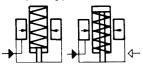


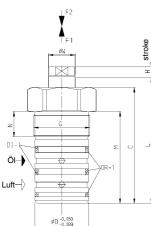
No. 6962F/L

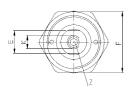
Support Element, cartridge flange

spring advanced or air advancing, max. operating pressure 400 bar, min. operating pressure 50 bar.



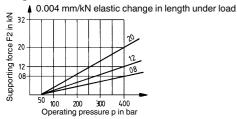




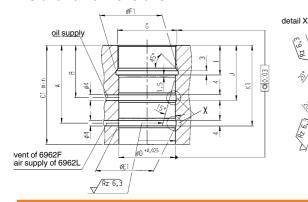


Contact force F1 (version 6962F) adjustable via threaded stud

Diagram:



Installation dimensions:





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i E	Order	Article no.	Contact force F1*	Support force F2	Stroke H	Vol.	Piston area	Weight
\$	no.		[N]	[kN]	[mm]	[cm ³]	[cm ²]	[g]
	65052	6962F-08	20-32	8	6	5,5	2,00	500
	65078	6962F-12	32-41	12	8	8,0	3,14	700
	65094	6962F-20	40-72	20	10	13,0	4,90	1100
	65060	6962L-08	170	8	6	5,5	2,00	500
	65086	6962L-12	270	12	8	8,0	3,14	700
	65102	6962L-20	440	20	10	13,0	4,90	1100

^{*}Article No. 6962F-**: Contact force F1 dependent on spring pretensioning and setting travel. Article No. 6962L-**: Contact force F1 dependent on air pressure at max. 10 bar.

Design:

Cylinder body from steel, burnished. Support pin case hardened and ground. Internal locking sleeve system Kostyrka. Special wiper prevents contamination. Support pin with internal thread. Home position retracted or extended, depending on function. Internal parts from stainless steel. Oil supply via oil channel in fixture body.

Application:

Support element no. 6962F-**: Plunger extended, spring adjustable contact force. Support element no. 6962L-**: Plunger retracted, pneumatic advance spring return. These spring or pneumatic advancing hydraulic support elements provide additional support to avoid vibration or deflection during machining. Even large workpiece tolerances can be compensated (castings). Fitted directly below a clamping point they prevent distortion of the workpiece. The support elements can be matched with clamping cylinders of same nominal size into one circuit. To prevent the support plunger from possible slackening during a clamping procedure, it is advisible to connect a sequence valve (no. 6918-2) to control the support elements. Due to this fact, the support element is locked before the clamping procedure can be activated (fig. 1, page 96). Being used as an additional support to prevent from bending and vibration, the element should be preceded by a sequence valve (no. 6918-2) in order to ensure supporting before clamping. In case the clamping force is higher than the support force, the clamping force has to be reduced by using a pressure recluding valve no. 6917.

Features:

High resilience due to high operating pressure, matched to the forces of the clamping cylinder row. Smooth contacting of the workpiece by adjustable spring or pneumatic pressure. The threaded type allows the supporting element to be accommodated in fixtures in a space-saving manner. Easy attachment of thrust pieces and/or thrust bolts in the piston rod thread.

Note:

For spring advanced types, there is risk of sucking in coolant! To avoid this, a breather hose has to be connected to the pneumatic port and moved to a protected area. Support pin must be protected against the entry of dirt and splash water by fitting a set screw or plug. The support elements must be properly vented! The vent port must always be on top. Failure to do so can cause destruction of the clamping element by the escaping diesel.

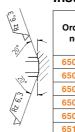
The supporting force should be matched to the clamping force in order to absorb machining forces.

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

Dimensions:

Order no.	Article no.	С	dia. D	E	F	G	К	L	М	N	dia. W	Z
65052	6962F-08	74	36	SW14	SW41	M38x1,5	M 8	81,0	57	12,5	16	SW4
65078	6962F-12	87	40	SW17	SW46	M42x1,5	M10	94,5	69	19,0	20	SW5
65094	6962F-20	104	45	SW22	SW50	M48x1,5	M12	113,5	85	22,0	25	SW6
65060	6962L-08	74	36	SW14	SW41	M38x1,5	M8	81,0	57	12,5	16	SW4
65086	6962L-12	87	40	SW17	SW46	M42x1,5	M10	94,5	69	19,0	20	SW5
65102	6962L-20	104	45	SW22	SW50	M48x1,5	M12	113,5	85	22,0	25	SW6

Installation dimensions:



	Order no.	Article no.	Α	В	C1 min.	dia. D H7	dia. E1	dia. F1	G	I	J	K1	OR-1 O-ring Order No.	DI-1 Seal Order No.
٤[65052	6962F-08	44,5	27,5	58	36	37	40	M38x1,5	14,5	29,5	46,5	110254	136192
	65078	6962F-12	55,0	37,0	70	40	41	44	M42x1,5	21,0	39,0	57,0	173047	136200
	65094	6962F-20	71,0	48,0	86	45	46	50	M48x1,5	24,0	50,0	73,0	136218	136226
	65060	6962L-08	44,5	27,5	58	36	37	40	M38x1,5	14,5	29,5	46,5	110254	136192
	65086	6962L-12	55,0	37,0	70	40	41	44	M42x1,5	21,0	39,0	57,0	173047	136200
	65102	6962L-20	71,0	48,0	86	45	46	50	M48x1,5	24,0	50,0	73,0	136218	136226

Subject to technical alterations