

KEYSTONE

A new generation manual operator grip made of a high tech composite material suitable for many butterfly valves with Keystone topplate.

Features

- Solid sturdy design.
- Ergonomic grip ensures efficient and easy operation, even with elevated or low temperature fluids, the handle remains comfortable and eliminates the need for dew point barriers.
- Corrosion resistant material
The new handle is made from a composite material; a mixture of a polymer matrix, reinforced with glass fibers. The material itself is resistant to outdoor environments.
- High strength material and design
Do not confuse this material with ordinary plastics. Composite is a light weight and high strength material. To optimize the material properties in combination with the unique production methods, the handle has been designed with a mosaic of reinforcement bridges which are visible from the bottom side.
- Innovative mounting design by using a bayonet connection between the handle and throttling plate. When the handle is mounted to the valve the bayonet connection is secured by the mounting bolts.
- Raised above insulation piping.
- Can be locked in 10 positions.
- Integrated position indication.
- Clear indication of disc position.
- Provision for padlock device (recommended Shackle diameter ¼").
- Axial blocked shaft with throttling plate (blow-out proof).



Applications

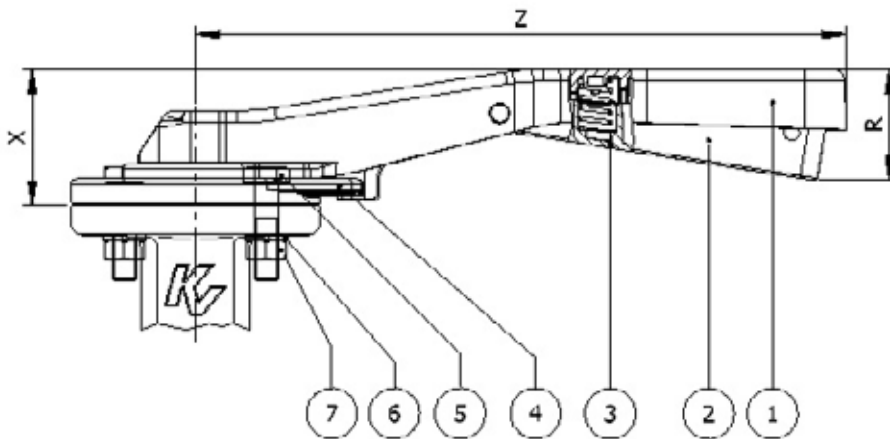
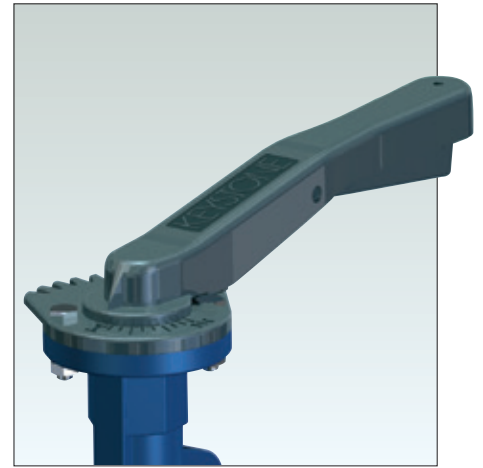
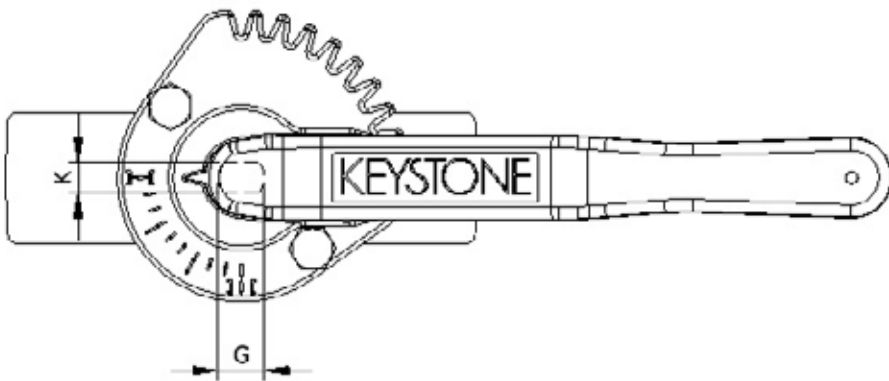
The leverlock F410 handle is suitable for many valves which require manual operators. Typical examples are distribution units and risers in HVAC installations and other applications where pipes are insulated.

Material degradation is possible in contact with strong acids, bases and oxidizing environments.

Although relatively new in the valve industry, it is broadly used in the automotive industry for construction components.

Composite handle

F410 for Keystone valves sizes 25-150 mm



Handle dimensions (in mm)

Handle	Valve size	G	K	R	X	Z	mass (gr) composite
410	DN25-40	9.53	6.35	37	42	180	100
410	DN50-80	14.28	9.5	50	56	267	320
410	DN100	15.88	11.1	50	56	267	320
410	DN125-150	19.05	12.7	50	56	267	320

Parts list

Part	Name
1	Handle bar
2	Handle lever
3	Spring
4	Throttling plate
5	Screw
6	Spring washer
7	Nut

Maximum operating torque and force

Handle	Valve size	Maximum operating force in N (in kg)	Torque generated at max. force in Nm
410	DN25-40	250 (25)	35
410	DN50-80	820 (82)	175
410	DN100	820 (82)	175
410	DN125-150	820 (82)	175

Material specification F410

Part name	Material	EN designation	EN material number	Remarks
Handle bar	Composite			
Handle lever	Composite			
Spring	Stainless steel	X 5 CrNiMo 17 12 2	1.4401	
Throttling plate	Composite			
Screw	Stainless steel	X 5 CrNiMo 17 12 2	1.4401	
Spring washer	Stainless steel	X 5 CrNiMo 17 12 2	1.4401	
Nut	Stainless steel	X 5 CrNiMo 17 12 2	1.4401	

Material selection F410

Handle bar	Handle lever	Throttling plate	Mounting material	Trim number	Sizes (mm)
Composite	Composite	Composite	Stainless steel	542	25-150