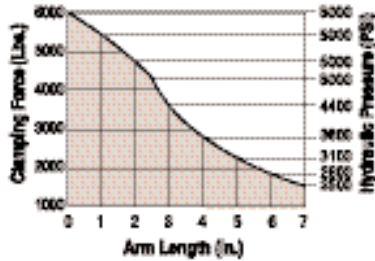
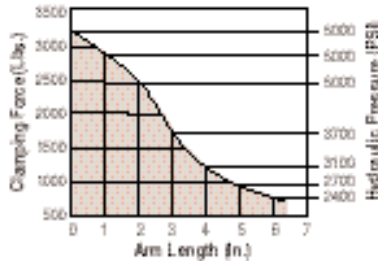


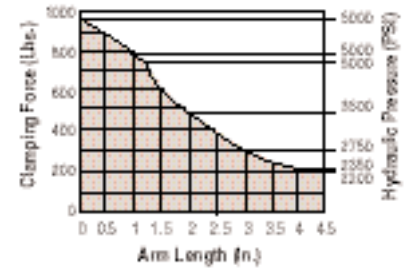
Swing/Pull Clamp Performance



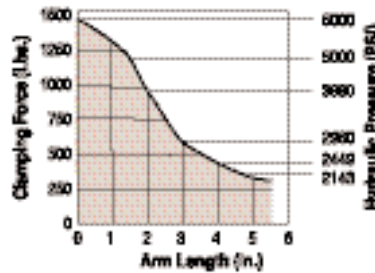
Clamp Performance
2 1/2", 5,000 Lbs. Capacity Swing/Pull Clamps



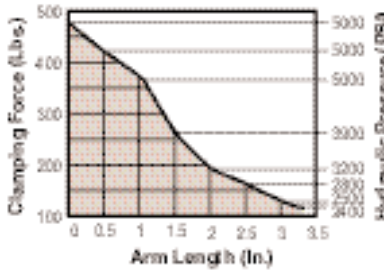
Clamp Performance
1 3/4", 2,400 Lbs. Capacity Swing/Pull Clamps



Clamp Performance
1 1/2", 750 Lbs. Capacity Swing/Pull Clamps



Clamp Performance
1 1/2", 1,200 Lbs. Capacity Swing/Pull Clamps



Clamp Performance
1 1/4", 365 Lbs. Capacity Swing Pull Clamps

Chart Legend

- Minimum Length / Pressure
- Operating Range

Clamps must operate at or below minimum arm length/pressure curve.

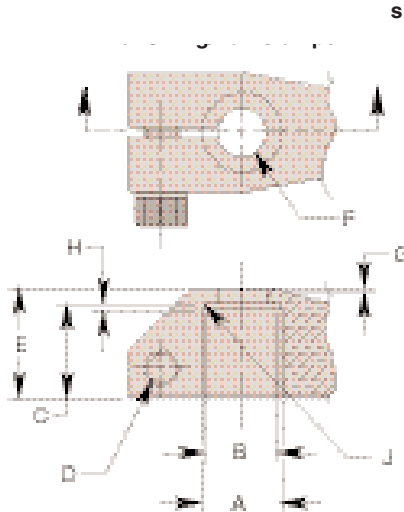
To approximate clamping force with any arm at less than maximum pressure:

$$FORCE = P \times A \times (1 - (P/M \times .25))$$

P = Hyd. system operating pressure (PSI)

A = Clamp effective area (sq. in.)

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



Custom built arms of any length must clamp to the swing/pull clamp's piston rod in a manner similar to the Hytec arms or some derating of the clamp will be necessary. The design feature allowing the arm to be clamped to the piston rod is recommended for all applications of single and double 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.

IMPORTANT:

Any clamp using a modified or custom arm that is longer or heavier than Hytec's standard arms must be derated to prevent internal damage. Do not exceed the maximum speed and pressure ratings for Hytec'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 Hytec if further design assistance is required.

SWING / PULL CLAMP CUSTOM ARM MOUNTING DIMENSIONS										
Specifications		Dimensions (In Inches)								
*Clamp Rating (Lbs.)	Standard Arm Cat. No.	A Dia.	B Dia.	C	**D Thread Size	E	F Dia.	G	H Max.	J Radius
365	500167	.437 .439	.415 .439	.520 .540	1/4-20 UNC	.600	.270	.025	.020	.005 .020
750	500154	.562 .564	.540 .564	.650 .670		.760				
1200	110185	.625 .627	.602 .627	.700 .720	5/16-18 UNC	.830	.387	.030		
2,400	500150	.875 .878	.853 .878	1.030 1.010	3/8-16 UNC	1.200	.534	.060	.060	
5,000	500152	1.250 1.253	1.228 1.253	1.420 1.440	1/2-18 UNF	1.700	.659	.050	.050	

NOTE: * See charts for capacity and maximum pressure at desired arm length.
** Torque must be sufficient to secure arm to piston rod.