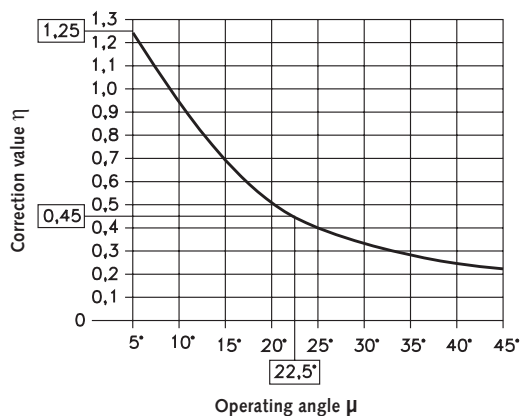


Calculating the Size of the Universal Joint

When selecting the most suitable universal joint, the highest transmittable torque is not the only decisive figure. Other operation conditions such as shock load, angle ratios, speeds etc. also need to be considered. The adjoining diagram therefore helps to determine a first rough sizing for the universal joint, and shows the respective reference values.

The respective reference value for smaller operating angles under 10°, between 0° and 5°, is 25% higher.

For larger operating angles above 40° to 45° (maximum) we can only recommend manual operation.



Corrective Values Subject to the Operating Angle.

Lubrication / Maintenance of Universal Joints

Maintenance of universal joints is limited to adequate lubrication, which has to be carried out at intervals (depending on the application). For dusty work environments, universal joints should be protected with bellows. The bellows can be filled with grease. This renders the joints maintenance-free.

Bellows
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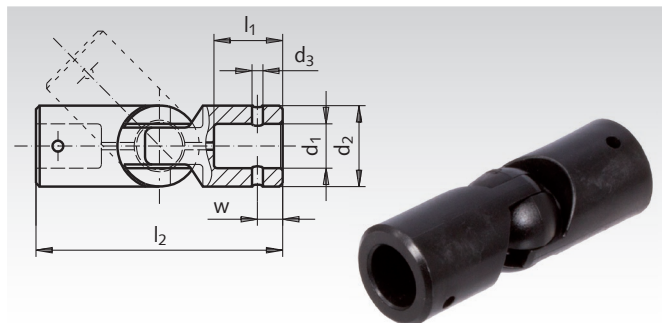
Ball Joints GF made from Plastic

Material: Polyacetal, glass-fibre reinforced.

Temperature range: -30°C to +50°C.

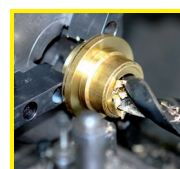
Max. operating angle 35°. Dimensions according to DIN 808.

For the joining, taper pins, dowel pins or grooved pins can be used. The joints are maintenance-free and can therefore be used in difficult-to-access parts of the machine. Other advantages compared to steel are less weight, corrosion resistance and chemical resistance.



Ordering Details: e.g.: Product No. 631 416 00, Ball joint GF, 8 mm bore

Product No.	d ₁ mm	d ₂ mm	d ₃ mm	l ₁ mm	l ₂ mm	w mm	Torque max. Nm	Speed at Operation Angle 10° max. min ⁻¹	Weight g
631 416 00	8±0,04	16±0,2	3+0,1	10,5	40	4-0,1	5	1000	9
631 420 00	12±0,05	20±0,2	3+0,1	17,0	61	6-0,1	15	1000	18
631 425 00	16±0,05	25±0,2	6+0,1	20,5	74	10-0,1	22	1000	35



**Reworking within
24h-service possible.
Custom made parts
on request.**