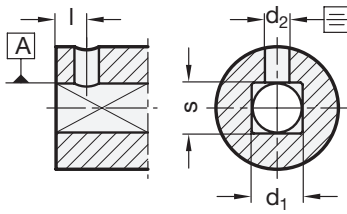
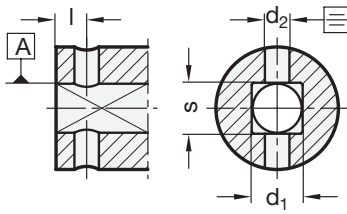
Cross holes

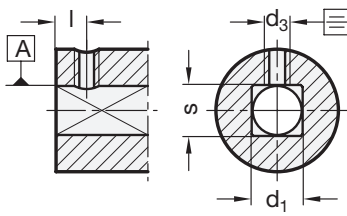
for mounting of operating elements on shafts



1 Type **QE**
One sided cross hole

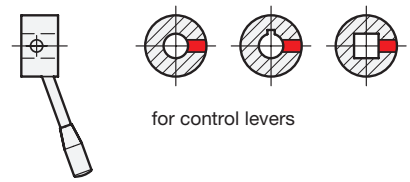


1 Type **QD**
Double sided cross hole

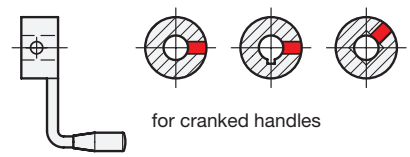


1 Type **GE**
One sided threaded hole

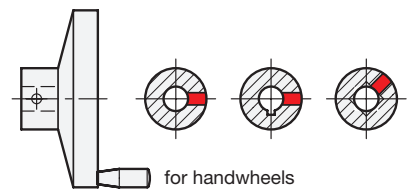
Positioning of the radial cross hole in relation to keyway / square



for control levers



for cranked handles



for handwheels

d_1 H7 / s H11		d_2 H11	d_3	Length l –0,1 Standard version	Length l –0,1 Handwheels DIN 950 / GN 949 to Ø 250
6	7	2,5	M 3	4,5	–
8	9	3	M 5	5,5	4,5
10	11	3	M 5	5,5	4,5
12	13	4	M 6	6,5	5,5
14	15	4	M 6	6,5	5,5
16	17	5	M 6	8	7
18	19	5	M 6	8	7
20	21	5	M 6	8	7
22	23	6	M 6	10	9
24	25	6	M 6	10	9
26	27	6	M 6	10	9

Information

The connection between the operating element and the shaft consists very often of a cross pin or a grub screw.

As a result the user is faced with relatively high costs since cross holes on operating elements are in general not readily available.

Components with cross holes to GN 110 are not only offered at very competitive prices but they also save the manufacturer unnecessary drawing work. The geometrical form of some of the operating elements, however, does not lend itself to modification to this particular GN standard.

The radial positioning of the cross holes is only specified as per above three specifications of product groups (control levers, cranked handles, handwheels). For all other operating elements and also for the product group 2.7 it can can be arranged any way.

The pin hole d_2 H11 is drilled to suit drive spring pins.

How to order		
1 GN 110-QE	1	Handwheel DIN 950-GG-160-B14-A with cross hole **GN 110-QE**