

## CENTRIFUGAL FILTER OF 1

### Use and description:

Centrifugal filter **OF 1** (hereinafter only filter) is used for cleaning the mine water with pressure up to 1.7 MPa and compressed air with pressure up to 0.60 MPa of particles 0.2 to 8 mm. The filtration efficiency depends on the flow rate and speed and on the dirty particles quantity entering into the filter (the efficiency has been tested by the authorized testing body.) So filtered water (air) can be used as the entry media entering into the fine filters, for example water for wetting of the coal cutting loader drum and air for the linear pneumatic motors (for opening the permanent stopping doors). For achieving the better filtration efficiency it is possible to use two filters (in series).

**The filter consists** of the entering, centrifugal, setting and output parts.



OF 1

### Characteristics:

Type		OF 1
Pressure min./max.	MPa	1.7
Water max. flow rate Q	dm <sup>3</sup> .min <sup>-1</sup>	600
Compressed air max. flow rate Q	m <sup>3</sup> .min <sup>-1</sup>	20
Connecting dimensions DN/PN	mm	50/16
Filtration	mm	0.5 ÷ 8
Dimensions w x h x l	mm	443.5x595x950
Weight	kg	44.0

The product has been designed and constructed as the equipment group I (mine), category M2 according to the Directive 94/9/EC-ATEX of the European Parliament and of the Council and meets the requirements for using in areas "dangerous atmospheric conditions 2" according to EN 1127-2+A1 on condition that all national regulations of the employer are fulfilled.