Upreach clamp arms *for swing clamps*

Shown: CAU-352, CAU-122, CAU-22

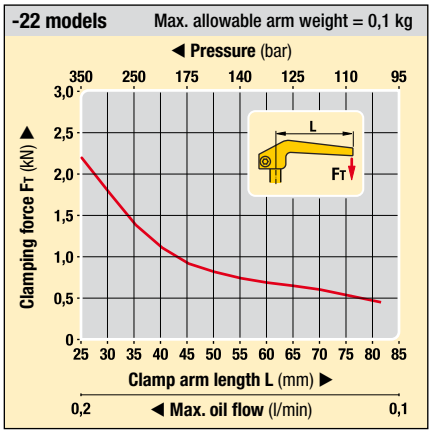
Enerpac's patented upreach clamp arm design attaches to the hydraulic swing cylinder, allowing parts to be clamped at various distances from the hydraulic cylinder. Clamp arms are available in an extended length which can be machined to fit your unique requirements.

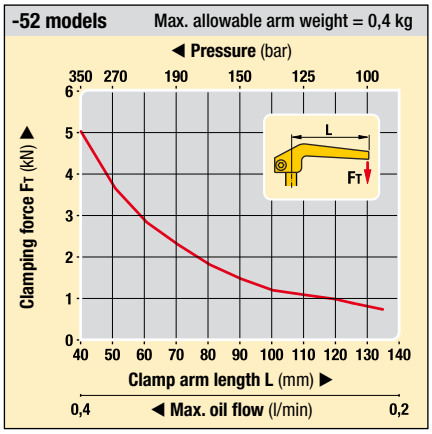
Patented Design

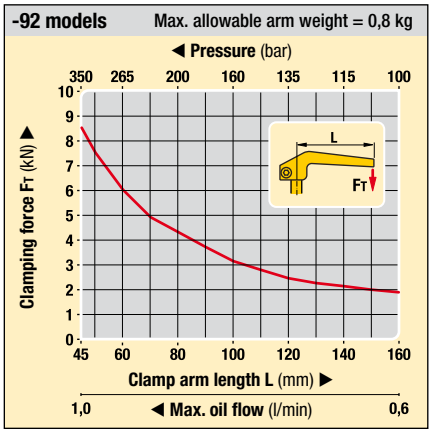
- Upreach design allows more flexible part clamping
- Arm can be easily installed and fastened while the cylinder is mounted in the fixture to allow exact arm positioning
- Vise not required for fastening arms
- Arm length can be cut to desired size
- Angled arm with minimal deflection achieves maximum workpiece contact.

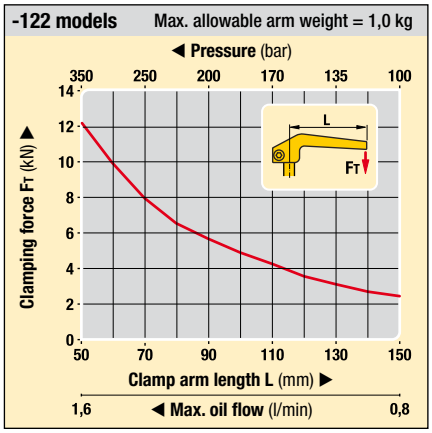
Pressure vs clamping force

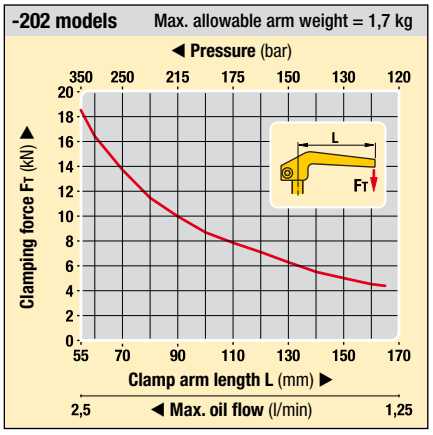
The use of different length clamp arms requires reduction in applied pressure and resulting clamp force. The charts below show this relationship.

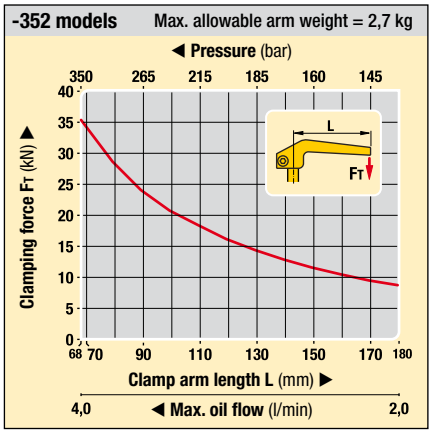








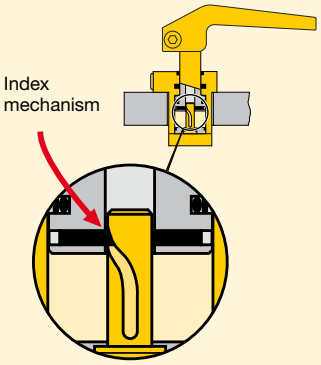




Important

Do not exceed maximum oil flow.

If flow rates are exceeded, swing cylinder indexing mechanism may be permanently damaged.



When designing custom clamp arms, the flow rates must be further reduced. This rating should be in proportion to the mass and the center of gravity of the clamp arm.

Example:

If the mass of the arm is twice that of the long arm, flow rates must be reduced by 50%.

Angled arms use deflection to improve clamping

Force: 0,4 - 33,8 kN

Pressure: 35 - 350 bar

E Brazos de amarre

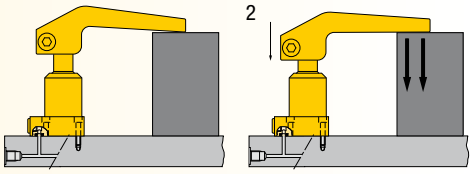
F Bras de bridage

D Spannarme

Angled arms

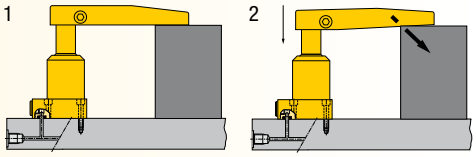
Tip engages part first and contact increases as clamping force is applied.

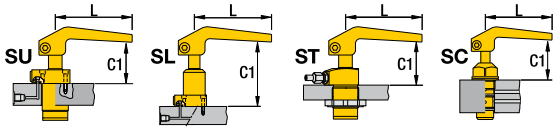
Eliminates “push” effect caused by straight arms deflecting under load.



Straight Arms

Great for most applications, but standard deflection can cause part movement and lower the true clamping force.





Options

Sequence valves 152 ▶

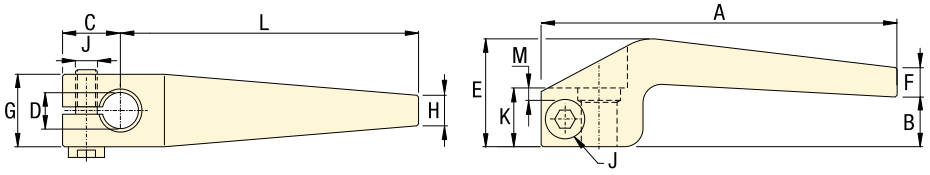
Flow control valves 155 ▶

Download CAD files from enerpacwh.com

Installation dimensions in mm [⌲ ⌖]

Model number	Clamp force	L	SU-Series C1	SL-Series C1	ST-Series C1	SC-Series C1
▼ Stock length dimensions						
CAU-22	0,44	82,5	56,6	109,7	56,6	53,1
CAU-52	0,89	134,8	71,6	137,7	71,6	78,7
CAU-92	2,00	160,0	73,6	149,6	78,7	-
CAU-122	2,22	161,1	83,5	169,4	83,6	91,7
CAU-202	4,45	177,5	88,1	175,3	95,3	-
CAU-352	8,45	180,0	99,0	192,0	106,2	-
▼ Minimum length dimensions						
CAU-22	2,22	25,0	59,7	112,8	59,7	56,1
CAU-52	5,56	40,0	76,7	142,7	76,7	83,8
CAU-92	9,01	45,0	79,9	155,7	84,8	-
CAU-122	11,57	50,8	89,4	175,3	89,4	97,5
CAU-202	18,68	55,0	94,5	181,6	101,6	-
CAU-352	33,81	68,0	106,9	199,9	114,1	-

CAU models **Upreach clamp arms**



Dimensions in mm [⌲ ⌖]

Model number	A	B Std.	B Min.	C	D	E	F Std.	F Min.	G	H Std.	H Min.	J	K	L Std.	L Min.	M	kg
CAU-22	98,5	13,7	16,8	16,0	9,98-10,01	29,7	8,1	13,7	20,0	8,4	20,8	M6 x 1	16,3	82,5	25,0	1,0	0,1
CAU-52	155,0	21,6	26,7	20,0	16,00-16,03	41,9	6,6	14,5	30,0	11,9	31,8	M6 x 1	19,1	135,0	40,0	1,3	0,4
CAU-92	190,0	23,6	29,7	30,0	25,02-25,04	48,0	10,9	19,3	40,0	14,5	40,9	M8 x 1,25	24,9	160,0	45,0	2,3	0,8
CAU-122	190,0	28,2	34,0	28,5	22,25-22,28	57,2	12,7	29,2	38,1	16,5	39,6	M10 x 1,5	30,0	161,5	50,8	3,8	1,0
CAU-202	212,5	32,3	38,6	35,0	32,00-32,03	61,2	13,2	24,4	60,0	17,3	54,4	M10 x 1,5	30,0	177,5	55,0	2,8	1,7
CAU-352	220,0	41,1	49,0	40,0	38,02-38,05	79,8	18,8	34,3	66,0	15,7	54,1	M10 x 1,5	40,1	180,0	68,0	1,8	2,7

Refer to clamping force charts on page 36.
Never cut shorter than indicated minimum length.