

2.5. Special Gear Unit MGV

The LEONARD special gear unit MGV (see figure 2.5.1 and 2.5.2) works free from backlash. Therefore it is especially suitable for driving LEONARD rotary cam switches GSW100 resp. GSW100E and incremental position transducers, encoders or the like. With an intermediate flange it is also possible to couple the gearbox MGV to other LEONARD rotary cam switches.

The gearbox MGV has normally a hollow shaft on the input and output side. Optionally a spindle is available for both sides.

The two-step gearbox has a life lubrication and is maintenance free. The gearbox works free from backlash after a long time, because of prestressed gearwheels.

If the maximum torque of 1,5 Nm is exceeded, due to an operative trouble, the prestress is overcome and the synchronism between the input and output of the gearbox is no longer guaranteed. However, the gearwheels don't become any defect.

Mechanical data:

housing:	cast aluminum
housing colour:	RAL 6011, „green hammer finish“, optional seawaterproof performance
gear wheels:	spur gear, life lubrication, maintenance free
hollow shaft:	Ø20H7, with feather key according to DIN 6885
bearing:	deep groove ball bearings
max. drive speed:	1000 r.p.m.
max. torque:	1,5 Nm
fitting position:	any
weight t:	5 kg
ambient temperature:	-25 °C to +90 °C
storage temperature:	-30 °C to +100 °C

The normally ratios of our special gear unit MGV are as follows:

2:1	6:1	10:1	18:1
3:1	7:1	12:1	20:1
4:1	8:1	15:1	25:1
5:1	9:1	16:1	

Other ratios on request.



Fig. 2.5.1: Special Gear Unit MGV with 2 Support Angles

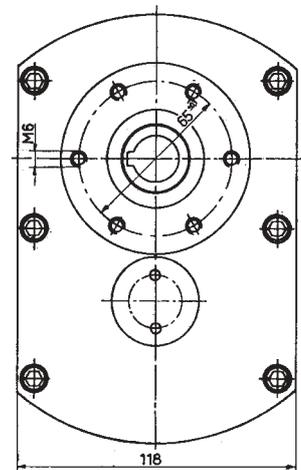
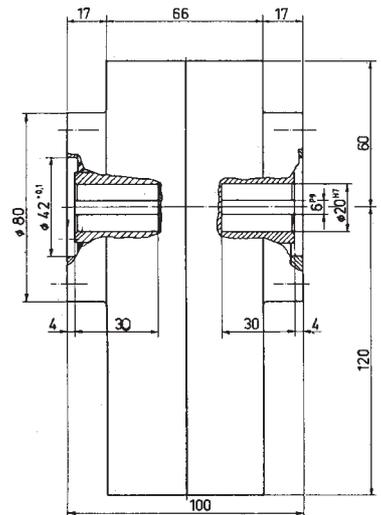


Fig. 2.5.2: Dimensioned Drawing MGV

Ordering instructions for special gear unit:

type	ratio
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Example:

MGV 15:1
