



# Work Support

## hydraulic forwarding - contact by spring force flange-type, manifold mounting

Part No. 3310900 (without manifold)



Hydraulic work support is a replacement to the adjustable screw jack.  
It is not a force exerting element but a resistance giving element.

### Application

Irregular job is supported on only three points. If an additional support is required, it must be adjustable, like the manual screw jack support. Hydraulic work support is the right solution for such application. The work support is used to support the job, to avoid deflection and vibrations due to cutting and clamping forces. It helps to clamp the job without distortion. These work supports are mounted directly in manifold as per drawings. These work supports are more suitable where space is limited.

### Principle

A plunger is in retracted position in the un-pressurised mode. After applying pressure hydraulic piston moves forward to push spring. Hence supporting plunger touches the job by a light spring force. After 30 - 40 bar pressure sleeve collapses to hold the supporting plunger. It resists to move in the axial direction due to frictional force. The resistance is equal to the radial inward force multiplied by the coefficient of friction.

### Specification

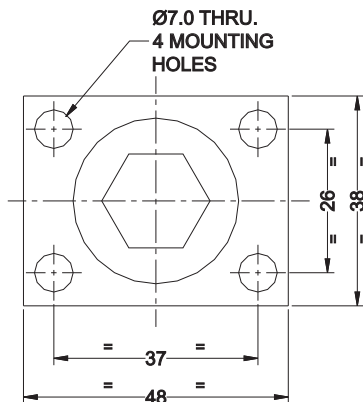
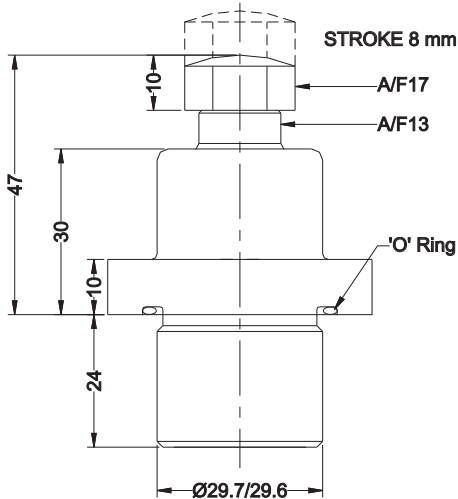
- ◆ Minimum hydraulic operating pressure- 100 bar
- ◆ Maximum hydraulic operating pressure- 200 bar
- ◆ Maximum plunger contact force- 4 N
- ◆ Support force 1.5 kN at 150 bar

### Advantages

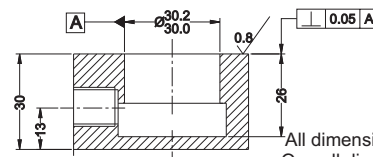
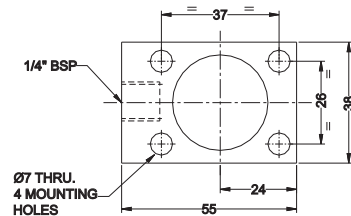
- ◆ Manifold machining for this work support is very simple.
- ◆ Compact in size.
- ◆ Plunger is normally in retracted condition.

### Notes

- ◆ If a clamping force is applied on the work support, it should not be more than 50 % of the support force.
- ◆ Heavy extensions to plunger can influence the contact force of the work support.
- ◆ Manifold has to be ordered separately.
- ◆ For ordering the seal kit, add the prefix "S" to the part number.



### Manifold Details Part No. 3413700



All dimensions are in mm  
Overall dimension tolerance ± 0.5 mm