

## **KDD Series**

Min. Flow rate 30 lpm (7.39 gpm) @ max. Pressure 1400 kg/cm<sup>2</sup> (20000 psi) Max. Flow rate 52 lpm (13.74 gpm) @ max. Pressure 750 kg/cm<sup>2</sup> (10670 psi)

## **Salient Features**

- Pressure packing design with integrated cooling Systems for long life of seal.
- Incorporated Gear box.
- In line Suction / delivery Valve.
- Splash lubrication and also available force feed lubrication with oil cooler / filter request.



## **Performance Chart**

Model	SPM	Flow I/min (gpm)	Max. Rated Pressure-kg/cm² (psi)		
			100 HP	120 HP	150 HP
KDD 20-75	435	30 (7.93)	1250 (18130)	1400 (20000)	-
KDD 20	500	43 (11.36)	900 (12800)	1000 (14225)	1400 (20000)
KDD 22		52 (13.74)	750 (10670)	880 (12515)	1100 (15954)

Note: All flows are based on 100% volumetric efficiency. Volumetric efficiency will be  $\geq$  90%.

## **Specification**

Plunger Stroke: 95 mm & 75 mm
Max. plunger speed: 1.58 m/sec. @

500 spm

Plunger force: 43 kN (4385 kgf)

 Inlet Pressure min./max.: 4-7 bar (Booster Pump flow require min. 1.5 times of rating flow)

Oil Type: 80W 90Oil capacity: 11 ltr.

Max. Liquid Temp.: 70 °C (160 °F)
Discharge Connection: Ø 16 Hole (as

per drawing)

■ Suction Connection: 1 ½" BSPF

## Type of systems - Complete systems available various type

- Stationary unit with electric motor
- Stationary unit with diesel engine
- Mobile unit with electric motor
- Mobile unit with diesel engine
- Road going trailer with electric motor
- All unit available in 4 side cover or canopy on request

# **Applications**



**High Pressure Pipe Test** 



**Cross Country Pipe Test** 



Boiler Pressure Test



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## **Power End**

### 1. Main Body / Crank Case

**Spheroidal Graphite Iron:** Main body in spheroidal graphite Iron casting with honned surface finish bore.

#### 2. Crankshaft

**Alloy steel:** Crankshaft is made of nitrated, hardened and precision ground for extremely long life and durability.

### 3. Connecting Rod

**Alloy Steel:** Forged steel connecting rods with antifriction bearings. Heavy pin area construction, for added load strength.

### 4. Piston / Cross Head

**Grey Iron & Stainless Steel:** Alloy steel casting piston & stainless steel piston rod are hardened & super finish surface.

#### 5. Pinion Shaft

**Alloy steel:** Pinion shaft is nitride hardened and precision ground for extremely long life and durability.

#### 6. Helical Gear

**Alloy steel:** Helical gear is nitride hardened and precision ground for extremely long life and durability.

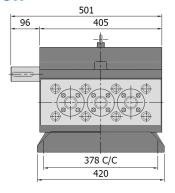
#### 7. Bearing

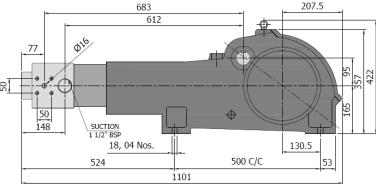
**SKF:** Oversized for maximum life and load disbursement. Self alignment roller bearing enables it to handle 26% more load than other pumps.

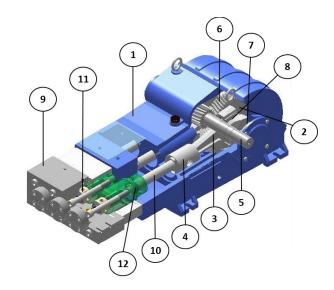
### 8. White Metal Bearing

Antifriction bearings for long life of crankshaft.

## **Dimension**







## Fluid End

### 9. Liquid End / Cylinder

**Stainless Steel:** Liquid end is made of high corrosion resistant. Forged stainless steel.

## 10. Plunger Ceramic / Solid Ceramic

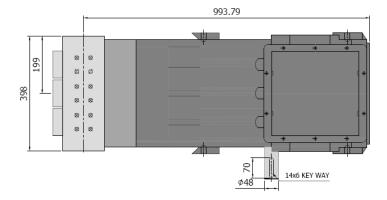
Primarily composed of solid ceramic for long life of seal. Surface roughness is extremely good i.e. <0.2 Ra.

### 11. Complete Valve

**Stainless Steel:** Valves made stainless steel for hardened & anti corrosion hard surface coated for long life. High volumetric efficiency valves operate at 95% efficiency plus.

### 12. Plunger Seal

**Special PTFE:** High pressure seal & NBR low pressure sealing with cooling systems.



Approx weight of bare pump: 390 Kg

# PressureJet Systems Pvt. Ltd.

62/13, Phase-1, GIDC, Vatva, Ahmedabad-382445. Gujarat, India

**Phone:** +91-79-25830762 / 25893868 / 25835598

Email: sales@pressurejet.com • URL: www.pressurejet.com