

Cylinders

Block Body Pull Cylinder

NEW

**AUTOMATE Your Wedge Driven
and Bolt-Down clamps
on new or existing fixtures!**

Single Acting

This advanced design block body cylinder mounts under the surface plate to pull a threaded fastener, making for easy-to-build fixturing on the new designs and giving you the option to add hydraulic control to many existing fixtures SAE porting receives fittings for either flexible or hard tubing external plumbing.

- Save hours by not manual clamping.
- Automate your new or existing fixtures that use wedge driven or bolt down clamps.
- Available in nine plunger thread and capacity combinations designed to fit Mitee-Bite Uniforce, Pitbull, and OK Vise clamps.
- Short stroke lengths make for a more compact device.
- Easily plumbed using either flexible hose or hard tubing.
- Ramp feature helps keep chips from packing and coolant contaminants from entering the cylinder.
- Two SAE ports per cylinder to easily connect multiple devices.

Mitee-Bite®, Uniforce® and Pitbull® are trademarks of Mitee-Bite Products LLC
OK-Vise® is a registered trademark of Ok-Vise Oy.

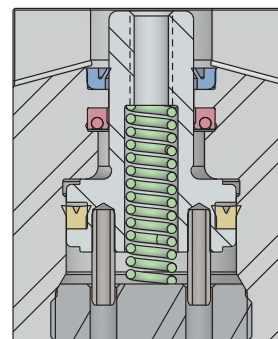


Model No.	Cylinder Capacity* Retract	Stroke**	Plunger Thread***	Body Height	Effective Piston Area (sq. in.) Retract	Oil Capacity (cu. in.) Retract
20-1106-01	980	.13	8-32	1.59	.20	.03
20-1109-01	2,000		1/4-20	1.83	.40	.10
20-1111-00	2,950	.19	5/16-18	1.98	.59	.14
20-1113-00	5,200		3/8-16	2.10	1.04	.25
20-1113-01			1/2-13	2.63	1.80	.60
20-1116-00	9,000	.31	5/8-11	2.94	3.54	1.23
20-1116-01						
20-1121-00	17,100					

* Cylinder capacities are listed at 5000 PSI operating pressure. The minimum operating pressure is 750 PSI for single acting operation. The cylinder force is adjustable by varying the hydraulic pressure to the cylinder. To determine the approximate output of the cylinder for your application, divide the cylinder capacity shown above by 5000 PSI and multiply the resultant by your system pressure in PSI to obtain the approximate cylinder force for your application. (Actual forces will vary slightly due to internal friction and/or return spring force.)

** Cylinder stroke may exceed stroke of clamping element. Limiting cylinder stroke may be required to ensure proper operation of clamping element.

*** At full cylinder capacity, fastener life will be limited and fasteners should be considered service items. Fasteners should be replaced frequently when operating at full capacity to prevent plunger damage. Models 20-1111-00 and 20-1113-00 are not recommended for use above 2500 PSI.

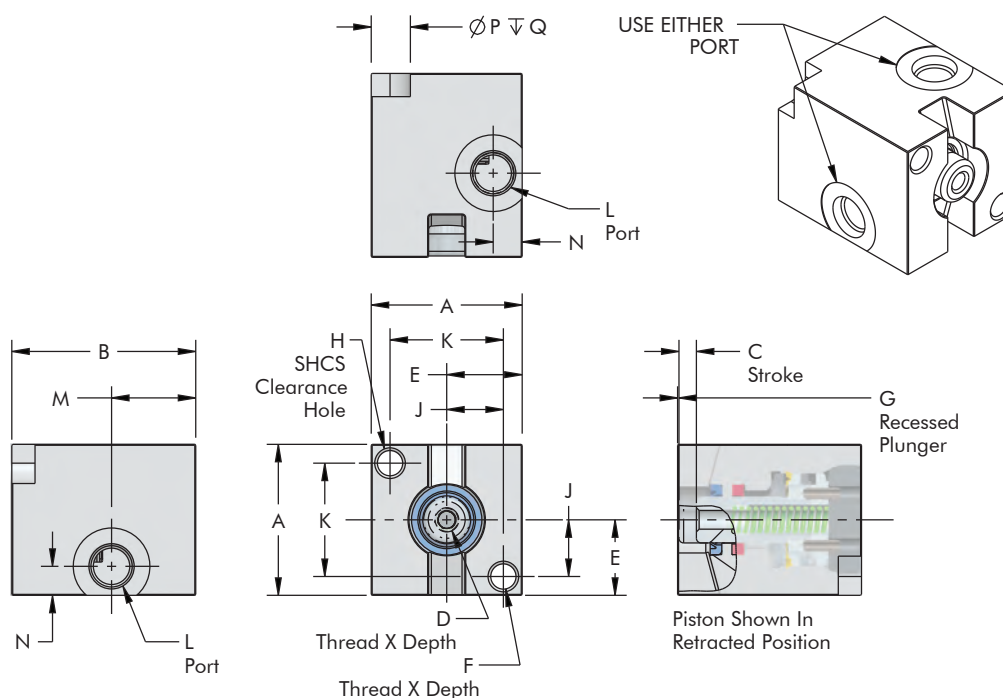


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Cylinders

Block Body Pull Cylinder



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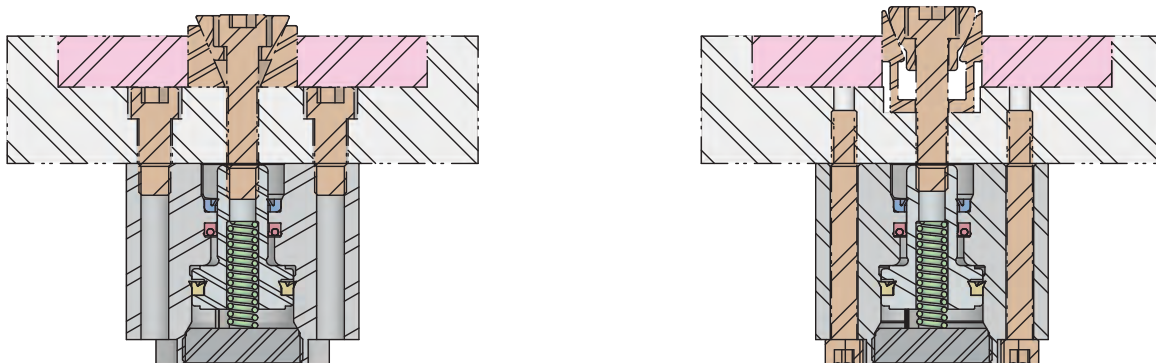
Dimensions

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Model No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
Single Acting (S/A) Cylinders, actuated hydraulically in one direction, spring returned.															
20-1106-01	1.38	1.59	.13	8-32 X .25	.69	1/4-28 X .50	.015	10-24	.50	1.00	SAE 2	.78	.25	.38	.19
20-1109-01	1.50	1.83	.19	1/4-20 X .46	.75	1/4-28 X .50	.015	10-24	.56	1.13	SAE 2	.88	.25	.38	.19
20-1111-00	1.63	1.98	.19	1/4-20 X .50	.81	5/16-24 X .63	.015	1/4-20	.61	1.22	SAE 4	.91	.31	.44	.25
20-1111-01	1.63	1.98	.19	5/16-18 X .50	.81	5/16-24 X .63	.015	1/4-20	.61	1.22	SAE 4	.91	.31	.44	.25
20-1113-00	2.13	2.10	.19	3/8-16 X .66	1.06	3/8-24 X .75	.015	5/16-18	.81	1.63	SAE 4	.98	.34	.53	.31
20-1113-01	2.13	2.10	.19	1/2-13 X .66	1.06	3/8-24 X .75	.015	5/16-18	.81	1.63	SAE 4	.98	.34	.53	.31
20-1116-00	2.50	2.63	.31	1/2-13 X .50	1.25	1/2-20 X 1.00	.100	3/8-16	.94	1.88	SAE 4	1.09	.41	.63	.38
20-1116-01	2.50	2.63	.31	5/8-11 X .59	1.25	1/2-20 X 1.00	.015	3/8-16	.94	1.88	SAE 4	1.09	.41	.63	.38
20-1121-00	3.25	2.94	.31	5/8-11 X .78	1.63	5/8-18 X 1.25	.015	1/2-13	1.22	2.44	SAE 4	1.38	.58	.81	.50

Note: Anti-Rotation pins intended for hand installation of bolt only. Do not torque bolts against anti-rotation pins.

Mounting Examples



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