



“威克泰克”旋轉支撐夾具元件系列

低壓杠杆缸



中國區域經銷

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對vektek機加工治具夾具元件專題介紹

— 使用美國vektek系列產品的六大優勢:

1.vektek 是世界同类产品在产品研制技术和产品质量竞争的前两名之一，是世界旋转缸系列产品生产群中的领头羊和开拓者之一。

2.vektek 高压系统的设计，使具有同等夹持力的夹具缸体积更小。小的身材发挥更大的夹持力，有效减少夹具体占用工作台空间，让机床工作台空间更有效的用来放置多的被加工件，从而更有效的提高工作效率。

3.vektek产品全部采用合金钢制作，辅以先进的表层保护处理和几十年专业制作转角缸（旋转缸）的经验和先进工艺，有效保证产品的长寿命和产品运行的稳定性等优秀性能。威克泰克vektek夹持元件/支撑元件和相关控制元件在著名的美国卡特彼勒公司生产履带零件的机加设备上夹持被加工的高硬度、大切削量、加工时高冲击性的铬锰钢材料类履带零件，经九年的跟踪观察，威克泰克vektek夹持元件等无损坏现象。威克泰克vektek绝对是您的忠实伙伴，可靠朋友！

vektek 系列支撑缸更是独树一帜，是确保你的被支撑工件丝纹不动的唯一选择。

4.vektek 产品价格合理，比同等质量的价位低很多，可以说是以同类中档产品的价格在进行高档产品的应用服务。在你使用的一个时间周期里，vektek 会用自己产品质量的长寿命和产品的优秀性能为你有效节省在夹具缸方面的更少开支,为你的生产速度和生产稳定性提供更大支持。你会从中收获巨大效率。使用 vektek 产品是显著增效节支的优秀途径。

5.vektek 不仅继续在高压系列产品的研发上攀登，而且想客户所想，急客户所急,在了解到亚洲及中国市场使用低压系统较多的情况后，于今年 3 月迅速开始研制低压产品，利用自己几十年专业制作转角缸（旋转缸）的经验和先进工艺，仅用两个月时间,就开发出低压杠杆缸系列产品并投放亚洲和中国市场。满足市场需求，满足客户需要，是 vektek 的宗旨。

6.vektek 在中国派驻有专业高级工程师，进行售前和售后服务。如果你有自己制作夹具的基本设备能力，针对某一被加工件的夹具设计又有疑难，你只要把被加工件图纸和准备用于机加的设备的的基本参数给我，vektek 即可免费为你提供规划设计方案；不管你在何时何地何方买的设备、夹具，只要上面是 vektek 夹具缸，你在安装、调试和以后的生产过程中有什么困难，可随时--24 小时任何时候找我--vektek，vektek 会在 24 小时内给你解决和答复，如果需到现场,随后的 24 小时 vektek 会到现场。你可放心使用 vektek 产品。

Introducing Metric Low Pressure Link Clamps

Easily Integrates with Machine Hydraulic Systems

Many factors must be considered when selecting the appropriate clamping system for parts manufacturing. Critical items that must be weighed are the size of the production run, labor costs, and the precision requirements of the part. Mechanical clamping requires the operator to manually load and clamp each part. The result is slow set-up, slow cycle times and inconsistent clamping forces that lead to out of tolerance parts. Manual clamping also leads to the emergence of ergonomic issues. This method works well in small quantity parts manufacturing, but can be cost or time prohibitive on a large run of parts or when precision is vital.

Hydraulic clamping, with its reliable repeatability, automates the clamping process. This dependable and controllable technology allows you to quickly clamp in areas that cannot be easily reached with manual clamping. Your payoff comes when you secure additional contracts because you can deliver accurately machined parts on time and in the quantities required.

Vektek supplies a full line of precision hydraulic clamping tools to help you meet your manufacturing goals and is proud to announce its newest product, the "Low Pressure Link Clamp". These double acting clamps are invaluable to the manufacturer who integrates their clamping systems with their machine hydraulic supply. Rated to maximum pressures of 70 bar (7 MPa), these durable clamps are a perfect replacement for manual clamping.

Vektek's "Low Pressure Link Clamps" are designed with the usual exacting standards of all Vektek product. Proprietary Black Hard Coating (BHC™), hardened stainless steel pivot pins, flexible lever positioning (left, center, and right that can be altered by the end user), durability, repeatability, standard fluorocarbon seals and the highest service levels in the industry is why customers have come to trust Vektek's quality.

The Productivity Device Company



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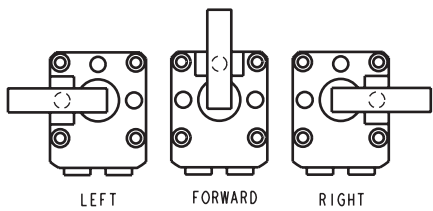


Link Clamps

Low Pressure Link Clamp Specifications

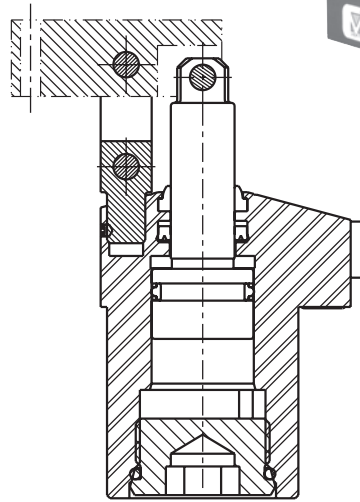
Double Acting

- Available in three sizes 2,5 kN, 5 kN and 10 kN capacities at 70 bar (7 MPa)
- Excellent alternative to a swing clamp when swing space or when hydraulic pressure is limited
- Top flange body mount
- Left, forward, or right lever positions for added flexibility and is user adjustable
- Manifold mounted or standard plumbed using G1/4 or G1/8 S-Series or L-Series fittings
- Standard fluorocarbon seals
- Levers ordered separately (last page)

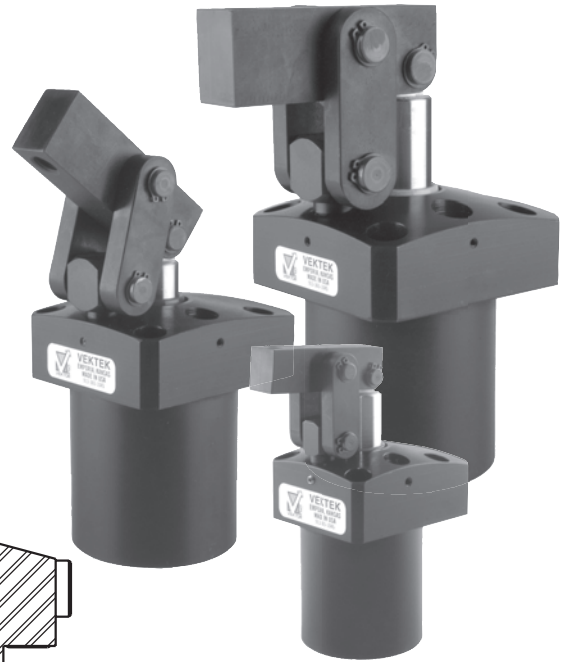


Lever can be easily positioned in any one of three directions in relation to the ports.

ILMI66004 REV A



ILMI66004 REV A



NOTE: User manufactured arms will reduce linkage life

Specifications

Model No.	Lever Position	Clamp Capacity (kN) *	Vertical Clamping Stroke (mm.)****	Standard Lever Length (mm)**	Effective Piston Area (sq. cm.)		Oil Capacity (cm ³)		Maximum Flow Rate (L/min) ***
					Extend	Retract	Extend	Retract	
Double Acting (D/A) Cylinders, actuated hydraulically both directions.									
41-6621-10	Forward	2,5	2,3	47,6	5,06		11,66	7,10	1,40
41-6621-11	Right	2,5	2,3	47,6	5,06		11,66	7,10	1,40
41-6621-12	Left	2,5	2,3	47,6	5,06		11,66	7,10	1,40
41-6621-50	Forward	5	3,1	66,7	11,40		32,58	24,43	3,91
41-6221-51	Right	5	3,1	66,7	11,40		32,58	24,43	3,91
41-6621-52	Left	5	3,1	66,7	11,40		32,58	24,43	3,91
41-6622-10	Forward	10	3,1	78,6	22,88		73,97	67,37	8,88
41-6622-11	Right	10	3,1	78,6	22,88		73,97	67,37	8,88
41-6622-12	Left	10	3,1	78,6	22,88		73,97	67,37	8,88

* Clamp capacities are listed at 70 bar (7 MPa) maximum operating pressure with a standard length link clamp lever installed.

** Use of an extended length lever will result in a reduction of clamp capacity. See graphs of lever output curves for clamping force of various lever lengths. The minimum operating pressure for low pressure link clamps is 10 bar (1 MPa). The clamping force is adjustable by varying the hydraulic system pressure. To determine the approximate output force for your application, divide the clamp capacity shown above by 70 bar (7 MPa) and multiply the resultant number by your system operating pressure to obtain the approximate clamping force for your application. (Actual force will vary slightly due to mechanical inefficiencies and friction.)

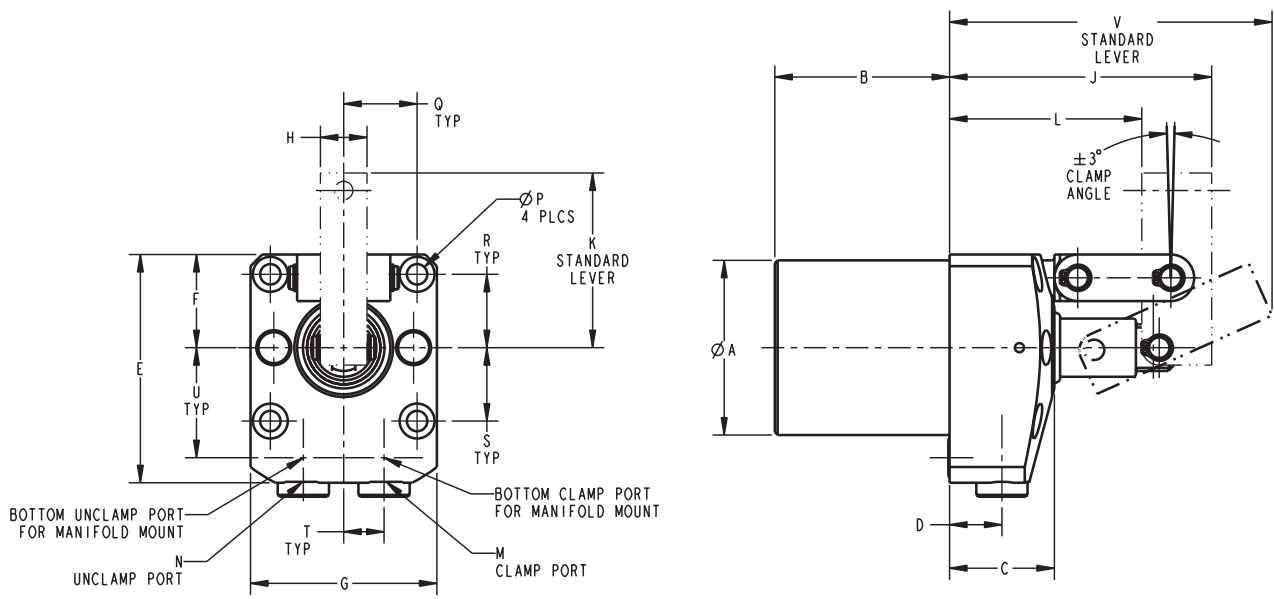
*** To insure maximum service life and trouble-free operation, restrict fluid flow to the above flow ratings when clamping. If you are unable to measure flow rates, the devices should be positioned in no less than 1/2 second. These recommendations apply when using the standard lever. When using the optional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

**** Equal to +/- 3° with standard lever

Levers sold separately, see details on the last page.

Link Clamps

Low Pressure Link Clamp Dimensions



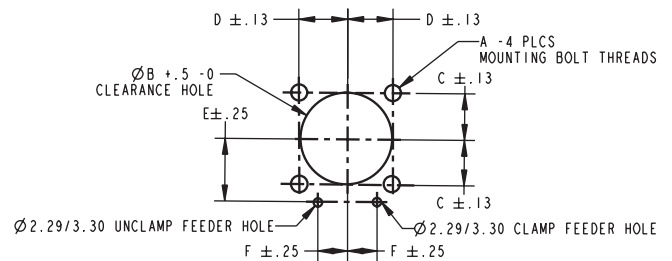
ILMI66005 REV A

Dimensions

Model No.	A	B	C	D	E	F	G	H	J	K	L	M	N	ØP
Double Acting (D/A) Cylinders, actuated hydraulically both directions.														
41-6621-1X	47,6	47,6	28,6	14,3	61,1	25,4	50,8	12,7	68,3	47,6	52,4	G1/8	G1/8	5,6
41-6621-5X	64,3	63,5	30,1	15,9	80,9	34,9	69,9	19,1	87,3	66,7	61,9	G1/4	G1/4	6,8
41-6622-1X	74,6	69,9	36,5	15,9	94,5	42,5	84,9	22,2	104,8	78,6	73,0	G1/4	G1/4	9,1

Dimensions

Model No.	Q	R	S	T	U	V
Double Acting (D/A) Cylinders, actuated hydraulically both directions.						
41-6621-1X	20,0	20,0	20,0	11,0	30,0	85,3
41-6621-5X	27,5	27,5	27,5	15,0	39,5	112,3
41-6622-1X	31,5	31,5	31,5	16,0	45,0	132,9



FOR MANIFOLD MOUNTING, MATING SURFACE SHOULD BE FLAT TO .08 mm WITH A MAXIMUM SURFACE ROUGHNESS OF 1,6 µm Ra.

ILMI66006 REV A

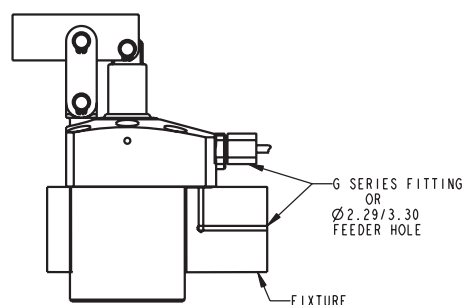
All dimensions are in mm.

Levers sold separately

Manifold Port/Mounting Dimensions

Model No.	A	ØB	C	D	E	F
Double Acting (D/A) Cylinders, actuated hydraulically both directions.						
41-6621-1X	M5 x 0,8	48	20,0	20,0	30,0	11,0
41-6621-5X	M6 x 1,0	65	27,5	27,5	39,5	15,0
41-6622-1X	M8 x 1,25	75	31,5	31,5	45,0	16,0

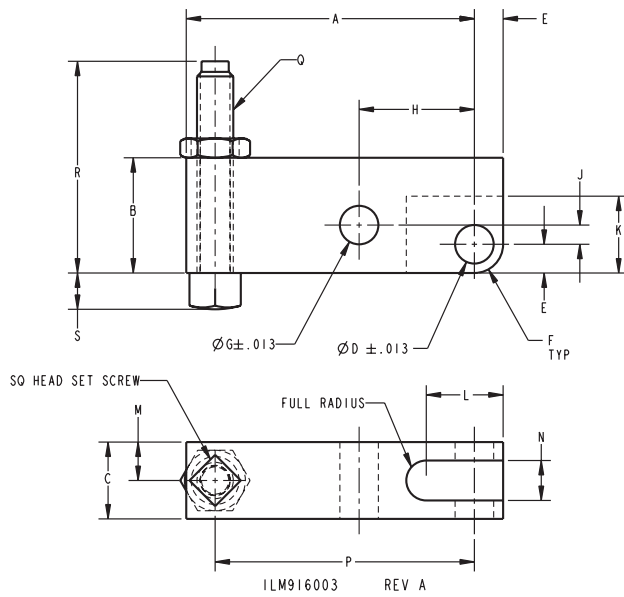
NOTE: Levers are to be adjusted to within +/- 3° of nominal clamp angle to prevent premature failure.



ILMI66006 REV A

Link Clamps

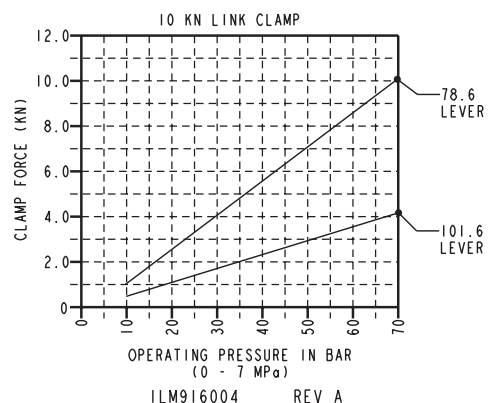
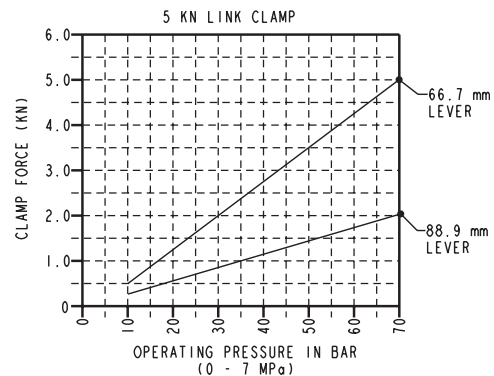
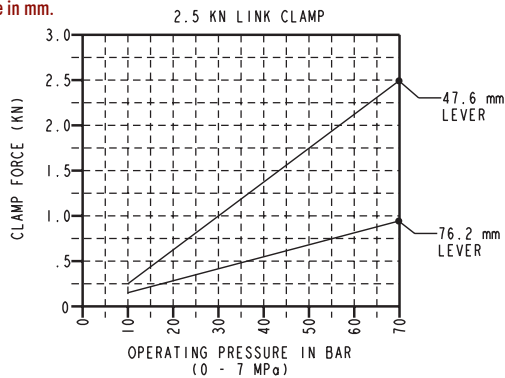
Link Clamp Lever Dimensions



Dimensions

Model No.	Maximum Capacity at 70 bar (7 MPa)	A	B	C	ØD	E	F	ØG	H	J	K	L	M	N	P	Q	R	S
Standard Length Lever																		
91-6011-01	2,5	47,6	19,1	12,7	6,375	4,7	4,7	6,363	19,1	3,2	12,7	12,7	6,4	6,6	42,8	M6 X 1,00	35	6,0
91-6015-01	5,0	66,7	25,4	19,1	9,550	7,9	7,9	9,538	25,4	7,9	19,1	17,4	9,5	9,8	57,2	M10 X 1,50	60	10,0
91-6021-01	10,0	78,6	31,8	22,2	12,738	9,5	9,5	12,713	30,1	9,5	23,8	22,2	11,1	11,4	68,2	M12 X 1,75	80	12,0
Extended Length Lever without Tapped Hole																		
91-6011-02	1,0	76,2	19,1	12,7	6,375	4,7	4,7	6,363	19,1	3,2	12,7	12,7	NA	6,6	NA	NA	NA	NA
91-6015-02	2,0	88,9	25,4	19,1	9,550	7,9	7,9	9,538	25,4	7,9	19,1	17,4	NA	9,8	NA	NA	NA	NA
91-6021-02	4,0	101,6	31,8	22,2	12,738	9,5	9,5	12,713	30,1	9,5	23,8	22,2	NA	11,4	NA	NA	NA	NA

All dimensions are in mm.



Link Clamp Lever Output Curves

NOTE: Modifications to levers that result in clamp ratios below that of the standard lever are not in the safe operating zone for the corresponding link clamp and could result in premature failure.