

Specification for Mounting System for Traction Motor Pinion

The system comprising the following to mount the pinion

- 1 Hollow plunger Cylinder 1
- 2 Hand Pump 1
- 3 Gauge Adaptor 1
- 4 Pressure Gauge 1
- 5 Hose 1
- 6 Fixture 1set

Hollow Plunger Cylinder

- . It should be single acting hollow plunger design with spring return, capacity 30 ton, Stroke 64 mm, collapsed height 178 mm extended height 242 mm, OD of cylinder 114 mm, Center hole dia 33.3 mm & weight of the cylinder is 10.9 Kgs
- . Nickel plated floating center tube to increase product life
- . Baked enamel finish for increased corrosion resistance
- . Quick release coupler and dust cap included

Hand Pump

- . Rated pressure up to 700 bar or 10000 psi
- . Two speed operation reduce handle effort strokes by as much as 78% over single speed pumps
- . Outlet ports are 3/8"-18 NPTF
- . Maximum handle should be 45 Kgs
- . Oil displacement per stroke 1st stage 11.26 cc, 2nd stage 2.47 cc
- . Usable oil capacity is 901 cc
- . Light weight and compact design
- . Durable glass - filled nylon reservoir and nylon encapsulated aluminum pump base for maximum corrosion resistance
- . Lower handle effort to minimize operator fatigue
- . Handle lock and light weight construction for easy carrying
- . Non-conductive fiberglass handle for operator safety
- . Internal pressure relief valve for overload protection

Gauge Adaptor

- . For easy mounting of a pressure gauge onto system
- . Male end 3/8" NPTF screw in to pump port, female end 3/8" NPTF accepts hose, 3rd port is for gauge connection (1/2" NPTF)

Digitally signed

by RAJ KISHOR

TIWARI

Date: 2010.01.19

16:04:55 IST

Digitally signed

by SANDEEP

SAXENA

Date: 2011.05.27

18:23:09 IST

Digitally signed

by SANDEEP

SAXENA

Date: 2011.05.27

18:24:55 IST

Pressure Gauge

- . The Pressure gauge should have dual scale for reading pressure in bar and psi
- . Pressure range 0 -700 bar or 0 - 10000 psi
- . Stainless steel gauge cases for corrosion resistance

- . Units per division is 10 bar
- . Accuracy is +/- 1% of full scale

Hose

- . Should be able to with stand a pressure of at 700 bar / 10000 psi with 1:2 design,10 feet length
- . End connections, end one 3/8" NPTF male & end two QRC

Fixture:

Fixture set shall consist of Mandrel, Distance Piece-Aluminum, Spacer and Locknut designed 1:4 and light weight easy to handle.

Other Conditions

- . The equipment shall be under warranty / guaranteed for three years from the date of successful commissioning on the equipments at ELS/TKD.
- . The decision of Railway in regard to the cause of failure or nature of rectification to be carried out by the supplier during guarantee period shall be final and binding on the part of contract.
- . The transportation will be at the supplier cost during warranty / guarantee repairs.
- . Technical literature:- Contactor has to supply at least 02 copy of technical literature / operating manual along with diagram circuit equipment.
- . Training:- The supplier shall provide training for operating maintenance and trouble shooting of problems generally arises in handling of equipment.
- . Inspection:- firm should supply the material inspected by RITES / Other Govt agency . However in the shed premises material will be inspected by representative of Sr DEE /TRS TKD.
- . Commissioning of Equipment:- Commissioning of equipment at consignee place with out any obligation.

Sr DEE /TRS TKD