

Fluid Adv. Work Supports-4,000 lb. Cap.



Hytec's fluid advance work supports have a spring loaded plunger which hydraulically extends to contact the workpiece. To support any externally applied loads, the sleeve surrounding the plunger grips the plunger and holds it in place.

Fluid advance work supports allow the plunger to be retracted out of the way during workpiece load/unload operations. The work support provides its own internal sequencing of a piston which gently raises the plunger until it contacts the workpiece. A spring between the piston and the plunger limits the workpiece contact force.

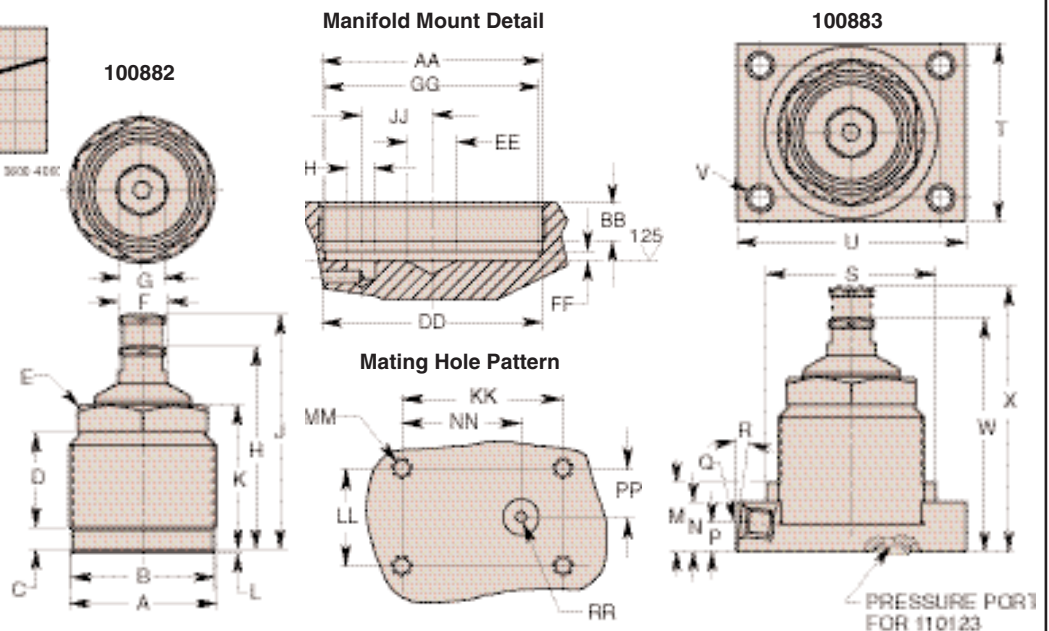
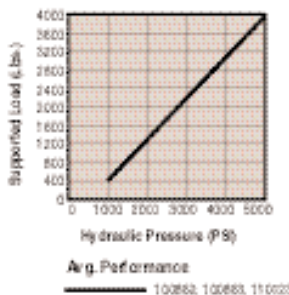
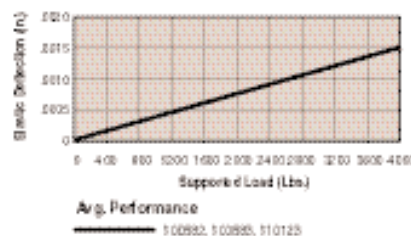
The 100882's threaded body may be compactly manifold mounted in your fixture or choose the No. 100883 which includes the 100882 work support and a mounting base for installation on a flat surface for conventionally plumbed circuits.

Both feature fully corrosion resistant construction.

Extremely close manufacturing tolerances hold the plunger perpendicular to the workpiece and eliminate inaccuracies due to plunger movement during lock-up. After lock-up, the plunger is absolutely rigid and limits elastic deflection to .00004" per 100 lbs. of load. For base only, order number 500028 for conventional mounting, and 421728 for manifold mounting.

Features:

- 4,000 lbs. capacity @ 5,000 psi max.
- Fully corrosion resistant construction
- Manifold mount or conventional base mounting
- Small, filtered breather/rest button to accommodate intricate workpieces
- 1,000 psi minimum recommended pressure



Cat. No.	Specifications					Dimensions (In Inches)									
	*Cap. (Lbs.)	Oil Cap. (Cu. In.)	Max. Flow Rate (Cu. In./Min.)	Advance System	Mounting Configuration	A	†B Seal Dia.	C	D	E Hex.	F Dia.	G Hex	Operating Range		K
													H	J	
100882	4,000	.12	10	Fluid	Cartridge Manifold	2¼-16 UN	2.140	.250	1.625	2.000	.735	.688	3.265	3.765	2.312
100883					Base Conventional		—	—	—				—	—	
110123					Base Manifold										

Cat. No.	Dimensions (In Inches)										Operating range	
	L Seal	M	N	P	Q Press. Port Thd. Size	R Port Angle	†S Dia.	T	U	V	W Retracted	X Advanced
100882	.040	—	—	—	—	—	—	—	—	—	—	—
100883	—	.945	.735	.420	½-20 UNF SAE-4	5°	2.688	2.750	3.562	.281	3.680	4.180
110123	—	—	—	—	—	—	—	—	—	—	—	—

FLUID ADVANCE WORK SUPPORT		
Cat. No.	Approximate Forces Required To Depress Plunger (Lbs.)	
	Fully Extended	Fully Depressed
100882	4	8
100883		

Cat. No.	Mounting Dimensions (In Inches)														
	AA Thd. Size	BB Min. Thd.	CC	DD Dia.	EE Drill Point Max.	FF	GG Dia.	HH Dia.	JJ Max.	KK	LL	MM Thd. Size	NN	PP	RR Pressure Port Dia. Max.
100882	2¼-16 UN	.380	.560	2.182	.500	.080	2.145	.121	.700	—	—	—	—	—	—
100883	—	—	.580	2.196	—	.100	2.155	.293	—	—	—	—	—	—	—
110123	—	—	—	—	—	—	—	—	—	2.843	2.063	½-20 UNC	2.122	1.032	†††.126

NOTE: * Based on 5,000 psi max. operating pressure
For optional jam nut see page 60
For additional flow control valves see pgs. 105 & 123.
For optional accessories see page 73.

† Seal included.
†† 2.768 dia. min. clearance required.

††† Surface finish to be 63. Finish of 125 acceptable with concentric tool marks only. Finish area to be .438 dia. min. centered on .126 dia. port hole. See operating instructions for additional port details.