ADJUSTMENT OF RESTRICTOR SCREW NEEDS TO BE SET. IT RESTRICTS SPEED OF WINCH DRUM WHEN VEHICLE IS WINCHING OUT DOWN A HILL.

MUST BE SET TO VEHICLES WEIGHT AFTER INSTALLATION OF THE WINCH AND SYSTEM.

SINGLE SOLENOID OPERATED DIRECTIONAL VALVE

WHEN DE-ENERGIZED THE VALVE ALLOWS FLOW OVER ALL PORTS

WHEN COIL 'S1' IS ENERGIZED FLOW ALLOWED: IN-A & B-OUT (WIND IN)

WHEN COIL 'S2' IS ENERGIZED FLOW ALLOWED: IN-B & A-OUT (WIND OUT)

SINGLE OVERCENTRE VALVE WITH INTEGRAL PRESSURE SENSING VALVE

POSSIBLE HOSE NUMBER:

- HOSE NUMBER: 04 & 05
  - TYPE: 1/2" BORE (26cc PUMP)
  - 3/4" BORE (36cc PUMP)
  - FITTINGS:
    - MALE STRAIGHT 1/2" BSP @ OCV (60L/MIN)
    - MALE STRAIGHT 3/4" BSP @ OCV (100L/MIN)
    - FEMALE STRAIGHT 1/2" BSP @ OCV (60L/MIN)
    - FEMALE STRAIGHT 3/4" BSP @ OCV (100L/MIN)
    - LENGTH: 0.8m

- HOSE NUMBER: 06 & 07
  - TYPE: 1/2" BORE (26cc PUMP)
  - 3/4" BORE (36cc PUMP)
  - FITTINGS:
    - FEMALE STRAIGHT 1/2" BSP @ CV (60L/MIN)
    - FEMALE STRAIGHT 3/4" BSP @ CV (100L/MIN)
    - FEMALE 90° ELBOW 1/2" BSP @ CV (60L/MIN)
    - FEMALE 90° ELBOW 3/4" BSP @ CV (100L/MIN)
    - LENGTH: 2m

PUMP SYSTEM PRESSURE: SEE SHEET 2 FOR PTO SYSTEM
SEE SHEET 3 FOR ENGINE DRIVEN SYSTEM

REFERENCES:
- RED Winches
- Ultimate Performance Winch
PTO UNIT

HYDRAULIC PUMP

RETURN HOSE

SUCTION OR PUMP DELIVERY HOSE

HYDRAULIC TANK

PORTS ON UNDERSIDE OF TANK:
3/4" BSP FEMALE THREAD STANDARD TANK
1" BSP FEMALE THREAD HIGH FLOW TANK

FITTING REQUIRED:
3/4" BSP FEMALE THREAD - STANDARD
1" BSP FEMALE THREAD - HIGH FLOW

FITTING REQUIRED:
26cc PUMP: 3/4" BSP THREAD - 3/4" 90° ELBOW FISHTAIL
36cc PUMP: 1" BSP THREAD - 1" 90° ELBOW FISHTAIL

FITTING REQUIRED:
26cc PUMP: 3/4" BSP THREAD - 3/4" 90° ELBOW FISHTAIL
36cc PUMP: 1" BSP THREAD - 1" 90° ELBOW FISHTAIL

FITTING REQUIRED:
3/4" BSP MALE - MALE - STANDARD
1" BSP MALE - MALE - HIGH FLOW

PTO PUMP SYSTEM SCHEMATIC

HYDRAULIC

PUMP TYPE

RED Winches

www.red-winches.com

Telephone: +44 (0)1460 67744
Email: sales@red-winches.com

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ENGINE MOUNTED PUMP SYSTEM SCHEMATIC

**PUMP TYPE**: HYDRAULIC

**DESCRIPTION**: ULTIMATE PERFORMANCE WINCH

**ENGINE CLUTCH UNIT**

**HYDRAULIC TANK**

**RETURN HOSE**

**SUCTION OR PUMP DELIVERY HOSE**

**HOSE NUMBER: 01**
- **TYPE**: 3/4" BORE (26cc PUMP)
- **1" BORE (36cc PUMP)**
- **FITTINGS**: OPEN EACH END
- **LENGTH**: 2.3m

**HOSE NUMBER: 02**
- **TYPE**: 1/2" BORE (26cc PUMP)
- **3/4" BORE (36cc PUMP)**
- **FITTINGS**: MALE 1/2" BSP @ PUMP (26cc PUMP)
  MALE 3/4" BSP @ PUMP (36cc PUMP)
  FEMALE 1/2" BSP @ CV (60L/MIN)
  FEMALE 3/4" BSP @ CV (100L/MIN)
- **LENGTH**: 2.8m

**HOSE NUMBER: 03**
- **TYPE**: 1/2" BORE (26cc PUMP)
- **3/4" BORE (36cc PUMP)**
- **FITTINGS**: FEMALE 3/4" BSP @ TANK (26cc PUMP)
  FEMALE 1" BSP @ TANK (36cc PUMP)
  FEMALE 1/2" BSP @ CV (60L/MIN)
  FEMALE 3/4" BSP @ CV (100L/MIN)
- **LENGTH**: 2.8m

**Fitting Required**:
- **26cc PUMP**: 3/4" BSP THREAD - 3/4" 90° ELBOW FISHTAIL
- **36cc PUMP**: 1" BSP THREAD - 1" 90° ELBOW HOSETAIL

**Fitting Required**:
- **3/4" BSP MALE - MALE - STANDARD**
- **1" BSP MALE - MALE - HIGH FLOW**

**Control Valve (CV) Fittings**:
- **Male - Male Adapter 1/2" BSP (60L/MIN) x 2**
- **Male - Male Adapter 3/4" BSP (100L/MIN) x 2**

**Fitting Required**:
- **3/4" BSP Female Thread Standard Tank**
- **1" BSP Female Thread High Flow Tank**