Tufflink™ 360° Link Clamps

WORLD'S ONLY!

Double Acting Cartridge Mount Twin Lever Design

SCREW-IN Twin Lever Link Clamp

NEW

Made possible by Vektek's equalizing system!

- Patented rotary lug feature delivers 360 degrees of lever/body positioning. This permits a cartridge mount body with no need for thread clocking.
- Cartridge mount body minimizes clamp footprint with simple and easy to machine cavity.
- Available in 3 sizes, 1100lb, 1700lb, and 2600lb total clamping force at 5000 PSI.
- Significantly increased vertical clamping stroke over standard link clamp allows access to clamp through a hole onto the surface of work piece.
- Clamp on two parts with one link clamp or reach through a part hole.
- Load equalizing mechanism allows uniform clamping when work piece surfaces are within 0.060 inches.
- Cartridge mount body is manifold mount only.
- Levers sold separately.
- Levers must clamp on flat surface.

U.S. Patent No. 8,678,362

D-3

Specifications

Model No.	Clamping Capacity (lb)*	Vertical Clamping Stroke (in)**	Effective Piston Area (sq. in.) Extend	Oil Capacity (cu. in.) Extend	Oil Capacity (cu. in.) Retract	Maximum Flow Rate*** (cu. in./min.)
Double Acting (D/A) Cylinders, actuated hydraulically both directions.						
16-4215-20	1,100	0.18	0.274	0.141	0.051	17
16-4218-20	1,700	0.24	0.394	0.259	0.080	31
16-4222-20	2,600	0.29	0.616	0.511	0.186	61

* Clamp capacities are listed at 5000 PSI maximum operating pressure with a standard length link clamp lever installed. Total clamping force is divided equally between each side. Minimum operating pressure is 500 PSI for double acting. The clamping force is adjustable by varying the hydraulic system pressure. Use of an extended length lever will result in a reduction of clamp force. (Actual force will vary slightly due to mechanical inefficiencies, and friction.) Concentric design allows reaching up through a bore to clamp a single part.

** Equal to ±10° with standard lever.

*** To ensure maximum service life and trouble-free operation, restrict fluid flow to the above flow ratings when clamping. If you are unable to measure flow rates, these devices should be positioned in no less than 1/2 second. These recommendations apply when using the standard lever. When using the optional extended lever or your custom lever, please restrict the flow rates to position the lever in no less than 1 second.

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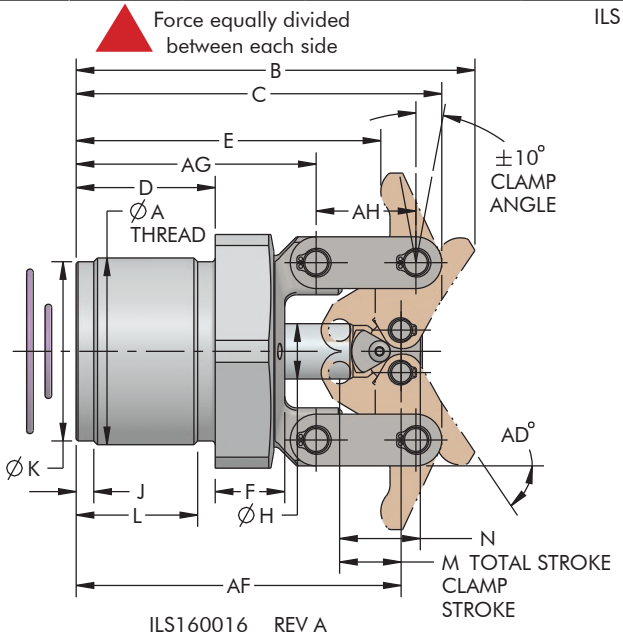

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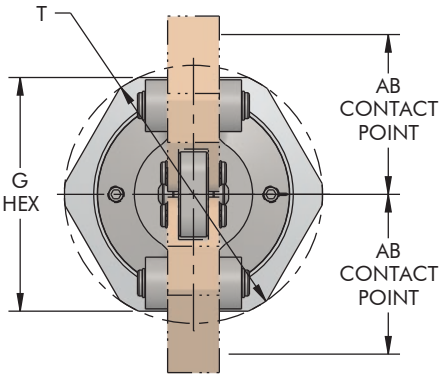
TuffLink 360™



For proper sealing, the mating surface must be flat within .002 in. with a maximum 63 μin R_a surface finish.

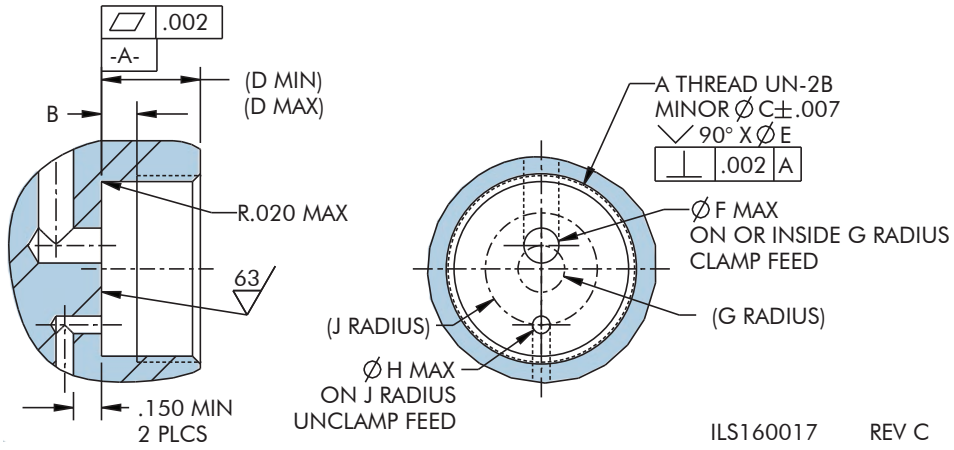
Dimensions (in.)

Model No.	A	B	C	D	E	F	G	H	J	K	L	M	N
Double Acting (D/A) Cylinder, actuated hydraulically both directions.													
16-4215-20	1 3/4 - 16	3.63	3.32	1.37	2.77	0.59	2.00	0.47	0.16	1.66	1.25	0.51	0.64
16-4218-20	2 - 16	4.25	3.89	1.48	3.25	0.74	2.50	0.59	0.19	1.91	1.29	0.65	0.86
16-4222-20	2 1/4 - 16	4.91	4.45	1.51	3.68	0.97	3.00	0.71	0.20	2.15	1.31	0.83	1.07

Model No.	T	AB	AD	AF	AG	AH
16-4215-20	2.188	1.38	54	2.97	2.24	0.846
16-4218-20	2.750	1.70	56	3.46	2.56	1.063
16-4222-20	3.250	2.03	54	4.02	2.90	1.201

Tufflink™ 360° Link Clamps

Cartridge Mount Twin Lever Cavity Dimensions



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Cartridge Mount Twin Lever Link Clamp Cavity Dimensions (in.)

Model No.	A	B	C	D Min	D Max	E	F	G	H	J	INSTALLATION TORQUE
16-4215-20	1 3/4 - 16	0.12	1.689	0.50	1.31	1.78	0.250	0.189	0.157	0.561	110 ft-lb
16-4218-20	2 - 16	0.12	1.939	0.63	1.41	2.03	0.250	0.252	0.188	0.658	150 ft-lb
16-4222-20	2 1/4 - 16	0.12	2.189	0.75	1.46	2.28	0.250	0.341	0.188	0.725	200 ft-lb

Proper Clamping for Twin Lever Link Clamps