

Cartridge Pull Cylinders



These "Pull" cylinders retract when hydraulically pressurized. They were created to permit the user to design a cylinder into a fixture while maintaining the replaceability and long life of a heat treated, corrosion resistant cylinder body. Typical applications of these cylinders include installation behind fixture plates or buried in tombstones where they can supply clamping force without taking up valuable fixture space.

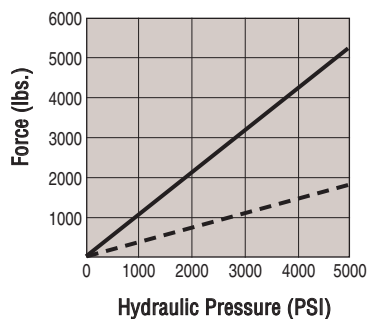
These pull cylinders were designed for cartridge mounting in a cavity supplied by the user. The required cavity is simply a cylindrical bore with a properly deburred pressure port intersecting it, providing the hydraulic fluid connection. They are for single acting systems only where the force

for cylinder return (extension) is supplied manually or through a spring designed into the application by the user. A return spring that can be built into the application is available.

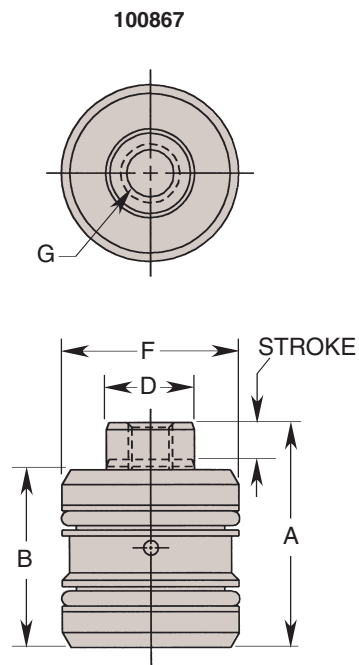
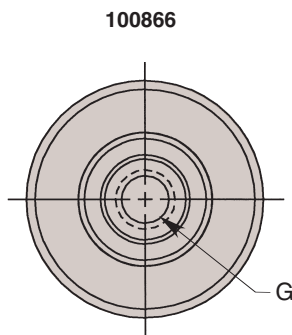
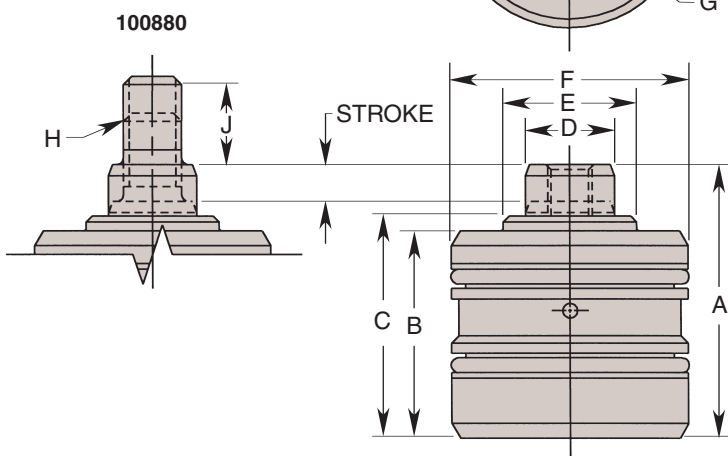
(No. 251549 Order Separately)

Features:

- Compact design
- Manifold mounting eliminates tubing
- Threaded, plated piston rod
- Power-Tech™ treated body for long wear and corrosion resistance
- 5,000 psi maximum pressure rate
- Rod wiper to exclude contaminants
- Single-Acting



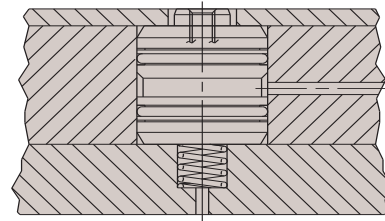
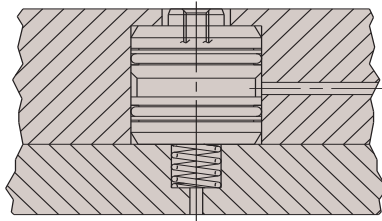
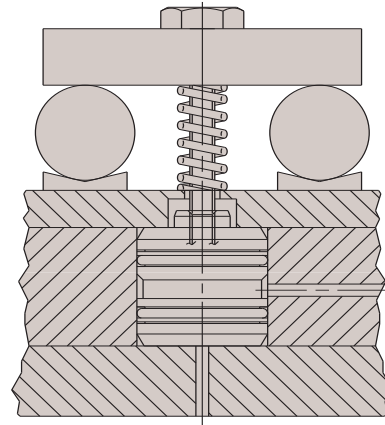
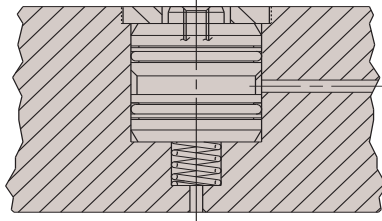
Performance
 — Cylinder Nos. 100866, 100880
 - - - Cylinder No. 100867



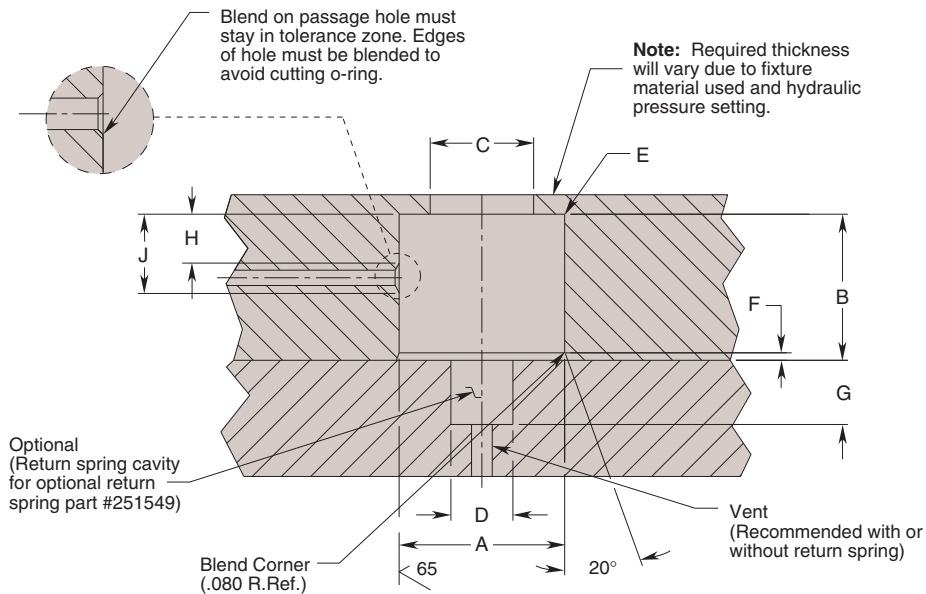
Cat. No.	Specifications				Dimensions (In Inches)									
	*Force (Lbs.)	Stroke (in.)	Eff. Area (Sq. In.)	Oil Cap. (Cu. In.)	A	B	C	D Dia.	E Dia.	F Dia.	G Thread		H Thread Size	J
											Size	Depth		
100866	5,215	.312	1.043	.325	2.312	1.750	1.875	.750	1.125	2.000	¾-16 UNC	.500	—	—
100867	1,740		.348	.108	1.902	1.500	—	.750	—	1.500			—	—
100880	5,215		1.043	.325	2.312	1.750	1.875	.750	1.125	2.000	—	—	½-13 UNC	.750

Note: * Based on 5,000 psi max. operating pressure.

100866-100867-100880 INSTALLATION IDEAS



MOUNTING CAVITY



Cat. No.	Cavity Dimensions							Oil Passage Location	
	A Dia.	B Cylinder Body Cavity	C Dia.	D Dia.	E Chfr. / Rad. Max.	†F	G	*H Min.	*J Max.
100866	2.000	1.755	1.750	.744	.065	.080	.760	.485	1.020
	2.003	1.765	1.135						
100867	1.500	1.500	1.250	.754	.065	.100	.790	.510	.970
	1.503	1.510	.780						
100880	2.000	1.755	1.750	.744	.065	.080	.760	.485	1.020
	2.003	1.765	1.135						

* Tolerance zone for blended oil passage hole. Tolerance zone does not allow any up and down motion of cylinder body.
 † Chamfer to be located at end of bore "A" from which the cylinder will be assembled.