

# KEYSTONE

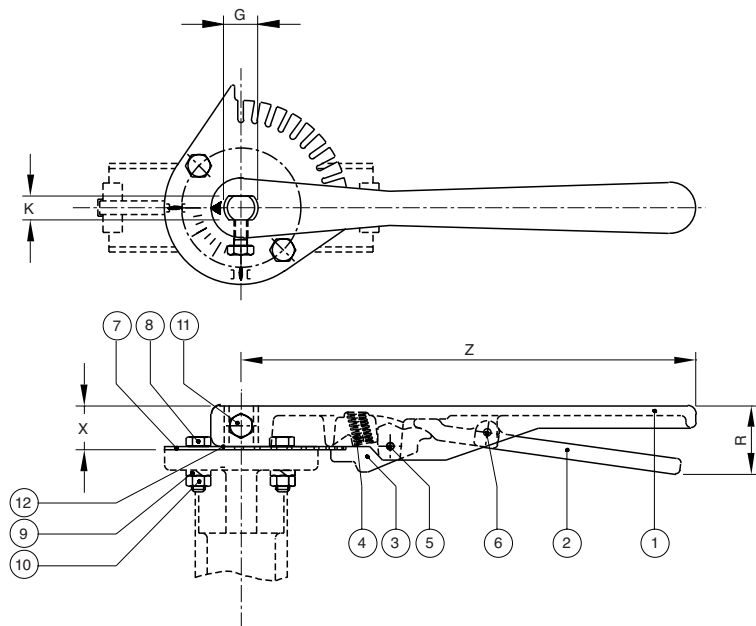
**Part Name**

- 1. Handle bar
- 2. Handle lever
- 3. Locking plate
- 4. Spring
- 5. Spring pin
- 6. Spring pin
- 7. Throttling plate
- 8. Screw
- 9. Springwasher
- 10. Nut
- 11. Handle screw
- 12. Security plate (optional)

**Note**

- 1. Keystone advises to use handles for valves up to sizes 150 mm. On larger sizes, gearoperators according F455 are recommended.

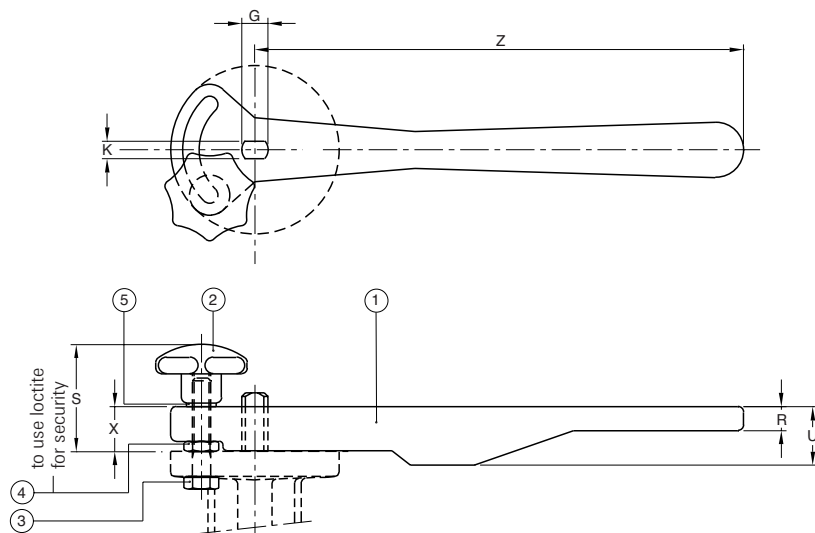
## Leverlock handle Figure 412



**Handle dimensions in mm**

Type	For sizes	G	K	R	X	Z	Mass (kg)	
							Alu	Ductile Iron
412-015	20-50	12,03	08,03	35	25	180	0,2	0,6
412-025	65-100	16,03	11,03	41	30	267	0,5	1,1
412-050	125-150	20,03	14,03	41	30	267	0,5	1,1
412-080	200	25,03	18,03	50	50	356	-	2,1
412-100	250-300	30,03	22,03	50	50	356	-	2,1

## Continuous adjustable handle Figure 413



**Part Name**

- 1. Handle bar
- 2. Star grip cap
- 3. Screw
- 4. Nut
- 5. Serrated lock washer
- 6. Security plate

**Note**

- 1. Keystone advises to use handles for valves up to sizes 150 mm. On larger sizes, gearoperators according F455 are recommended.

**Handle dimensions in mm**

Type	For sizes	G	K	R	S	U	X	Z	Mass
									(kg)
413-015	20-50	12,03	8,03	9	48	26	20,0	180	0,6
413-025	65-100	16,03	11,03	13	60	32	24,5	267	1,1
413-050	125-150	20,03	14,03	13	60	32	24,5	267	1,1

**Material selection Figure 412**

Handle bar	Handle lever	Throttling plate	Locking plate	Mounting mat.	Security plate	Trim no.	Sizes (mm)
Aluminium	Aluminium	Steel zinc coated	Steel zinc coated	Steel	-	<b>511</b>	20-150
					Stainless Steel	<b>515</b>	20-150
Aluminium anodized	Aluminium anodized	Stainless Steel	Stainless Steel	Stainless Steel	-	<b>513</b>	20-150
					Stainless Steel	<b>517</b>	20-150
Ductile Iron	Ductile Iron zinc coated	Stainless Steel	Stainless Steel	Stainless Steel	-	<b>514</b>	20-300
					Stainless Steel	<b>518</b>	20-300
Ductile Iron	Ductile Iron	Steel zinc coated	Stainless Steel	Steel	-	<b>512</b>	20-300
					Stainless Steel	<b>516</b>	20-300

**Material specification Figure 412**

Part name	Material	DIN designation	DIN mat. no.	Remark
Handle bar	Aluminium	GD-ALSi8Cu3	3.2161.05	Alloy number 226
	Ductile Iron	GGG 40	0.7040	
	Aluminium anodized	GD-ALMg8(Cu) anodized	3.2161.05	Alloy number 226 anodized
Handle lever	Aluminium	GD-ALSi8Cu3	3.2161.05	Alloy number 226
	Ductile Iron	GGG 40	0.7040	
	Ductile Iron/zinc coated	GGG 40 zinc coated	0.7040 zinc coated	
	Aluminium anodized	GD-ALMg8(Cu) anodized	3.2161.05	Alloy number 226 anodized
Locking plate	Steel zinc coated	St. 12.03/St 37 zinc coated		
	Stainless Steel	X 5 CrNi 18 10	1.4301	
Spring	Stainless Steel	X 5 CrNiMo 17 12 2	1.4401	
Springpin	Stainless Steel	X 5 CrNi 18 10	1.4301	
Throttling plate	Steel zinc coated	St 12.03/St 37 zinc coated		
	Stainless Steel	X 5 CrNi 18 10	1.4301	
Screw	Steel			Quality 8.8
	Stainless Steel	X 5 CrNi 18 10	1.4301	
Springwasher	Steel			
	Stainless Steel	X 5 CrNi 18 10	1.4301	
Nut	Steel			Quality 6.6
	Stainless Steel	X 5 CrNi 18 10	1.4301	
Handle screw	Stainless Steel	X 5 CrNi 18 10	1.4301	
Security plate	Stainless Steel	X 5 CrNi 18 10	1.4301	Figure 412-S only

**Material selection Figure 413**

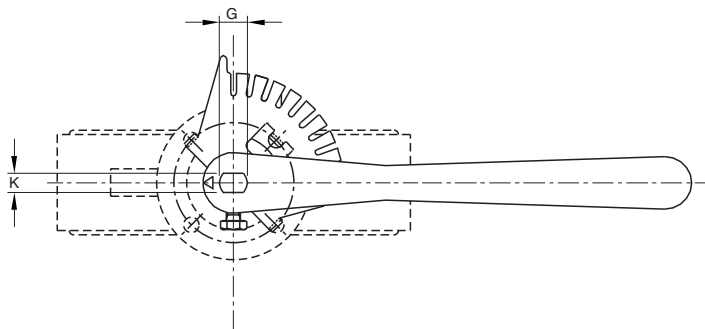
Handle bar	Star grip	Trim no.	Sizes (mm)
Ductile Iron	Bakelite with steel insert	<b>523</b>	20-150

**Material specification Figure 413**

Part name	Material	DIN designation	DIN mat. no.
Handle bar	Ductile Iron	GGG 40	0.7040
Star gripcap	Bakelite + Steel insert		
Screw	Stainless Steel	X 5CrNiMo 17 12 2	1.4401
Nut	Stainless Steel	X 5CrNi 18 10	1.4301
Washer	Stainless Steel	X 5CrNiMo 17 12 2	1.4401

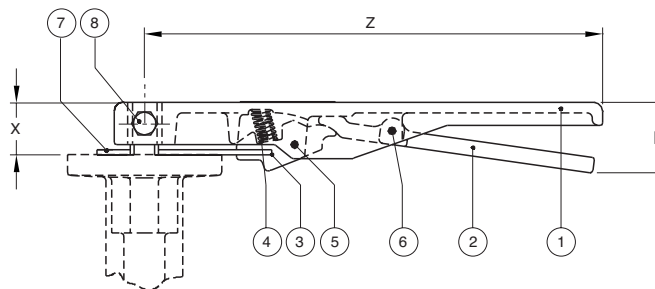
# Keystone Leverlock handle Figure 418 for ISO valve Figure 28/38 sizes 20-300 mm

## For sizes 20-200 mm



### Note

- Keystone advises to use handles for valves up to sizes 150 mm. On larger sizes, gearoperators according F455 are recommended.



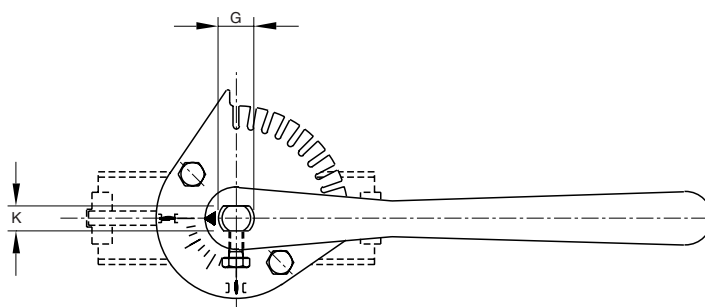
### Part Name

- Handle bar
- Handle lever
- Locking plate
- Spring
- Spring pin
- Spring pin
- Knock on throttling plate
- Handle screw

### Handle dimensions in mm

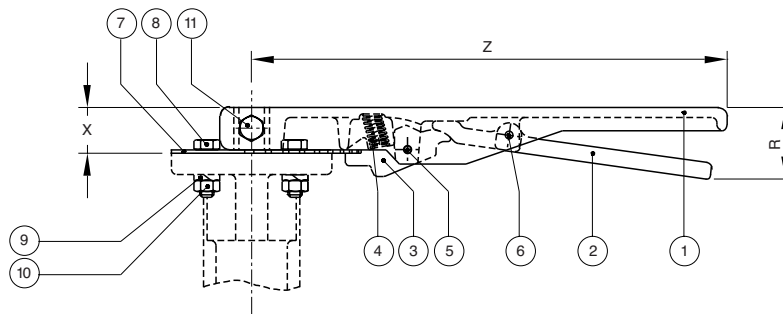
Type	For sizes	G	K	R	X	Z	Mass (kg)	
							Alu	Ductile Iron
418-008	20-50	12.03	8.03	35	25	180	0.24	0.49
418-025	65-100	16.03	11.03	41	30	267	0.43	1.05
418-050	125-200	20.03	14.03	41	30	267	0.43	1.05

## For sizes 250-300 mm



### Part Name

- Handle bar
- Handle lever
- Locking plate
- Spring
- Spring pin
- Spring pin
- Throttling plate
- Screw
- Springwasher
- Nut
- Handle screw



### Note

- Keystone advises to use handles for valves up to sizes 150 mm. On larger sizes, gearoperators according F455 are recommended.

### Handle dimensions in mm

Type	For sizes	G	K	R	X	Z	Mass (kg)	
							Alu	Ductile Iron
418-100	250-300	30.03	22.03	50	50	356	-	2.1

**Material selection Figure 418**

Handle bar	Handle lever	Knock on throttling plate	Locking plate	Mounting mat.	Trim no.	Sizes (mm)
Aluminium	Aluminium	Steel zinc coated	Steel zinc coated	-	<b>526</b>	20-200
Ductile Iron	Ductile Iron	Steel zinc coated	Stainless Steel	-	<b>527</b>	20-200
Ductile Iron	Ductile Iron	Steel zinc coated	Stainless Steel	steel	<b>528</b>	250-300

**Material specification Figure 418**

Part name	Material	DIN designation	DIN mat. no.	Remark
Handle bar	Aluminium	GD-AISI8Cu3	3.2162.05	Alloy number 226
	Ductile Iron	GGG 40	0.7040	
Handle lever	Aluminium	GD-AISI8Cu3	3.2162.05	Alloy number 226
	Ductile Iron	GGG 40	0.7040	
Locking plate	Steel zinc coated	St 12.03/St 37 zinc coated	1.4301	
	Stainless Steel	X 5 CrNi 18 10		
Spring	Stainless Steel	X 5 CrNiMo 17 12 2	1.4401	
Springpin	Stainless Steel	X 5 CrNi 18 10	1.4301	
Handle screw	Stainless Steel	X 5 CrNi 18 10	1.4301	
Knock on throttling plate	Steel zinc coated	St 12.03/St 37 zinc coated		Figure 418-008/025/050 only
Throttling plate	Steel zinc coated	St 12.03/St 37 zinc coated		Figure 418-100 only
Screw	Steel			Quality 8.8, Figure 418-100 only
Springwasher	Steel			Figure 418-100 only
Nut	Steel			Quality 6.6, Figure 418-100 only