

Work supports - Collet-Lok® design

Shown: MPFS-100, MPTS-100



Hydraulically locked, mechanically maintained work support

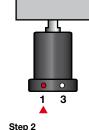
- Collet-Lok® design allows the work support to maintain support position after the hydraulic pressure is removed
- Collet-Lok® maintains a higher level of safety, as it is not dependent on hydraulic supply pressure
- Low deflection: lowest deflection of any work support available
- · Threaded or flanged body increases mounting flexibility
- Capacities up to 44,5 kN available.

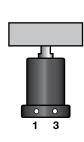
MP series

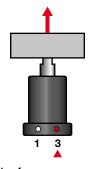
Enerpac work supports provide either additional non-fixed location points to the clamps, or support to larger or thin section workpiece components, always in order to minimize workpiece deflection during machining. The *Collet-Lok®* design does not require hydraulic system pressure to maintain support position.

(7) Collet-Lok® sequence









Step 1
Install the workpiece on the support cylinder. The plunger position will adjust to the contour of the

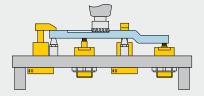
workpiece.

Pressurize oil port #1. The plunger will be locked in the supporting position.

Step 3
Depressurize oil port #1. Cylinder can be uncoupled from hydraulics and still support the workpiece.

Step 4

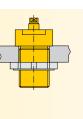
Pressurize oil port #3. The plunger will be unlocked. When the workpiece is removed, plunger will extend into its original position.



Mounting style

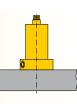
MPT series, Threaded mount

Threaded body can be used with a threaded hole in fixture plate or a jam nut with a bored hole. Ports are located in top collar block.



MPF series, Flange models

Mounts directly to fixture plate. Offers the flexibility of side ports or manifold ports on the underside of the flange.



■ While pallet No. 1 is in the machine, a new work piece is loaded on to pallet No. 2.



Product selection

Max. support force	Support plunger stroke	Flange models	Threaded models		rating ssure	Loci syst displac	tem ement	Plunger contact spring force	Max. oil flow
kN	mm			min.	oar max.	lock	n³ unlock	N	l/min
8,9	10	MPFS-100V	-	100	350	3,93	3,93	20,0	0,5
17,8	10	MPFS-200V	-	100	350	6,06	6,06	35,2	1,0
44,5	19,6	MPFS-450V	-	100	350	18,03	18,03	300,4	4,0
8,9	10	-	MPTS-100V	100	350	3,93	3,93	15,0	0,5
17,8	10	-	MPTS-200V	100	350	6,06	6,06	30,0	1,0

System Components

KPUCTAAA **MP-series** Dimensions & options

Stroke: 10 - 19,6 mm

Pressure: 100 - 350 bar

Force: 8,9 - 44,5 kN

- **E** Cilindros de soporte
- F Vérin anti-vibreur
- (D) Abstützzylinder





Collet-Lok® swing cylinders



Auto couplers

□ 174)



Positive clamping cylinders **□** 80 **▶**



Sequence valves

□152



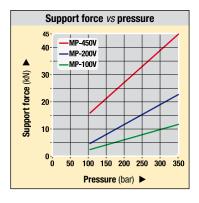
Important

WARNING!

Support force and clamping force must be matched. Support force should be at least 150% of clamping force.



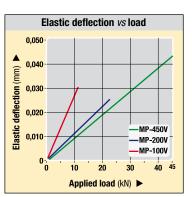
For proper application, clamp force, pressures and timing, consult Enerpac for support.



MPFS-100V, -200V

В

C



III D1

MPTS-100V, -200V

Deflection

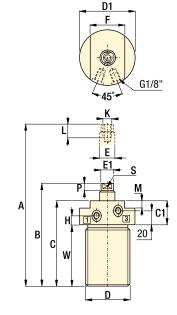
Elastic deformation

of the work support

resulting from the

application of load.

chart:



🔼 Product dimensions in mm [🗁 🔄]

MPFS-450V

В

C

C1 1 † H

G1/4"

E1

Model A B C	C1	D	D1	E	E1	F	Н	K	L	М	Р	S*	U	٧	W	X	À
number			Ø	Ø	Ø								Ø	Ø		Ø	kg
▼ Flange models																	
MPFS-100V 126 116 10	25	Ø 76	110	15,9	14	-	12,5	M8 x 1,25	15	-	7	2,8	94,1	9	-	81,5	4,0
MPFS-200V 130 120 10	3 25	Ø 92	130	25	24	-	12,5	M12 x 1,75	20	-	9	2,8	112,1	9	-	97,1	6,0
MPFS-450V 193,4 173,8 16	25	Ø 130	165	50	48	-	12,5	M20 x 2	30	-	10	30 **	147	11	-	125	16,0
▼ Threaded models																	
MPTS-100V 125 115 10	38	M60 x 2	69	15,9	14	55	15,5	M8 x 1,25	15	20	7	2,8	-	-	67	-	3,0
MPTS-200V 129 119 10	38	M80 x 2	89	25	24	70	15,5	M12 x 1,75	20	20	9	2,8	-	-	67	-	4,0

^{* 2}x spanner holes ø 2,8 mm for MPFS-100 and 200 models.

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^{**} Wrench Flats for MPFS-450. www.enerpacwh.com