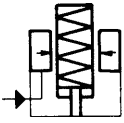


## No. 6964F

### Support Element, base-flange-mounting

Normally extended. Spring advanced, max. operating pressure 350 bar, min. operating pressure 50 bar.



CAD

Order no.	Article no.	Contact force F1 [N]	Support force at 350 bar [kN]	Stroke C [mm]	Vol. [cm <sup>3</sup> ]	Weight [g]
66852	6964F-04-2	4,5 - 9,0	4,4	6,5	0,16	281
66878	6964F-11-2	9,0 - 26,5	11,0	9,5	0,33	660
66894	6964F-33	40 - 80	33,4	12,5	1,64	2019
66910	6964F-55	49 - 71	55,6	19,0	4,26	4291

### Design:

Cylinder body from steel, hardened. Support pin with internal thread case hardened and ground. Wiper to protect against dirt and cooling water. Internal parts from stainless steel. Oil supply via threaded port.

### Application:

The support element is used as an extra support to prevent sagging and vibration of a workpiece.

### Features:

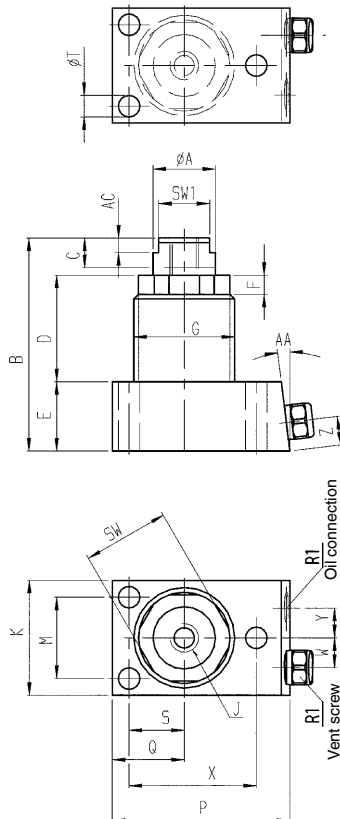
Element with high load capacity and low height. Spring extension: the plunger is normally extended. Variable spring setting permits sensitive adjustment of contact force.

### Note:

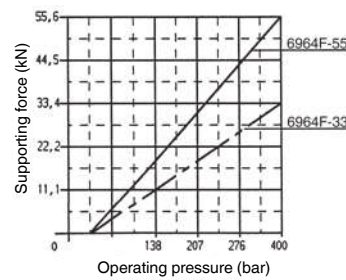
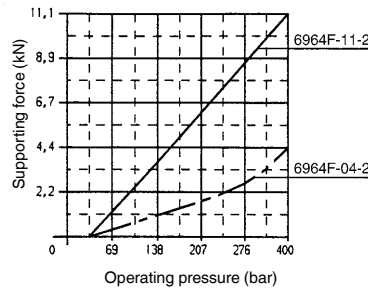
Support pin must be protected against the entry of dirt and splash water by fitting a set screw or plug. When placing into operation, ensure that all air is bled from the system. Failure to do so can cause destruction of the clamping element by the escaping diesel effect.

**The supporting force should be matched to the clamping force in order to absorb machining forces.**

**The supporting force should always be at least twice as high as the clamping force.**



### Diagrams:



0.004 mm/kN elastic change in length under load

### Dimensions:

Order no.	Article no.	dia. A	B	D	E	F	G	SW	SW1	J x depth	K	M	P	Q	R1	S	dia. T	W	X	Y	Z	AA	AC
66852	6964F-04-2	16,0	56,0	25,0	24,0	5,5	M26x1,5	23	-	M8x7,5	33,5	24,5	44,5	17,5	G1/8	13,0	5,5	9	31,0	9	8,5	7°	-
66878	6964F-11-2	20,5	70,5	33,0	25,0	6,5	M35x1,5	30	-	M10x11,5	41,5	30,0	59,0	24,0	G1/8	18,0	7,0	10	43,0	10	8,5	7°	-
66894	6964F-33	38,0	111,0	68,5	25,0	12,5	Ø 57	50	28,5	M12x15	63,5	52,5	76,0	31,5	G1/8	26,0	7,0	16	61,0	16	10,3	-	4
66910	6964F-55	51,0	133,0	76,0	31,5	12,5	Ø 76	70	41,5	M16x20	89,0	73,0	97,0	44,5	G1/8	36,5	9,0	24	81,5	24	10,3	-	4

Subject to technical alterations.