

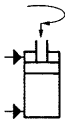
## No. 6951G

### Swing Clamp, thread-flange-mounting

Double-acting,  
max. operating pressure 350 bar,  
min. operating pressure 35 bar.



CAD



Order no.	Article no.	Clamping force at 350 bar Sp* [kN]	Clamping force at 350 bar Lo* [kN]	Clamping stroke M [mm]	Total stroke N [mm]	Vol. Sp [cm³]	Vol. Lo [cm³]	eff. piston area Sp [cm²]	eff. piston area Lo [cm²]	Q max. [l/min]	Weight [g]
68650	6951G-02-21	2	5,6	6	14,5	0,92	2,3	0,63	1,60	0,165	300
68676	6951G-02-22	2	5,6	6	14,5	0,92	2,3	0,63	1,60	0,165	300
68734	6951G-05-21	5	13,5	8	20,0	3,82	7,8	1,90	3,88	0,400	744
68759	6951G-05-22	5	13,5	8	20,0	3,82	7,8	1,90	3,88	0,400	744
68452	6951G-05-210	5	13,5	19	31,0	5,90	11,9	1,90	3,88	0,400	850
68478	6951G-05-220	5	13,5	19	31,0	5,90	11,9	1,90	3,88	0,400	850
68460	6951G-11-21	11	27,7	13	29,5	11,90	23,0	4,04	7,92	1,640	1379
68486	6951G-11-22	11	27,7	13	29,5	11,90	23,0	4,04	7,92	1,640	1379
68502	6951G-11-210	11	27,7	34	51,0	20,50	40,0	4,04	7,92	1,640	1941
68627	6951G-11-220	11	27,7	34	51,0	20,50	40,0	4,04	7,92	1,640	1941

Sp = clamp, Lo = unclamp

\* Clamping forces with short clamping arm.

### Design:

Cylinder barrel from steel, hardened and burnished. Piston rod hardened and chrome plated. Piston rod with internal thread and clamping arm positioning. Wiper at piston rod. Single acting version with return spring from stainless steel. Supply scope does not include clamping arm. Oil supply via threaded port.

### Application:

Swing clamps are used particularly in fixtures in which the workpiece must be freely accessible and placed from above. Workpieces with difficult shapes can also be clamped using special clamp arms (available on request).

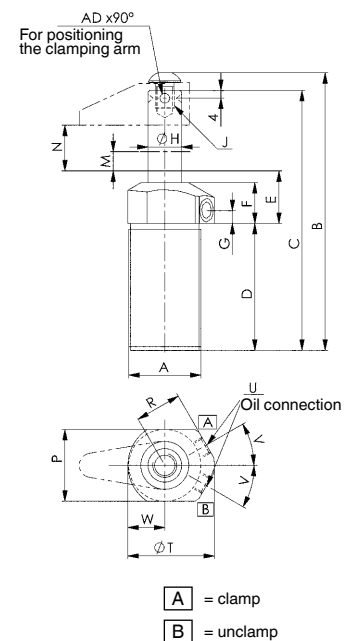
### Features:

Each cylinder size is available for single or double-acting operation. The swing motion employs a patented ball guide mechanism.

### Note:

The piston is guided, and so the max. permissible oil flow rate Q max. as well as the clamping arm length and weight must be observed. When mounting accessories at the piston, no force may be applied to the piston. For single-acting cylinders, there is risk of sucking in coolant through the breather port. In such cases the breather port has to be moved to a clean protected area via a connection line. When installing, ensure that all air is bled from the system. Grooved nuts DIN 70852 can also be used for attachment.

Other swivel angles are available on request.



### Dimensions:

Order no.	Article no.	A	B	C	D	E	F	G	dia. H	J x depth	P	R	dia. T	U	V	W	AD
68650	6951G-02-21	M28x1,5	108,0	102,0	44,0	30,5	25,5	13	11,13	M6 x 7	32,0	20,5	38,0	G1/8	25°	14,0	3,2
68676	6951G-02-22	M28x1,5	108,0	102,0	44,0	30,5	25,5	13	11,13	M6 x 7	32,0	20,5	38,0	G1/8	25°	14,0	3,2
68734	6951G-05-21	M38x1,5	143,0	134,0	60,0	36,0	31,0	13	15,88	M10 x 12	38,0	26,0	47,5	G1/8	35°	19,5	4,8
68759	6951G-05-22	M38x1,5	143,0	134,0	60,0	36,0	31,0	13	15,88	M10 x 12	38,0	26,0	47,5	G1/8	35°	19,5	4,8
68452	6951G-05-210	M38x1,5	176,5	167,0	82,5	35,5	31,0	13	15,88	M10 x 12	38,0	26,0	47,5	G1/8	35°	19,5	4,8
68478	6951G-05-220	M38x1,5	176,5	167,0	82,5	35,5	31,0	13	15,88	M10 x 12	38,0	26,0	47,5	G1/8	35°	19,5	4,8
68460	6951G-11-21	M48x1,5	185,0	172,0	79,0	38,0	32,0	13	22,23	M12 x 13	47,5	31,5	60,0	G1/4	30°	25,5	4,8
68486	6951G-11-22	M48x1,5	185,0	172,0	79,0	38,0	32,0	13	22,23	M12 x 13	47,5	31,5	60,0	G1/4	30°	25,5	4,8
68502	6951G-11-210	M48x1,5	249,0	235,5	121,5	38,0	32,0	13	22,23	M12 x 13	47,5	31,5	60,0	G1/4	30°	25,5	4,8
68627	6951G-11-220	M48x1,5	249,0	235,5	121,5	38,0	32,0	13	22,23	M12 x 13	47,5	31,5	60,0	G1/4	30°	25,5	4,8

Subject to technical alterations.