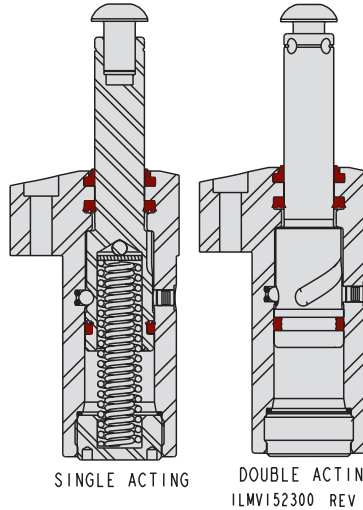


# VersaCam™ Swing Clamps

## Top Flange/Manifold Mount Specifications

### Single And Double Acting

- Available in capacities from 2 kN to 11.6 kN at 350 bar (35 MPa) pressure.
- Easy to use, just bolt in place and plumb or use the easy-to-make manifold pattern to eliminate external plumbing.
- Can be either manifold mounted or standard plumbed using standard fittings.
- Single piece body and mounting give a rigid installation, no threads to rock around or additional mounting hardware to buy.
- To avoid cylinder damage and preserve warranty, use recommended flow rate limits and time calculations on page C-20.
- Standard swing is 90°; swing angles less than 90° require Swing Restrictors (Page C-29). Swing angles greater than 90° are special order products.
- Arm clocking feature is compatible with all standard Vekttek arms. Clocking drawing is on page C-29.
- Arms sold separately — see Section O.



U.S. Patent Nos.  
5,820,118  
6,886,820 B1

SWING CLAMP PLUNGER  
SHOWN IN THE EXTENDED  
LH CAM POSITION

## Specifications

Model No.	Swing Direction	Cylinder Capacity* (kN)	Vertical Clamping Stroke** (mm)	Total Stroke (Swing + Vertical) (mm)	Piston Area (cm <sup>2</sup> )	Oil Capacity*** (cm <sup>3</sup> )		Optional Flow Control Model No.****
						Retract	Extend	
<b>Single Acting (S/A) Cylinders, actuated hydraulically 1 direction, spring returned.</b>								
41-5602-11	Right	2	6	14.5	0.63	N/A	0.92	47-0203-71
41-5602-12	Left							
41-5602-15	Straight							
41-5605-11	Right	4.9	8	20	1.90	N/A	3.82	47-0203-71
41-5605-12	Left							
41-5605-15	Straight							
41-5611-11	Right	11.6	13	29.5	4.04	N/A	11.9	47-0203-74
41-5611-12	Left							
41-5611-15	Straight							
<b>Double Acting (D/A) Cylinders, actuated hydraulically both directions.</b>								
41-5602-21	Right	2	6	14.5	0.63	2.3	0.92	47-0203-71
41-5602-22	Left							
41-5602-25	Straight							
41-5605-21	Right	4.9	8	20	1.90	7.8	3.82	47-0203-71
41-5605-22	Left							
41-5605-25	Straight							
41-5611-21	Right	11.6	13	29.5	4.04	23	11.9	47-0203-74
41-5611-22	Left							
41-5611-25	Straight							

**WARNING!** Never allow swing arm to contact workpiece or fixture during arm rotation.

\* Cylinder capacities are listed at 350 bar (35 MPa) maximum operating pressure, with a standard length VektorFlo® arm installed. Minimum operating pressure is 52 bar (5.2 MPa) for single acting, 35 bar (3.5 MPa) for double acting. The clamping force is adjustable by varying the hydraulic system pressure. To determine the approximate output force for your application, divide the cylinder capacity shown above by 350 (35), 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 internal cantilever loading, friction loss and/or return springs.)

\*\* To allow for workpiece height variations, it is recommended that the vertical travel be set to about 50% of the vertical stroke.

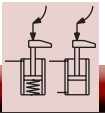
\*\*\* To ensure maximum service life and trouble-free operation, restrict fluid flow per table on page C-20.

\*\*\*\* In-port flow control requires the use of manifold mount ports.

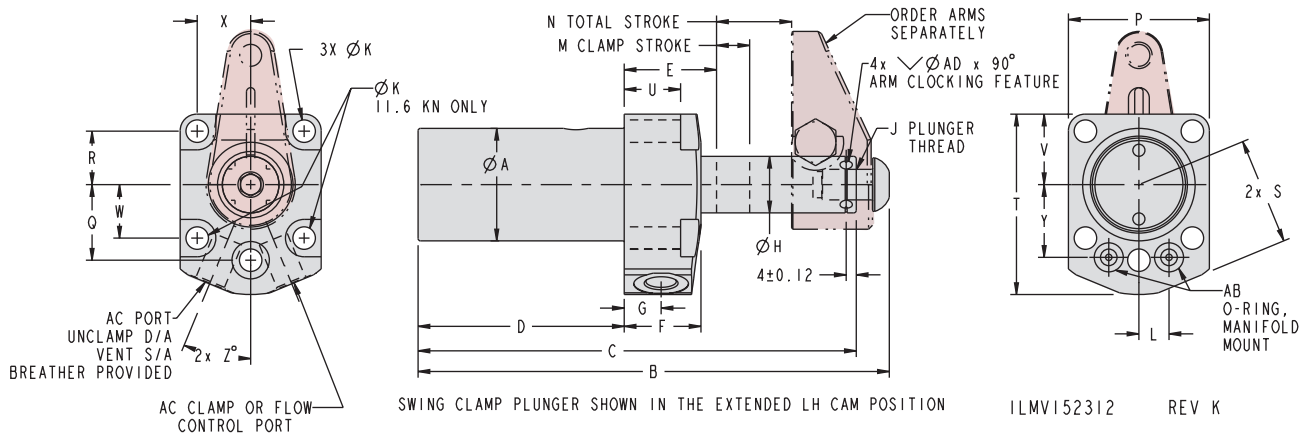
Optional in-port flow control is a meter-in device with reverse free flow check valve.



# VersaCam™ Swing Clamps



## Top Flange/Manifold Mount Dimensions



**C-26**

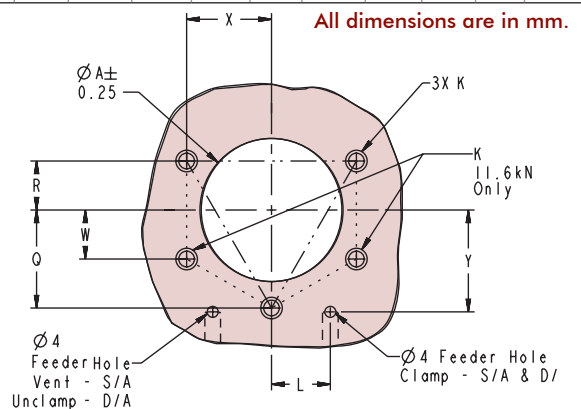
For proper sealing, the mating surface must be flat within 0.08 mm with a maximum surface roughness of 1.6  $\mu\text{m}$   $R_a$

**NOTE:** Follow arm length limitations on page O-3

### Dimensions

Model No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U
<b>Single Acting (S/A) Cylinders, actuated hydraulically 1 direction, spring returned.</b>																			
41-5602-11									M6 x 1 x 7	6	10.5	5.5	14.5	45	20	10	31	47	18
41-5602-12	25.2	108	101.5	44	31	26	13	11.13											
41-5602-15																			
41-5605-11									M10 x 1.5 x 12	7	20.5	8	20	57	25	12.5	33.5	54	19
41-5605-12	36.3	143	134	64.5	31.5	27	13	15.88											
41-5605-15																			
41-5611-11									M12 x 1.75 x 13	9	11.8	13	29.5	55.5	29.7	21	42	71	22.1
41-5611-12	44.2	185	172	81	36	30	14.5	22.23											
41-5611-15																			
<b>Double Acting (D/A) Cylinders, actuated hydraulically both directions.</b>																			
41-5602-21									M6 x 1 x 7	6	10.5	5.5	14.5	45	20	10	31	47	18
41-5602-22	25.2	108	101.5	44	31	26	13	11.13											
41-5602-25																			
41-5605-21									M10 x 1.5 x 12	7	20.5	8	20	57	25	12.5	33.5	54	19
41-5605-22	36.3	143	134	64.5	31.5	27	13	15.88											
41-5605-25																			
41-5611-21									M12 x 1.75 x 13	9	11.8	13	29.5	55.5	29.7	21	42	71	22.1
41-5611-22	44.2	185	172	81	36	30	14.5	22.23											
41-5611-25																			

Model No.	V	W	X	Y	Z	AB (O-ring)	AC	AD
<b>Single Acting (S/A) Cylinders, actuated hydraulically 1 direction, spring returned.</b>								
41-5602-11						$\varnothing 7.65 \times 1.78$	G 1/8	3.2
41-5602-12	15.5	N/A	17.3	18.2	30			
41-5602-15								
41-5605-11						$\varnothing 7.65 \times 1.78$	G 1/8	4.8
41-5605-12	19	N/A	21.7	14.4	30			
41-5605-15								
41-5611-11						$\varnothing 7.65 \times 1.78$	G 1/4	4.8
41-5611-12	27.5	21	21	28.6	22.5			
41-5611-15								
<b>Double Acting (D/A) Cylinders, actuated hydraulically both directions.</b>								
41-5602-21						$\varnothing 7.65 \times 1.78$	G 1/8	3.2
41-5602-22	15.5	N/A	17.3	18.2	30			
41-5602-25								
41-5605-21						$\varnothing 7.65 \times 1.78$	G 1/8	4.8
41-5605-22	19	N/A	21.7	14.4	30			
41-5605-25								
41-5611-21						$\varnothing 7.65 \times 1.78$	G 1/4	4.8
41-5611-22	27.5	21	21	28.6	22.5			
41-5611-25								



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### Mounting Dimensions

Model No.	A	K	L	Q	R	W	X	Y
41-5602-XX	26	M5	10.5	20	10	N/A	17.3	18.2
41-5605-XX	37	M6	20.5	25	12.5	N/A	21.7	14.4
41-5611-XX	45	M8	11.8	29.7	21	21	21	28.6