

Equipment for a single arm test facility

Cylinder:

SERVI

80x50x500 w. position transducer, order in separate file:

SingleArm_Cylinder_Order.pdf

4/3-way directional control valves:

DANFOSS

PVG32, 4 units, order in separate file:

SingleArm_PVG32_Order.pdf

SERVI

Hawe (Servi), 3 units, ordering code:

PSV 3 . 1 . /D250 - 2

- A 1 L 40/25 .. /EA WA /2 AN265 BN265

- A 2 L 40/25 A200 B200 S1 /EA WA /2 AN265 BN265

- A 2 O 40/25 A200 B200 S1 /EA WA /2 AN265 BN265

- E 1 - G 12

Notes on the Hawe:

| | | |
|------------|--------|--|
| 1 | PSV | Variable displacement pump |
| 2 | 3 | G 1/2 |
| 3 | . | No special features in pump side module |
| 4 | 1 | Integrated pressure reducing valve for internal supply of control oil, set to 20 bar |
| 5 | . | No 2/2 way solenoid valve for arbitrary idle pump circulation |
| 6 | D250 | Pressure limiting valve set to 250 bar |
| 7 | -2- | Size 2 |
| 8,1 9,1 | A 1 | No compensator |
| 10,1 | L | Closed in neutral |
| 11,1 | 40/25 | Nominal max flow in A and B rated @ dp = 5 bar |
| 12,1 | . | No LS-pressure limiting valves possible because non compensated |
| 13,1 | .. | No functional cut-off + prop. pressure limitation because non compensated |
| 14,1 | /EA WA | Electro-hydraulic actuation + manual operation + spool position feedback |
| 15,1 | /2 | A and B ports |
| 15,1 | AN265 | Shock and suction valve in A-port @265 bar |
| 15,1 | BN265 | Shock and suction valve in B-port @265 bar |
| 8,2 9,2 | A 2 | Pressure compensated |
| 10,2 | L | Closed in neutral |
| 11,2 | 40/25 | Nominal max flow in A and B rated @ dp = 5 bar |
| 12,2 | A200 | LSA set to 200 bar |
| 12,2 | B200 | LSB set to 200 bar |
| 13,2 | S 1 | No functional cut-off + prop. pressure limitation |
| 14,2 | /EA WA | Electro-hydraulic actuation + manual operation + spool position feedback |

| | | |
|------------|--------|--|
| 15,2 | /2 | A and B ports |
| 15,2 | AN265 | Shock and suction valve in A-port @265 bar |
| 15,2 | BN265 | Shock and suction valve in B-port @265 bar |
| 8,3 9,3 | A 2 | Pressure compensated |
| 10,3 | O | A and B connected to tank via throttle |
| 11,3 | 40/25 | Nominal max flow in A and B rated @ dp = 5 bar |
| 12,3 | A200 | LSA set to 200 bar |
| 12,3 | B200 | LSB set to 200 bar |
| 13,3 | S 1 | No functional cut-off + prop. pressure limitation |
| 14,3 | /EA WA | Electro-hydraulic actuation + manual operation + spool position feedback |
| 15,3 | /2 | A and B ports |
| 15,3 | AN265 | Shock and suction valve in A-port @265 bar |
| 15,3 | BN265 | Shock and suction valve in B-port @265 bar |
| 16 | E 1 | Standard end plate for LS, T, Z, P, R lines, with a T-connection, G 1/8 |
| 17 | G 12 | 12V electrical actuation |

Counter balance valves:

SERVI

Sun Hydraulics, 4-port vented cartridge valves+ manifold

3 different manifolds available: MAC/S=NPTF 1/2", MAV/S=BSPP 1/2", MAK/S=SAE10 (discuss with Eivind)

Ordering code example:

CWCK-LHN-MAV/S

CWCL-LHN-MAV/S

CWCA-LHN-MAV/S

CWCG-LHN-MAV/S

Pressure transducers:

5 pressure transducers - try Parker, leave this to Eivind.

Pipes, hosing, connections:

Leave this to Eivind.