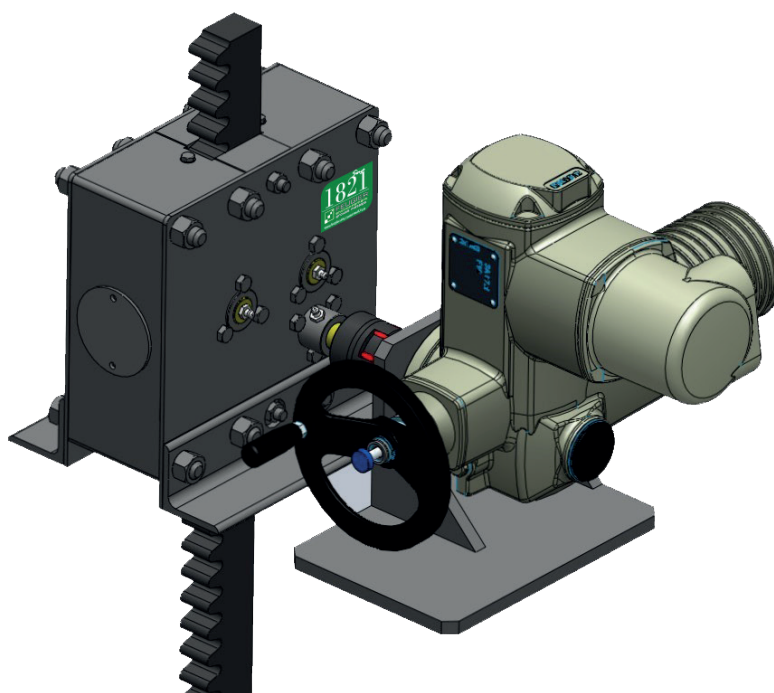


TECHNICAL DATA SHEET

# FEUGIER Environnement LIFTING JACKS



<b>Presentation</b>	<b>1</b>
<b>Types of jacks</b>	<b>2</b>
<b>Ratchet ends</b>	<b>10</b>

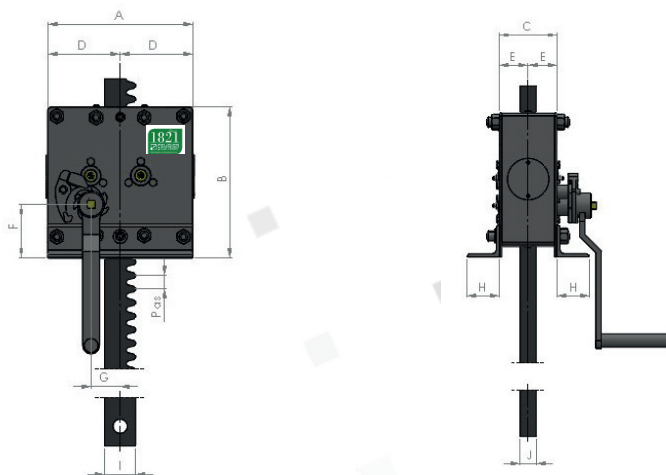
Feugier Environnement ratchet jacks are standalone devices for hydraulic works, that enable gate - control for purposes such as regulation, hydroelectricity production, irrigation, etc. Whether needed for a dam, valve, mill, fish ladder or any other purpose, our jacks adapt to any type of project.

## SINGLE JACK

### MANUAL SINGLE JACK

The manual single crank is intended for:

- occasional use
- low effort and jack travel
- valves with width-to-height ratio  $< 1.2$



### DIMENSIONAL CHARACTERISTICS

Force	0 -2 Tonnes	2 -3 Tonnes	3 -4 Tonnes	4 -6 Tonnes	6 -8 Tonnes	8 -10 Tonnes	10 -12 Tonnes	12 -15 Tonnes
Type of jack	000D	00D	0D	1D	2D	3D	4D	5D
A	230	256	280	290	360	400	450	490
B	230	267	290	294	370	400	450	490
C	100	106	121	126	137	148	148	185
D	115	128	140	145	180	200	225	245
E	50	53	60.5	63	68.5	74	74	92.5
F	95	95	110	110	125	125	125	125
G	45	51.5	65.5	59	93.5	88.5	99	118
H	50	60	60	60	80	80	80	100
Ratchet section IxJ	50X30	55X30	60X35	65X40	80X40	80X50	90X50	110X65
Interval	22	24	26	28	34	37	37	40
Lift height per crank turn	12.57	4.26	3.97	3.56	3.24	2.81	2.48	1.99

Force required	2 Tonnes	3 Tonnes	4 Tonnes	6 Tonnes	8 Tonnes	10 Tonnes	12 Tonnes	15 Tonnes
Lift per crank turn (mm)	13.04	4.27	3.96	3.56	3.24	2.82	2.49	1.98
Crank effort (kg)	25.9	15.9	19.7	26.5	26.8	29.2	30.9	26.4

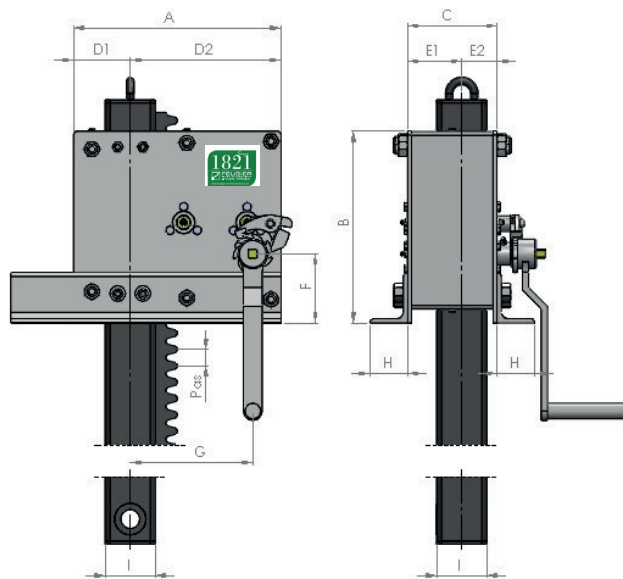
## REINFORCED SINGLE RATCHET JACK

### PIPE-MOUNTED REINFORCED SINGLE MANUAL RATCHET JACK

The pipe-mounted reinforced single manual ratchet jack is intended for:

- occasional use
- low effort and jack travel
- valves with width-to-height ratio  $< 1.2$

This type of jack is recommended for long ratchet spans to prevent buckling



### DIMENSIONAL CHARACTERISTICS

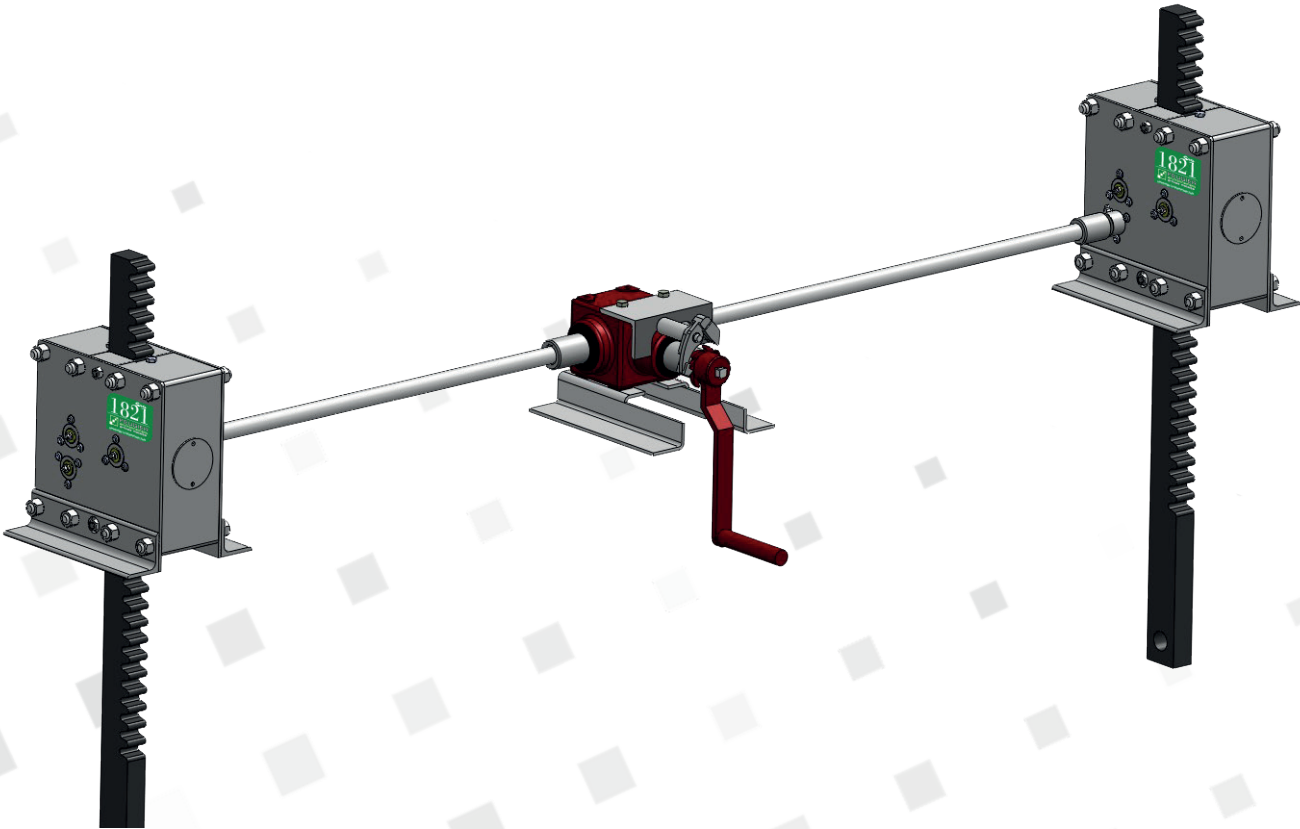
Force required	0 - 2 Tonnes	2 - 3 Tonnes	3 - 4 Tonnes	4 - 6 Tonnes	6 - 8 Tonnes	8 - 10 Tonnes	10 - 12 Tonnes	12 - 15 Tonnes
Type of jack	000DT*	00DT	0DT	1DT	2DT	3DT	4DT	5DT
A	280	330	330	365	430	450	480	570
B	280	305	305	325	400	450	480	520
C	130	142	142	152	162	177	177	210
D1	85	90	90	95	102	107	107	126
D2	195	240	240	270	328	343	373	444
E1	76	86	86	91	94	101	101	120
E2	54	56	56	61	68	76	76	90
F	95	95	110	110	125	125	125	175
G	128	190	195	215	258	183	213	309
H	50	60	60	60	80	80	80	100
Pipe cross-section LxI	70X70	80X80	80X80	90X90	90X90	100X100	100X100	120X120
Interval	22	24	26	28	34	37	37	40
Lift height per crank turn	12.57	4.26	3.97	3.56	3.24	2.81	2.48	1.99

\*Crank on the other side

COUPLED JACKS

MANUAL COUPLED JACKS

- Manual coupled jacks are designed for:
- valves with width-to-height ratio < 1.2 or > 1.2
  - occasional use
  - limited forces and flows



FORCES AND FLOWS

Force	Up to 3 Tonnes	Up to 4 Tonnes	Up to 6 Tonnes	Up to 8 Tonnes	Up to 10 Tonnes	Up to 15 Tonnes	Up to 20 Tonnes	Up to 30 Tonnes
Type of jack	2x000D	2x00D	2x0D	2x1D	2x2D	2x3D	2x4D	2x5D
Lift height per crank (mm)	6.52	2.13	1.98	1.78	1.62	1.41	1.24	0.99
Crank effort (Kg)	19.4	10.6	14.8	14.7	14.4	18.8	22.1	26.4



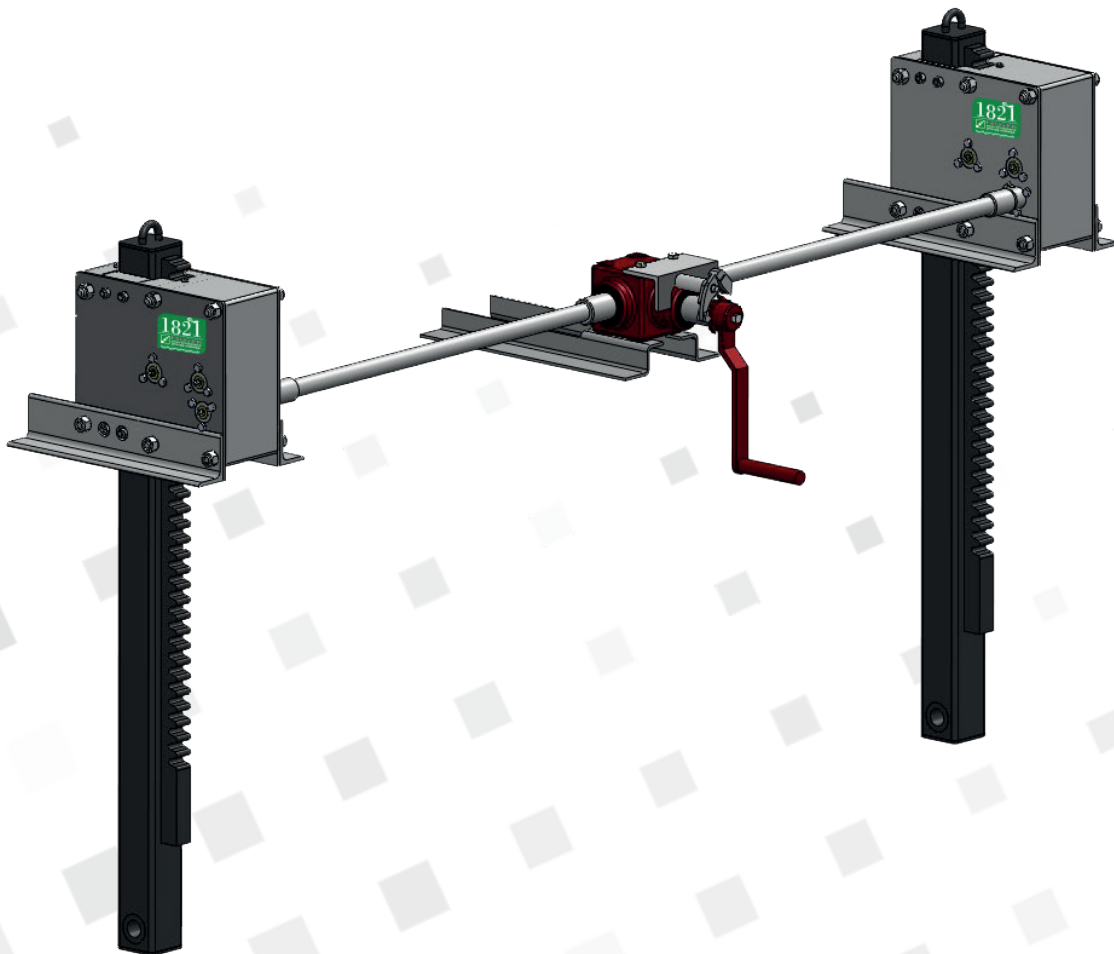
## COUPLED REINFORCED RATCHET JACKS

### PIPE-MOUNTED REINFORCED MANUAL COUPLED RATCHET JACKS

Manual coupled ratchet jacks are designed for:

- valves with width-to-height ratio  $\geq 1.2$
- occasional use
- limited forces and flows

This type of jack is recommended for long ratchet spans to prevent buckling



### FORCES AND FLOWS

Force	Up to 3 Tonnes	Up to 4 Tonnes	Up to 6 Tonnes	Up to 8 Tonnes	Up to 10 Tonnes	Up to 15 Tonnes	Up to 20 Tonnes	Up to 30 Tonnes
Type of jack	2X000DT	2X00DT	2X0DT	2X1DT	2X2DT	2X3DT	2X4DT	2X5DT
Lift height per crank turn	6.52	2.13	1.98	1.78	1.62	1.41	1.24	0.99
Crank effort (Kg)	19.4	10.6	14.8	14.7	14.4	18.8	22.1	26.4



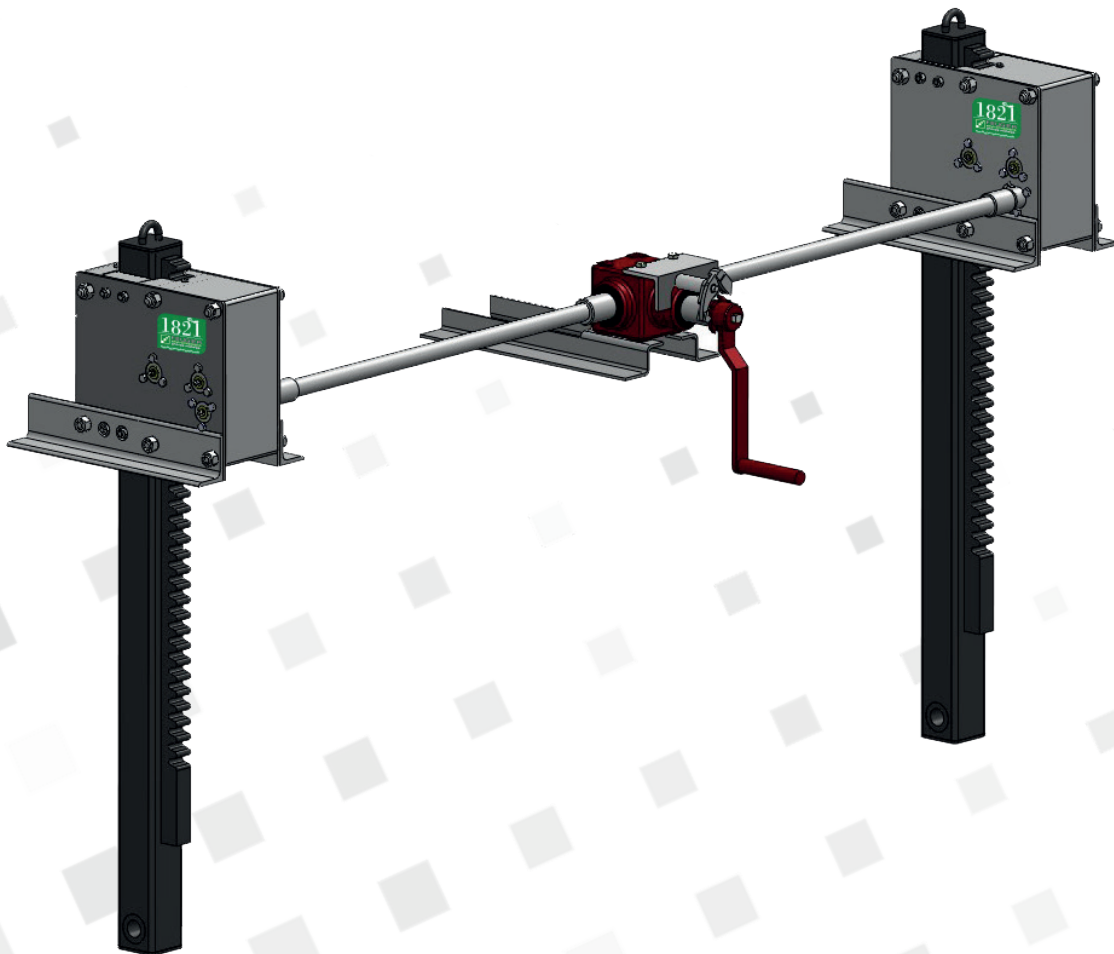
## COUPLED REINFORCED RATCHET JACKS

### PIPE-MOUNTED REINFORCED MANUAL COUPLED RATCHET JACKS

Manual coupled ratchet jacks are designed for:

- valves with width-to-height ratio  $\geq 1.2$
- occasional use
- limited forces and flows

This type of jack is recommended for long ratchet spans to prevent buckling



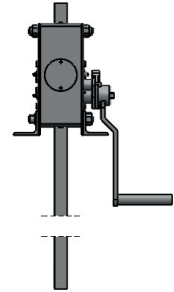
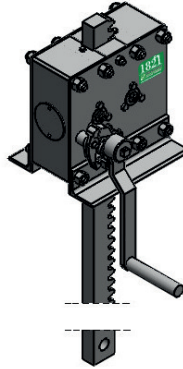
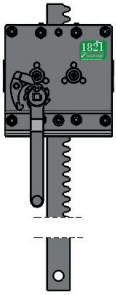
### FORCES AND FLOWS

Force	Up to 3 Tonnes	Up to 4 Tonnes	Up to 6 Tonnes	Up to 8 Tonnes	Up to 10 Tonnes	Up to 15 Tonnes	Up to 20 Tonnes	Up to 30 Tonnes
Type of jack	2X000DT	2X00DT	2X0DT	2X1DT	2X2DT	2X3DT	2X4DT	2X5DT
Lift height per crank turn	6.52	2.13	1.98	1.78	1.62	1.41	1.24	0.99
Crank effort (Kg)	19.4	10.6	14.8	14.7	14.4	18.8	22.1	26.4

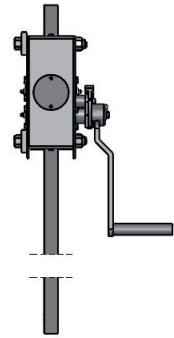
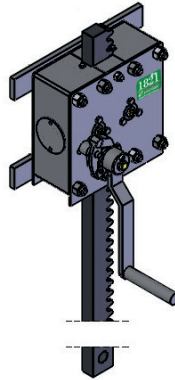
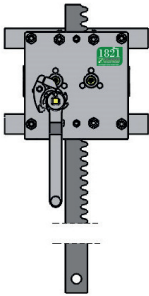


## TYPES OF STANDARD MOUNTINGS

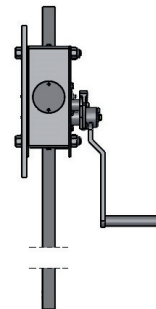
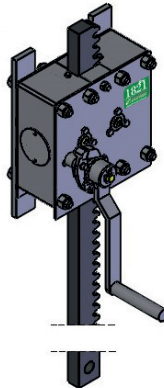
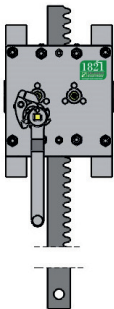
### ■ PLINTH-MOUNTED



### ■ HORIZONTAL SURFACE-MOUNTED



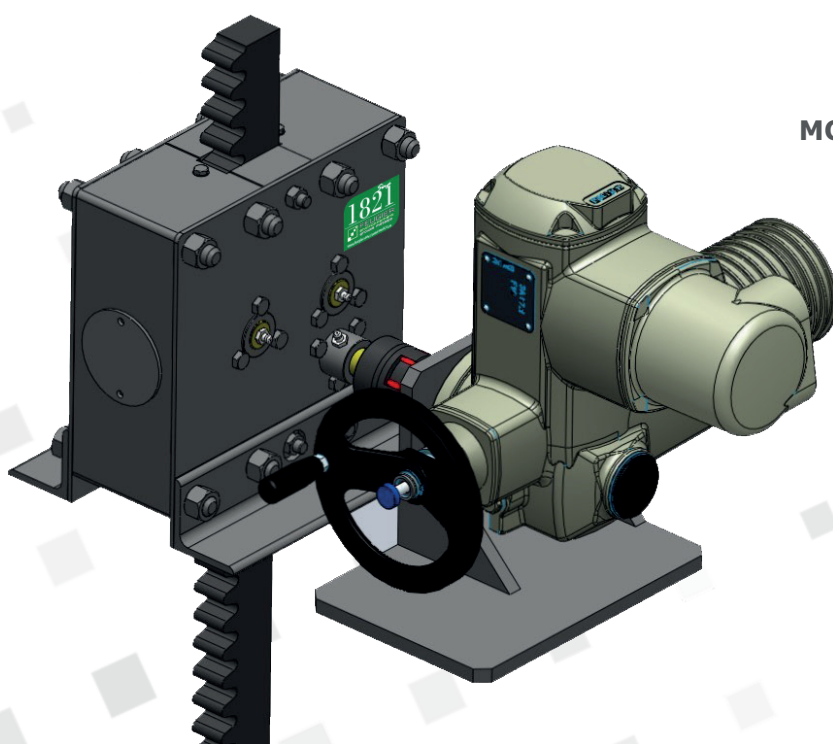
### ■ VERTICAL SURFACE-MOUNTED



## MOTORISED JACKS

### MOTORISED SINGLE JACK

Motorising a jack allows smooth and easy control of the valve. It usually comes in the form of an electric servomotor and may have gears or hydraulic gears



### MOTOR SYSTEM CHARACTERISTICS

- Travel limit sensor
- Torque limiters when opening and closing
- Manual override
- IP 65 to 68
- Many options possible (4-20mA coder, intermediate position contact, etc.)

### OPERATING SPEED

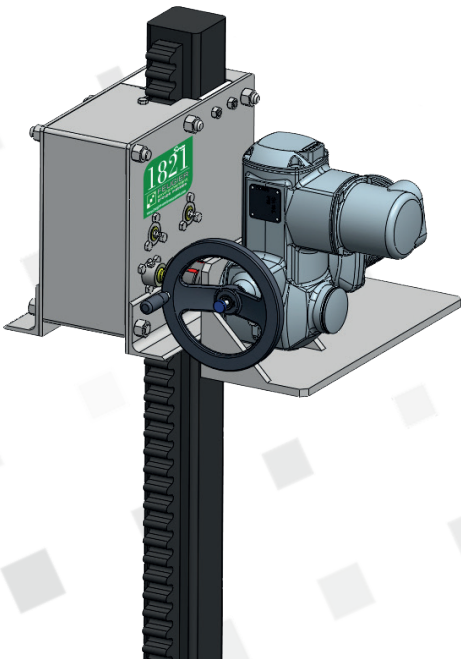
Capacity	2 Tonnes	3 Tonnes	4 Tonnes	6 Tonnes	8 Tonnes	10 Tonnes	12 Tonnes	15 Tonnes	25 Tonnes
Type of jack	000D	00D	0D	1D	2D	3D	4D	5D	7D
Forward speed (mm/min)	52 - 586	17 - 512	16 - 475	14 - 512	13 - 622	11 - 631	10 - 557	8 - 539	on demand



MOTORISED JACKS

PIPE-MOUNTED REINFORCED MOTORISED SINGLE RATCHET JACK

Motorising a jack allows smooth and easy control of the valve.  
 It usually comes in the form of an electric servomotor and may have gears or hydraulic gears.  
 This type of jack is recommended for long ratchet runs to prevent buckling



MOTOR SYSTEM CHARACTERISTICS

- Travel limit sensor
- Torque limiters when opening and closing
- Manual override
- IP 65 to 68
- Many options possible  
(4-20mA coder, intermediate position contact, etc.)

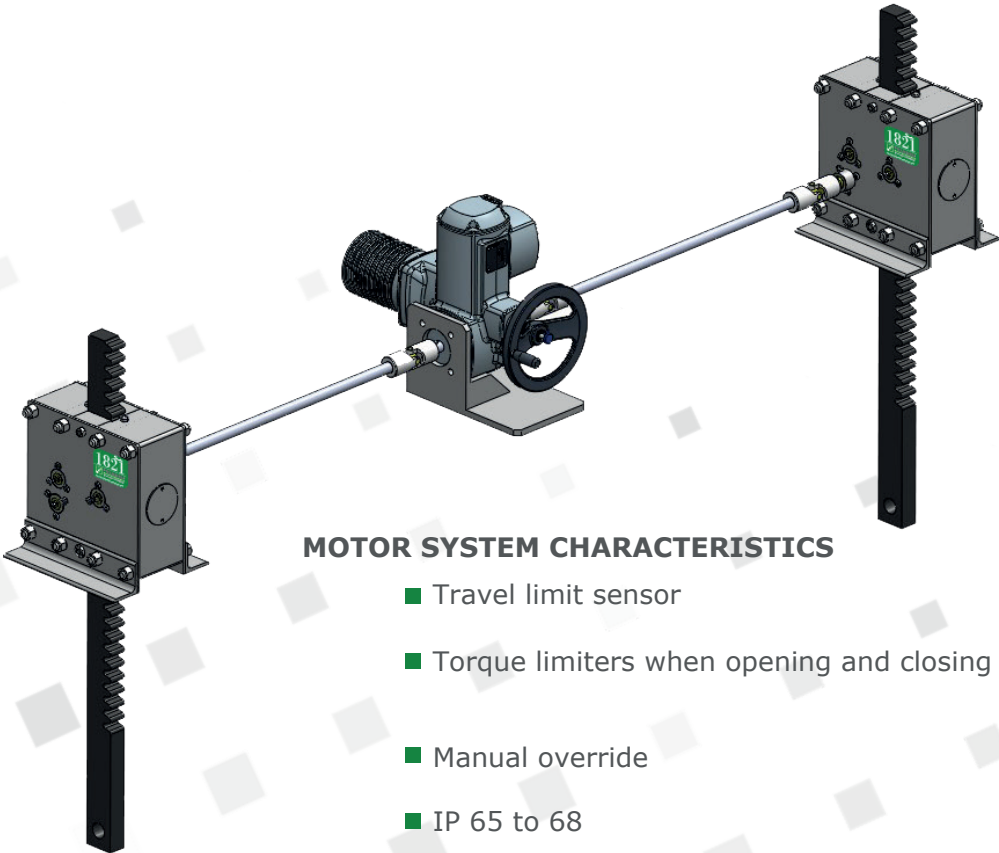
OPERATING SPEED

Capacity	2 Tonnes	3 Tonnes	4 Tonnes	6 Tonnes	8 Tonnes	10 Tonnes	12 Tonnes	15 Tonnes	25 Tonnes
Type of jack	000DT	00DT	0DT	1DT	2DT	3DT	4DT	5DT	7DT
Forward speed (mm/min)	52 - 586	17 - 512	16 - 475	14 - 512	13 - 622	11 - 631	10 - 557	8 - 539	on demand

MOTORISED JACKS

MOTORISED COUPLED JACKS

Motorising a jack allows smooth and easy control of the valve.  
 It usually comes in the form of an electric servomotor and may have gears or hydraulic gears



MOTOR SYSTEM CHARACTERISTICS

- Travel limit sensor
- Torque limiters when opening and closing
- Manual override
- IP 65 to 68
- Many options possible (4-20mA coder, intermediate position contact, etc.)

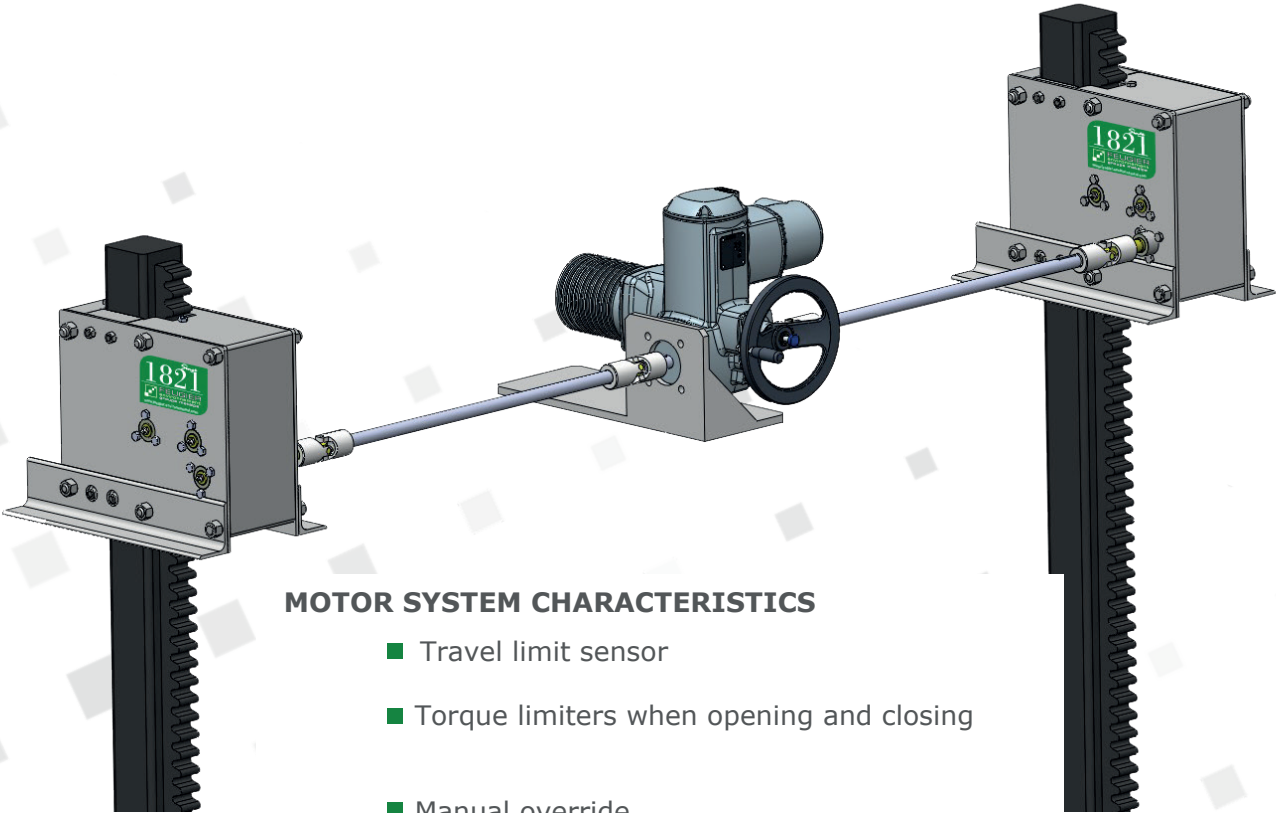
TRAVEL AND EFFORT

Force	Up to 3 Tonnes	Up to 4 Tonnes	Up to 6 Tonnes	Up to 8 Tonnes	Up to 10 Tonnes	Up to 15 Tonnes	Up to 20 Tonnes	Up to 30 Tonnes
Type of jack	2x000D	2x00D	2x0D	2x1D	2x2D	2x3D	2x4D	2x5D
Lift speed (mm/min)	26 - 586	17 - 512	16 - 475	14 - 512	13 - 612	11 - 631	10 - 557	8 - 539

MOTORISED JACKS

PIPE-MOUNTED REINFORCED MOTORISED COUPLED JACKS

Motorising a jack allows smooth and easy control of the valve. It usually comes in the form-of an electric servomotor and may have gears or hydraulic gears.  
 This type of jack is recommended for long ratchet runs to prevent buckling.



MOTOR SYSTEM CHARACTERISTICS

- Travel limit sensor
- Torque limiters when opening and closing
- Manual override
- IP 65 to 68
- Many options possible  
(4-20 mA coder, intermediate position contact, etc.)

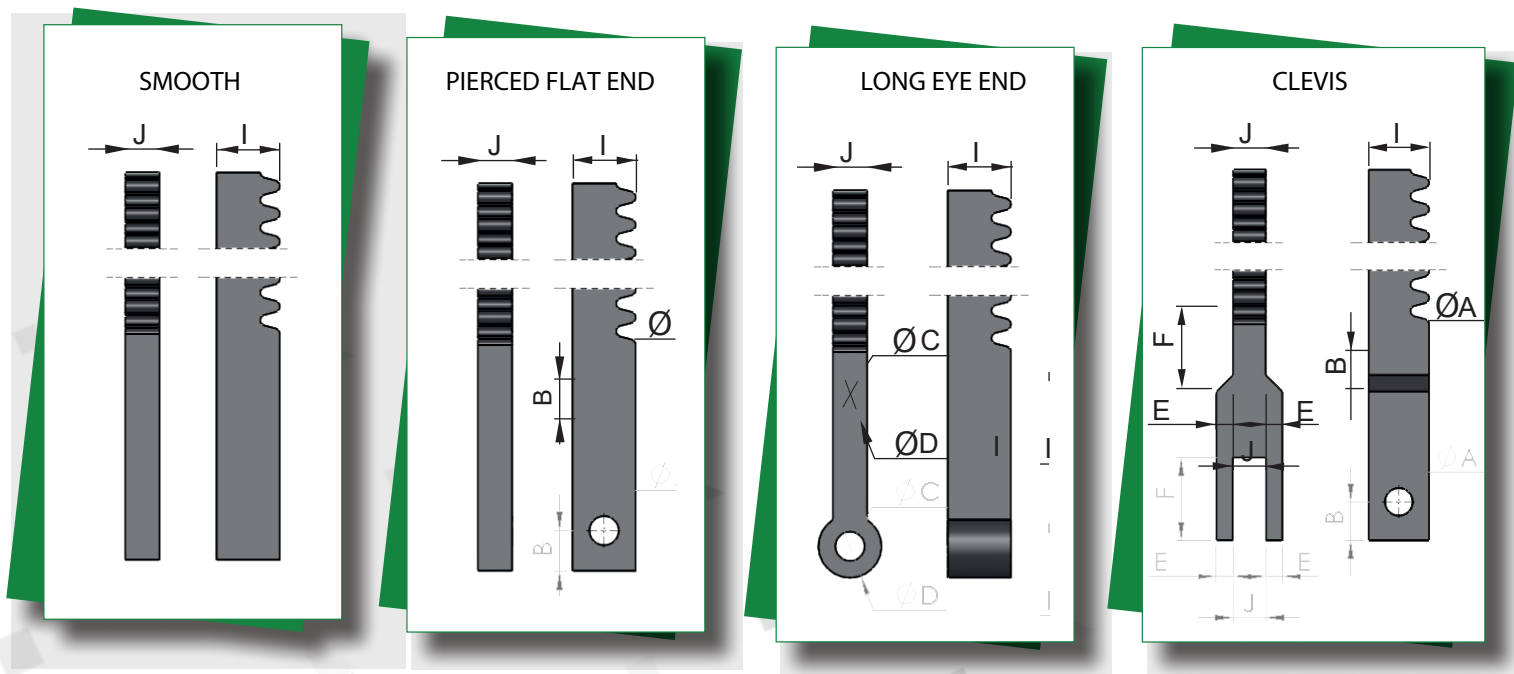
TRAVEL AND EFFORT

Force	Up to 3 Tonnes	Up to 4 Tonnes	Up to 6 Tonnes	Up to 8 Tonnes	Up to 10 Tonnes	Up to 15 Tonnes	Up to 20 Tonnes	Up to 30 Tonnes
Type of jack	2X000DT	2X00DT	2X0DT	2X1DT	2X2DT	2X3DT	2X4DT	2X5DT
Lift speed (mm/min)	26 - 586	17 - 512	16 - 475	14 - 512	13 - 612	11 - 631	10 - 557	8 - 539

## RATCHET-END DIMENSIONS

### RATCHET-END DIMENSIONS

Several types of ratchet ends are available, to suit the particular configuration.  
*Please contact us if you need any other type of configuration.*



### RATCHET-END DIMENSIONS

Type of jack Rib	000D	00D	0D	1D	2D	3D	4D	5D
I	50	55	60	65	80	80	90	110
J	30	30	35	40	40	50	50	65
ØA	25	25	30	32	40	40	45	50
B	30	35	35	40	45	50	50	60
ØC	25	25	30	32	40	40	45	50
ØD	50	55	60	65	70	75	75	100
E	12	15	15	18	20	25	25	30
F	70	75	75	80	95	100	110	140

*Please contact us for other dimensions*



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