PENTAIR

KEYSTONE

A new generation manual operator grip made of a high tech composite material suitable for many butterfly valves with an ISO 5211 topplate

Features

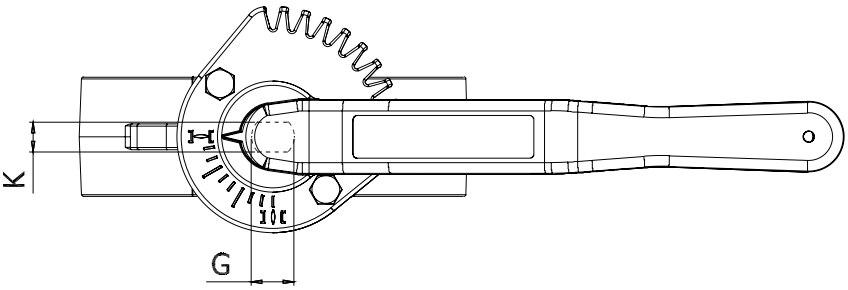
- Solid sturdy design.
- Ergonomic grip ensures efficient and easy operation, even with elevated or low temperature fluids, the handle remains comfortable and eliminates the need for dew point barriers.
- Corrosion resistant material
  The new handle is made from a composite material; a mixture of a 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").
- For parallel flats, shafts and topplate with female recess according ISO 5211
- Axial blocked shaft with throttling plate (blow-out proof).

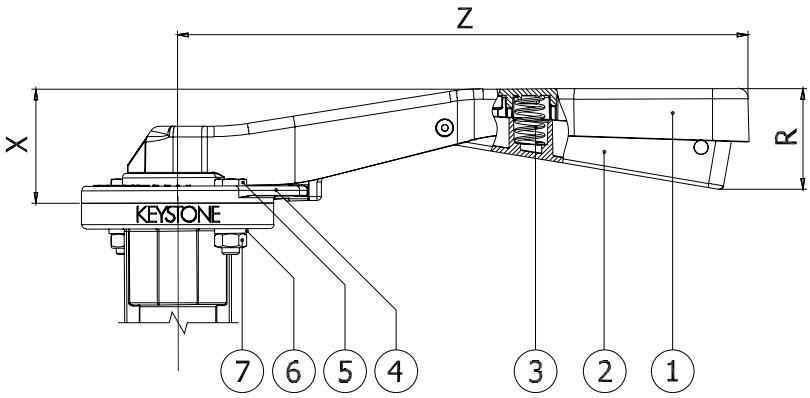
Applications

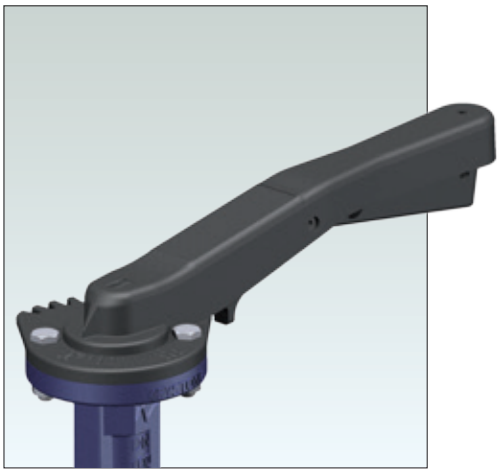
The leverlock F419 handle is suitable for many valves which require manual operators. Typical examples are distribution units and risers in HVAC installations and other applications where pipes are insulated.
Material degradation is possible in contact with strong acids, bases and oxidizing environments.
Although relatively new in the valve industry, it is broadly used in the automotive industry for construction components.

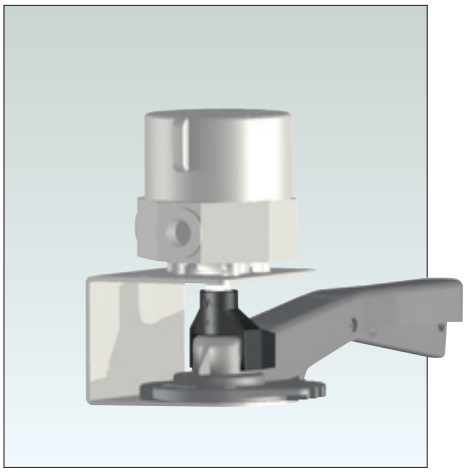
EBPJV-0778-EN-1309

Composite handle
F419 for ISO valves sizes 20-150 mm









Additional composite shaft adaptor is available to simplify mounting switch box.

Handle dimensions (in mm)

Type	ISO	for sizes	G	K	R	X	Z	mass (gr) composite
419-D08	F05	20-50	12	8	37	40	180	100
419-D25	F07	65-100	16	11	50	54	267	260
419-D50	F07	125-150	20	14	50	54	267	260

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	Maximum operating force in N (in kg)	Torque generated at max. force in Nm
419 - D08	250 (25)	35
419 - D25	700 (70)	150
419 - D50	700 (70)	150

Material specification F419

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 F419

Handle bar	Handle lever	Throttling plate	Mounting material	Trim number	Sizes (mm)
Composite	Composite	Composite	Stainless steel	542	20-150