

more information: [www.buel-bubbenzer.com](http://www.buel-bubbenzer.com)



**BUHEL<sup>®</sup>**  
**G**  
GREEN

The BUHEL<sup>®</sup> Model G is a new family member of the PINTSCH BUBENZER brand BUHEL<sup>®</sup>. It is a compact thruster to feed active or passive hydraulic brakes and emergency brakes. It is also suitable for small capacity hydraulic cylinders. Operational pressure can be up to 250 bar. Our experts will assist you to find your best solution with BUHEL<sup>®</sup>.

**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. Protection class IP 67 is possible as an option.

**Operating modes**

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 +60°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 media**

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

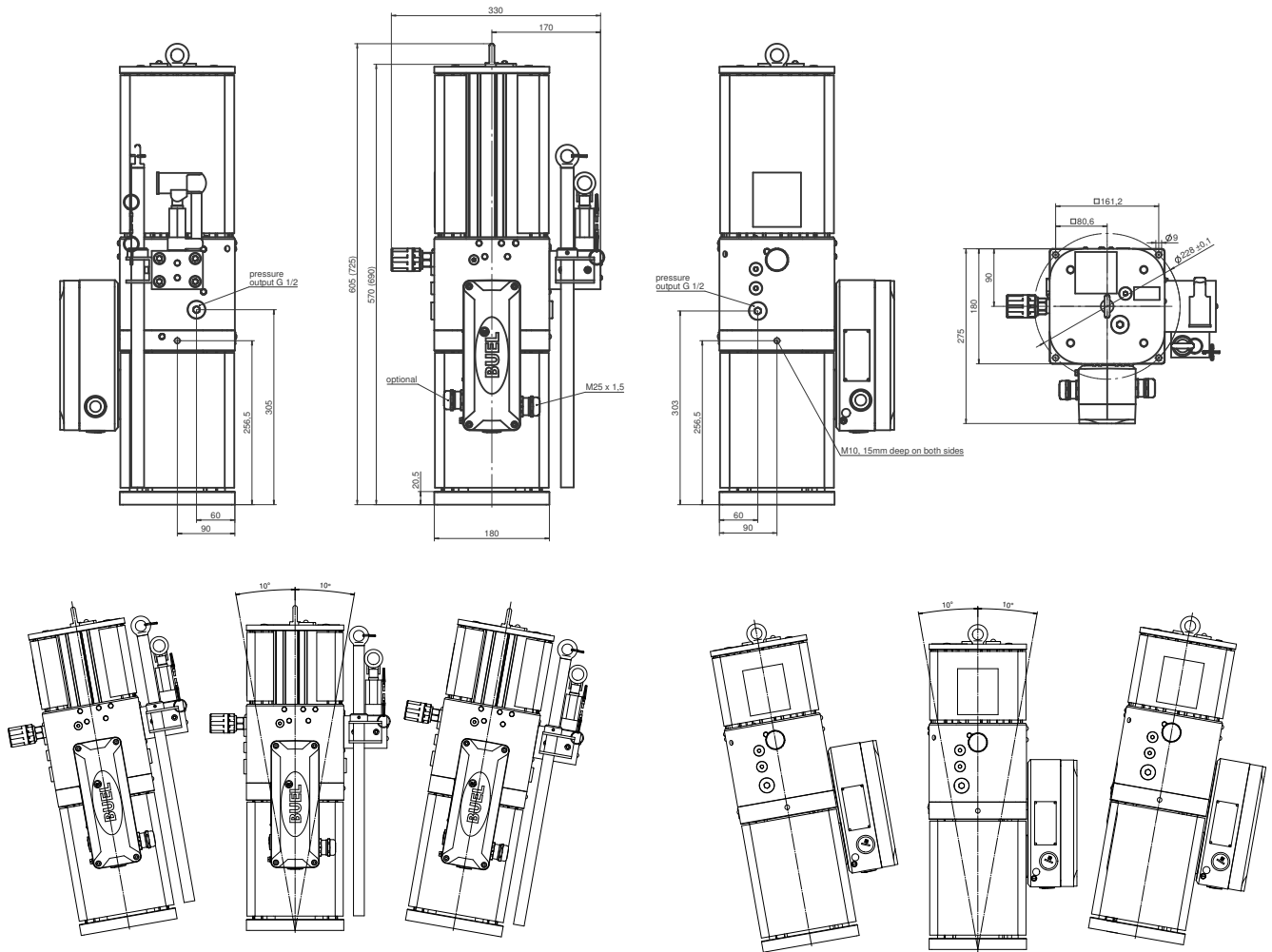
Biodegradable oils can be used as an option.

**Properties**

- > Compact design
- > Fail safe principle
- > Variable tank capacity, small filling quantity
- > Use of bio-degradable oils possible
- > Redundant valve system
- > Energy saving by limited duty cycle
- > Automatic compensation of pressure losses, by short time actuation
- > Hydraulic parts protected inside the housing
- > 2 pressure outlets
- > Internal generation of the control voltage for valves and sensors
- > Overload protection by monitoring of the working pressure
- > External manual release incl. "dead-man-handle"
- > Integrated bursting pressure protection
- > Options for additional functions and monitoring

BUEL® G	Max. pressure (bar)	Max. power (kW)	Max. current consumption (A)	Max. flow rate (l/min.)	Weight with oil (kg)	Mode of operation (c/h)
100	100	1,7	4,4	6	39	180
210	210	3,2	6,0	6	39	180
240	240	3,8	6,5	6	39	180
100L	100	1,7	4,4	6	42	180
210L	210	3,2	6,0	6	42	180
240L	240	3,8	6,5	6	42	180

\* Technical data relates to 3 phase 400 V, 50 Hz.



### Installation positions

BUEL® Model G thrusters have to be operated in vertical position (tank on top). A deviation of +/- 10° from the vertical axis is permitted.

Brake type	Model G size	No. of calipers	Body size
SF 10	210	2	Standard
SF 10		4	Standard
SF 15	210	2	Standard
SF 15		4	Standard
SF 24	210	2	Standard
SF 24		4	„L” Version
SF 30	240	2	„L” Version
SF 30		4	„L” Version
SF 40	240	2	„L” Version
SF 40		4	„L” Version
SF 50	240	4	„L” Version



<b>G</b>	Type
<b>210</b>	Max. working pressure (bar)
<b>A</b>	Heater
<b>C</b>	Increased corrosion protection
<b>D</b>	Pressure monitoring
<b>I</b>	Protection class IP67
<b>L</b>	Big tank housing
<b>M</b>	Shut-off valve latching, non-latching
<b>N</b>	Level monitoring
<b>O</b>	Optical status control
<b>R</b>	Reserve stroke indication
<b>T</b>	Temperature monitoring
<b>V</b>	SOS/BOSS® application
<b>W</b>	High temperature execution
<b>X</b>	Special external certificates
<b>xxx V, yy Hz</b>	Voltage, frequency



## OPTION O (VISUAL CONDITION MONITORING)

Visual indication for „operating pressure reached“.  
All BUEL® Model G can be equipped with a visual condition monitoring, which makes it possible to monitor the operating pressure.

> red: Operating pressure not reached  
> green: Operating pressure reached  
The LED's are extremely bright.  
An indication even in direct sunlight is ensured.

## CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190228- E492639  
**Report Reference** E492639- 20181005  
**Issue Date** 2019-FEBRUARY-28

**Issued to:** PINTSCH BUBENZER GMBH  
Friedrichshuttenstr 1  
57548 Kirchen-Wehbach GERMANY

**This certificate confirms that  
representative samples of**

POWER CIRCUIT AND MOTOR-MOUNTED APPARATUS  
USL, CNL – Enclosed Type electrical Brake thruster Series  
BUEL G, models Buel G 100 Buel G 210 and Buel G 240  
may be followed by A, C, D, K, M, N, R, T, V or X or in any  
of these combination.

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

**Standard(s) for Safety:** UL 508 and CSA 22.2 No. 14-13 Industrial Control  
Equipment

**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

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