

VENTIL[⊕]

POLIR F6

TECHNICAL SPECIFICATION



Portable, battery driven Grinding and Lapping machine
Range: ¼ - 6" / DN6 - 150 mm.



Ventil - NL

Polakweg 6 - 2288 GE
Rijswijk – The Netherlands
T.: +31 88 113 0900
E.: info@ventil.nl
I.: www.ventil.nl

Ventil - USA

906 Gemini Street
Houston TX 77058 – USA
T.: +1 281 280 0141
E.: info@ventil-usa.com
I.: www.ventil-usa.com

Ventil – Middle East

SAIF Zone – Unit Q4-267
Sharjah – United Arab Emirates
T.: +971 506 260 955
E.: info@ventil-me.com
I.: www.ventil.nl

Ventil Russia - Central Asia

Moscow
T.: +7 916 806 5800
E.: info@ventil-rus.ru
I.: www.ventil-rus.ru

POLIR F6

Portable, battery driven Grinding and Lapping machine for Shut-off and Pressure Relief Valves up to 6" / DN150 mm.

The **Ventil POLIR F6** is a light weight, easy operated machine for repairing and re-finishing the metal seats and sealing surfaces of all common Shut-off valves and Pressure Relief Valves. The easy operated battery driven machine is designed and equipped for on-site and in-shop valve repair of all common seat materials. It is delivered ready for use, packed in a strong carrying case.

The **POLIR F6** is standard completed with a full range of grinding and guiding plates for 'flat' seats in the range ¼ - 6" / DN6 – 150 mm. The combination of the guiding plate and ball joint on the drive shaft provides very easy alignment on the seat. Carefully selected diameter differences result in an eccentric, orbital rotation of the grinding plate, giving a crosshatch pattern and high flatness accuracy.



Abrasives

Using the right abrasive material is the key to a high material removal rate, while achieving the best flatness accuracy. Therefore the **POLIR F6** is standard delivered with a large consumer quantity of polyester based, self-adhesive foil tips with bounded Aluminum Oxide. This high quality 3M abrasive foil can be used dry and is suited for all common seat materials. The set contains 3 different grains; rough, middle and fine. This enables the operator to select the best solution, depending on the seat damage and required level of flatness / finish.

Battery drive

The **POLIR F6** is standard equipped with a battery drive machine and is delivered with two batteries and a 110V/230V 50-60 Hz charger. The low weight and good balance of the machine increases the grinding performance and makes it easy to achieve high quality and flatness accuracy.

POLIR F6 SPECIFICATION

Range	¼ - 6" / DN6 - 150 mm.
Maximum inserting depth	12.9 " / 330 mm.
Drive machine	battery driven drive unit – 14,4V – 4,2 Ah
No. batteries	2
Charger	110 -240 V 50-60 Hz
No. of grinding plates / guiding plates	13 / 7
Consumable abrasive foil tips	600 pcs. in total Rough (P150 - 100 mł), Middle (P240 - 60 mł) and Fine P 500 -30 mł
Standard accessories	Centering bush, set of Allen keys, scraper knife, measuring tape, LED flash light, operating manual in English.
Dimensions	(l) 520 x (w) 435 x (h) 230 mm / weight 14 kg
Delivery	Ready for use

Option: Conical Seat Attachment C2.5

The **POLIR F6** can be optionally completed with the **C2.5** attachment set for grinding and lapping valves with all common conical seats in the range from 3/8" - 2,5" / DN10 - 65 mm. The **C2.5**. The set is used in combination with the POLIR F5 battery drive unit.

The cones are made from high quality hardened steel, a guarantee for a long lifetime. Just like the **POLIR F6**, the **C2.5** set is also delivered with a large consumer quantity of polyester based, self-adhesive foil tips with bounded Aluminum Oxide. This high quality 3M abrasive foil can be used dry and is suited for all common seat materials. The set contains 3 different grains; rough, middle and fine. This enables the operator to select the best solution, depending on the seat damage and required level of flatness / finish.



POLIR C2.5 Specification

Range	3/8" - 2,5" / DN10 - 65 mm.
Maximum inserting depth	12.9 " / 330 mm.
Seat angles	30° (2x 15°) / 40° (2x 20°) / 60° (2x 30°) / 75° (2x 37.5°) / 90° (2x 45°)
Number of cones	28
Consumable abrasive foil tips	Rough (P150 - 100 mł), Middle (P240 - 60 mł) and Fine P 500 -30 mł
Standard accessories	Spindle and (3) centering bushes and operating manual in English
Dimensions	(l) 520 x (w) 435 x (h) 230 mm / weight 15 kg
Delivery	Ready for use