



Threaded-Body Work Supports max. operating pressure 500 bar

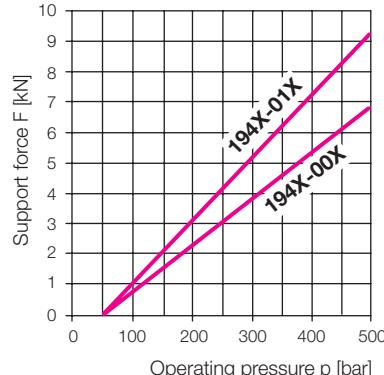


General technical characteristics

Plunger Ø	[mm]	16
Stroke	[mm]	8 (15)
Adm. support force at 500 bar		
194X-00X	[kN]	6.5
194X-01X	[kN]	9.5
Recom. minimum oil pressure [bar]		100
Seating torque	[Nm]	60
Weight	[kg]	ca. 0.25

Mounting dimensions, accessories and application examples see reverse page

Admissible load F as function of the operating pressure p



Application

Hydraulic work supports are used to provide a self-adjusting rest for the workpiece during the machining operations. They compensate the workpiece surface irregularities, also deflection and vibration under machining loads. Two sizes are available. The threaded-body design of the elements allows direct installation in clamping fixtures, in horizontal or vertical mounting position, and thereby a space-saving arrangement. Hydraulic oil is fed through drilled channels in the fixture body. Hydraulic locking is made together with hydraulic clamping of the workpiece, or independently.

There are three variations of plunger actuation:

1. **Spring advanced;** plunger extended in off-position
2. **Air pressure advanced;** plunger retracted in off-position. The pneumatically-actuated plunger allows precise setting of the plunger contact force by means of a pressure reducing valve.
3. **Hydraulic pressure and spring advanced;** plunger retracted in off-position It moves forward with a light spring force against the workpiece, when hydraulic pressure is applied.

Combination possibilities

The work supports 194X-01X can be combined with the swing clamps as per data sheet B 1.891. (Example see reverse page).

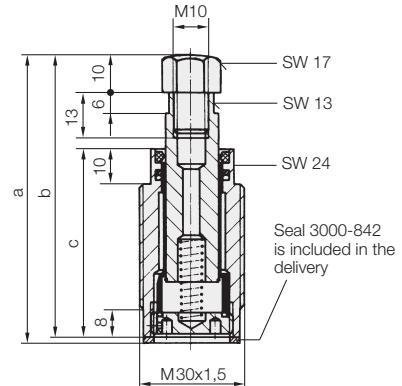
Important notes!

Work supports are not suitable to compensate side loads.

Operating conditions, tolerances and other data see data sheet A 0.100.

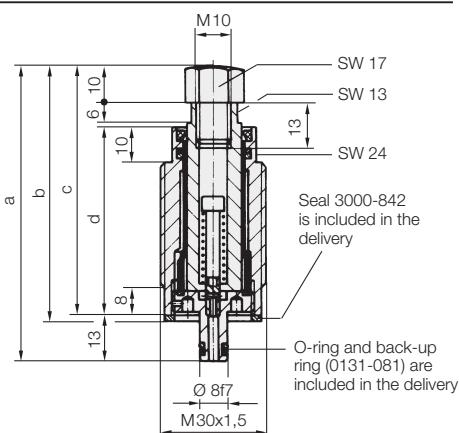
Contact by spring force

a	[mm]	80.5	90.5
b	[mm]	79	89
c	[mm]	54	64
Spring force min./max.	[N]	8/13	8/13
Part-no.			1940-000 1940-010



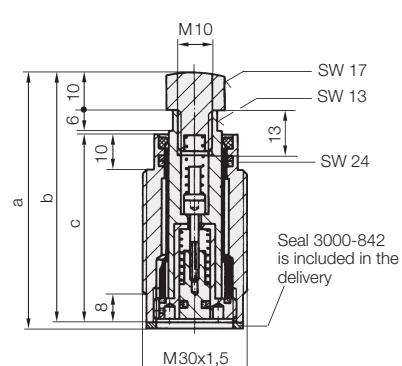
Contact by air pressure

a	[mm]	84	94
b	[mm]	72.5	82.5
c	[mm]	71	81
d	[mm]	54	64
Spring force min./max.	[N]	20/30	20/30
Plunger contact force at 1 bar air pressure (deduct spring force if necessary)	[N]	20	20
Part-no.			1941-000 1941-010

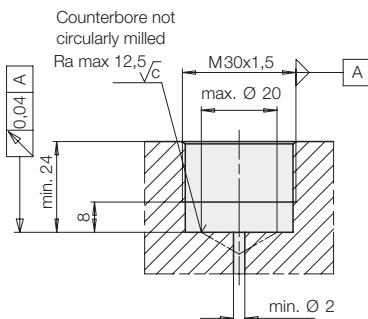


Contact by oil pressure

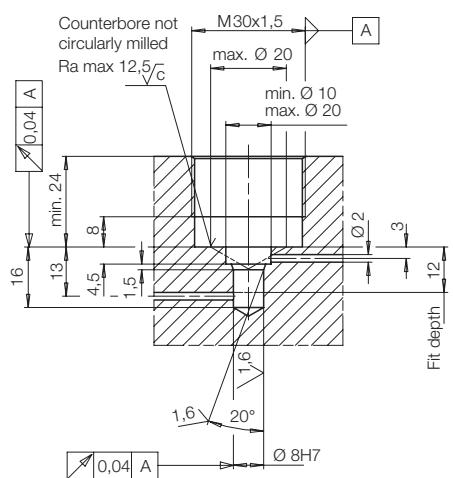
Stroke	[mm]	8	15	8	15
a	[mm]	72.5	79.5	82.5	89.5
b	[mm]	71	78	81	88
c	[mm]	54	61	64	71
Spring force min./max.	[N]	10/23		10/23	
Max. oil flow rate	[cm³/s]	25		25	
Part-no.			Stroke 8 1942-000 1942-010		
			Stroke 15 1942-005 1942-015		



Installation dimensions 1940-0X0/1942-0X0

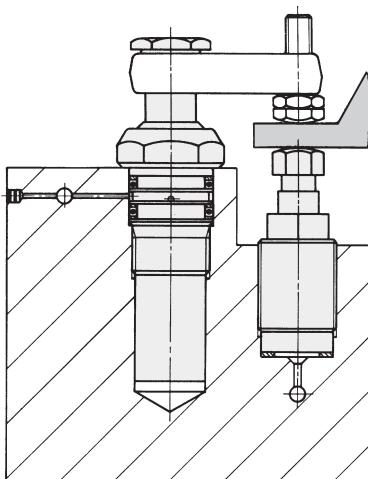


Installation dimensions 1941-0X0



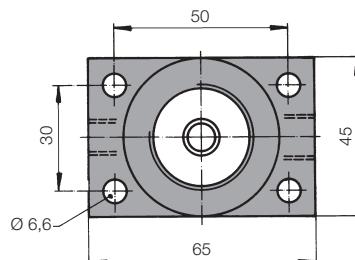
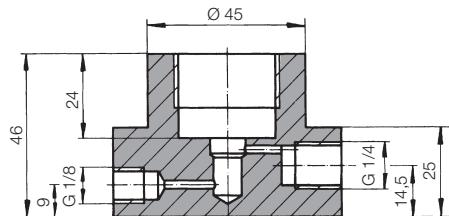
Combination possibility

Threaded-body work support with threaded-body swing clamps as per data sheet B 1.891

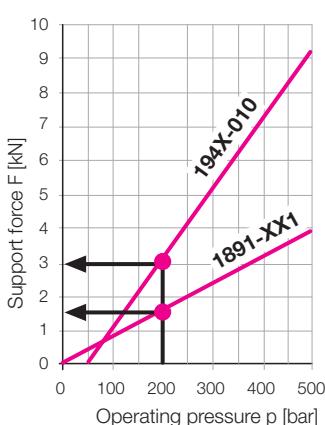
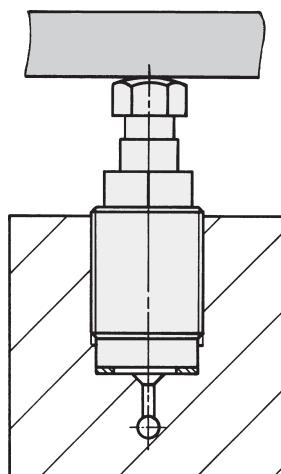


Accessories

Mounting body **part-no. 3467-086** as per data sheet B 1.460 or body with pneumatic connection **Part-no. 3467-112**



Installation example



Example

Swing clamp 1891-XX1 clamps against threaded-body work support 194X-010. Operating pressure 200 bar.

Support force	3.0 kN
- Clamping force	1.5 kN
= possible opposing force	1.5 kN