



# KP Presentation

## KP1 and KP2 Features





# KP Designations

The Godiva KP series of rear or midship mounted PTO driven centrifugal fire pumps offers the ultimate in unrivalled performance to 1500 LPM because only the KP offers:

- both a single-pressure and a multi-pressure option
- reduced whole life cost of ownership
- is easily installed and maintained
- all in the smallest, lightest package in the market.





# KP Designations

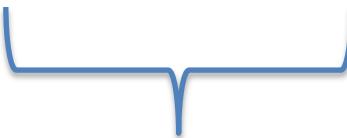
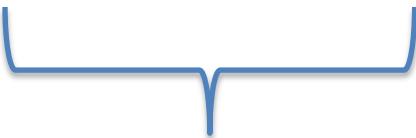
**KP**

**1**-Single Pressure

**2**-Multi-Pressure

**A**-Aluminium

**B**-Bronze



Single versus  
Multi-pressure

Pump Material

## Example

- KP1A  
**Single Pressure Aluminium KP**
- KP2B  
**Multi-Pressure Bronze KP**





# KP FLOWS

## EN 1028 Rated Flows

- Single Pressure 1500 LPM
  - FPN 10-750
  - FPN 10-1000
  - FPN 10-1500
  - FPN 15-1000
- Multi-pressure 1500 LPM
  - FPN 10-750 / FPH 40-250
  - FPN 10-1000 / FPH 40-250
  - FPN 10-1500 / FPH 40-250
  - FPN 15-1000 / FPH 40-250

## NF S 61-515

- 1000 L/min at 15 bar

## NFPA Rated Flows

- Single Pressure 500 GPM
- Multi-Pressure 500 GPM

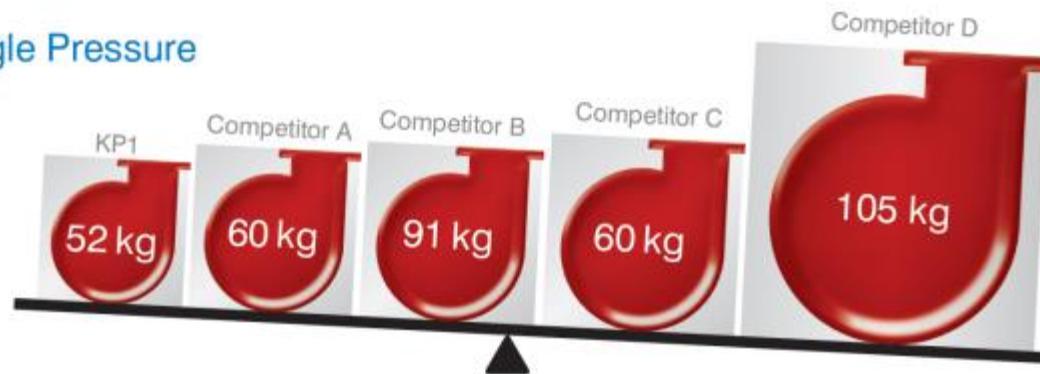




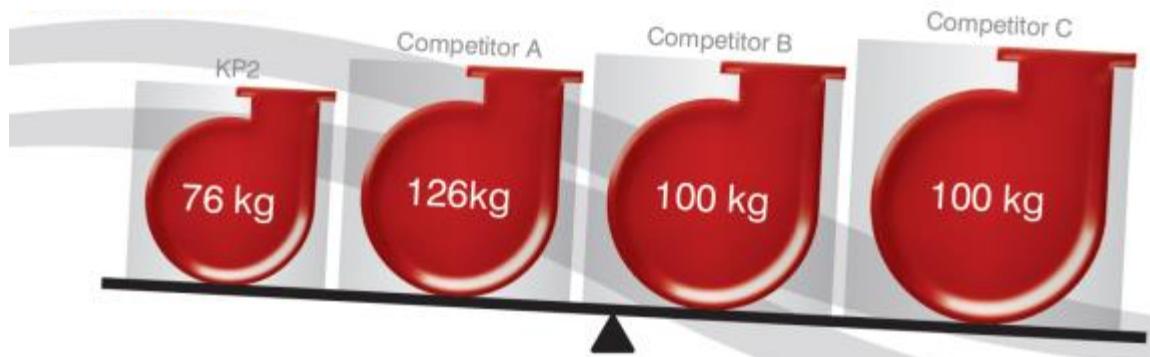
# Size & Weight Advantage

- On average the **KP1** is **40% smaller** and **30% lighter**
- On average the **KP2** is **30% smaller** and **29% lighter**

Single Pressure



Multi-Pressure





# KP Advantage

- **Low and high pressure impellers can be maintained without disturbing the volute or discharge plumbing**
- **Gearbox ratios allows KP to be installed to suit many chassis and PTO configurations**
- **Gearbox and volute rotations for flexibility**
- **Mechanical seal for long life maintenance free operation**
- **Single piston primer for simplicity**



**GODIVA**

**Class 1**



# Low Pressure

## Maximum Flow at 10 bar

- KP1 – 2125 l/min
- KP2 – 1900 l/min

## Maximum Flow

- KP1 – 2200 l/min
- KP2 – 1975 l/min

## Maximum Pressure

- 17 bar





# Low Pressure

- Self adjusting mechanical seal replaceable through suction side of the pump
- Polymer wear rings
- Light alloy pump
- Low pressure impeller constructed of corrosion resistant anodised aluminium alloy.
- Optional Bronze pump includes gunmetal low pressure impeller





# Low Pressure

## Rotatable Volute (KP1 Only)

*When viewed from the suction flange*

LEFT



UP



RIGHT





# High Pressure (KP2 Only)

**Rated at 250 l/Min at 40 Bar**

- Capable of 400 l/min at 40 Bar
- Pressures up 54.5 Bar
- Flows up to 550 l/min

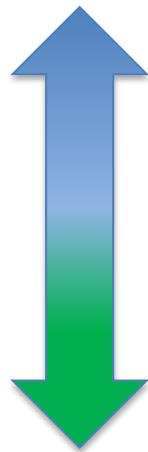




# High Pressure (KP2 Only)

## Manual Changeover Handle

High Pressure



Normal Pressure

*Shown in normal pressure*

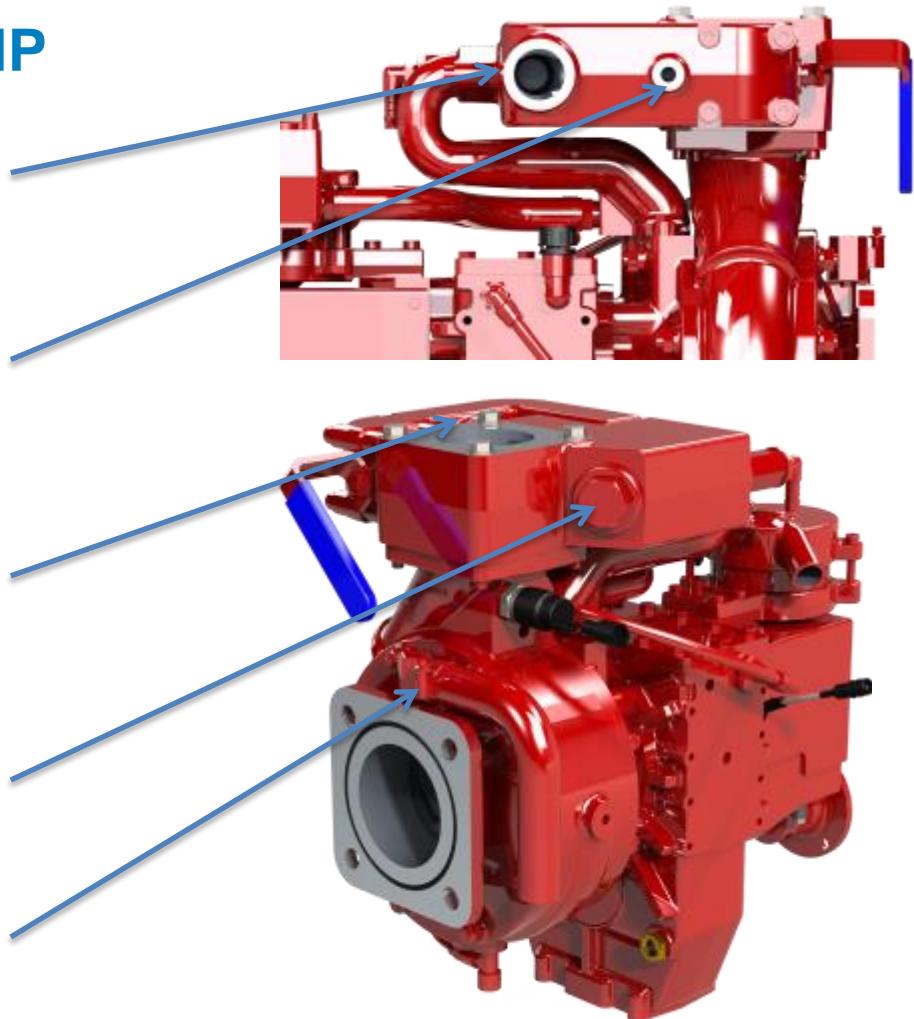




# High Pressure (KP2 Only)

**Multi pressure pumps include HP manifold as standard:**

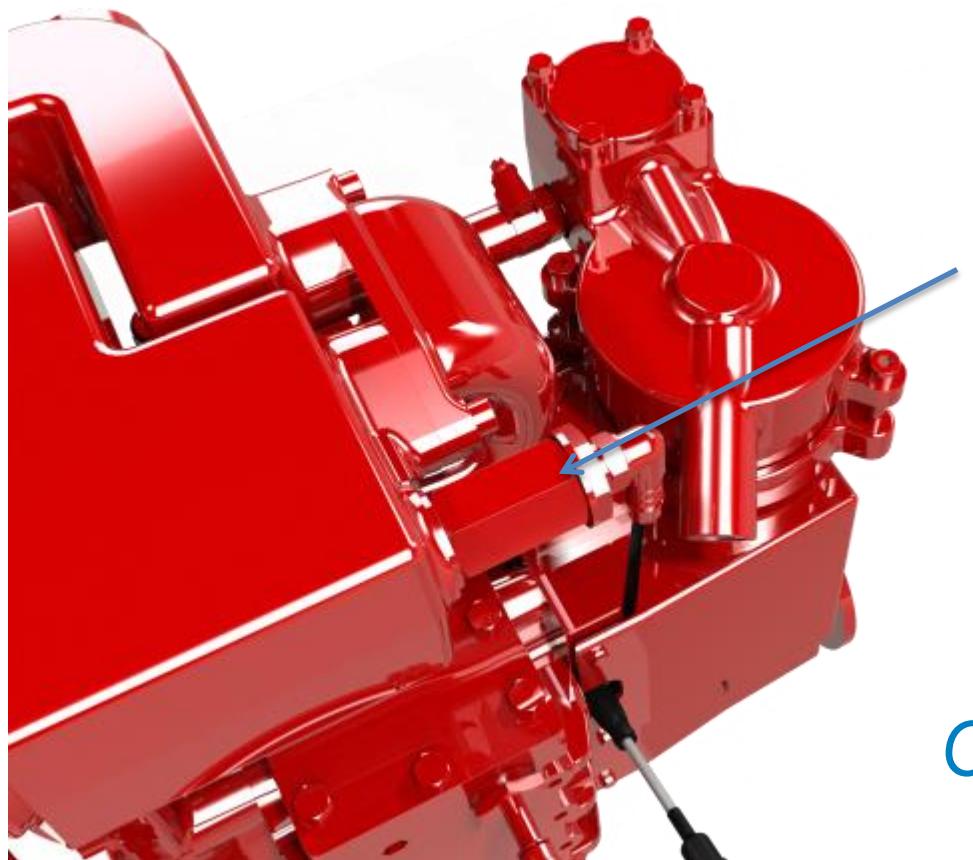
- High pressure connection  
1-1/4" BSP
- High pressure gauge connection  
1/4" BSP
- Internal pressure relief  
54.5 bar
- High pressure filter  
 $\varnothing$  0.75mm
- Suction Pressure relief valve





TRV

## Thermal Relief Valve (TRV) is standard with KP2



- Standard 42°C
- Optional 74°C

*Optional on KP1*





# High Pressure (KP2 Only)

**Regenerative high pressure impeller, body, and HP cover plate constructed of Stainless Steel**

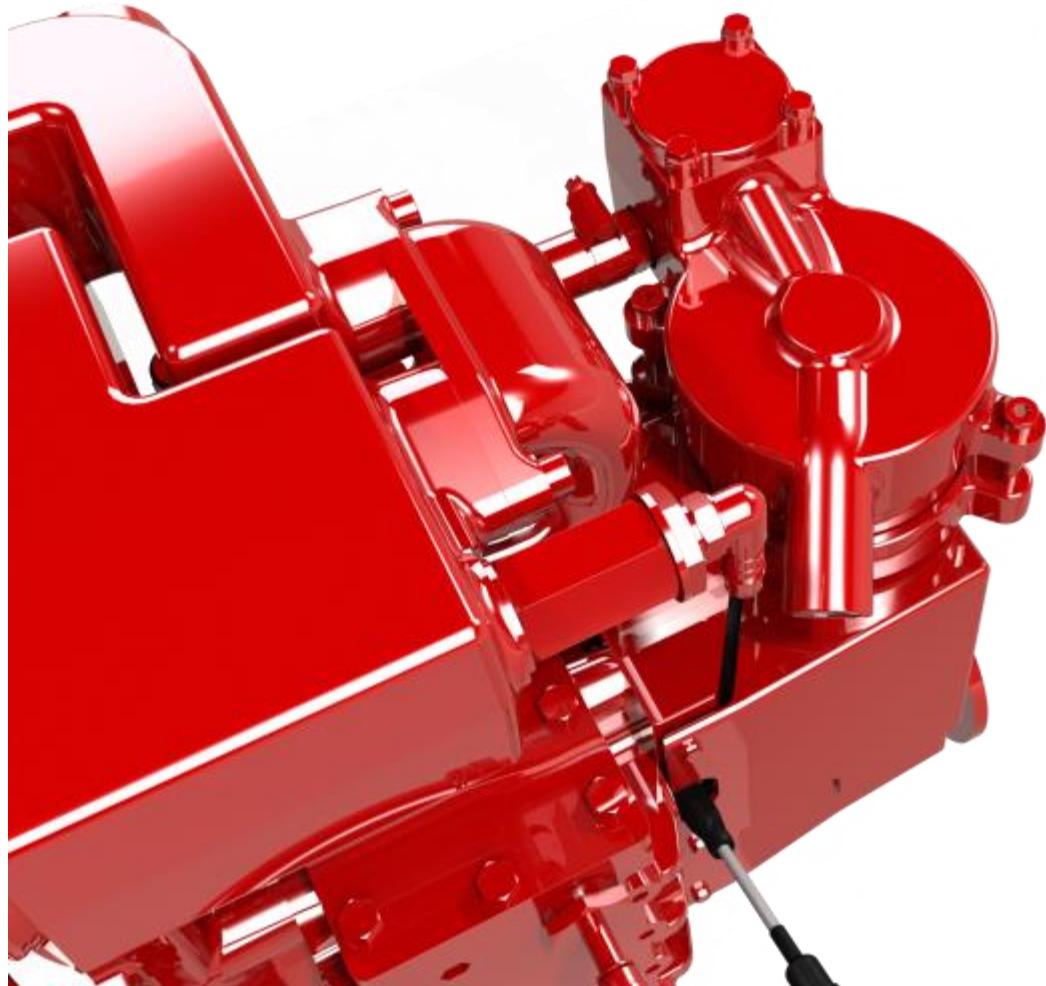
- Simultaneous multi-pressure operation
- Single, short shaft for low and high pressure impeller
- Polymer labyrinth bushing between stages
- Capable of maintenance without disturbing the volute or discharge of the pump





# Primer

- **Automatic Piston Primer**
  - 12 Volt
  - 24 Volt
- **No primer option**
- **Electric rotary vane primer (shipped loose)**
  - 12 Volt
  - 24 Volt





# Piston Primer

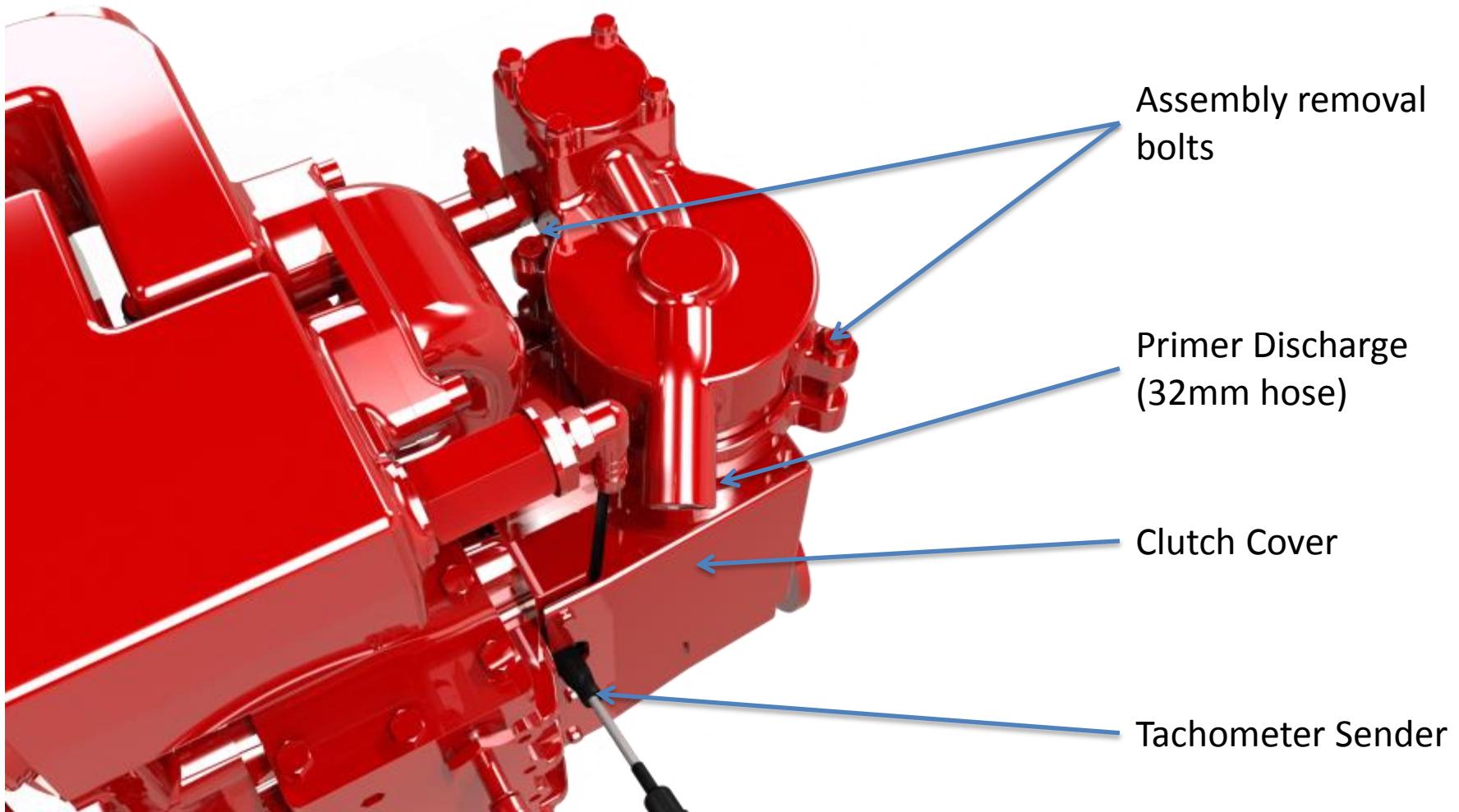
## Single Piston Primer

- Dry running
- Integral Priming Valve
- Electromagnetic Clutch  
*(0.75 bar switch out)*
- Primer seals bench  
maintainable
- Fail safe shutoff  
*(@ 3000rpm)*





# Piston Primer





# Installation

**Symmetrical Clockwise and Counter Clockwise volutes**  
allow the low pressure discharge plumbing to be  
identical on either option

Direction of rotation refers to when viewed on pump drive flange

Clockwise



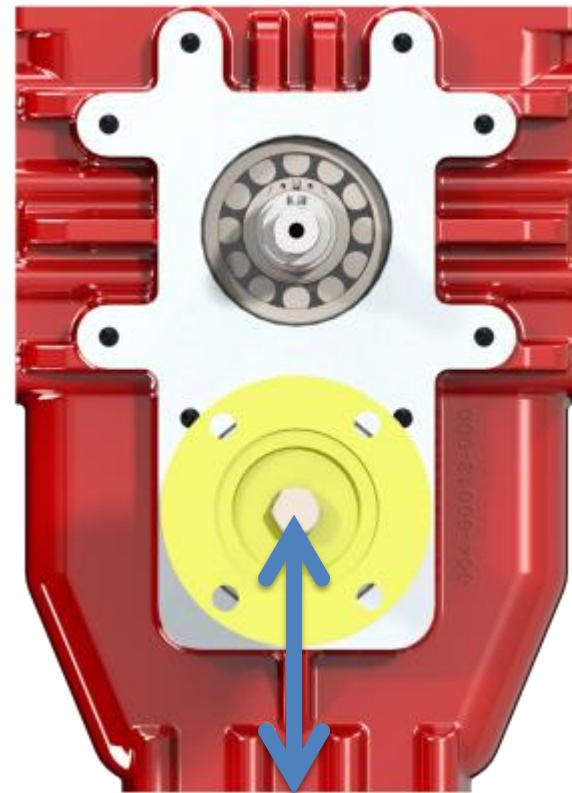
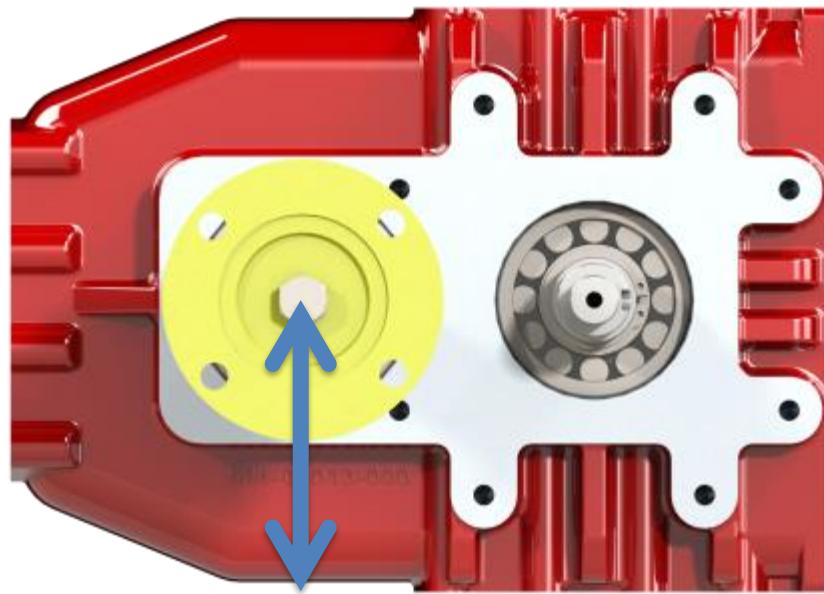
Counter  
Clockwise





# Installation

Constant input flange to install face for ease of installation





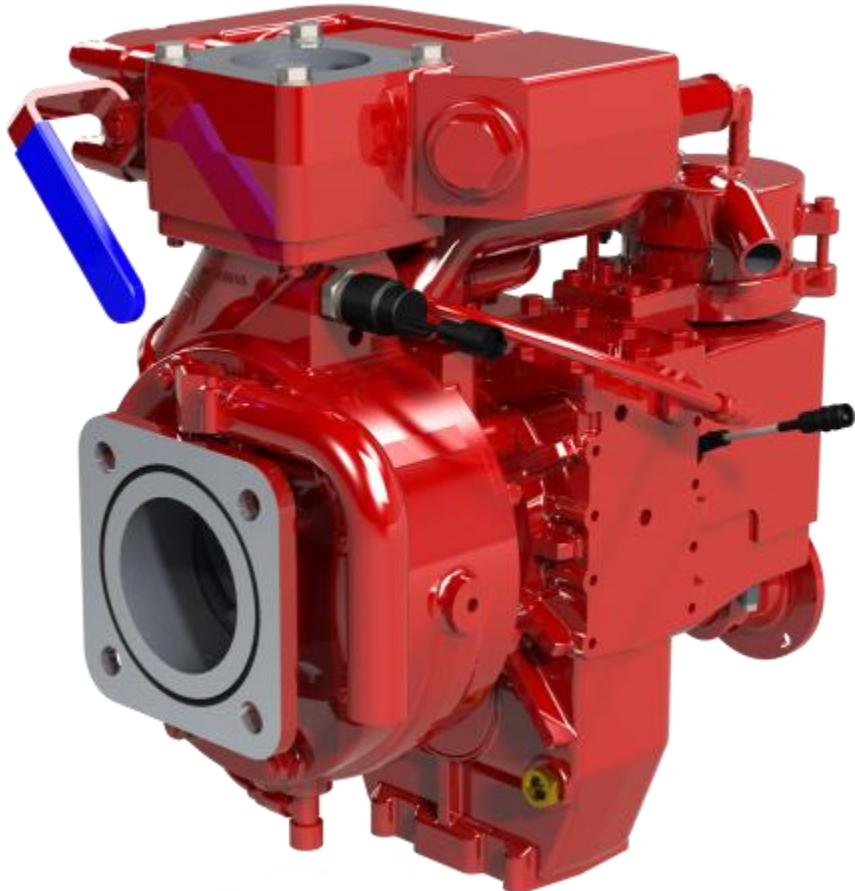
# Gearbox

## Integrated Gearbox

- 1.90:1
- 2.33:1
- 2.91:1

**5 year maintenance interval  
when installed according to  
the installation manual**

**High performance synthetic  
gear lubricant required for 5  
year maintenance interval [ISO  
VG 220])**





# Gearbox

When viewed from the suction volute

- Left
- Down
- Right

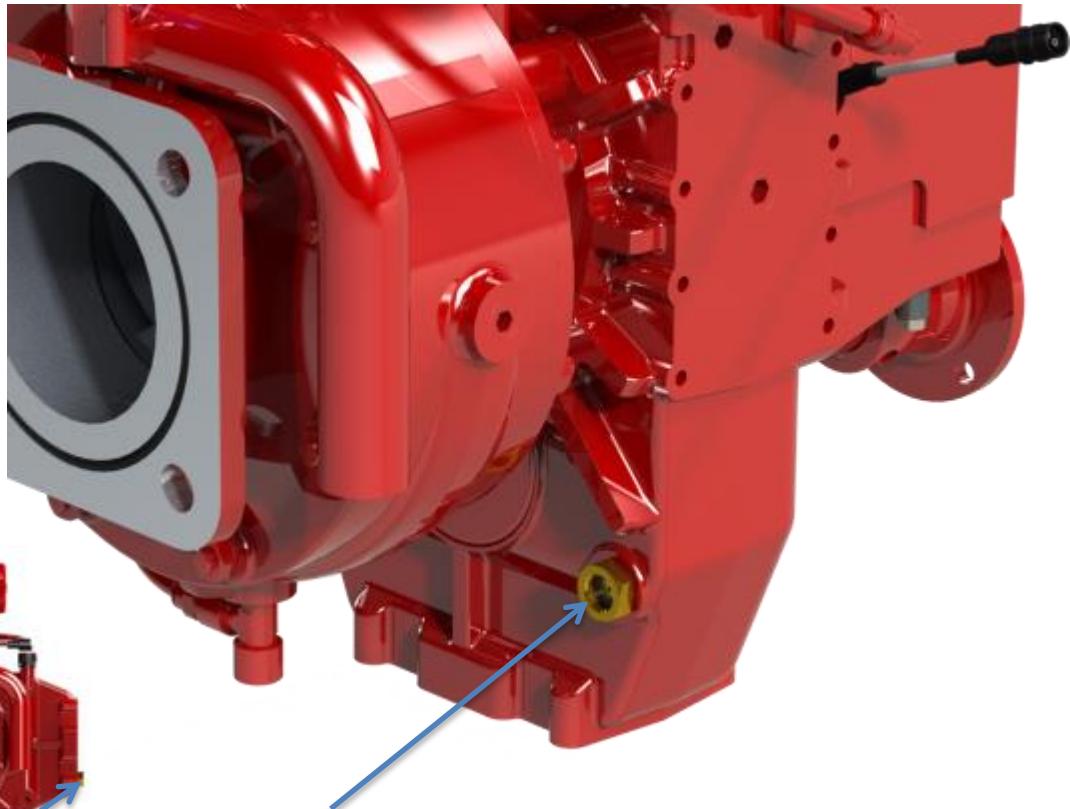
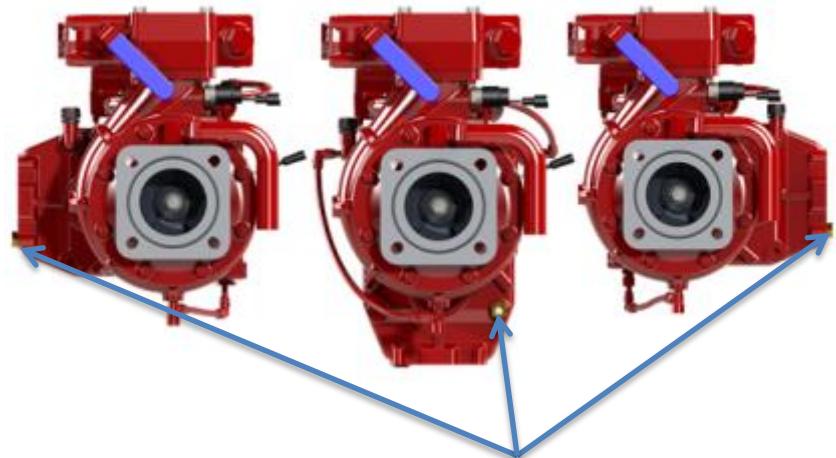




# Gearbox

## Oil level sight tube

- At a glance indication for oil level



OEM must ensure sight tube can be seen easily



# Cooler

All models include the cooler tube.

- Located in the same location of all gearbox orientations
- Spiral round brass cooling tube





# Engine Rotation

## Rotations

- Clockwise



- Counter Clockwise



## Drive Flange Options

- SAE 1410
- DIN 100



***\*\*When viewed on the drive flange\*\****





# Discharge Manifolds

## Optional for KP1 And KP2

### Standard

- DN65 / 115 flange



### Optional

- Low pressure discharge tee (“115” style flanges)
- Low pressure discharge tee with outriggers





# Discharge Manifolds

## Optional valves (Need optional tee with outrigger)

- 2.5" instantaneous
- 2.5" BSP
- 2.5" 65mm/75mm Storz

## Optional Control

- Standard with handwheel
- Standard with crank handle
- Ball valve
- Continental with handwheel
- Continental with crank handle
- Dual flow valve (instantaneous only)





# Suction Manifolds

## Standard

- DIN175 / DN100



## Optional (aluminium and gunmetal)

- 100mm Tank to suction flange  
(Left Inlet)
- 4.5" BSP 0° Droop
- 4.0" BSRT 0° Droop
- 4.0" Victaulic® 0° Droop
- 110 Storz 0° Droop





# Foam Options

**120 L/MIN RTP**

**Supplied loose for installer to integrate**

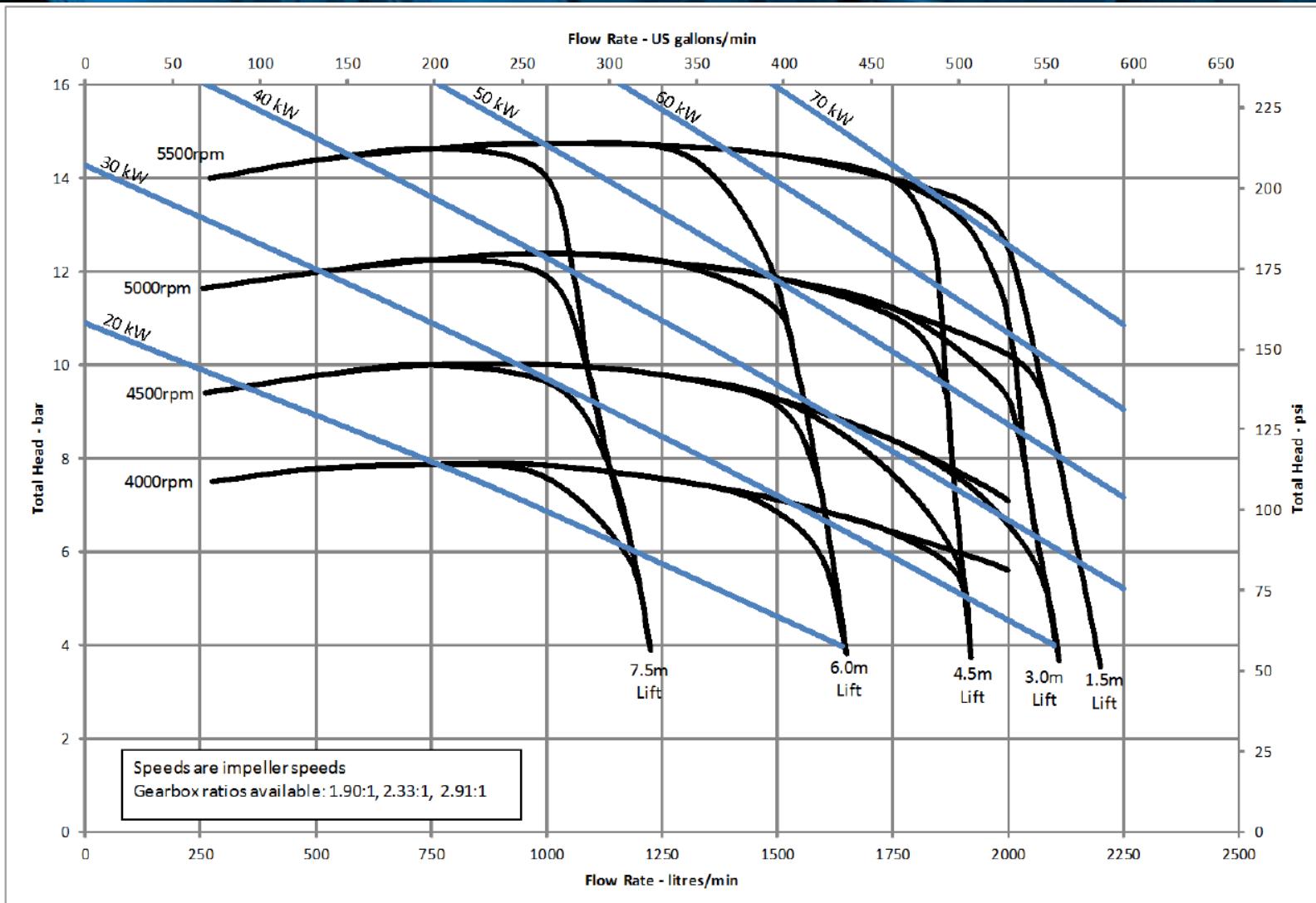


**GODIVA**

**Class 1**

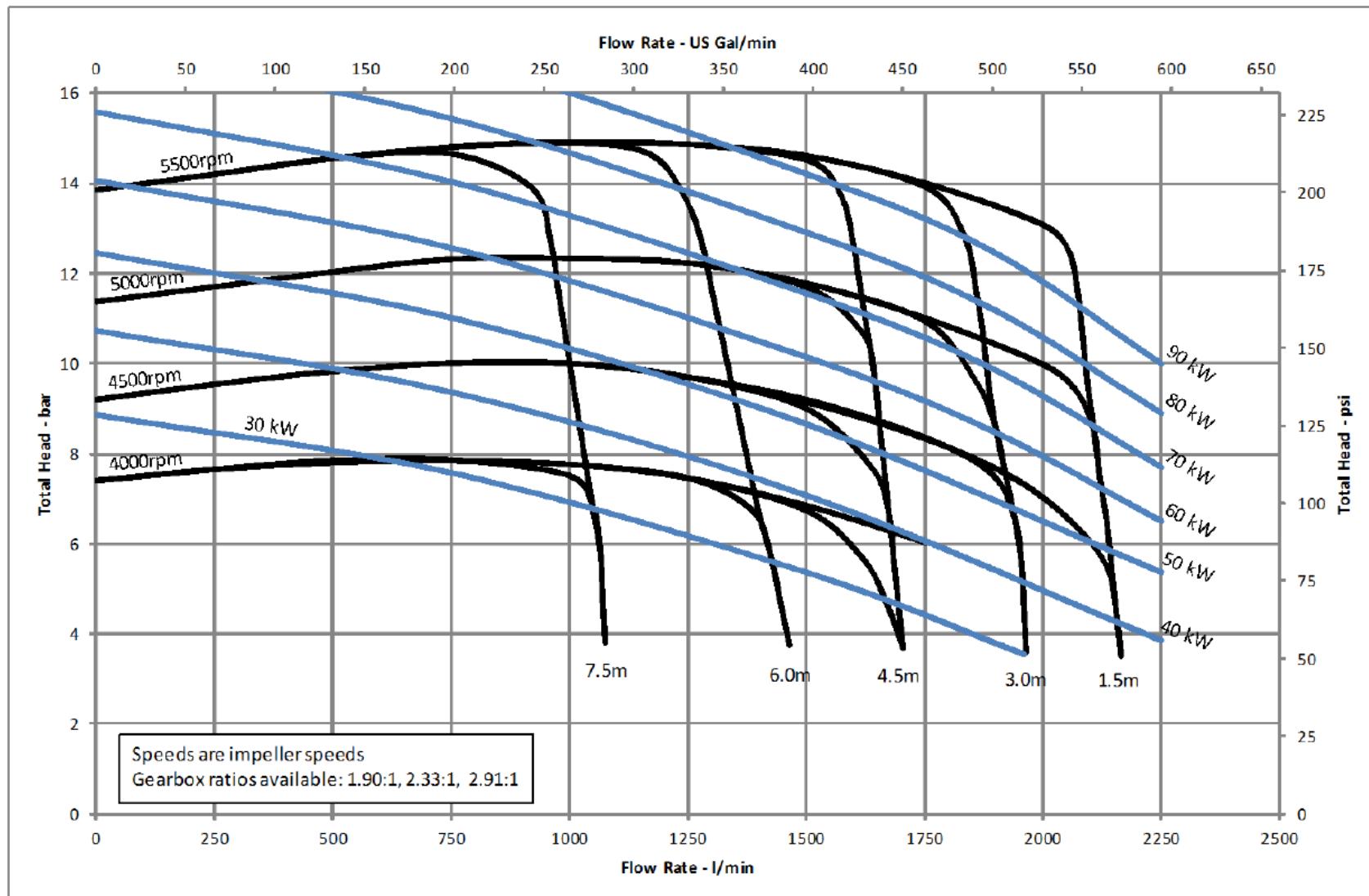


# KP1 LP Performance



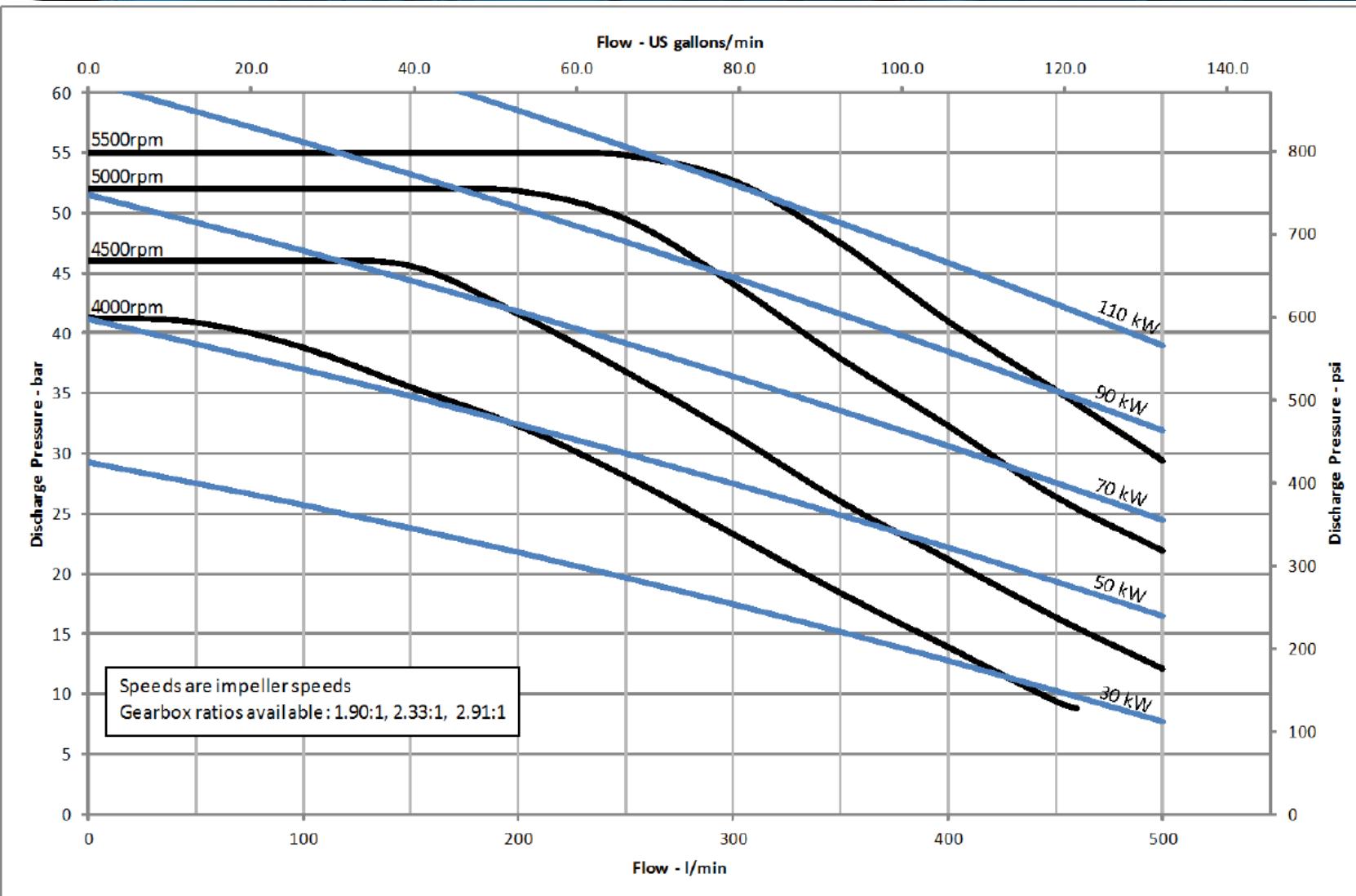


# KP2 LP Performance





# KP2 HP Performance

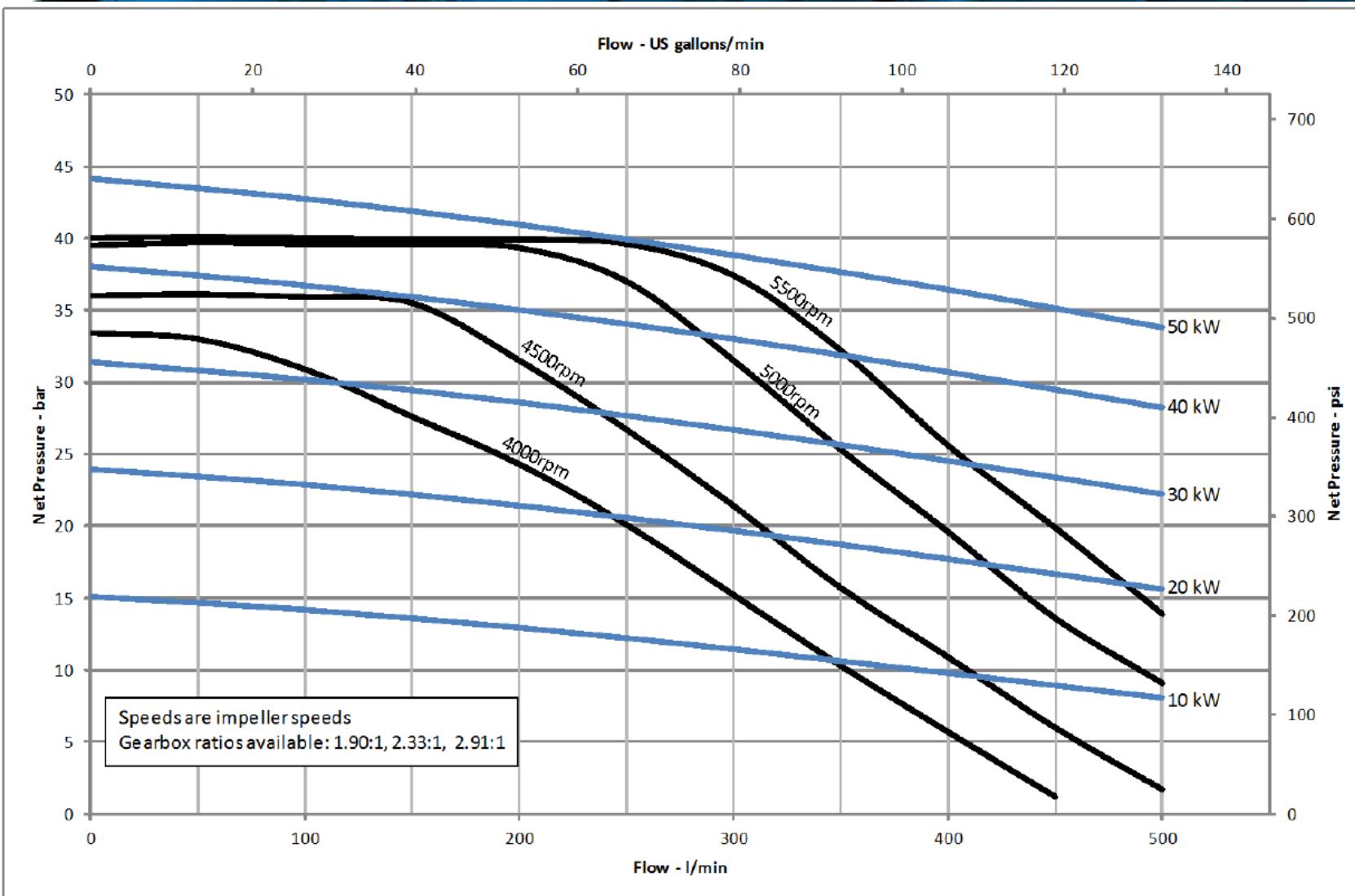


GODIVA

Class 1



# KP2 Net Performance





# Configuring

## PRIMA TYPE PRS SHEET

GODIVA		Format	210x24
		Order Available	
		Product Incompatible & Not Available	
KP Series Pumps		PRODUCT REQUIREMENT SPECIFICATION FORM	
CUSTOMER:		SIGN.:	
ORDER No.:			RPM RPM2
ENTC:			2000P 1000H
PUMP MATERIAL:	BRONZE		
	BROWN		
PRIMING:	HORN		
	PISTON		
VEHICLE VOLTAGE:	12V		
	24V		
GEARBOX DRIVE INPUT POSITION (With reference to position of the pump)		RIGHT	
		DOWN	
		LEFT	
GEARBOX RATIO & POSITION:	RATIO	L2:1	
		2:1:1	
		2:2:1	
DRIVE FLANGE:	DM 166		
ENTC RATIO (MANUAL or AUTOMATIC)	CLOCKWISE ROTATION IS STANDARD COUNTER CLOCKWISE ROTATION		
VOLUTE OUTLET POSITION:	OUTLET POINTING UP		
	OUTLET POINTING LEFT		
	OUTLET POINTING RIGHT		
SUCTION INLET:	DIN FLANGE		
	*#86 RT		
	*#86 SP		
	*#MCT60UC		
	1104HS TORQ		
TRU:	HORN		
	*#2°C		
	*#4°C		
TANK TOP MOUNTING POSITION:	L16		
	1600		
	1601004		
MINI POLE:	None		
	2 WEB		
OUT TRIGGER:	None		
	2		
DELIVERY VALVES:	None		
	2x UNIDIV		
	2x CONTINENTAL DIV		
OUTLET CONNECTION:	2PTIC		
	2PTBP		
	SCREW STOPS		
	FLAME STOP		
PIPE SYSTEM:	RTP (X4MM) - SUPPLIED LOOSE		
COLOUR:	POWDER COAT RED (Standard)		
	OTHER COLOUR (Please Specify):		
PUMP LANGUAGE:	English Standard Chinese (Please Specify):		
OTHER SPECIAL REQUIREMENTS:	If in doubt - ASK Tel: +44 (0)1526 623 600		
MODEL, CHECKED, PLANNING:	SIGN.:	CHECKED, ACCOUNTS:	ENTC:

Contact Godiva on Telephone +44 (0)1526 623 600, email godiva@de-scop.com





# Questions?



GODIVAO

Class 1