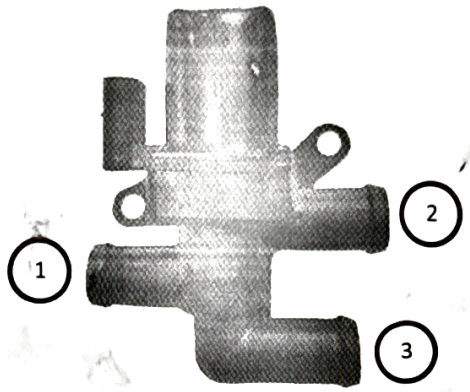
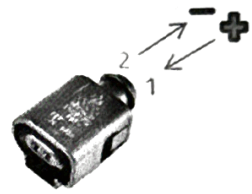
3 Way Coolant Solenoid Data

Eberspächer

Solenoid kit number: 29.2180.01.0030
Sol Valve 12v Water 3 Port Bitron part number: 29.2100.17.1011





Power Off 1 > 2
Power On 1 > 3

Housing rec 2 way FEP – 29.2100.18.1005
NB: Pin 1 (+12v) Pin 2 (0v)

Approximate dimensions and weight
95x48x120mm
475g
20mm OD Spigots

Operating range temperature
Regular ambient and fluid: -30°C to 120°C
Peak temperature: -40°C to 140°C

Working Position
Vertical ±10° coil above the spigots

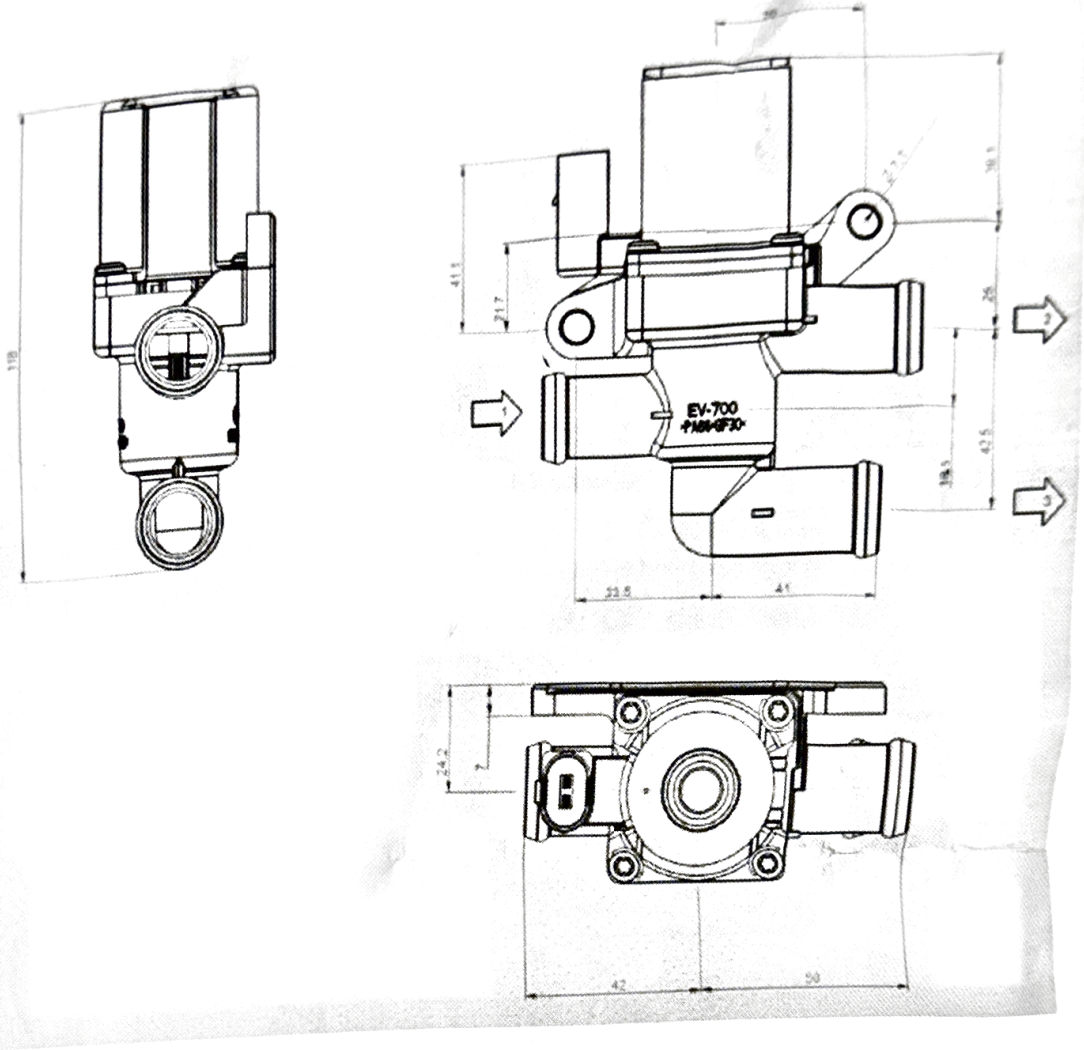
Electrical Requirements

Minimum voltage:	10v
Nominal voltage:	13.5v
Maximum voltage:	16v
Coil Resistance (23°C):	10.5
Actuation voltage:	<10v
Release voltage:	>0.7v
Current:	1.13 Amp

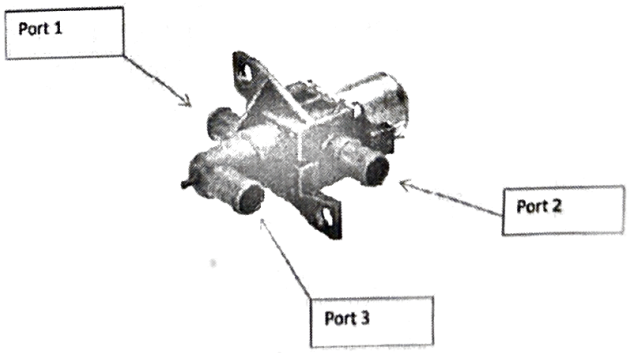
Hydraulic Requirements
Cooling medium 50:50 Glycol/Water
Flow rate: 20l/min @200mbar DP**
Internal Leakage:
1 -> 3 @ 500mbar 4.7 l/min air (10l/h glycol)
1 -> 2 @ 500mbar 4.7 l/min air (10l/h glycol)
External Leakage:
<2ml/10s @ 3000mbar air (0l/h glycol)
**Value could vary depending of the geometry, spigots diameter, etc.

IMPORTANT ELECTRICAL CONNECTION:

The positive 12v cable **must** be connected into **Pin 1** of the 2 way FEP housing.
If the positive is connected to Pin 2 the diode within the valve assembly will cause the valve to short circuit and blow the fuse.



Note: If replacing a Bosch 3 way valve note the following differences.
The water pipe connections differ on the Bosch valve – Power off – 0 volts - 1 to 3 (Bitron is 1 to 2) are connected and when powered then 1 to 2 are connected (Bitron 1 to 3).



Water Connections for 18mm ID Pipe	
12 or 24V applied	Port 1 connects to Port 2
0V	Port 1 connects to Port 3

Part Number: 29 2100 20 1002 Rev B

JMRJ Feb 2013