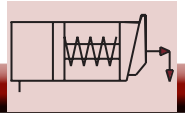
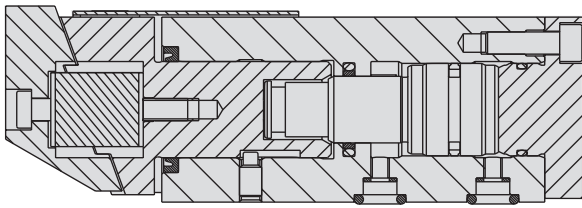


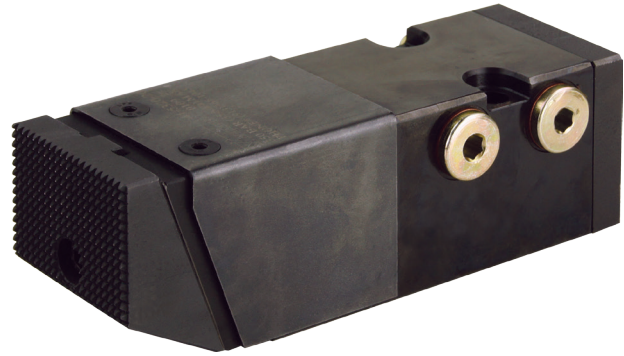
# Special Use Clamps



## Pull-Down Clamp Double Acting Specifications and Dimensions



ILMVI53110 REV D

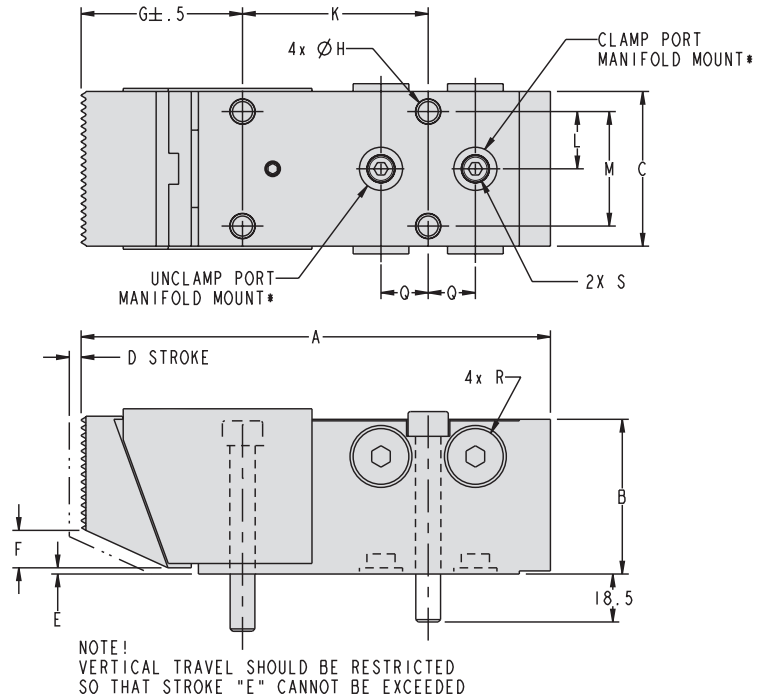


### Double Acting Pull-Down Clamp

- Use whenever lateral clamping is desired.
- Body material is burnished tempered steel with case-hardened ground pistons.
- Generates straight and pull-down clamping force.
- Pull-down force is approximately 1/3 of the respective clamping force.
- The shipped version has serrated and hardened jaws, complete with mounting bolts. Other optional jaws are available on page E-7.
- To protect against contamination a wiper is installed at the clamping bolt.
- Complete with four (4) fastening screws.
- Oil supply through threaded ports or manifold.

Double acting design assures clamp release for automated or time critical operation.

Jaws and pistons are connected by a joint that avoids the introduction of a bending movement to the piston and extends clamp life.



NOTE!  
VERTICAL TRAVEL SHOULD BE RESTRICTED  
SO THAT STROKE "E" CANNOT BE EXCEEDED

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E-6

### Specifications

Model No.	Force at 400 bar (40 MPa) (kN)		Stroke D (mm)	Oil Volume (cm <sup>3</sup> )		Mounting Bolt 4X	Max. Screw Torque (Nm)	Weight (g)
	Clamp	Unclamp		Clamp	Unclamp			
Double Acting (D/A) Cylinders, actuated hydraulically both directions.								
41-5320-20	20	9.6	10	4.9	2.5	M8 x 60	25	2900

### Dimensions

Model No.	A	B	C	D	E	F	G	H	K	L	M	Q	R	S
Double Acting (D/A) Cylinders, actuated hydraulically both directions.														
41-5320-20	156	50	50	10	3	14	56.5	8.5	60	18.5	37	15.25	G 1/4	M5

All dimensions are in mm.

### O-Ring for Manifold Mounting

O-Ring Model No.	Description
39-0510-44	9 x 2.5, 90 Dur, HNBR

NOTE: For manifold mounting, remove the M5 screw and sealing washer then insert the included O-ring.

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

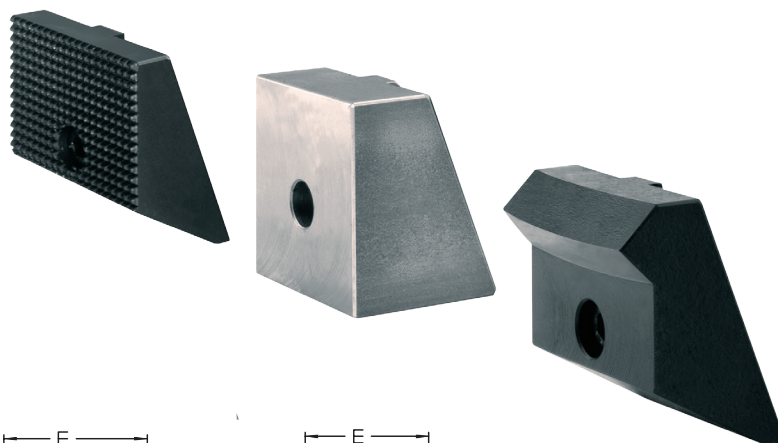


# Special Use Clamps

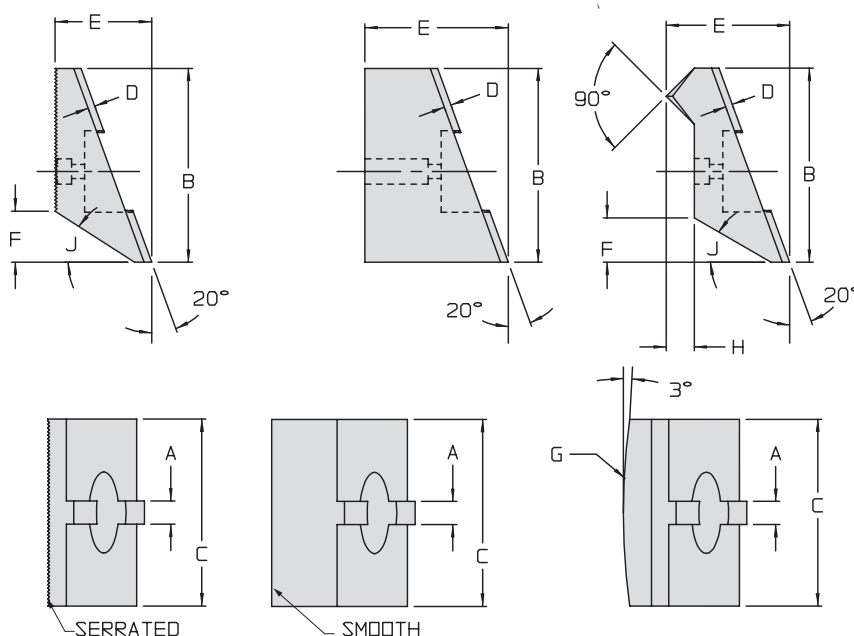
## Pull-Down Clamp Jaws

### Pull-Down Clamp Jaws

- Hardened and tempered steel (except smooth jaws).
- Serrated Jaws can be used for all workpieces with normal clamping force.
- Smooth Jaws are not hardened and treated and can be shaped into any clamping form or ground flush for sensitive workpieces.
- Clamping Jaws with clamping edge are well suited for workpieces with hard and very uneven surfaces.



Special jaws are available in the configurations illustrated on this page (nominal extra cost). These configurations fit most special applications nearly eliminating the need for high cost, specific application special orders.



ILMV153106 REV B

Dimensions										
Jaw Model No.	Clamp Models	A	B	C	D	E ± 0.5	F	G	H	J
<b>Serrated Clamping Jaws</b>										
41-5305-01	41-5311-05	6	29.5	30	2.5	22	3	-	-	15°
41-5320-01	41-5311-20 41-5320-20	10	50	50	3	31.5	14	-	-	30°
41-5332-01	41-5311-32	10	65	65	3	37	17.5	-	-	30°
41-5350-01	41-5311-50	10	80	80	3	39.5	19	-	-	30°
<b>Smooth Clamping Jaws</b>										
41-5305-02	41-5311-05	6	29.5	30	2.7	32	-	-	-	-
41-5320-02	41-5311-20 41-5320-20	10	50	50	3	41.5	-	-	-	-
41-5332-02	41-5311-32	10	65	65	3	52	-	-	-	-
41-5350-02	41-5311-50	10	80	80	3	59.5	-	-	-	-
<b>Clamping Jaws with Clamping Edge</b>										
41-5305-03	41-5311-05	6	29.5	30	2.7	27	4	300	5	15°
41-5320-03	41-5311-20 41-5320-20	10	50	50	3	39.5	14	200	8	30°
41-5332-03	41-5311-32	10	65	65	3	47	17	300	10	30°
41-5350-03	41-5311-50	10	80	80	3	51	19	300	12	30°

All dimensions are in mm.

