GEDORE
TOOLS FOR LIFE

NEW GENERATION
GATE VALVE WRENCHES

with process reliable documentation software and sunlight-readable colour display

Gentle opening and closing of gate valves

WITH US YOU DOCUMENT EVERY GATE VALVE MOVEMENT

www.gedore-torque-solutions.com

THE NEW GENERATION LDA-S SOLUTION/LAW-S SOLUTION
BREAKAWAY TORQUE UP TO 1.200 NM

Display
Sunlight-readable colour display

Silicone protective cover
Protected display unit through silicone protective cover

Breakaway torque
Infinitely adjustable breakaway torque for individual settings on your gate valves

Low-maintenance
Brushless Technology

Documentation
The documentation of over 10,000 gate valve movements and the pre-defining of gate valve numbers with the DOCU module.

Counter-bidirektional
Digital and integrated, no separate accessories necessary

USB interface
For data transmission

Battery performance
System power: 270 Wh
Powerful 90 Wh (18V/5Ah) Lithium-Ion battery with integrated charge level indicator

Series LAW-S Solution

Gentle opening and closing of gate valves

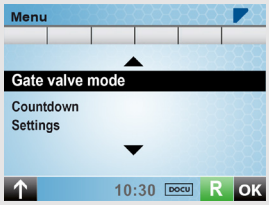
Proven system sequence by means of digital color display

For maximum precision, the LDA-S Solution offers a visual and acoustic zero-defects strategy: a sunlight-readable, digital colour display visualises the entire work workflow; in addition, an acoustics signal sound as soon as the set value is reached. Easy operation due to self-explanatory operator guidance. The menu language can be set optionally.

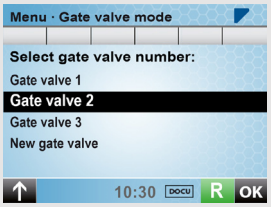
Two modes: gate valve mode + countdown

After entering the cut-off torque, the LDA-S Solution switches off automatically in gate valve mode when the specified torque is reached. In the countdown mode, the desired number of revolutions can be specified. After reaching the selected number of revolutions, the device switches off automatically.

The display and its functions:

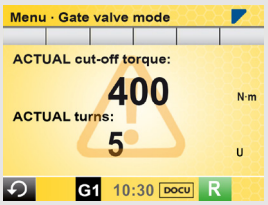


Main menu

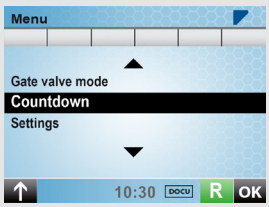


Select gate valve number

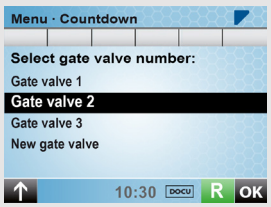
Enter cut-off torque



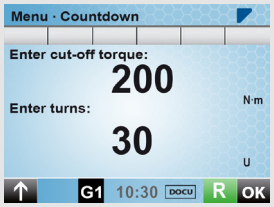
Cut-off torque reached



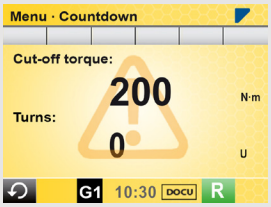
Main menu



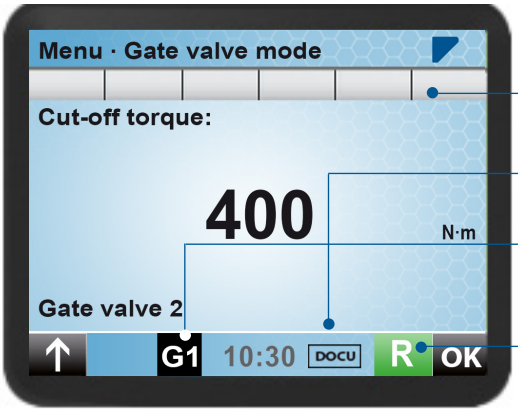
Select gate valve number



Enter cut-off torque resp. enter turns



Enter turns resp. enter cut-off torque



- Toolbar shows status of the device (USB connection, thread direction, temperature)
- Active module DOCU (documentation)
- Gear display
- Direction of rotation

- Silicone protective cover display unit
- 2 " high resolution LCD colour display with impact re-sistant macrolon protection screen
- OK-button
- Back-button
- Setting wheel for easy selection of bolt cases and torque values
- USB-interface for data transmission

Flexible. Solid.

- Weight-optimised without compromising on convenience or the necessary safety
- Motor unit featuring 360° rotation for ergonomics that can be adapted to your application
- Ergonomic grip for safe & non-fatiguing use
- Impact-free and accident-free work, even with sluggish gate valves

Reliable. Powerful.

- Work fast and reliable
- The electronically infinite torque settings and the soft start-up behaviour of the motor make an unexpected tearing away of the gate valve spindle impossible
- Smooth electronic switch-off prevents over-twisting in jerky movements
- Benefit in terms of work safety, flexibility and time when opening and closing the gate valves in your pipe network

The new gate valve machine with documentation module

The new LDA-S Solution gate valve wrenches, an in-house development, is equipped with a documentation module for quality assurance and a sunlight-readable, intuitively operated colour display. With its powerful 90 Wh lithium-ion battery, microprocessor electronics and brushless technology, the LDA-S Solution achieves a breakaway torque of up to 1,200 Nm.

Conforms to the highest standards

The data transfer of all gate valve movements via USB interface at the end of the working day is flawless and complete with the LDA-S Solution.

DOCU documentation module

The DOCU documentation module makes it possible to document more than 10,000 gate valve movements. In addition, it serves for quality-assuring archiving of your completed work.

DOCU documentation module for quality assurance

With the DOCU module, gate valve movements can be traced back. During the gate turning process, the data is documented and then exported to a PC. From there, a gate valve log can be created and archived. This reliably documents that all gate valve rotations were carried out with the specified settings. The encrypted log file ensures that manipulation of the documentation data is impossible. The DOCU module enables the documentation of more than 10,000 gate valve movements and is used for quality-assured archiving of your completed work. The DOCU module can be switched on and off as required with password protection.

Protocol example

Protocol gate valve

GEDORE

Master data

Personal number	A	**Date**	16.06.2021
Gate vale number	LDA-05 S gate valve	**FreeField3**	6 Zoll
FreeField1	DN150	**FreeField4**	Building yard
FreeField2	Test gate valve		
GPS coordinaten	48 9538786_8 9589851	**Street**	Bertha-Benz-Str. 12
Post code	71665	**Place**	Vaihingen/Enz
Serial number	P3970011P1		
Tool	LDA-05S Solution		

Method

Gate valve mode

Instructions

Cut-off torque [Nm]	**450**

Analysis

No.	Date	Time	Direction of rotation/gear	Number of turns	max. cut-off torque	cut-off torque	Break-away torque
1	12.06.2021	13:12:32	R/2	8	480	452	250
2	12.06.2021	13:12:35	R/2	9	480	431	310
3	12.06.2021	13:12:38	R/2	12	480	472	200
4	12.06.2021	13:12:40	R/2	8	480	460	400
5	12.06.2021	13:12:41	R/2	6	480	465	280
6	12.06.2021	13:12:42	R/2	15	480	440	180
7	12.06.2021	13:12:44	R/2	8	480	456	300
8	12.06.2021	13:12:48	R/2	7	480	477	250
9	12.06.2021	13:12:50	R/2	13	480	463	330
10	12.06.2021	13:12:32	R/2	8	480	456	210
11	12.06.2021	14:12:32	R/2	11	480	475	220
12	12.06.2021	15:12:32	R/2	8	480	452	320
13	12.06.2021	16:12:32	R/2	15	480	463	180
14	12.06.2021	17:12:32	R/2	13	480	452	470
15	12.06.2021	17:12:38	R/2	9	480	469	480
16	12.06.2021	17:12:45	R/2	6	480	458	230
17	12.06.2021	17:12:48	R/2	8	480	433	310
18	12.06.2021	17:12:55	R/2	11	480	480	450
19	12.06.2021	17:12:58	R/2	8	480	452	440
20	13.06.2021	13:16:46	R/2	9	480	478	210
21	13.06.2021	13:17:46	R/2	12	480	463	320
22	13.06.2021	13:18:46	R/2	13	480	456	450
23	13.06.2021	13:20:46	R/2	8	480	478	320
24	13.06.2021	13:20:48	R/2	14	480	468	300
25	13.06.2021	13:20:50	R/2	9	480	452	350
26	13.06.2021	13:21:46	R/2	8	480	451	430
27	13.06.2021	13:22:46	R/2	6	480	465	210
28	13.06.2021	13:23:46	R/2	12	480	479	440
29	17.06.2021	10:02:46	R/2	8	480	475	500
30	17.06.2021	10:02:48	R/2	12	480	463	410
31	17.06.2021	10:02:50	R/2	9	480	483	350

Original printed with GEDORE bolt case software.

Protocol example

1 Gate valve number and data

2 Method: gate valve mode or countdown

3 Instructions: cut-off torque or turns

4 Protocol of each gate valve movement with documentation data:

- Date
- Time
- Direction of rotation and gear
- Number of turns
- Max. cut-off torque
- cut-off torque
- Break-away torque

5 Forgery-proof - only original protocols are provided with this line. Manipulated documents are therefore excluded from the process.

+ CHECK

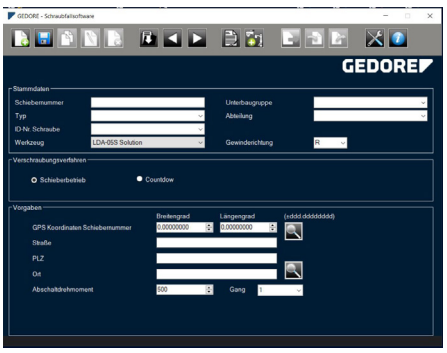
Authenticity test symbol is used in the bolt case software displayed

Quality management module DOCU for definition and documentation

The DOCU module can also be used to define and assign gate valve numbers. The gate valve numbers and values are defined on the PC via our bolting application software.

You decide between gate valve operation or countdown function, new gate valve numbers can be defined at any time. In addition to the torque specifications, the GPS coordinates or the address of the gate valve can also be defined.

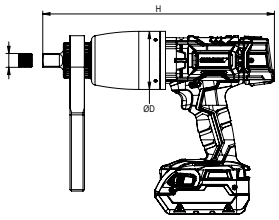
The data transfers of all gate valve movements via USB interface at the end of the working day are faultless and complete with the LDA-S Solution.



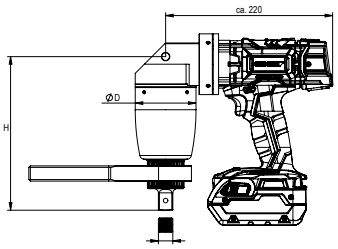
Technical Data

Type	~ Nm max*1	~ U/min*2	~ lbf·ft max*1	■	Ø D mm	H mm	kg*
LDA-05S Solution	500	46	369	¾ "	80	294	3.4
LDA- 07S Solution	700	29	516	¾ "	80	326	4.0
LDA-09S Solution	900	23	664	¾ "	80	326	4.0
LDA-12S Solution	1.200	20	885	¾ "	80	326	4.0
LAW-05S Solution	500	46	369	¾ "	80	190	4.7
LAW-07S Solution	700	29	516	¾ "	80	223	5.3
LAW-09S Solution	900	23	664	¾ "	80	223	5.3
LAW-12S Solution	1.200	20	885	¾ "	80	223	5.3

*1 Breakaway torque in 1 st gear, *2 2nd gear max. * With lithium-ion-battery (740g), without reaction arm
All information without guarantee. Subject to technical modifications.



Series LDA-S Solution



Series LAW-S Solution

Scope of delivery

- Device
- Reaction arm, straight (light alloy)
- 3x Lithium-ion battery (90 Wh/18 V/5 Ah)
- Charger 220–240 V; 50/60 Hz
- Tool box
- Operation manual
- Silicone protective cover display unit
- Module LA-S.DOCU incl. USB cable

Optional accessories

- Reaction arm in double (light alloy)
- Slide rod rigid (950mm long)
- Telescopic slide rode
- Hand lever extension for telescopic slide rode
- Hand lever extension (approx. 800 mm long)
- Hand lever extension heavy (approx1.000 mm long)

- Car charger
- Connector ¾" iVk x 20mm iVk
- Adapter ¾" iVk to multi tooth
- Adapter ¾" on conical square drive; 32 or 50 mm
- Cardan joint
- Cardan joint ¾" with adapter to support with telescopic rod
- Hand wheel adapter
- Level round

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