

### **Work Supports**

# contact by spring force or air pressure, single acting, max. operating pressure 500 bar



#### **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.

#### Installation

The universal block cylinder shape allows vertical and horizontal mounting, with oil feed via normal pipe connection or by manifold mounting direct to the fixture through drilled channels in the fixture body.

#### Function

Hydraulic locking is made together with hydraulic clamping of the workpiece, or independently. The support plunger is provided with female thread to enable the use of threaded pieces for height adjustment.

## There are three variations of plunger actuation:

- **1. Spring advanced;** plunger extended in off-position
- Air pressure advanced; without spring return
- 3. Air pressure advanced; with spring return

The pneumatically-actuated plunger allows precise setting of the plunger contact force by means of a pressure reducing valve. If a danger exists of sucking fluids through the pneumatic port, on the spring-advanced unit, a vent hose should be connected.

#### Accessory

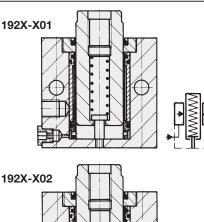
Screw-in contact bolts see data sheet G 3.800

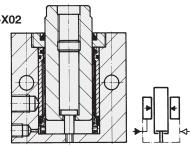
### Important notes!

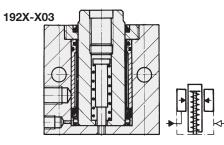
Work supports are not suitable to compensate side loads.

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

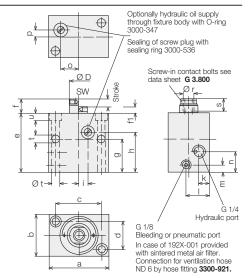
It is absolutely necessary to follow the instructions for venting of the spring area on data sheet A 0.110.



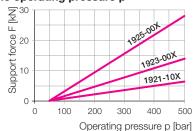




Spare seal ring



# Admissible load F as function of the operating pressure p



Accessories	Screw plug G 1/4 O-ring 10 x 2		3610-264 3000-347	3610-264 3000-347	3610-264 3000-347
	Air pressure with spr	ing return	1921-103	1923-003	1925-003
Exterior by	Air pressure		1921-101	1923-001	1925-002
Extended by	Spring force		1921-101	1923-001	1925-001
Weight Part no.		[kg]	0.8	1.2	2.6
SW Weight	<u> </u>	mm]	13	17 1.2	27
U		mm]	6	8	10
Øt		mm]	6.5	8.5	10.5
S		mm]	14	14	21
p Ø r	į	mm]	M 10	M 12	M 16
р	ĺ	mm]	5	7	11
0		mm]	14.5	19	25
n		mm]	38	22	25
m	L L	mm]	8.5	8	8
		mm]	17.5	25.5	39.5
k	L L	mm]	12.5	11.5	20.5
i		mm]	7	10	12
g h	L L	mm] mm]	36	43	52
		mm]	6 26	7 36	10 39
f1	L L	mm]	12	15	20
e f		mm]	56	64	79
d		mm]	22	30	40
С		mm]	40	50	63
b		mm]	35	45	63
а		mm]	60	65	85
Recom. min. oil p		[bar]	100	100	100
(deduct spring for	orce at 1 bar air pressure ce if necessary)	[N]	20.1	31.4	96.2
Spring force max.		[N]	10	17	24
Spring force min.		[N]	8	13.5	19.2
Support force at 500 bar		[kN]	7	12.5	28
Stroke		mm]	6	8	10
Plunger Ø D	[1	mm]	16	20	35

3000-536

3000-536

3000-536