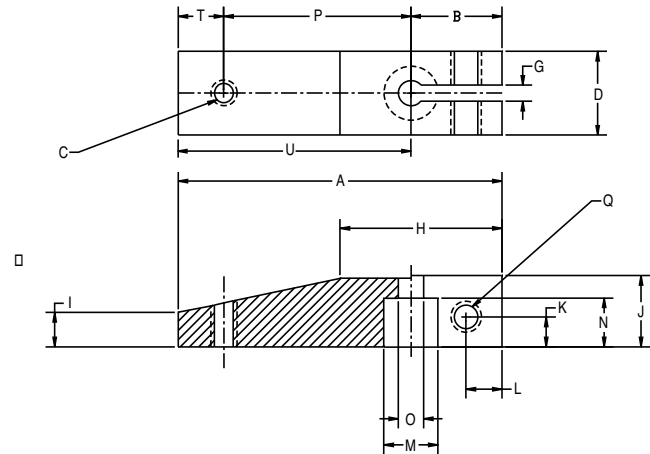


Series 030 Hydraulic Swing/Pull Clamps 475-2,400 lb. Arms

Custom built arms of any length must clamp to the swing/pull clamp's piston rod in a manner similar to the DE-STA-CO arms or some derating of the clamp will be necessary.

The design feature "K," in the chart and drawing at the bottom of this page, is recommended for all applications of custom, single arms. See the accompanying chart for design details. In applications where there is no bending stress being transferred into the piston rod (like push/pull linkages and equalizing double arms), this design detail may be eliminated. In these applications, the clamp's full capacity (referred to as "straight pull" capacity) is available.



Cat. no.	Specifications															Weight (lbs.)				
	A	B	C	D	G	H	I	J	K	L	M	N	O	P	Q		T	U		
031-S-475	1.929	0.709	M6	0.63	0.126	1.139	0.394	0.630	0.236	0.217	0.394	0.394	0.256	0.984	M6	0.236	1.220	0.159		
031-L-475	3.959	0.709	-	0.63		1.166	0.394	0.630			0.394	0.394	0.256	-	M6	-	-	-	3.250	0.348
031-S-1100	2.598	0.709	M8	0.748		1.294	0.433	0.748			0.630	0.472	0.33	1.575	M6	0.315	1.889	0.286		
031-L-1100	6.019	0.709	-	0.748		1.412	0.433	0.748			0.630	0.472	0.335	-	M6	-	-	5.310	0.721	
031-S-2400	3.268	0.866	M10	1.125		1.459	0.633	1.00			0.866	0.709	0.413	1.969	M8	0.433	2.402	0.634		
031-L-2400	7.226	0.866	-	1.125		1.696	0.633	1.00			0.866	0.709	0.413	-	M8	-	-	6.360	1.564	

**IMPORTANT:** Any clamp using a modified or custom arm that is longer or heavier than DE-STA-CO's standard arms must be derated to prevent internal damage.  
 Do not exceed the maximum speed and pressure ratings for DE-STA-CO's standard arms.  
 For maximum hydraulic pressure and speed ratings, see the accompanying charts  
 Do not use meter-out circuitry for controlling double-acting clamp speeds  
 Contact DE-STA-CO if further design assistance is required

Custom Arm Mounting Dimensions for Swing/Pull Clamps

Shaft Dia.	Specifications										
	A	B	C	D	E	F	G	H	J	K	M
10 MM	0.394	0.256	0.63	0.63	0.709		0.394	0.236	0.217		M6 x 1.0
16MM	0.630	0.335	0.748	0.748	0.709	1.26	0.472	0.236	0.217	0.30	M6 x 1.0
22 MM	0.866	0.413	1.00	1.00	0.866		0.709	0.236	0.217		M8 x 1.25

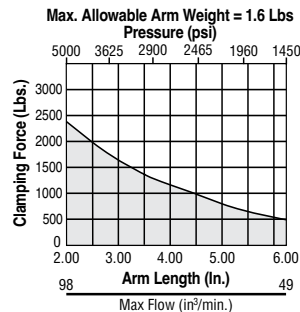
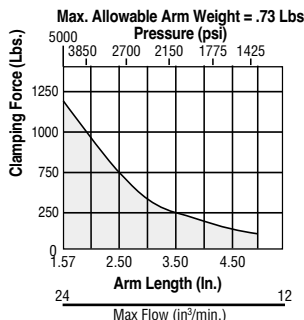
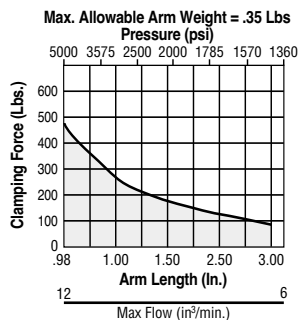
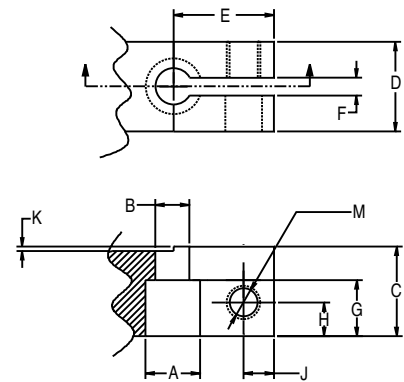


Chart Legend

- Maximum Length / Pressure
- ▭ Operating Range

Clamps must operate at or below maximum/arm length/pressure curve:

To approximate clamping force with any arm at less than maximum pressure:

$$FORCE = P \times A \times [1 - (P/M \times .23)]$$

P = Hyd. system operating pressure (PSI)

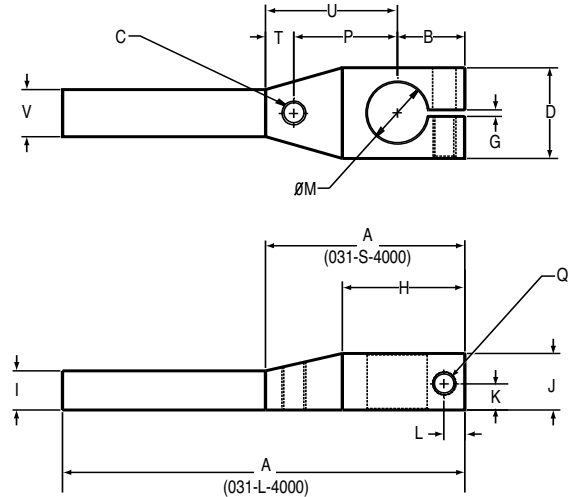
A = Clamp effective area (sq. in.)

M = Max. rated pressure of chosen arm length (PSI)

Series 030 Hydraulic Swing/Pull Clamps – 4,000 lb. Arms

Custom built arms of any length must clamp to the swing/pull clamp's piston rod in a manner similar to the DE-STA-CO arms or some derating of the clamp will be necessary.

The design feature "K," in the chart and drawing at the bottom of this page, is recommended for all applications of custom, single arms. See the accompanying chart for design details. In applications where there is no bending stress being transferred into the piston rod (like push/pull linkages and equalizing double arms), this design detail may be eliminated. In these applications, the clamp's full capacity (referred to as "straight pull" capacity) is available.

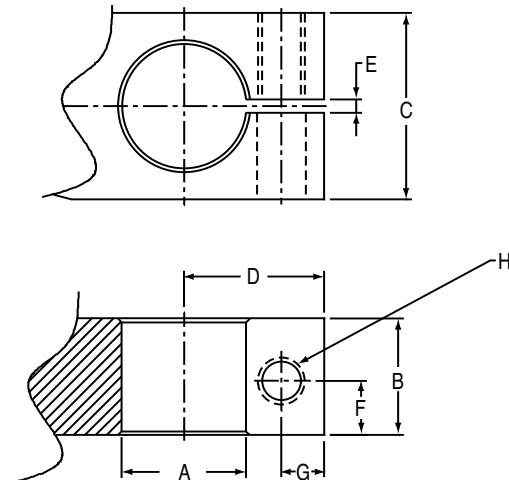


Cat no.	Specifications																Weight (lbs.)
	A	B	C	D	G	H	I	J	K	L	M	P	Q	T	U	V	
031-S-4000	4.17	1.42	1/2-13	1.89	0.138	2.56	0.83	1.18	0.55	0.43	1.26	2.17	M12	0.58	2.75	0.98	1.80
031-L-4000	8.43	1.42	1/2-13	1.89	0.138	2.56	0.83	1.18	0.55	0.43	1.26	-	M12	-	7.01	0.98	2.80

**IMPORTANT:** Any clamp using a modified or custom arm that is longer or heavier than DE-STA-CO's standard arms must be derated to prevent internal damage.  
 Do not exceed the maximum speed and pressure ratings for DE-STA-CO's standard arms.  
 For maximum hydraulic pressure and speed ratings, see the accompanying charts  
 Do not use meter-out circuitry for controlling double-acting clamp speeds  
 Contact DE-STA-CO if further design assistance is required

Custom Arm Mounting Dimensions for 4,000 lb. Swing/Pull Clamps

Cat no.	Specifications							
	A	B	C	D	E	F	G	H
32MM	1.26	1.18	1.89	1.42	0.138	0.55	0.43	M12 x 1.75



031-S-4000 • 031-L-4000

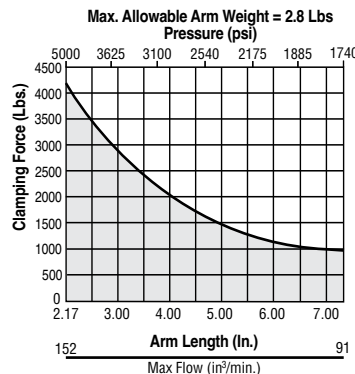


Chart Legend

— Maximum Length / Pressure  
 [Shaded Area] Operating Range  
 Clamps must operate at or below maximum/arm length/pressure curve:  
 To approximate clamping force with any arm at less than maximum pressure:  
**FORCE = P x A x [1 - (P/M x .23)]**  
**P** = Hyd. system operating pressure (PSI)  
**A** = Clamp effective area (sq. in.)  
**M** = Max. rated pressure of chosen arm length (PSI)