiN coated  
Gear & Shaft





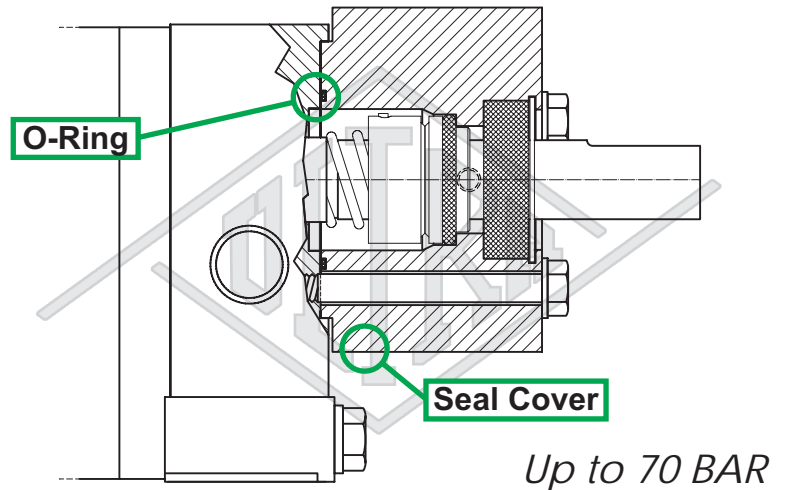
# SHAFT SEAL

## MECHANICAL SEAL (Standard)

**V** Sealing elements made of **FPM**

**Features:** According to API610 and PLAN13, external lip seal and mechanical seal. **SOLID CORROSION RESISTANT CARBIDES** and **SILICON CARBIDES** mechanical seals are for general uses, such as food, chemical product and so on. Particularly versatile and of easy mounting can be used when pumped fluids require the use of anticorrosion materials or work temperature is up to 240°C.

Maximum prussure: 70 BAR  
Temperature: -10/+240°C  
Work Sense: Clock wise

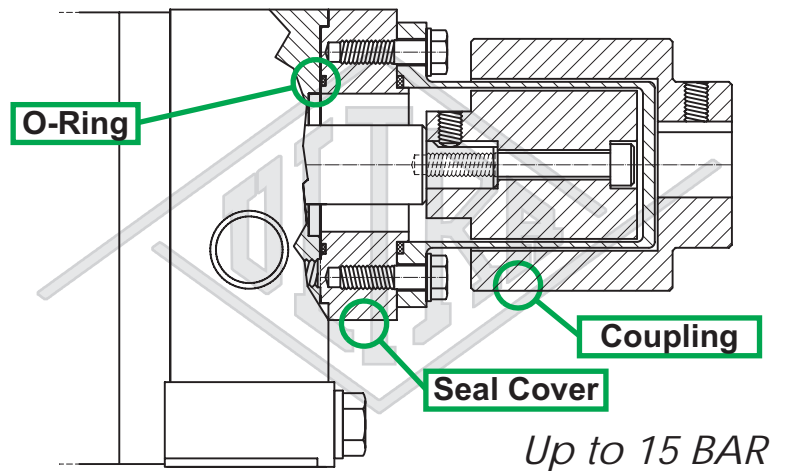


## MAGNETIC COUPLING (Optional)

**MV** Sealing elements made of **FPM**

**Features:** The standard mechanical seal can be replaced by a magnetic coupling system that definitively eliminates seal leakage and wear in particularly harsh conditions. Magnetic coupling are synchronous coupling that transmits torque through magnetic forces between the internal and external rotor, but ensures a hermetic separation of the drive and the driven side via **STAINLESS STEEL** bell.

Maximum prussure: 15 BAR  
Temperature: -30/+240°C  
Work Sense: Bidirectional

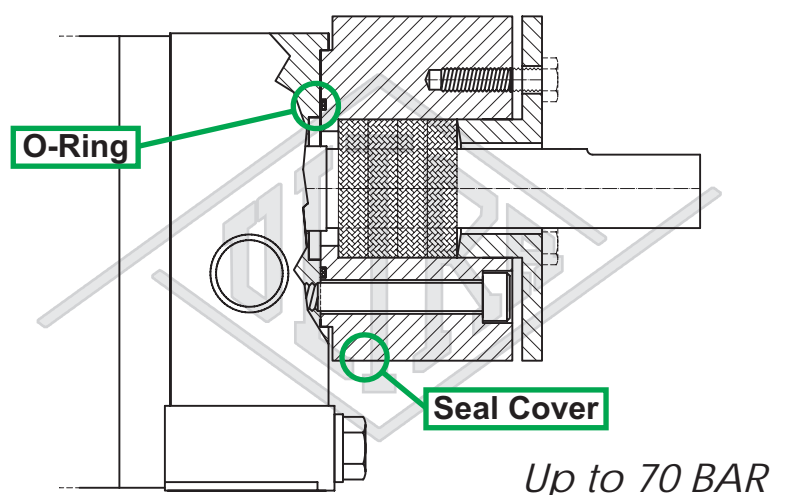


## PACKED GLAND SEAL (Optional)

**DV** Sealing elements made of **FPM**

**Features:** The packed gland is composed of 4 packing gland rings seated on the seal cover. This type of seal requires a high level of maintenance and is therefore discouraged in pump applications. Ultra strongly recommends the use of mechanical seals instead.

Maximum prussure: 70 BAR  
Temperature: -10/+240°C  
Work Sense: Bidirectional



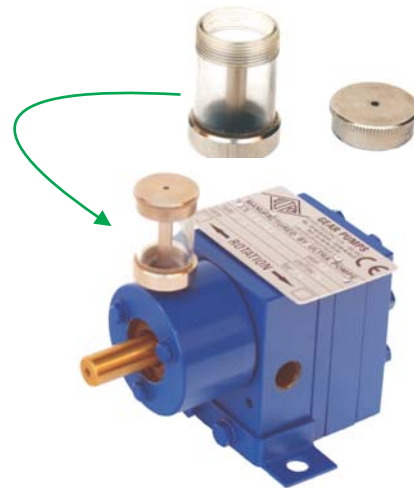
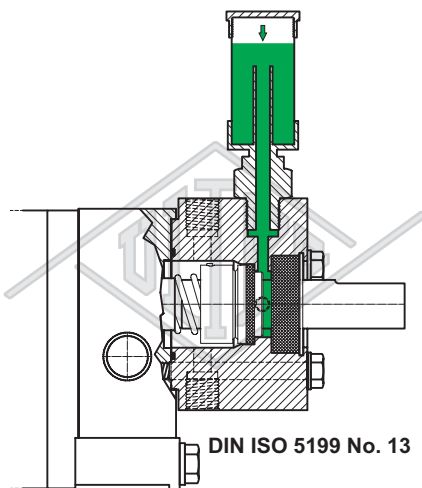


# OPTIONAL

## Quench dead end system

The pump is supplied with a transparent and ventilated reservoir positioned directly above the seal casing. Used when pumped fluid reacts with atmospheric oxygen, the quench medium stops the leakage making contact with the atmosphere. Quench applies a pressure less external fluid to mechanical seal's faces on the atmosphere side.

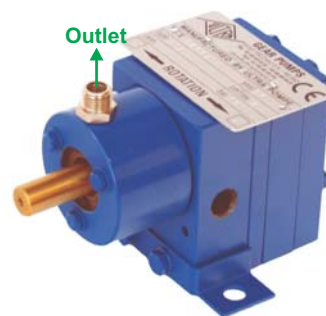
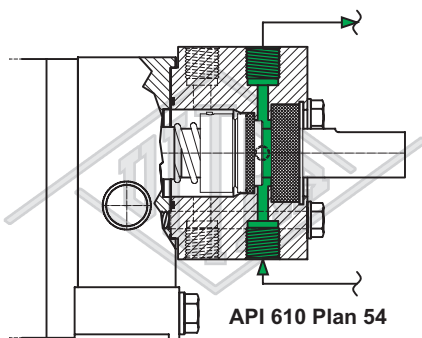
+Q



## Plan 54 circulation system

The pump is supplied with two threaded holes on a seal casing that allows the circulation of a quenching medium from an external system. The system absorbs the mechanical seal leakage by the quenching medium.

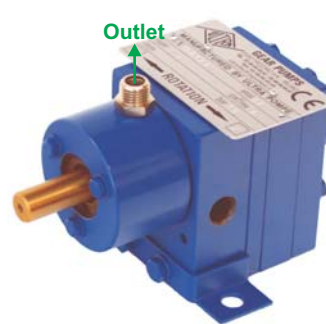
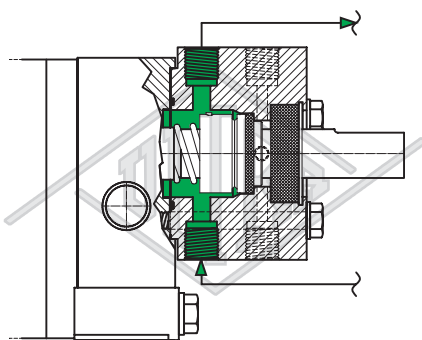
+P



## Flushing system

The pump is supplied with flushing holes. The seal washing can be ensured by a "CIP cycle," that through internal channels and with an appropriate solvent pumped from an external system, removes pumped fluid residue.

+F

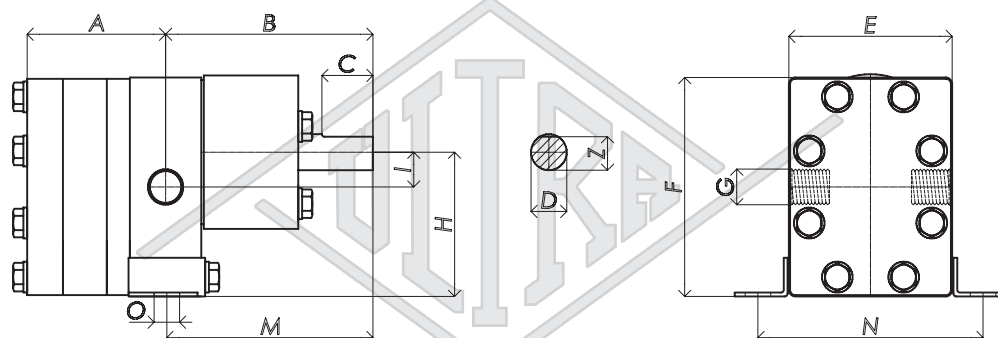


Many combinations of options are available limited by the pump material and pump series. Note that some options change the envelope dimensions of the pump. Options can be combined, such as a quench system and oil heating system.



# OUTLINE DRAWINGS

D-(Standard)



Size	cc/rev	pressure bar	A	B	C	D	E	F	G	H	I	M	N	O	Z
1.2	1.2	15/70	53	80	25	14	64	85	1/4"	56	13	80	85	9	13
3	3		65												
6	6		83												
18	18		50	132	25	14	96	146	1/2"	102	24	80	135	12	13

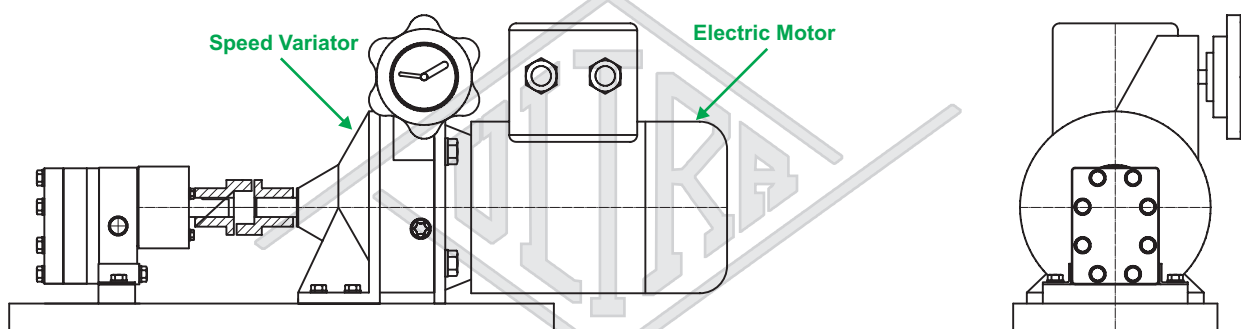
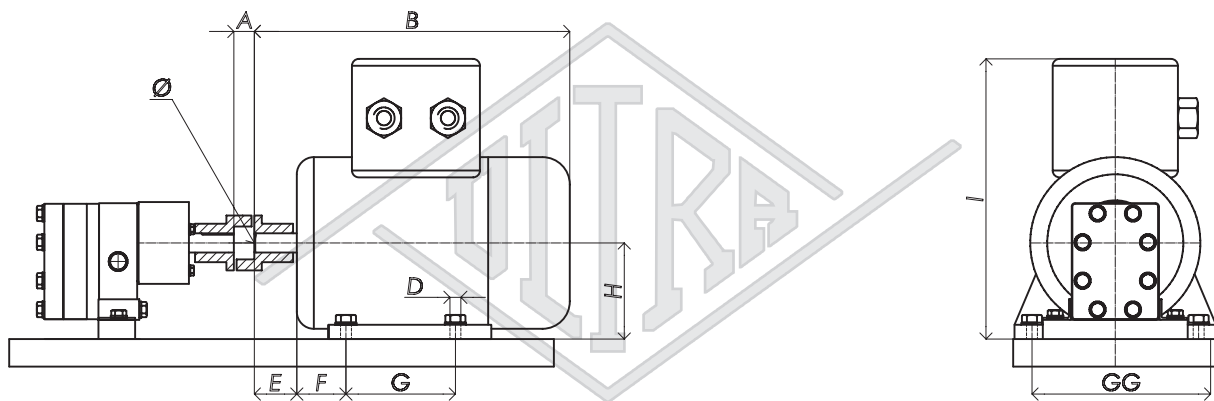
## IMPORTANT NOTE

+Chosen dimensions: During the design phase we have tried to use dimensions that can easily match with standard components such as IEC motor dimensions.

+ Disclaimer: Please not that all dimensions contained in this catalog are not binding. Please contact our office for detailed drawings.







SIZE	Gr 56	Gr 63	Gr 71	Gr 80	Gr 90	Gr 100
A	16	16	16	16	16	18
B	198	206	234	264	302	367
D	6	7	7	10	10	12
E	20	23	30	40	50	60
Ø	9	11	14	19	24	28
F	36	40	45	50	56	63
G	71	80	90	100	125	140
GG	90	100	112	125	140	160
H	56	63	71	80	90	100
I	155	162	175	192	208	245

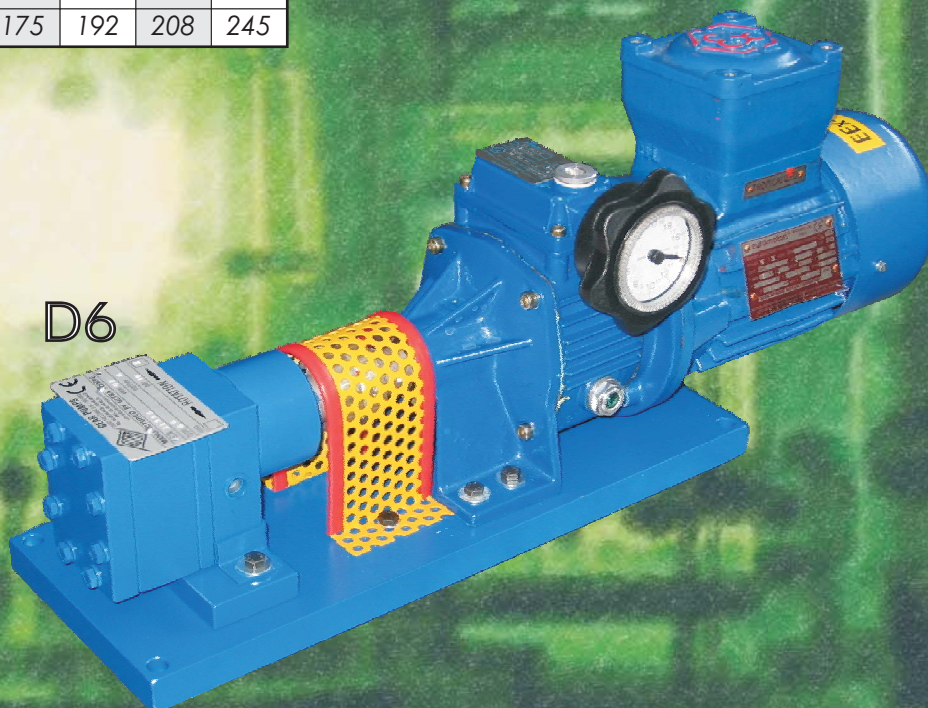
### TORSIONALLY FLEXIBLE COUPLINGS

When pump is connected to the electric motor via a coupling, the dimension "A" is based on the size of the coupling model.

This is determined by each coupling manufacturer. See manufacturer brochure for details.



D6



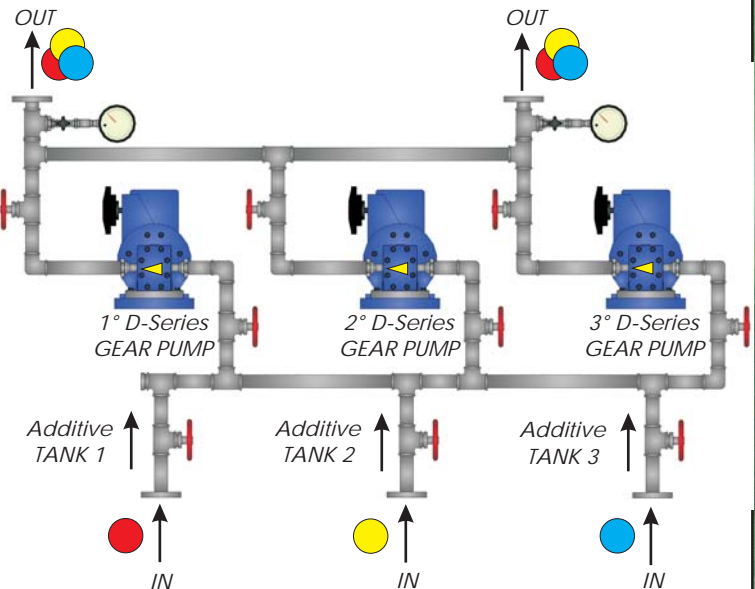
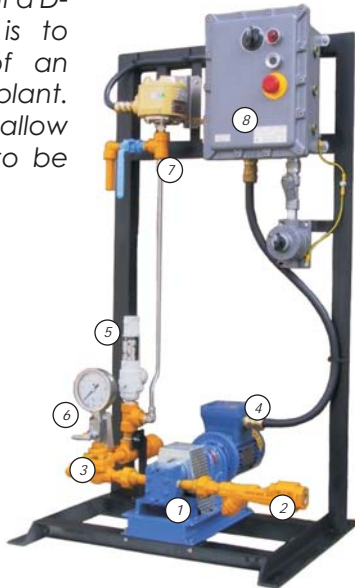


# APPLICATIONS

## Installation on Ink/Paint Metering Plant (D6V)

One of the best use of a D-series gear pump is to control the flow of an additive in a fuel plant. The small dimension allow this type of pump to be mounted in battery.

- 1-ULTRA gear pump
- 2-Suction line
- 3-Discharge line
- 4-Motor
- 5-Relief valve
- 6-Pressure gauge
- 7-Pressure switch
- 8-Control unit

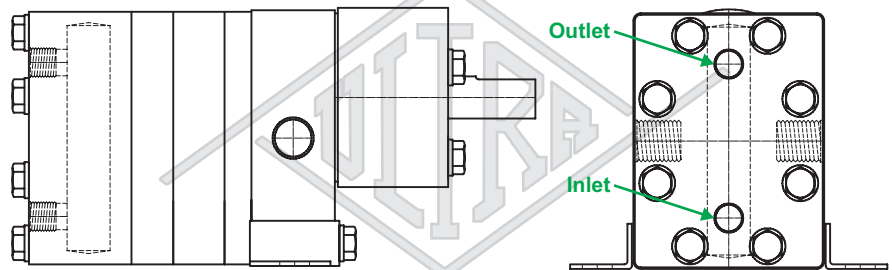


# CUSTOM HEATING OPTION

## Oil Heating system

The pump is supplied with an integrated heating system to provide the heating of the entire pump with hot oil or steam. Heating fluid is pumped by an external pump in the internal channels of the gear pump.

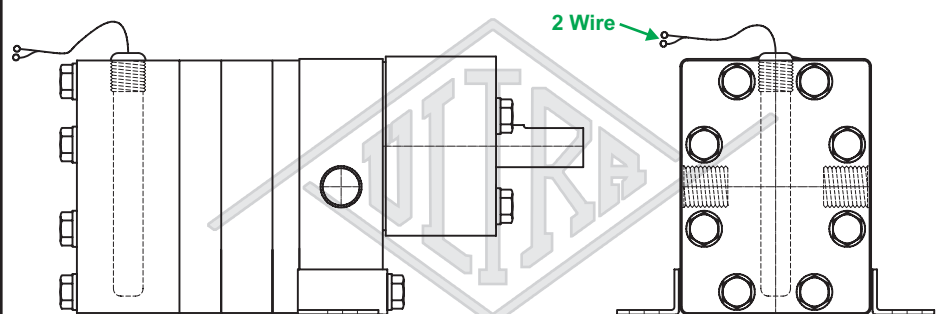
+OH



## Electric Heating system

The pump is supplied with an integrated electric cartridge heating system to provide the heating of the entire pump. PT100 Probes are probes which show a change in resistance with a change of temperature.

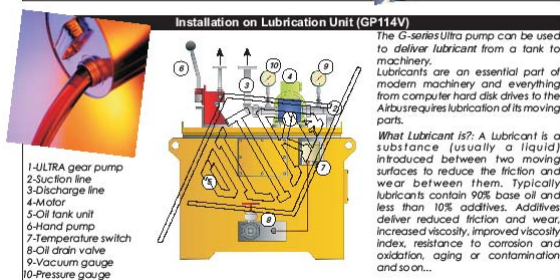
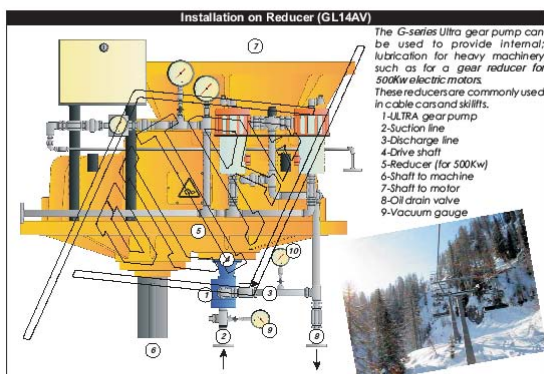
+EH



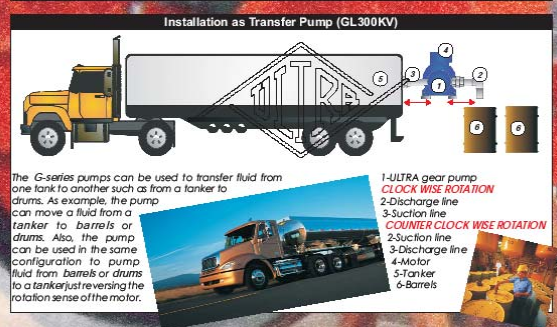
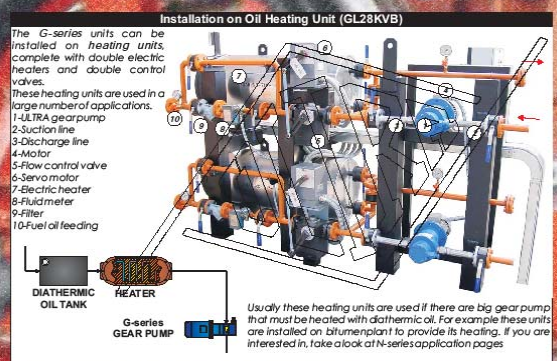


## G 系列泵应用实例

# APPLICATIONS

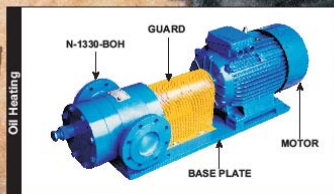
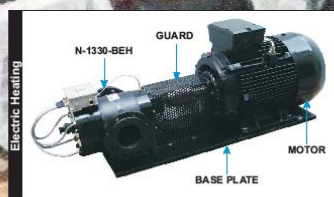
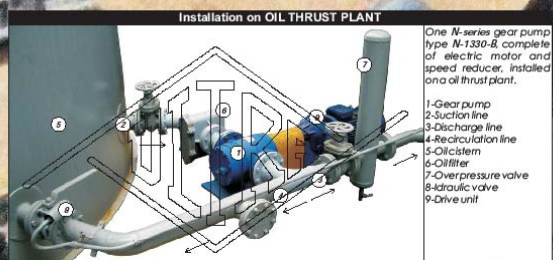


# APPLICATIONS

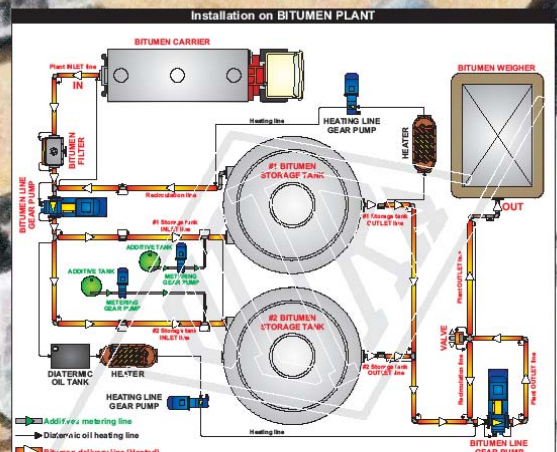


## N系列泵应用示例

# APPLICATIONS



# APPLICATIONS



An Ultra gear pump can be used in multiple ways in a bitumen plant. In the drawing shown above, two gear pumps of type N-1330-B0H are used as metering pumps for the bitumen and the G-series gear pumps provide the heating of the plant. An additional metering system is added on each storage tank inlet line. The metering operation is driven by two small G-series gear pumps. Note that an electric heating can be used instead of an oil heating design.

What bitumen is? Bitumen is a mixture of organic liquids that are highly viscous, black, sticky, and composed primarily of highly condensed polycyclic aromatic hydrocarbons. Bitumen is the residual (bottom) fraction obtained by fractional distillation of crude oil. Bitumen is primarily used for paving roads but also for waterproof boats, and even as a coating for buildings. The word "asphalt" or "asphalt cement" refers to a mixture of mineral aggregate and bitumen and is the generic term for road surfaces.





# APPLICATIONS

## General note on Stainless Steel pumps

The S-series Ultra gear pump is usually installed in chemical plants, but is also suitable to be used in the food industry to pump fruit syrup, marmalade, food oil and other such products. Some plants require that pumps be "Clean in Place" or "CIP". This is achieved by a channel system internal to the pump with the use of solvents that remove the pumped fluid from the internal housing, bearings and seals.

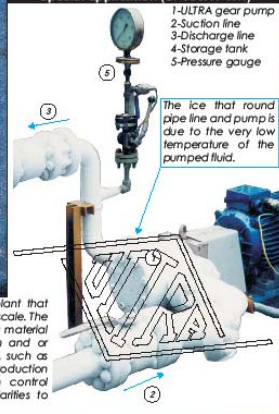
**What is Stainless Steel?** In metallurgy, stainless steel is defined as an iron-carbon alloy with a minimum of 10.5% chromium content. The name originates from the fact that stainless steel does not stain, corrode or rust as easily as ordinary steel. This material is also called corrosion resistant steel when it is not detailed exactly to its alloy type and grade, particularly in the aviation industry. As such, there are now different and easily accessible grades and surface finishes of stainless steel to suit the environment to which the material will be subjected to in its lifetime.



SP460V WN



Special application (SP636KT WN)



**What is a chemical plant?** It is an industrial process plant that manufactures or processes chemicals, usually on a large scale. The general objective of a chemical plant is to create new material wealth via the chemical or biological transformation and/or separation of materials. Other kinds of industrial plants, such as polymer, pharmaceutical, food, some beverage production facilities, power plants, oil refineries and pollution control equipment use many technologies which have similarities to chemical plant technology such as fluid systems.

# APPLICATIONS

## Additional information on MAGNETIC COUPLING

The coupling consists of an external and an internal rotor. The external rotor has permanent magnets on the inner side and the internal rotor has them on the outside. Magnets of the internal rotor are encapsulated through a magnetic cover that is impervious to fluids. It is only when the rotors are twisted that the magnetic field lines are moved, that the torque is transmitted through the air gap. Then there is a synchronous operation under a constant torsion angle.

If the maximum coupling torque and the maximum torsion angle are exceeded, the power transmission is interrupted. So magnetic coupling offers an overload protection function of the drive train. After removing the cause of the overload both rotors can be synchronised again and operation is resumed.



SP300V WN, SP42V WN, SP14V WN and SP3V WN



# APPLICATIONS

SP3V WN



SP14V WN



SP42V WN



SP114V WN



SP460V WN



# APPLICATIONS

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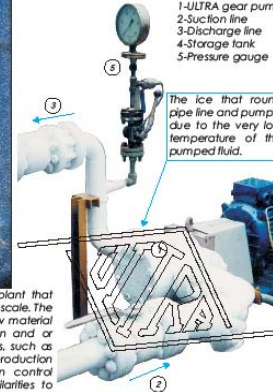
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## 内啮合齿轮泵-紧凑型 (经济型)

意大利 PMPO 公司专业生产内啮合微型齿轮泵，体积小，可正反转，噪音极低，寿命很长。

应用于液压动力单元，润滑，流体传输，腔体排液，油压

适应介质：液压油，润滑油，汽油，柴油，多元醇和含异氰酸酯（例如聚氨酯的生产等）

浸液式安装。工厂可以根据用户要求定制产品，

转速 3000rpm 时 压力达到 120bar，转速 1450rpm 时 压力达到 100bar，

型号	排量 cc/rev	工作压力 bar	转速 rpm	泵体尺寸(直径 x 厚度)mm
微型 泵				
YPOM-**014**	0.27	120	3000	59 x ( 20-29)
YPOM-**025**	0.49	120	3000	59 x (22-30)
YPOM-**027**	0.52	120	3000	59 x (22-30)
YPOM-**031**	0.60	120	3000	59 x (22-30)
YPOM-**037**	0.72	120	3000	59 x (23-31)
YPOM-**046**	0.90	120	3000	59 x ( 24-32)
YPOM-**064**	1.25	120	3000	59 x (26-35)
YPOM-**100**	1.96	120	3000	59 x (29-37)
高速-低压 泵				
YPOM-Ferrari	2.74	20	7000	59 x 23
YPOM-Ferrari20	4.07	20	7000	59 x 30
YPOM-GRAZ280	5.48	20	7000	59 x 37
YPOM-GRAZ350	6.82	20	7000	59 x 44
YPOM-GRAZ420	8.15	20	7000	59 x 50.6

泵结构图/泵实物图 / 电机泵组图 / 迷你单元图 /

**详细说明书请咨询上海华歌实业有限公司**



泵 原理



SAB7



CAE7



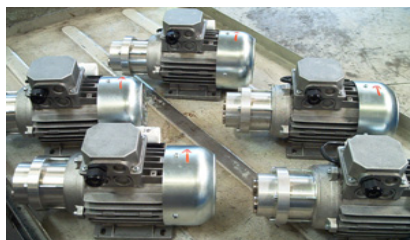
ARP1



CA1



低压高速泵



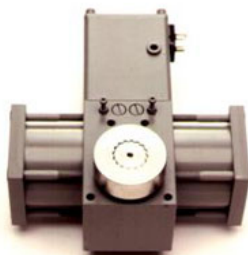
电机泵组



变频电机泵组



电机泵组



摆动执行器



迷你动力单元



## 内摆线齿轮油泵

YEAVEN 内摆线齿轮油泵，产地韩国，主要应用于润滑行业，油循环，燃料输送等

### 性能表

型号	排量 cc/rev	使用压力 bar	转速范围 rpm	重量 kg	标准配置电机 kw
YGP-R11S(V)	1.6	5	2000	0.3(0.5)	0.1-0.2
YGP-R12S(V)	2.5	5	2000	0.3(0.5)	0.1-0.2
YGP-R13S(V)	4.5	5	2000	0.8(1.0)	0.2
YGP-R204(V)	4.2	30	3000	3.2 (3.6)	0.4-0.75-1.5
YGP-R206(V)	6.0	30	3000	3.2 (3.6)	0.4-0.75-1.5
YGP-R208(V)	8.4	30	2500	3.3(3.7)	0.4-0.75-1.5
YGP-R210(V)	10.2	30	2500	3.4(3.8)	0.4-0.75-1.5
YGP-R212(V)	12	30	2000	3.6(4.0)	0.4-0.75-1.5
YGP-R216(V)	16.2	30	1800	3.8(4.2)	0.75-1.5
YGP-R220(V)	19.8	30	1800	4.1(4.5)	0.75-1.5
YGP-R320(F)(V)	26	30	1800	15.4	1.5-2.2
YGP-R330(F)(V)	39	30	1800	15.5	1.5-2.2
YGP-R340(F)(V)	52	30	1800	15.5	1.5-2.2
YGP-R420(V)	90	5	1800	44	2.2-3.7
YGP-R440(V)	108	3	1200	45	2.2-3.7

介质粘度:20-1000cst ,

适用介质温度: NBR(标准): 80℃ ; KFM(可选项): 180℃

备注: R2\*\*/R3\*\*系列泵匹配压力阀压力选择范围: 1(0-4bar) ; 2(4-8bar) ; 3 (6-15bar) ; 4(12-30bar)

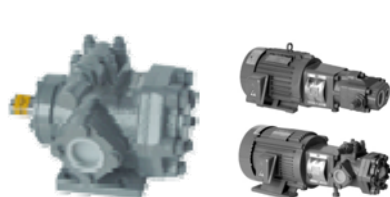
R2 系列泵可以提供双联泵



R11-R12-R13 及匹配电机图



R204—R220 及匹配电机图



R320-R340 及匹配电机图



R420-R440



R204—R220 双泵及匹配电机图



## seim: 三螺杆泵 双螺杆泵 流量计 安全阀

seim位于意大利米兰，有35年以上的螺杆泵生产历史，是世界上最主要的螺杆泵生产商，每年生产50000台以上，广泛应用于电力工业，石油化工，造纸，钢铁，润滑，液压系统等，同时根据用户要求可以提供符合API676和各种船舶证书标准的螺杆泵，产品100%出厂检测。

### SEIM 产品列表

参数 型号	输出流量 (L/min)	输出压力 (bar)	介质粘度 (cst)	吸入压力 (bar)	内置安全 阀	推荐行业	泵体材料	安装形式	页码
YPQJ 泵	3~38	~ 10	10~400	-0.2 ~ +1	默认带 阀，可按 要求不 带。	润滑、动 力、循环	铝合金	水平/竖直 安装	
YPDA 泵	21~160	~10	20~400 ④	-0.4 ~ +2	带阀	润滑、循 环	铝合金	水平/竖直 安装	
YPAK 泵	80~460	~16	20~400 ④	-0.4 ~ +2	带阀	润滑、循 环	铝合金	水平/竖直 安装	
YPA 泵	10~850	~50 (最高 75bar)	10~400	①	不带阀	润滑、动 力、循环	铝合金	只能浸油 安装	
YPXF 泵	27~4000	~30 (最高 40bar) ②	10~400 ④	-0.5 ~ +10	默认不 带阀，可 按要求 带。	润滑、动 力、循环、 燃油输送	铸铁/可 提供铸 钢	水平/竖直 安装和 PTO 联接	
YPZ 泵	50 ~ 5400	~16	10~400 ④	-0.5 ~ +10	默认带 阀，可按 要求不 带。	润滑、动 力、循环、 燃油输送	铸铁	水平/竖直 安装和 PTO 联接	
YPZD 泵	2000~9000	~16 ③	1.6~5000 ③	-0.5 ~ +10	默认带 阀，可按 要求不 带。	润滑、动 力、循环、 燃油输送	铸铁	水平/竖直 安装和 PTO 联接	
YPOF 泵	20~600	~120	10~400	-0.5 ~ +10	不带阀	动力、燃 油输送	铝合金 泵体+铸 铁法兰	水平/竖直 安装	
YVPMI/YVV P 安全阀	20-10000	2~320	10-500			润滑、动 力、循环、 燃油输送	铸铁	法兰/管式 安装	
YMPV 流量 计	0.9-900	~400	1~5000			润滑、动 力、循环、 燃油输送	碳钢	管式安装	

备注：1、更详细的产品参数请查阅产品样本。对于超出图表样本的数据，可联系 上海华歌实业有限公司 销售部。

2、SEIM 公司能按客户要求提供超出产品样本数据的螺杆泵，如有需要请联系上海华歌实业有限公司销售部。

3、标记①只能浸油安装；标记②YPXF032~YPXF072 最高压力 30bar，特殊要求可到 40bar，YPXF083~YPXF156 压力可到 16bar。标记③使用介质粘度为（10~5000）cSt 时，输出压力~16bar，使用介质粘度为（1.6~10）cSt 时，输出压力~8bar。标记④按要求可适用粘度（1.2~5000）cSt。

4、SEIM 公司保留对产品外形尺寸和技术参数修改的权利。



## RONZIO 液压齿轮泵,意大利

01Z 系列: 排量范围 1.1-10.5cc/rev , 连续工作压力 300bar, 峰值压力 360bar, 全铝/前后盖铸铁  
 02Z 系列: 排量范围 4.4-31.4cc/rev , 连续工作压力 300bar, 峰值压力 360bar, 铝泵体/前后盖铸铁  
 03Z 系列: 排量范围 20-90cc/rev , 连续工作压力 280bar, 峰值压力 310bar, 铝泵体/前后盖铸铁  
 02W 系列: 排量范围 4.4-39cc/rev , 连续工作压力 300bar, 峰值压力 350bar, 全铸铁  
 03W 系列: 排量范围 15.5-90cc/rev , 连续工作压力 300bar, 峰值压力 350bar, 全铸铁  
 04W 系列: 排量范围 72-250cc/rev , 连续工作压力 270bar, 峰值压力 320bar, 全铸铁  
 单/双向旋转, 单联泵, 双联泵, 三联泵, 四联泵



01Z 系列



02Z 系列



03Z 系列



02W 系列



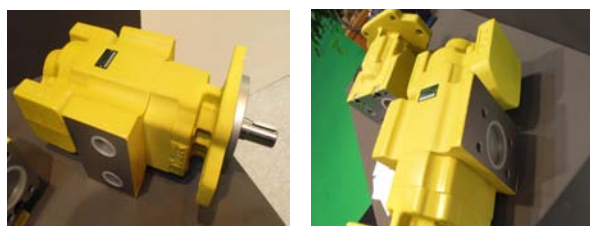
03W 系列



03W 系列双联



04W 系列



03-04W 系列



NP 系列



PN-PD 系列



马达支撑



倾卸阀-自卸车辆用



同步分流阀



## 超高压径向柱塞泵

意大利 HP 公司专业生产超高压径向柱塞泵有 60 年的历史经验。

连续最高工作压力 800bar，峰值压力 850bar；排量：0.3 – 14.8 cc/rev

匹配不同排量齿轮泵可以组合成高低压泵组

应用于高压油压系统，润滑

转速范围：300-1800rpm，推荐使用 900-1500rpm

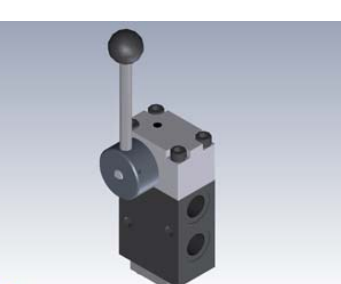
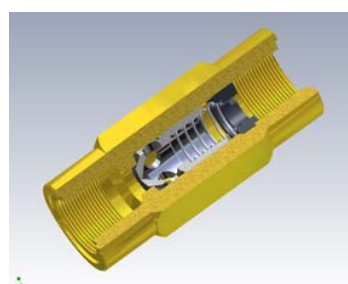
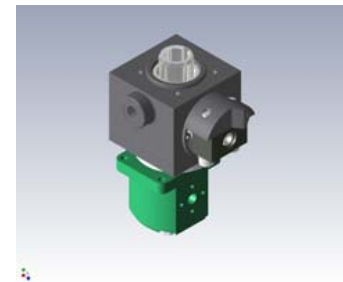
流体：矿物油 DIN51524 和 51525，最佳工作粘度：5-400cst，用于合成介质或制动液等，请咨询

环境温度：-10 - +70℃，流体温度 30 - 50℃

流体过滤精度：符合 ISO19/16 标准，建议  $\leq 60\mu$

泵进口压力：0.01 – 0.3bar

详细说明书请咨询上海华歌实业有限公司





# 变量叶片泵（常规产品现货）



意大利 berarma 公司是最专业的变量叶片泵生产商。具有 40 年以上的生产经验。能够提供最全面的变量叶片泵，目前为多家知名液压品牌变量叶片泵所贴牌使用，是真正的幕后生产商。广泛应用于机床，工业液压设备，工程机械等。

排量： 3.1-105.5cc/rev

压力等级： 100bar, 120bar , 160bar , 250 bar 等多个压力系列，并正在开发 320bar 系列

多种变量控制形式：恒压变量 ，恒功率变量，负载敏感变量，比例压力-比例流量变量等

介质：液压油 ，矿物油 ，使用水基介质请咨询

可以提供同系列之间双联泵，不同系列之间双联泵，以及连接齿轮泵和柱塞泵作为双连泵

详细资料请咨询 berarma 中国区代理商，上海华歌实业有限公司

型号	排量 cc/rev（调节范围）	工作压力 bar	转速范围 rpm
01PLP05** 恒压	16(3.1-17.9)	120	800-1800
02PVS1** 恒压	20 / 25	100	800-1800
02PVS2** 恒压	31.5/ 40 / 50	100	800-1800
02PVS3** 恒压	63 / 80 / 100	80	800-1800
02PSP1** 恒压	16 / 20 / 25	160	800-1800
02PSP2** 恒压	31.5 / 40 / 50	160	800-1800
02PSP3** 恒压	63 / 80 / 100	150	800-1800
01PHV05** 多种控制	16	250	800-1800
01PHV1** 多种控制	32	250	800-1800
02PHC1** 比例压力流量	25	160	800-1800
02PHC2** 比例压力流量	50	160	800-1800
02PHC3** 比例压力流量	100	150	800-1800
02PSPK1** 恒功率	16 / 20 / 25	160	800-1800
02PSPK2** 恒功率	31.5 / 40 / 50	160	800-1800
02PSPK3** 恒功率	63 / 80 / 100	150	800-1800



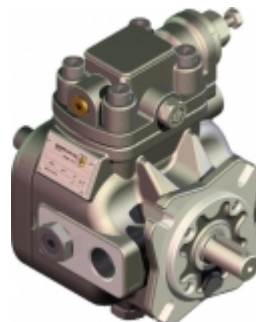
PLP



PVS



PSP



PHV



PSPK



双联泵



双联泵



## 柱塞泵 / 柱塞马达（定量-变量）



意大利 SAMHYDRAULIK 公司专业生产定量-变量柱塞泵 / 柱塞马达, 摆线马达, 每个系列泵都可以提供双泵组合（柱塞泵+柱塞泵, 柱塞泵+齿轮泵, 柱塞泵+其他类泵), SAMHYDRAULIK 公司是布雷维尼流体动力集团主要的分公司之一。泵和马达有斜盘式/直轴式; 有开式/闭式, 广泛应用于工程机械, 一般工业液压, 石油机械和港口设备等。

详细资料请咨询 SAMHYDRAULIK 中国代理商, 上海华歌实业有限公司

型号	排量范围 cc/rev	工作压力 / 峰值压力 bar
H1C** 定量泵/马达	6.0 - 226	350 / 450
H1V** 变量泵-开式系统	55 - 226	350 / 450
H1VPV** 变量计量泵-聚氨酯行业	6.3 - 30	250 / 320
MD10V** 变量泵-闭式系统	14 - 64	250 / 350
S5AV** 变量泵-开式	32 - 93	320 / 380
S6CV** 变量泵-闭式	75 - 128	400 / 450
SH11CR** 定量马达-埋入式	55 - 180	430 / 480
H2V** 变量马达-开式/闭式	55 - 226	350 / 450
SH7V** 变量马达-开式/闭式	55 - 160	430 / 480
SH7VR** 定量马达-埋入式	55 - 160	430 / 480



H1C



H1V



H1VPV



MD10V



S5AV



S6CV



H2V



SH11CR



SH7V



H1CR



# 水压柱塞泵/水压柱塞马达(定量-变量)

以水作为介质代表着流体动力系统绿色环保概念未来理想的发展方向。英国 waterhydraulics 公司是世界上最早开发全系列水压流体动力元件的公司，已经有 30 多年的生产经验，目前可以提供水压泵，水压马达，常规水压阀，水压比例阀，水压附件等全系列的水压介质用元件。

**广泛应用于：**实验设备，冶金设备，消防设备，海水淡化设备，船舶海洋设备，煤矿设备，食品医药设备，太阳能设备等。

**泵/马达排量：** 0.8 – 225 cc/rev    **工作压力：** 160bar ,其他压力等级在不断开发中。

**阀：**换向阀，压力控制阀，流量控制阀，比例阀 等 ，并能够根据市场要求新设计生产

**介质：**自来水，海水，使用其他介质请咨询

**泵体材料：**淡水-316 不锈钢， 海水-Duplex 双相不锈钢

详细资料请咨询 waterhydraulics 中国区代理商，上海华歌实业有限公司

型号	排量 cc/rev (调节范围)	工作压力 bar	转速范围 rpm
水压柱塞泵	0.8 – 225	160	2000
水压柱塞马达	3.3 – 225	160	2000



水压泵-水压马达



水压泵-水压马达



变量水压泵



泵+马达组



电力发生器



常规阀



叠加阀组



比例阀



水压动力站



 <p><b>全面液压产品</b></p>	 <p><b>齿轮分流马达/泵</b></p>	 <p><b>柱塞分流马达</b></p>
 <p><b>摆动油缸</b></p>	 <p><b>螺杆泵/机床高压冷却泵/流量计</b></p>	 <p><b>变量叶片泵</b></p>
 <p><b>水压泵/马达/阀及连接件</b></p>	 <p><b>径向柱塞马达/泵</b></p>	 <p><b>摆线马达 变量柱塞泵/马达</b></p>
 <p><b>微型 液压/润滑内啮合齿轮泵</b></p>	 <p><b>低速大扭矩液压马达</b></p>	 <p><b>测压接头/测压软管</b></p>
 <p><b>防脉动消声器</b></p>	 <p><b>液压阀/手动泵</b></p>	 <p><b>润滑/输送/计量齿轮泵</b></p>
 <p><b>压力开关/传感器</b></p>	 <p><b>震动电机</b></p>	<p><b>MEDANA &amp; VISCA s.r.l.</b></p> <p><b>液控阀门</b></p>

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