



YOUR PARTNER WORLDWIDE



TSV Series

Grinding and Lapping Machines for safety valves

DN range 15-300 mm (1/2"-12")

The EFCO TSV are portable grinding and lapping machines with eccentric. They are meant for the machining of surfaces in safety valves. The TSV-300 has two separate drives. One drive operates the grinding spindle, whereas the other drive actuates an opposite motion (eccentric motion).



TSV-300 with machine column

Advantages:

- easy handling
- set-up at valves with or without flange is possible
- even (flat) surfaces
- good self-cleaning of the grinding tools
=> extended durability (service life) of the grinding media
- uniform dispersion of lapping paste during lapping procedure
- cross hatch



Technical data TSV

	TSV-150	TSV-300
DN range	Ø 15 - 150 mm (1/2" – 6")	Ø 25 - 300 mm (1" – 12")
max. submerging depth	350 mm (14")	
Clamping range of jaw chuck	Ø 80 - 400 mm (3" - 16")	
Clamping range of machine column	Ø 50 - 360 mm (2" - 14")	Ø 80 - 360 mm (3" - 14")
Rotational speed of grinding spindle	~ 0 – 560 rpm	~ 0 – 475 (690*) rpm
Rotational speed of eccentric	~ 0 – 255 rpm	~ 0 – 310 (450*) rpm
Eccentricity	3 mm	
Stationary mounting	Machine column	
Portable mounting	Jaw chuck	
Drive	pneumatic 6-7 bar	230/110 V, 50/60 Hz or pneumatic 6-7 bar

*Rotational speed of pneumatic

Due to geometry, there are normally higher speeds of the grinding discs at the outside diameter of the seat than at the internal diameter.

The result is a different material removal.
The sealing surface inclines downwards.

The use of an eccentric neutralizes the influence of different cutting-speeds.
An even (flat) surface is produced.



TSV-150 with jaw chuck

Authorize Trading Partner / OEM

Abrasive- and Lapping Material:

- Self-adhesive grinding media
- EFCOBOR Lapping Paste in grits 80 to 1500



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