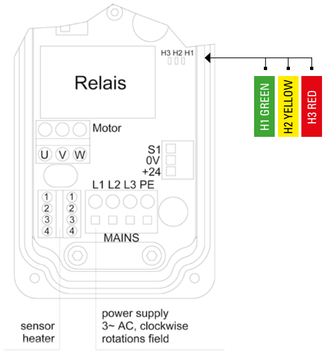
BUEL® ELECTROHYDRAULIC THRUSTER EQUIPMENT

A NEW BRAND OF PINTSCH BUBENZER

BUEL® founded on decades of experience in the field of drive engineering and related components. High quality standards in all the divisions of PINTSCH BUBENZER GmbH are the basis for the functional reliability of BUEL® equipment. There are practically no limits to the applications and operational capabilities of BUEL® electrohydraulic thruster. The principal application is a brake release device in industrial disc and drum brakes. The principal application areas are the following:

- crane und transshipment equipment in sea and inland ports
- steelworks with ladle, charging and process cranes
- mining, on excavators and spreaders and in conveyor belt stations und in many other areas...

BUEL® equipment can be operated in all the climatic zones of the world.



LED STATUS INDICATION

LED red, yellow, green OFF	equipment OFF
LED yellow ON	motor relay ON
LED yellow OFF	motor relay OFF
LED green FLASHES	normal operation
LED red FLASHES	motor switched off by time function

Important operating modes of the BUEL® thrusters are indicated by LED

Protection Class
All electrical components of BUEL® equipment are located inside and protected from environmental influences:

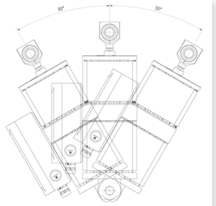
- BUEL® equipment comply with Protection Class IP 65
- Protection Class IP 67 is available as an option

Operating modes / Duty cycles
BUEL® equipment can be run in S1 continuous-operation and S3 switching operation.

No restrictions of the duty cycle are necessary

The motor is switched off when the endposition is reached (brake open).

Electrical version
BUEL® equipment is operated at 3-phase voltages from 220 V to 690 V at 50 Hz or 60 Hz.



Heating
For applications in maritime areas, heating of the motor winding as dewfall protection is available as an option. The following heating voltages can be provided:

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

Service temperature range

- BUEL® equipment can be used at ambient temperatures from -30°C to +60°C
- For temperatures below -30°C, a special oil for low temperature applications is recommended
- For ambient temperatures above +60°C, the precise application is to be agreed with the manufacturer

Installation positions
BUEL® equipment is preferably operated in a vertical position (piston rod at top). A difference of +/- 20° from the perpendicular position is permissible. A horizontal installation position is possible as an option (please indicate with the order).

2nd edition

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BUEL® ELECTROHYDRAULIC THRUSTER EQUIPMENT

BRAKING UNLIMITED

Made in Germany

BUEL® ELECTROHYDRAULIC THRUSTER EQUIPMENT

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PINTSCH BUBENZER

TECHNICAL DATA

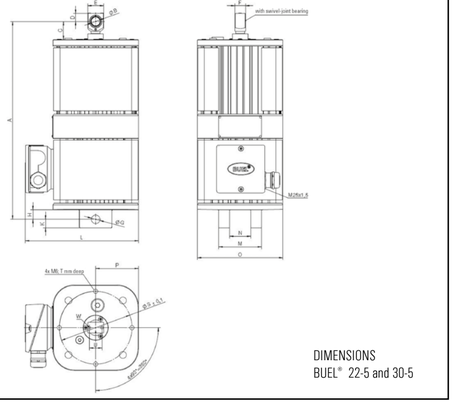
BL	F max.	max. power [kW] *	max. current consumption [A] *	operating mode S1 and S3 to	weight with hydraulic medium
22-5**	400 N	0,15	0,4	1000 c/h	11 kg
30-5**	450 N	0,16	0,4	1000 c/h	13 kg
35-5	600 N	0,35	0,6	1000 c/h	16 kg
50-6	900 N	0,45	0,7	1000 c/h	16 kg
50-12	900 N	0,45	0,7	1000 c/h	16 kg
80-6	2000 N	0,6	1,3	1000 c/h	21 kg
80-12	2000 N	0,6	1,3	1000 c/h	21 kg
125-6	2500 N	0,65	1,4	1000 c/h	24 kg
125-12	2500 N	0,65	1,4	1000 c/h	24 kg
200-6	3600 N	0,8	1,5	1000 c/h	24 kg
200-12	3600 N	0,8	1,5	1000 c/h	24 kg
300-6	5000 N	0,9	1,6	900 c/h	33 kg
300-12	5000 N	0,9	1,6	900 c/h	33 kg
400-8	5500 N	1,0	1,7	900 c/h	33 kg
400-10	5500 N	1,0	1,7	900 c/h	33 kg
440-8	6500 N	1,1	1,8	900 c/h	33 kg
450-8	7000 N	1,2	2,0	900 c/h	33 kg
550-8	8000 N	1,25	2,1	900 c/h	33 kg
600-8	8000 N	1,25	2,1	900 c/h	33 kg

* at 400 V, 50 Hz ** operating temperature range -30°C up to +50°C

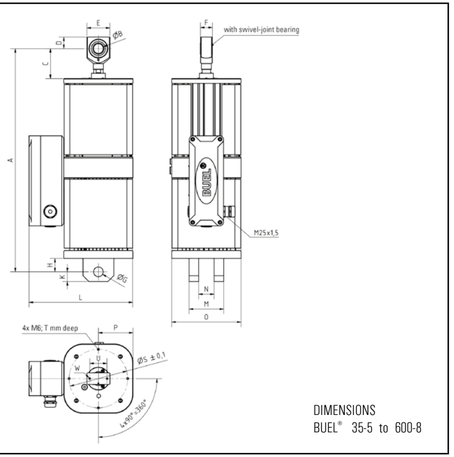
CONNECTION DIMENSIONS AS PER DIN 15430

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	206	80	40	160	80	136	12	24	M4
30-5	450 N	370	16	34	15	30	20	16	18	16	210	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	12	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
450-8	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



DIMENSIONS
BUEL® 22-5 and 30-5



DIMENSIONS
BUEL® 35-5 to 600-8

SPECIFIC FEATURES AND ADVANTAGES

- pressure built-up with high hydraulic-mechanical efficiency
- fail-safe principle
- automatic compensation of pressure losses
- wide service temperature range in the standard version
- compact dimensions
- extreme fast set times
- high actuating forces
- energy savings by intermittent operation
- compensation of shear forces and alignment errors by use of swivel head
- low internal heat build-up
- reduced filling volume
- low weight
- good weight / performance ratio
- various mounting dimensions
- multiple options for increased functionality and monitoring