



NEW ZEALANDS MOST TESTED MANIFOLD

ACUFLO CM2000

The new **ACUFLO** CM2000 in its first year has now reached wide acceptance. At 2011 years end 1 in every 3 new manifolds sold are the Grivory Composite CM2000.

TESTING

No other manifold available has gone through the high requirements of the **ACUFLO** QA procedure and documentation under its ISO 9001 certification



Every

1. Manifold is hydraulically flow tested
2. Static leak pressure tested to 200 metres pressure
3. Backpressure tested for Dual Check sealing

One in every 100 manifolds is static high pressure tested for sealing to 750 metres pressure. The complete batch is rejected if it does not hold 550 metres pressure. (the OIML standard is 240 metres static pressure)

The manifolds have also been duration tested prior to market release in a German OIML MID Certified hydraulic laboratory which specializes in Composite product serial testing.

All the **ACUFLO** CM2000 manifolds successfully passed the duration and destruction tests of. 120,000 pressure cycles from 10 metres pressure to 160 metres pressure and back to 10 metres.



Following the cycle test they were pressure tested to 800 metres extreme pressure + with composite manifold meters. The only leakage at the 800 metres extreme pressures "**after**" the duration testing was leakage at the 40mm BSP o'ring thread.

Example of the German lab test

1. Dynamic Pressure Test

| | | |
|---|------------------------------|-------------------|
| Hydropulsator 2  | Parameter Adjustment: | |
| | P1 = | 16 Bar +/- 1 Bar |
| | P2 = | 1 Bar +/- 0.3 Bar |
| | Sinus = | 0.5 Hz |

| Date | Pressure P1 | Installation | | Average | Medin |
|------------|-------------|--------------|-------------|---------|--------|
| | | Pos.1 | Pos.2 | | |
| 08/07/2011 | 16 Bar | With 620MC | With 620MC | | |
| | | 120089 | 120089 | 120089 | 120089 |
| | | No leakages | No leakages | | |

2. Strength Test

| | | |
|---------------|----------|---------------------------|
| 1. with 620MC | 81.6 Bar | 620MC flins out of thread |
|---------------|----------|---------------------------|



| | | |
|---------------|--------|---------------------------|
| 2. with 620MC | 84 Bar | 620MC flins out of thread |
|---------------|--------|---------------------------|



Maik Muller

These extreme performance tests ensure **ACUFLO** Industries remain the best as proven and audited by others.