

BUEL®

THE THRUSTER

www.dellnerbubenzner.com



BUEL[®]_H
HIGH SPEED

BUEL[®]_G
GREEN

BUEL[®]_S
STRONG

 **DELLNER
BUBENZER**

MADE IN GERMANY

BUEL®

THE THRUSTERS

BUEL® thrusters have been developed on the basis of decades of experience in power transmission. Highest quality standards in each DELLNER BUBENZER business unit is the basis for excellent reliability and safety. Temperatures deviating from the standard range are possible after consultation.

Our experts will assist you to find your best solution with BUEL®.

YOUR ADVANTAGES

Unlimited Possibilities

BUEL® thrusters are operated with 3 phase voltages between 220 and 690V with 50 or 60 Hz.

Protection Class: IP 65 + IP 67

All electrical components of the BUEL® thrusters are protected from the elements inside the BUEL®.

Space Saving

BUEL® thrusters require remarkably less space than conventional thrusters.

Fast

BUEL® thrusters can reach a set time of less than 100ms.

Pure Power

BUEL® thrusters have 25% more power than conventional thrusters.

Saves Energy

BUEL® thrusters fulfill the requirements of DIN EN ISO 50001 Energy Management Systems.

Long Life & Less Maintenance

BUEL® thrusters score high for least maintenance cycles.

Hydraulic Medium

BUEL® thrusters are filled with a high performance synthetic oil, type Titan CHF 11S (former PENTOSIN CHF 11S).

This oil insures a trouble-free operation in the entire temperature range, indicated above. Biodegradable oil is available as an option.

-50°C to Over +75°C

BUEL® thrusters are applicable worldwide, between temperatures of -50°C to over +75°C.



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INNOVATION
IS THE DIFFERENCE



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The BUEL® Model H is a family member of the DELLNER BUBENZER brand BUEL®. BUEL® thrusters are used for almost all kind of industrial applications. They are setting new industry standards for disk and drum brakes as well as wheel brakes. **Our experts will assist you to find your best solution with BUEL®.**

More information: www.dellnerbubenzner.com

Electrical design

All BUEL® thrusters are operated with 3-phase voltages between 220 V to 690 V at 50 Hz or 60 Hz.

Protection class

All electric components of the BUEL® thrusters are located inside, for best protection against environmental influences. BUEL® thrusters are rated IP 65. As an option, protection class IP 67 is possible.

Operating modes (BL 35-5 to BL 600-8)

BUEL® thrusters are designed for intermittent duty, independent from the required operating mode of the associated drive. No limitation of the BUEL® thruster duty cycle is required, because after reaching full stroke, (brake released) the motor is switched off. If full stroke is not reached in 4 seconds, the internal thruster motor switches off.

Ambient temperature range

BUEL® thrusters are suitable for ambient temperatures between -30°C to +75°C*. For deviating ambient temperatures, please contact us for support.

Protection against moisture

For applications in maritime or tropic environments, the optional use of a small heater to protect the motor windings from moisture is recommended.

Heater voltages:

- > 110 to 120 V AC 50 Hz or 60 Hz
- > 220 to 240 V AC 50 Hz or 60 Hz

Hydraulic medium

BUEL® Model H thrusters are filled with a high performance synthetic oil, type Titan CHF 11S (former PENTOSIN CHF 11S). This oil insures a trouble-free operation in the entire temperature range, indicated above.

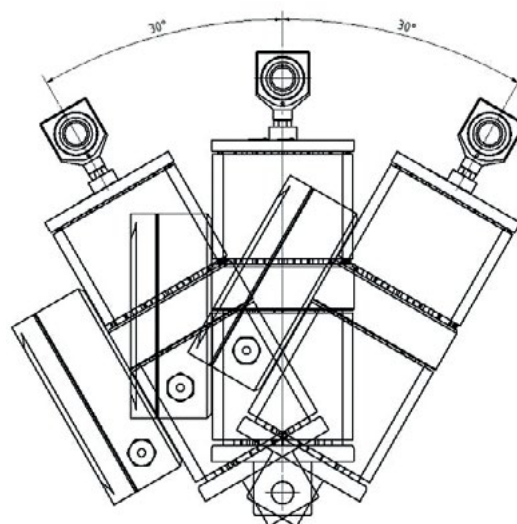
Biodegradable oil is available as an option.

Properties

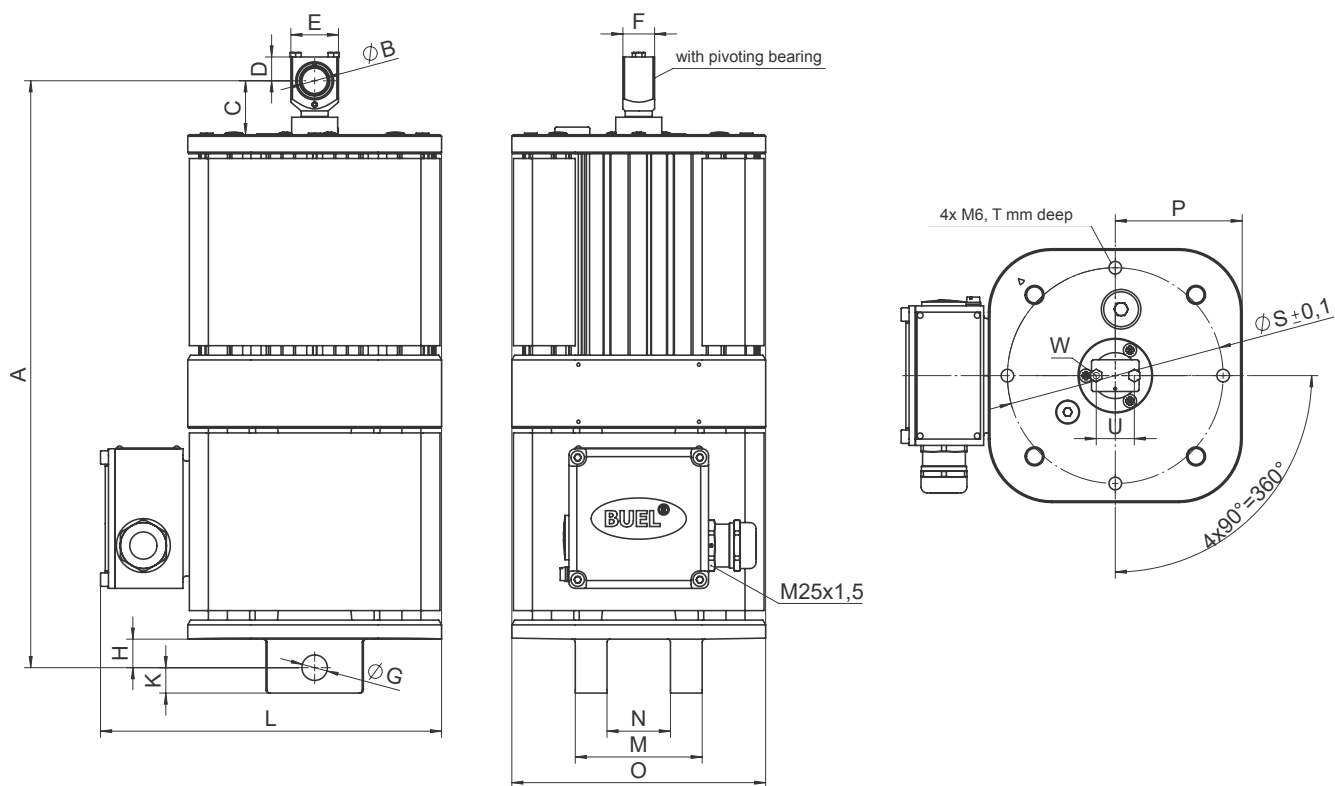
- > New technology
- > Pressure generation by centrifugal gear pump with high mechanical efficiency
- > Fast setting times (~ 150 ms)
- > Energy saving by intermittent duty
- > Fail safe principle
- > Redundant valves
- > Terminal box with control board
- > Automatic pressure drop compensation
- > Low heat generation
- > Huge temperature range in standard execution
- > Little oil volume
- > Little ecologic risk
- > High protection category
- > Infinitely variable re-setting time
- > Swivel head for shear force and misalignment compensation
- > Unique design for the complete model range
- > Low weight, excellent mass/performance ratio

Installation positions

All BUEL® thrusters are preferably operated vertically (piston rod on top). A deviation of +/- 30° from the vertical axis is permitted. A horizontal installation is possible as an option (please indicate with the order).

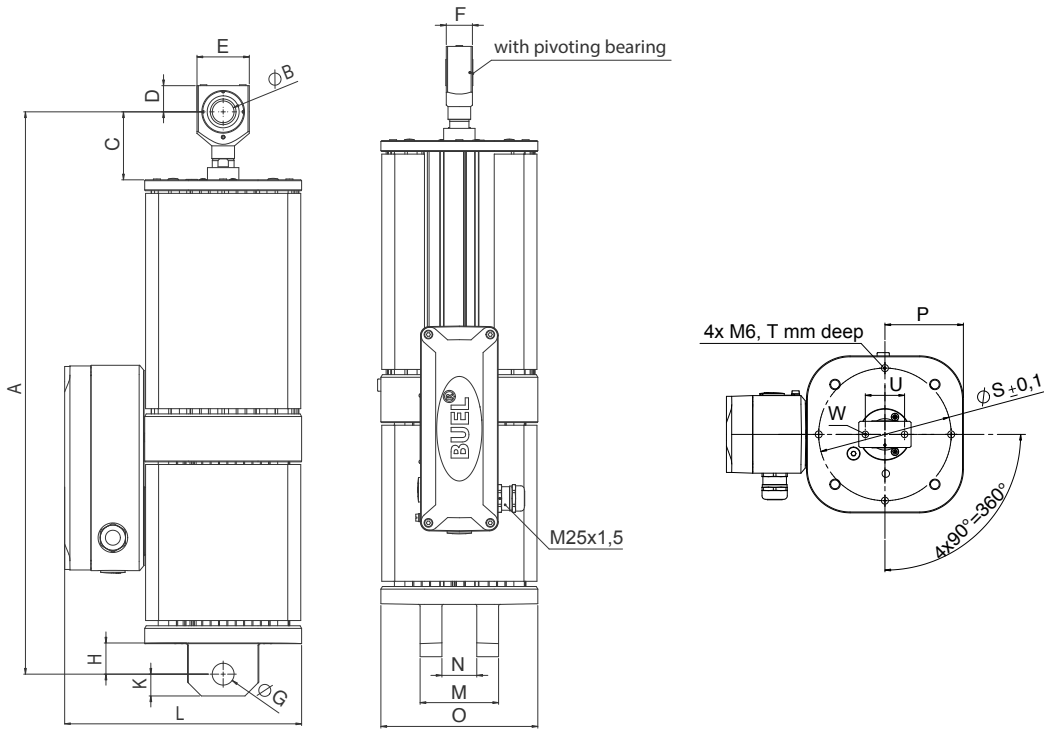


* option W at 400V, 50 Hz.



BL	F max. (N)	max. power (kW) *	max. current consumtion (A) *	operating mode S1 and S3 to (c/h)	weight with hydraulic medium (kg)
22-5**	400	0,15	0,4	1000	11
30-5**	450	0,16	0,4	1000	13
35-5	600	0,35	0,6	1000	16
50-6	900	0,45	0,7	1000	16
50-12	900	0,45	0,7	1000	16
80-6	2000	0,60	1,3	1000	21
80-12	2000	0,60	1,3	1000	21
125-6	2500	0,65	1,4	1000	24
125-12	2500	0,65	1,4	1000	24
200-6	3600	0,80	1,5	1000	24
200-12	3600	0,80	1,5	1000	24
300-6	5000	0,90	1,6	900	33
300-12	5000	0,90	1,6	900	33
400-8	5500	1,0	1,7	900	33
400-10	5500	1,0	1,7	900	33
440-8	6500	1,10	1,8	900	33
450-6	7000	1,20	2,0	900	33
450-8	7000	1,20	2,0	900	33
550-8	8000	1,25	2,1	900	33
600-8	8000	1,25	2,1	900	33

*At 400 V, 50 Hz. **At temperature -30°C to +50°C (lower, respectively higher temperatures are possible on request).



BL	F max.	A	B	C	D	E	F	G	H	K	L	M	N	O'	P	S	T	U	W
22-5	400 N	286	16	26	15	30	20	16	20	14	215	80	40	160	80	136	12	24	M4
30-5	450 N	370	16	34	15	30	20	16	18	16	215	80	40	160	80	136	12	24	M4
35-5	600 N	370	16	34	15	30	20	16	18	16	250	80	40	160	80	136	10	24	M4
50-6	900 N	435	20	94	25	50	25	20	23	22	250	120	60	160	80	136	12	35	M5
50-12	900 N	515	20	114	25	50	25	20	23	22	250	120	60	160	80	136	12	35	M5
80-6	2000 N	450	20	66	25	50	25	20	23	22	250	120	60	160	80	136	13	35	M5
80-12	2000 N	530	20	86	25	50	25	20	23	22	250	120	60	160	80	136	13	35	M5
125-6	2500 N	645	25	69	30	60	31	25	35	25	250	90	40	160	80	136	13	45	M5
125-12	2500 N	705	25	129	30	60	31	25	35	25	250	90	40	160	80	136	13	45	M5
200-6	3600 N	645	25	69	30	60	31	25	35	25	250	90	40	160	80	136	13	45	M5
200-12	3600 N	705	25	129	30	60	31	25	35	25	250	90	40	160	80	136	13	45	M5
300-6	5000 N	645	25	78	30	60	31	25	35	25	270	90	40	180	90	152	12,5	45	M5
300-12	5000 N	705	25	138	30	60	31	25	35	25	270	90	40	180	90	152	12,5	45	M5
400-8	5500 N	645	25	78	30	60	31	25	35	25	270	90	40	180	90	152	12,5	45	M5
400-10	5500 N	645	25	78	30	60	31	25	35	25	270	90	40	180	90	152	12,5	45	M5
440-8	6500 N	648	25	81	30	60	31	25	35	25	270	90	40	180	90	152	12,5	45	M5
450-6	7000 N	645	25	78	30	60	31	25	35	25	270	90	40	180	90	152	12,5	45	M5
450-8	7000 N	645	25	78	30	60	31	25	35	25	270	90	40	180	90	152	12,5	45	M5
550-8	8000 N	645	25	78	30	60	31	25	35	25	270	90	40	180	90	152	12,5	45	M5
600-8	8000 N	665	25	98	30	60	31	25	35	25	270	90	40	180	90	152	12,5	45	M5

*Data without pressure and temperature monitoring.

BL	BUEL® Thrusters Series
80 (Example)	Type/Size
6 (Example)	Stroke
A	Heater
B	Cover (protection against dust)
C	Increased corrosion protection
D	application in active brakes
EB	Proximity switch
G	Version with proportional valve, normally closed (SOS application)
H	Control board with SSR (solid state relais)
I	Protection class IP 67
M	Version with proportional valve, normally open, (controlled braking system BB900)
N	BOSS® anti snag system
P	Deviating mounting position
R	Reserve stroke indication
S	Lowering valve
T	Temperature monitoring
V	Control board with Triac
W	High temperature execution
X	Special external certificates like e.g. UL
Z	Two stage braking action
xxx V, yy Hz	Voltage, frequency



OPTION R (RESERVE STROKE INDICATOR BY LED)

Visual indication for „dropping below minimum permissible reserve stroke“, by two LED’s located on the terminal box. The option „reserve stroke indicator by LED“ makes it possible to monitor the lower threshold of the reserve stroke,

when the brake is set. When going below this threshold, the LED indicator changes from green light to red light. The LED’s are extremely bright. An indication even in direct sunlight is ensured (possible option for BL 125 and up).

CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2138962-0
Report Reference E492639-20170427
Date 9-Nov-2021

Issued to: DELLNER BUBENZER Germany GmbH
Friedrichshuttenstr 1 Kirchen-Wehbach
Germany 57548

This is to certify that representative samples of NMTR7 - Power Circuit and Motor-mounted Apparatus
Certified for Canada
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

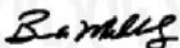
Standard(s) for Safety:

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



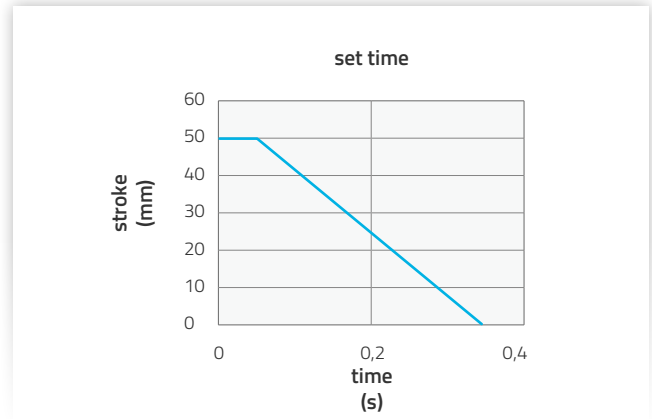
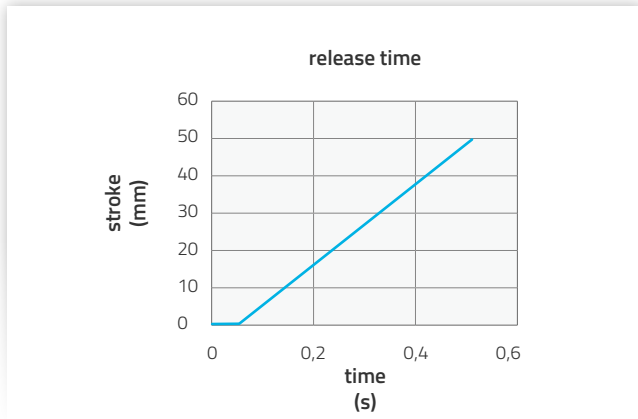
Bruce Mahrenholz, Director North American Certification Program

UL LLC

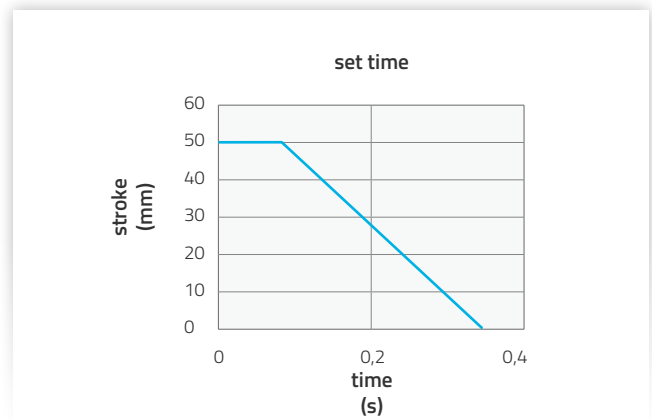
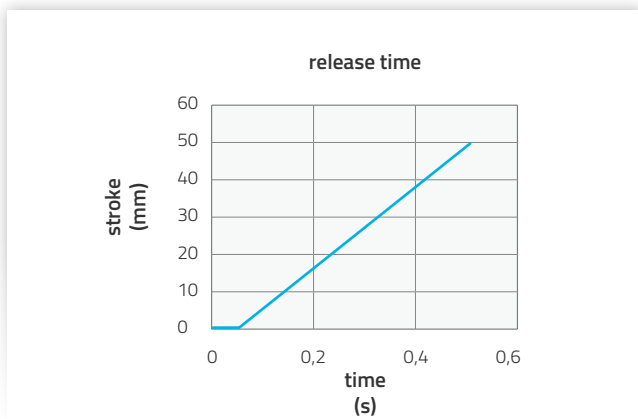
Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



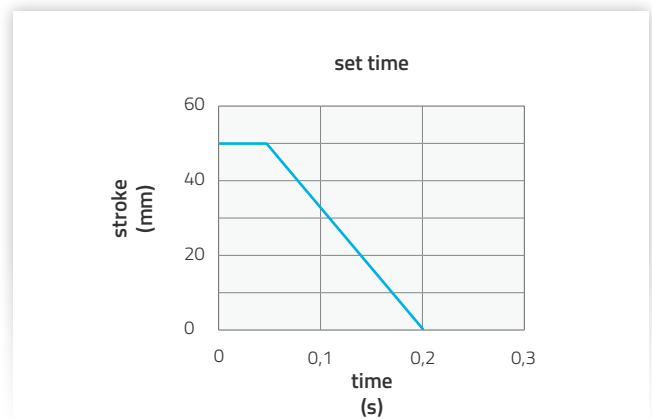
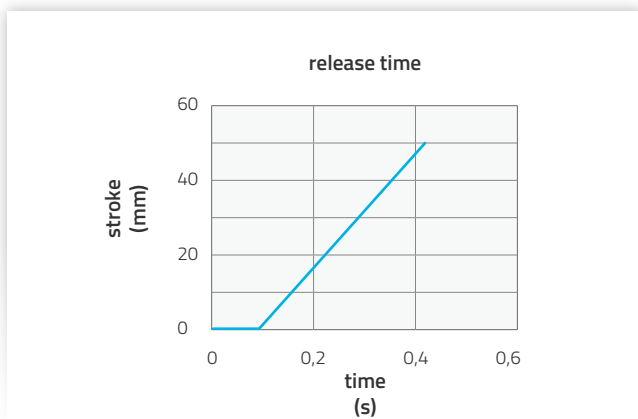
BL 22-5



BL 30-5

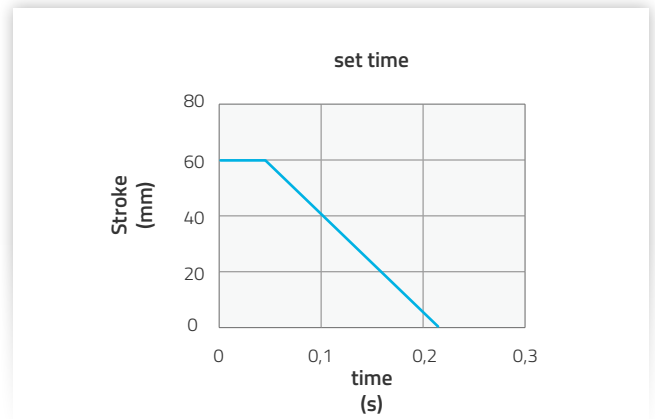
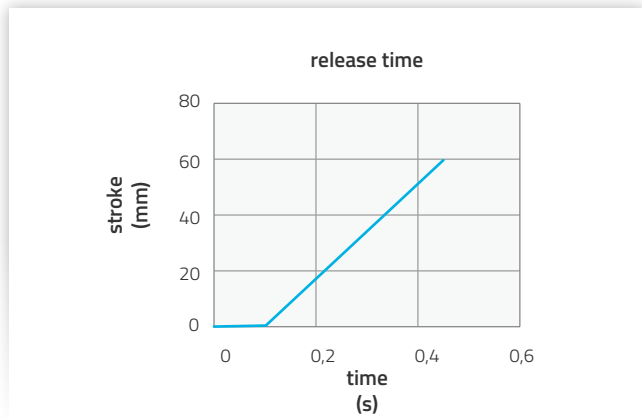


BL 35-5

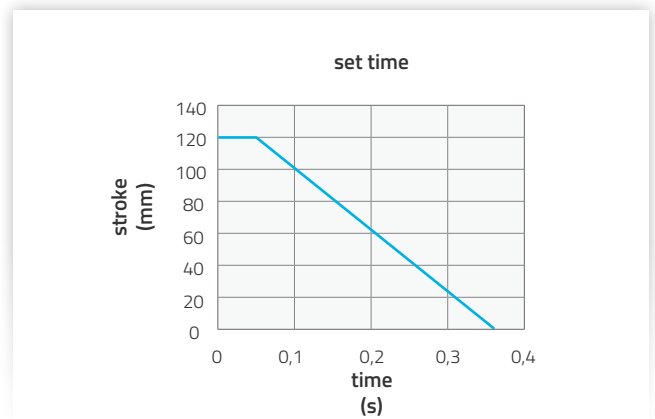
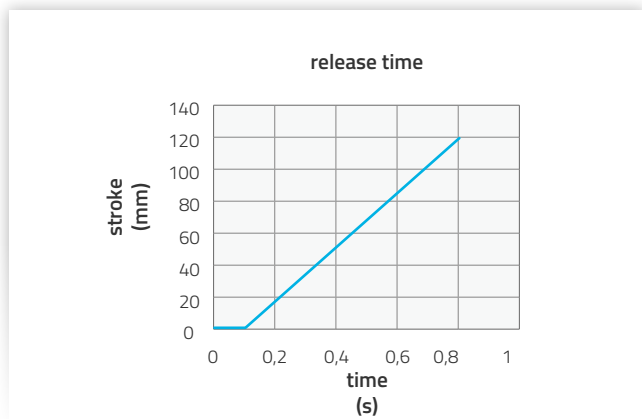


* Weight load (N) according to BUEL® type/ size according to DIN 15430 or based on DIN 15430 Example: BL 80-6 - weight load 800 N (= 80 kp).

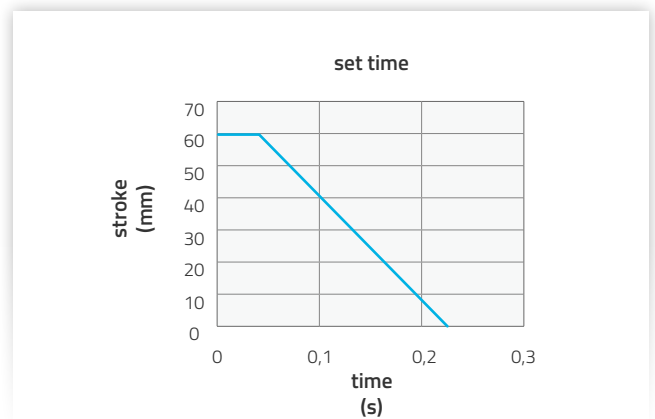
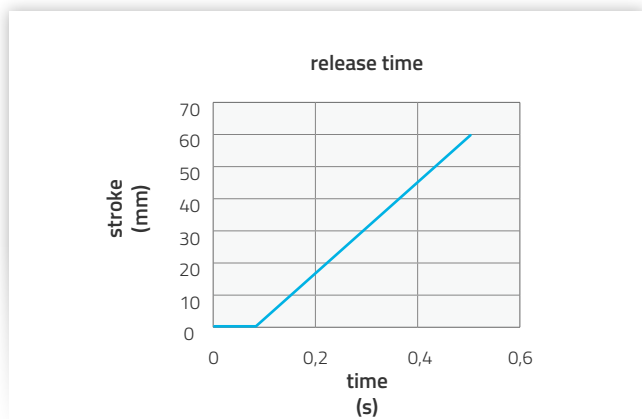
BL 50-6



BL 50-12

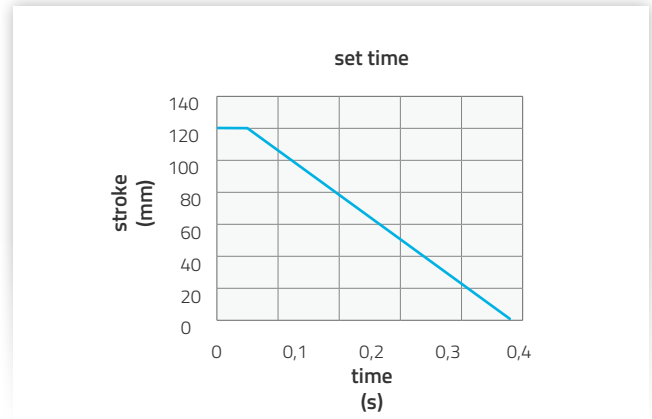
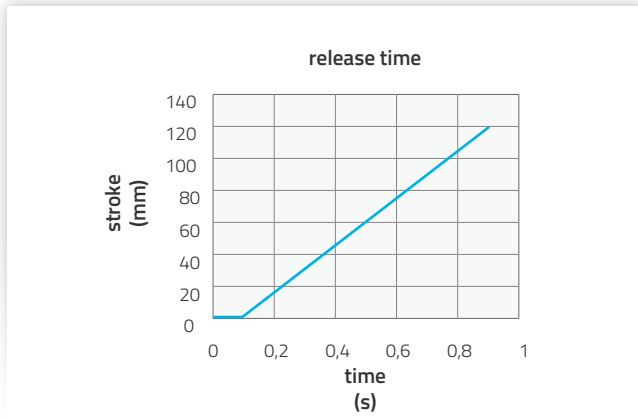


BL 80-6

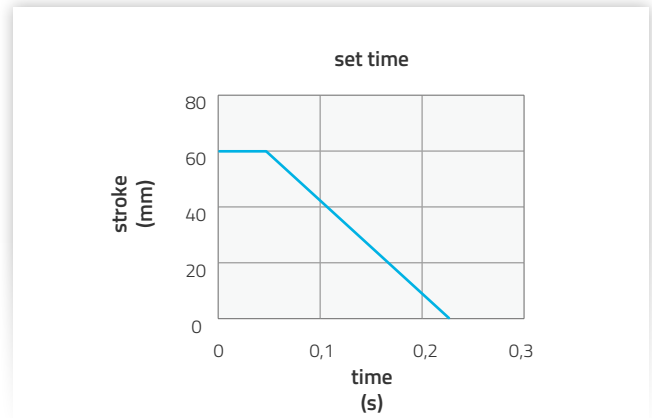
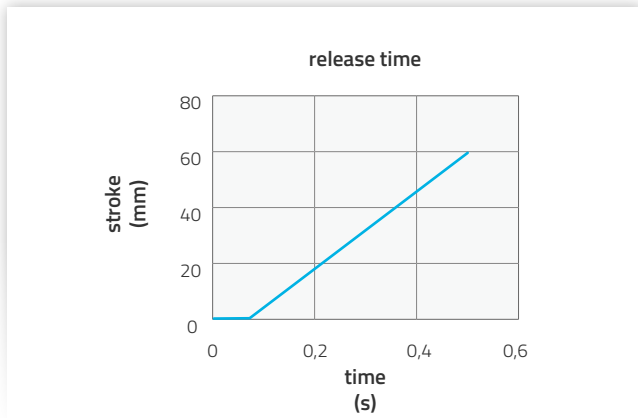


* Weight load (N) according to BUEL® type/ size according to DIN 15430 or based on DIN 15430 Example: BL 80-6 - weight load 800 N (= 80 kp).

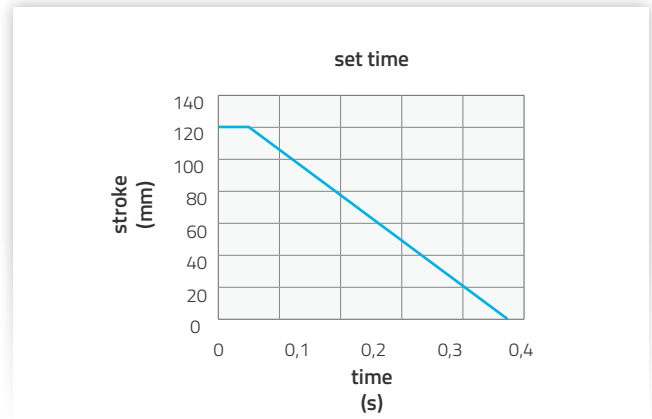
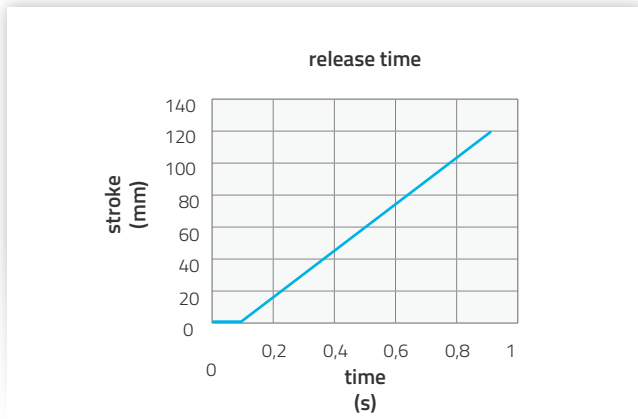
BL 80-12



BL 125-6

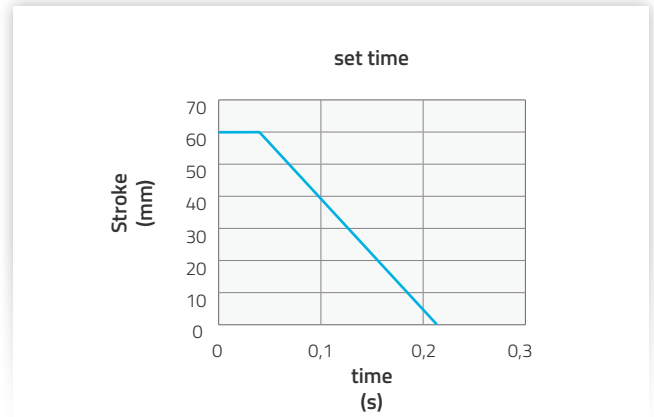
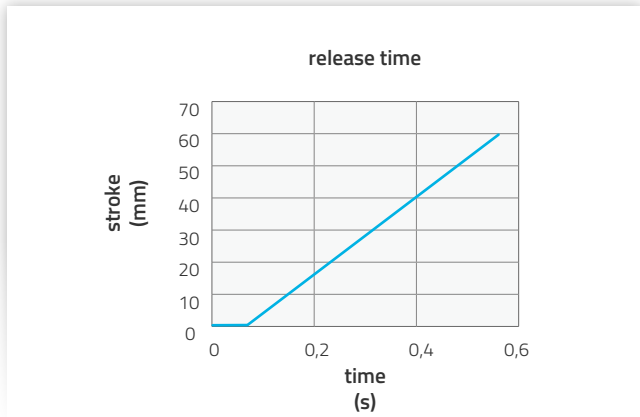


BL 125-12

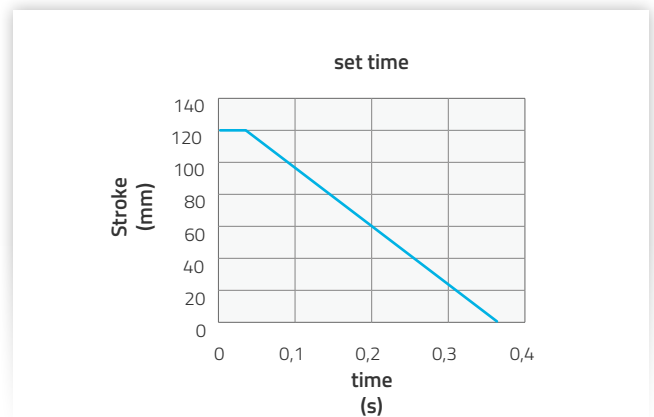
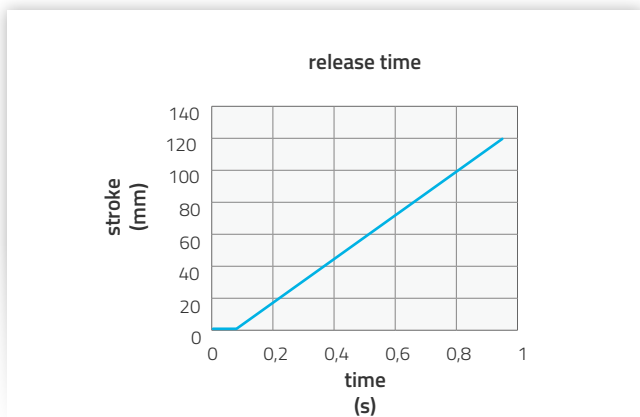


* Weight load (N) according to BUEL® type/ size according to DIN 15430 or based on DIN 15430 Example: BL 80-6 - weight load 800 N (= 80 kp).

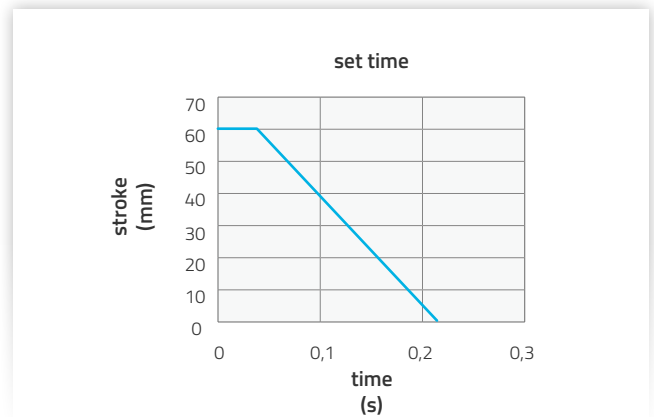
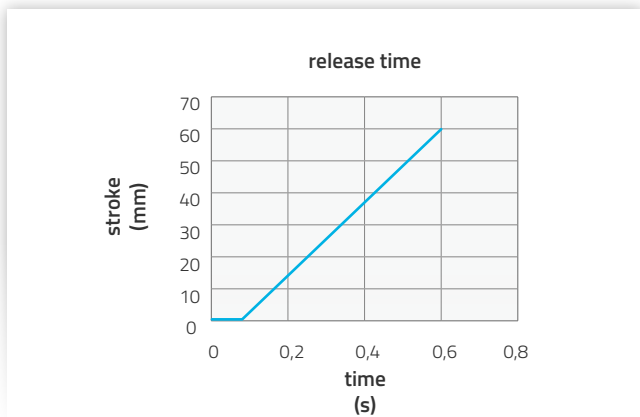
BL 200-6



BL 200-12

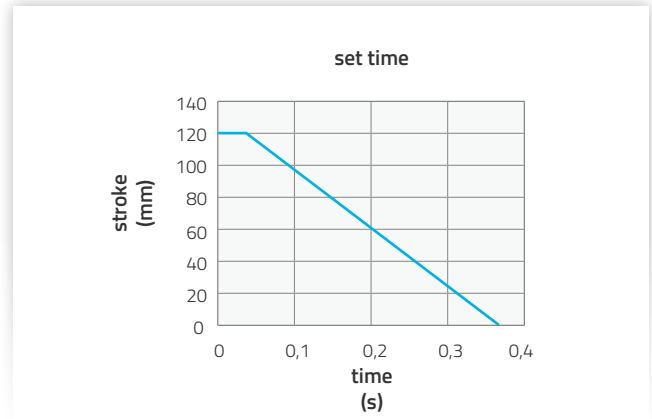
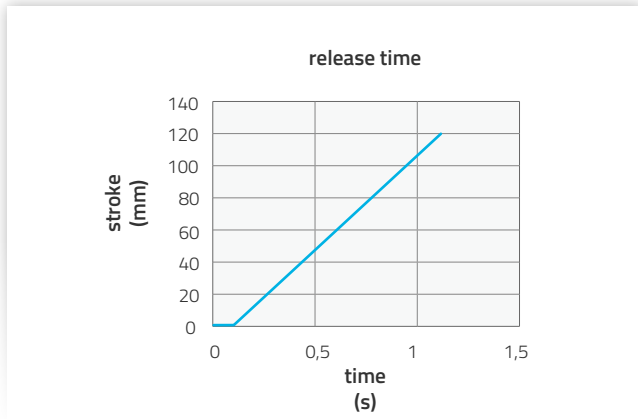


BL 300-6

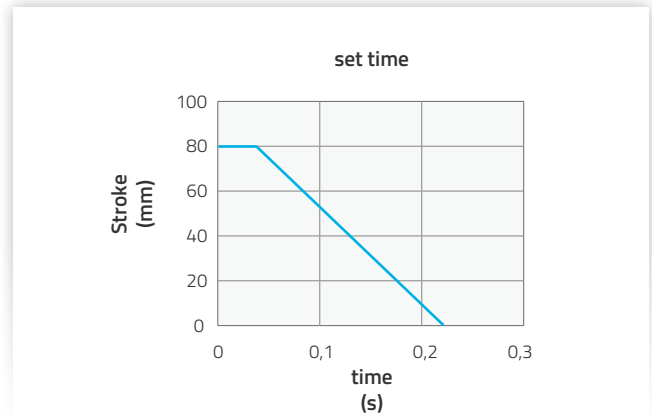
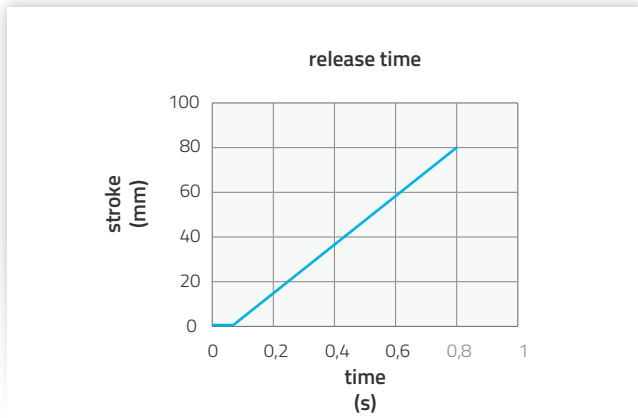


* Weight load (N) according to BUEL® type/ size according to DIN 15430 or based on DIN 15430 Example: BL 80-6 - weight load 800 N (= 80 kp).

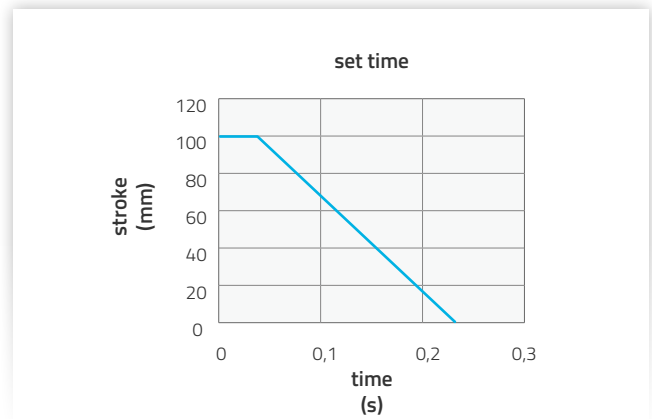
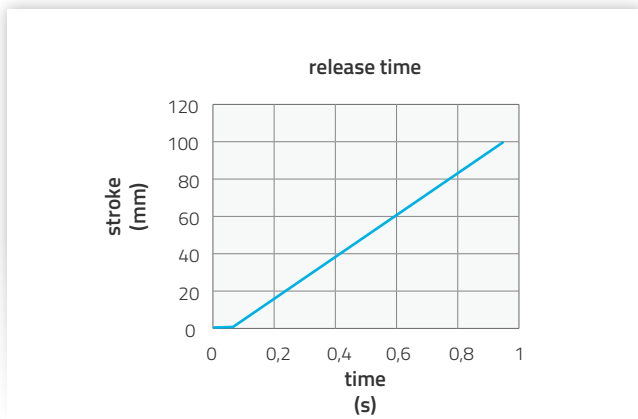
BL 300-12



BL 400-8

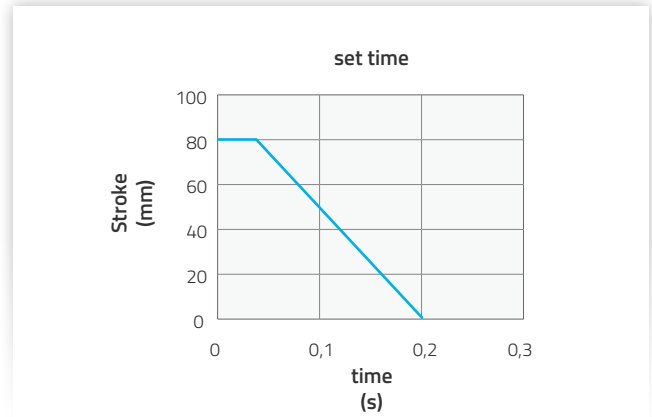
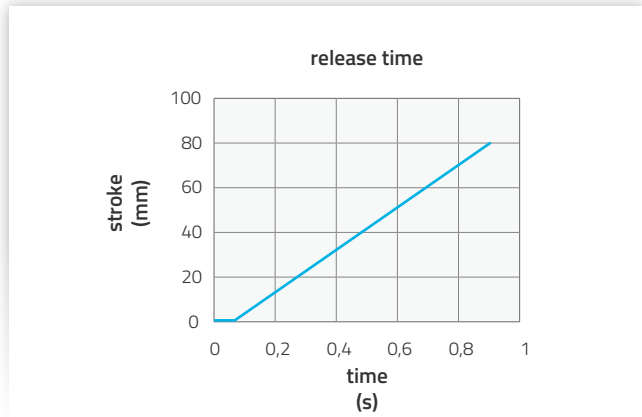


BL 400-10

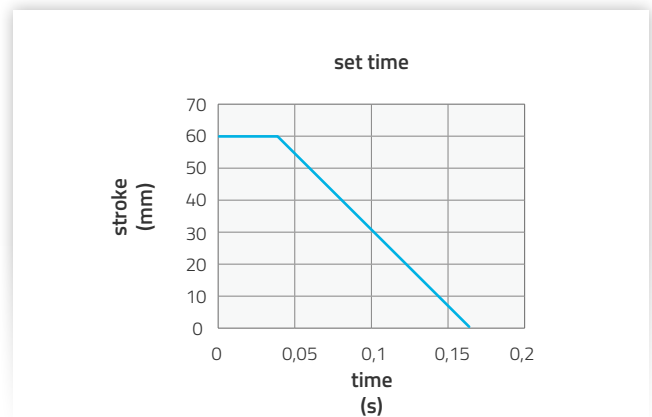
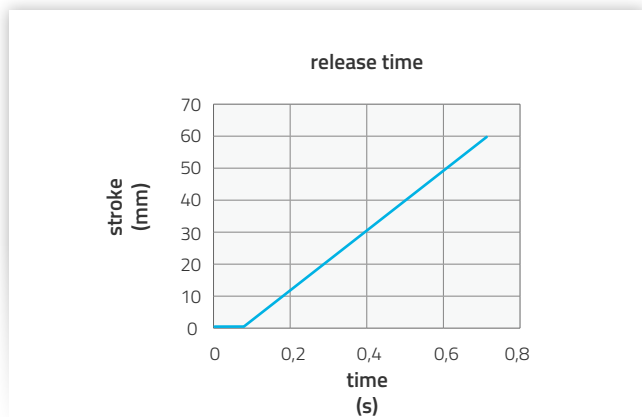


* Weight load (N) according to BUEL® type/ size according to DIN 15430 or based on DIN 15430 Example: BL 80-6 - weight load 800 N (= 80 kp).

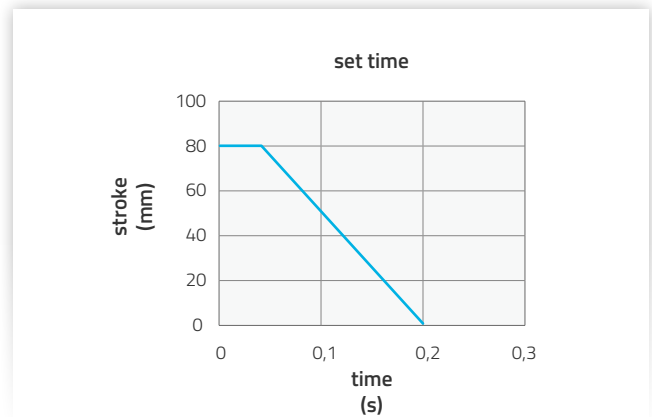
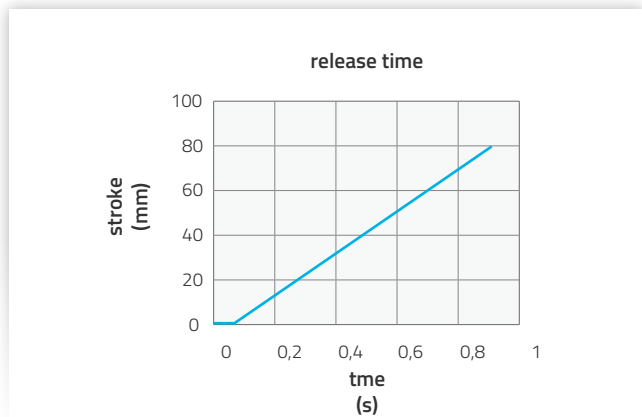
BL 440-8



BL 450-6

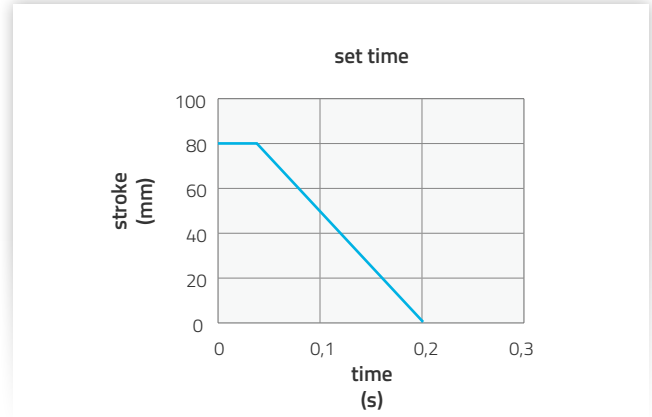
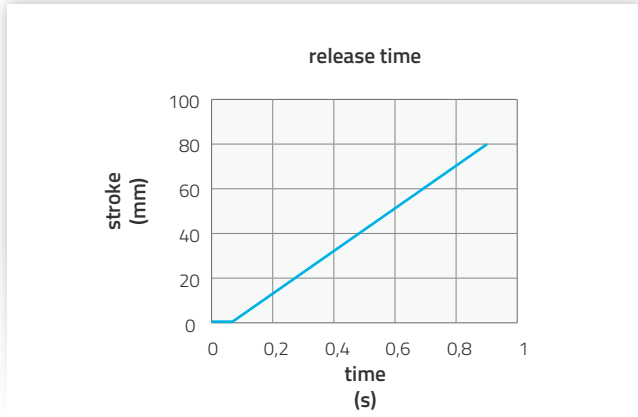


BL 450-8

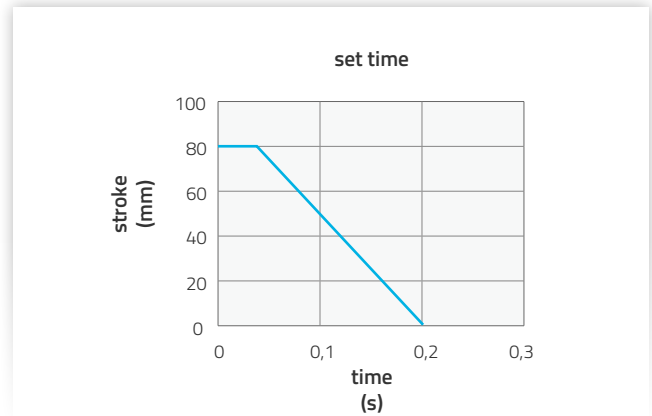
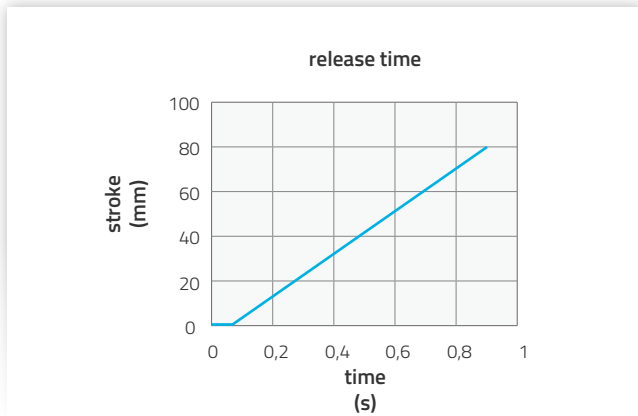


* Weight load (N) according to BUEL® type/ size according to DIN 15430 or based on DIN 15430 Example: BL 80-6 - weight load 800 N (= 80 kp).

BL 550-8



BL 600-8



* Weight load (N) according to BUEL® type/ size according to DIN 15430 or based on DIN 15430 Example: BL 80-6 - weight load 800 N (= 80 kp).

DELLNER BUBENZER

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