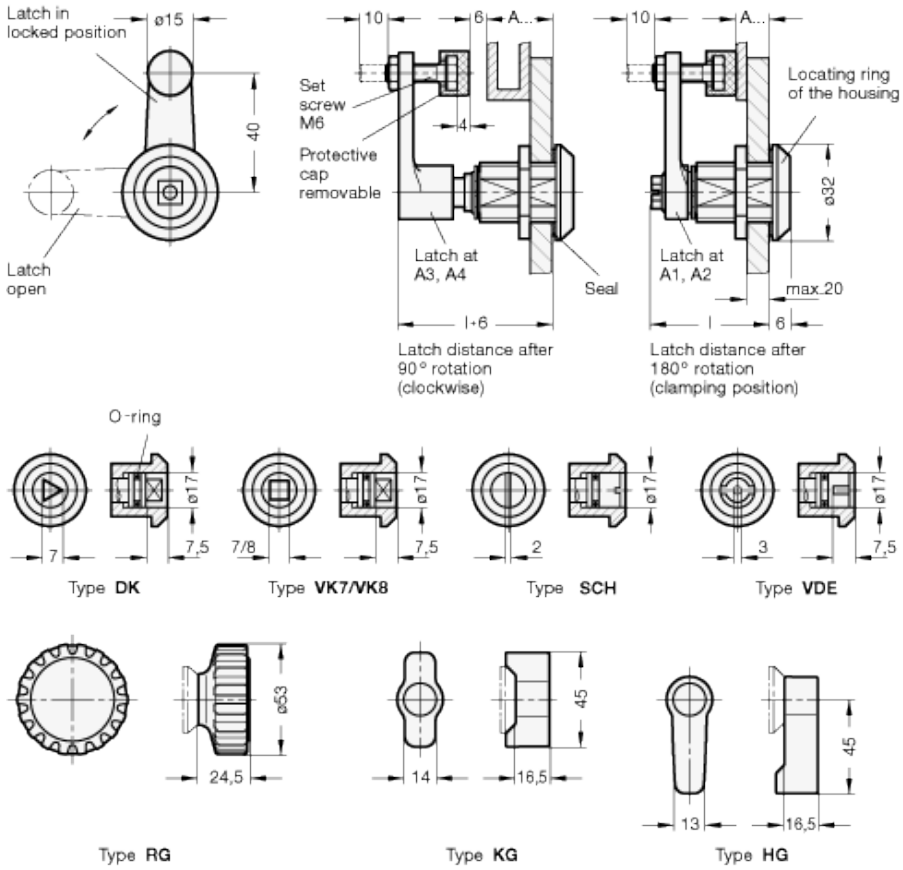
GN 516.1

Rotary clamping latches



technical informations

Lock housing

Zinc alloy die-cast.

Locating ring

Zinc alloy die-cast, epoxy resin coating RAL 9005 black matte finish.

Latch

Zinc alloy die cast.

Knob, Wrench, Lever

Polyamide based (PA), black, matte finish.

Cover cap

Polyamide based (PA), light grey, matte finish.

Standard versions available

- Type DK: Operation with triangular spindle (DK7).
- Type VK7: Operation with square spindle A/F7.
- Type VK8: Operation with square spindle A/F8.
- Type VDE: Operation with double bit.
- Type RG: Operation with knurled knob GN 7336.
- Type KG: Operation with wrench.
- Type HG: Operation with lever.

Accessories

Key GN 119.2

Features and applications

The rotary clamping latches GN 516.1 have a closing mechanism which transfers the rotary movement of the operating element (key) into a 90° turn and then into a 6 mm linear stroke.
This mechanism is designed for common applications such as making a tight and vibration-proof interlock in the end position (retaining position) in connection with the protective cap.
A 10 mm adjustment within the latch distances A1 ... A4 can be achieved by the set screw M6. This covers a clamping range from 1 to 41 mm consistently.

Assembly instructions

1. Latch in starting position.
2. The first 90° turn of the actuator / key moves the latch into the usual locking position.
3. Turning the actuator further by another 90° will lift the latch in linear direction by 6 mm, pulling the door leaf against the frame or the seal and generating a vibration-proof lock.

Max. torque: 4,5 Nm
Max. axial force: 340 N
Max. static load 340 N

Installation instruction

For installation, set a bore diameter in the door as shown in the outline drawing. Once assembled, the rotary clamping latch is pushed through the bore diameter from the front. The hexagonal nut can then be pushed over the latch from the back and bolted in place.

The installation bore diameter in the door leaf is usually generated by punching or laser application in series production.
For small series and stell sheets below 2 mm thickness, the sheet metal punches GN 123 are the tool of choice (see main catalouge page 881).
The installation bore diamtere can also be set by drilling / milling.

Standard Elements	Main dimension					Weight
Description	A1	A2	A3	A4	l	g
GN 516.1-DK-A1	1 ... 11	-	-	-	40.5	106
GN 516.1-DK-A2	-	11 ... 21	-	-	40.5	106
GN 516.1-DK-A3	-	-	21 ... 31	-	56	106
GN 516.1-DK-A4	-	-	-	31 ... 41	56	106
GN 516.1-VK7-A1	1 ... 11	-	-	-	40.5	106

GN 516.1-VK7-A2	-	11 ... 21	-	-	40.5	106
GN 516.1-VK7-A3	-	-	21 ... 31	-	56	106
GN 516.1-VK7-A4	-	-	-	31 ... 41	56	106
GN 516.1-VK8-A1	1 ... 11	-	-	-	40.5	106
GN 516.1-VK8-A2	-	11 ... 21	-	-	40.5	106
GN 516.1-VK8-A3	-	-	21 ... 31	-	56	106
GN 516.1-VK8-A4	-	-	-	31 ... 41	56	106
GN 516.1-VDE-A1	1 ... 11	-	-	-	40.5	110
GN 516.1-VDE-A2	-	11 ... 21	-	-	40.5	110
GN 516.1-VDE-A3	-	-	21 ... 31	-	56	110
GN 516.1-VDE-A4	-	-	-	31 ... 41	56	110
GN 516.1-RG-A1	1 ... 11	-	-	-	40.5	140
GN 516.1-RG-A2	-	11 ... 21	-	-	40.5	140
GN 516.1-RG-A3	-	-	21 ... 31	-	56	140
GN 516.1-RG-A4	-	-	-	31 ... 41	56	140
GN 516.1-KG-A1	1 ... 11	-	-	-	40.5	120
GN 516.1-KG-A2	-	11 ... 21	-	-	40.5	120
GN 516.1-KG-A3	-	-	21 ... 31	-	56	200
GN 516.1-KG-A4	-	-	-	31 ... 41	56	120
GN 516.1-HG-A1	1 ... 11	-	-	-	40.5	120
GN 516.1-HG-A2	-	11 ... 21	-	-	40.5	120
GN 516.1-HG-A3	-	-	21 ... 31	-	56	120
GN 516.1-HG-A4	-	-	-	31 ... 41	56	120