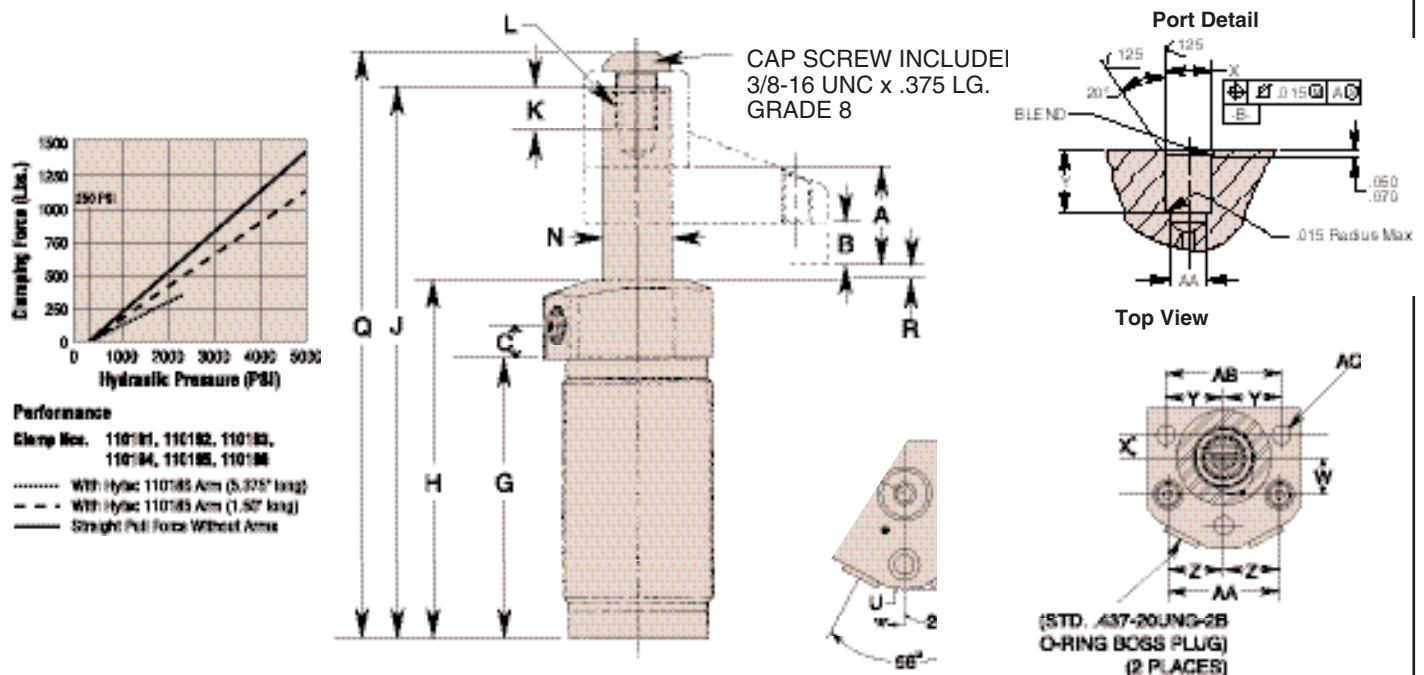


- Unique connector bushing provides positive mating with fixture, reducing the potential for leakage or weeping.
- Simple cavity design eliminates need for threaded holes in mating surfaces
- Manifold design eliminates external plumbing and reduces fixture height
- “Live Roller” design provides industry’s most reliable swing/pull mechanism
 - o Piston/Cam combination provides solid path for clamping action
 - o Typical ball and groove mechanism has higher potential for clogging and for damage from mis-aligned work pieces

- Available in single and double acting versions
- Special rod wiper seal protects internal clamp components
- Unique drainage system channels contaminants away from clamp
- Corrosion resistant construction
- Heat treated, chrome plated piston rod
- Unique “Live Roller®” swing mechanism for increased service life
- Power-Tech™ treated body and hardened cam for long wear and corrosion resistance
- Straight pull capacity 1,472 lbs. at 5,000 psi max



Cat. No.	Specifications							Dimensions (In Inches)				
	Oper.	Swing Direction	*Force (Lbs.)	Eff. Area (Sq. In.)		Oil Cap. (Cu. In.)		A Total Stroke	B Clamping Stroke	C	D Clamp Port	E Unclamp Port
				Clamp	Unclamp	Clamp	Unclamp					
110191	Single-Acting	Left Hand (Counter Clockwise)	1,200	.294	—	.260	.873	.336	.441	7/16-20UNF SAE-4	Breather Plug 7/16-20UNF SAE-4†	
110192		Right Hand (Clockwise)										
110193		Straight Pull										
110194	Double-Acting	Left Hand (Counter Clockwise)		.601	.530	7/16-20UNF SAE-4					7/16-20UNF SAE-4	
110195		Right Hand (Clockwise)										
110196		Straight Pull										

Cat. No.	Dimensions (In Inches)																		
	G	H	J	K Thread Min.	L Thread Size	N Dia. ††	Q	R	S	T	U Radius	V	W	X	Y	Z	AA	AB	AC
110191	2.550	3.625	5.310	.275	¾-16UNC	.625	5.610	.104	2.305	2.125	1.375	1.302	.560	.340	.875	.845	1.690	1.750	.283
110192																			
110193																			
110194																			
110195																			
110196																			

NOTE: † Do not pressurize - single-acting only. *With 1.5" arm at 5,000 psi max. operating pressure. Internal cam may be removed for an unguided straight pull. See page 58 for maximum operating speeds and rotation options.
†† See page 59 for custom arm mounting.