GALVI CALIPERS *SLDU-030*

HYDRAULICALLY OPERATED EMERGENCY CALIPERS

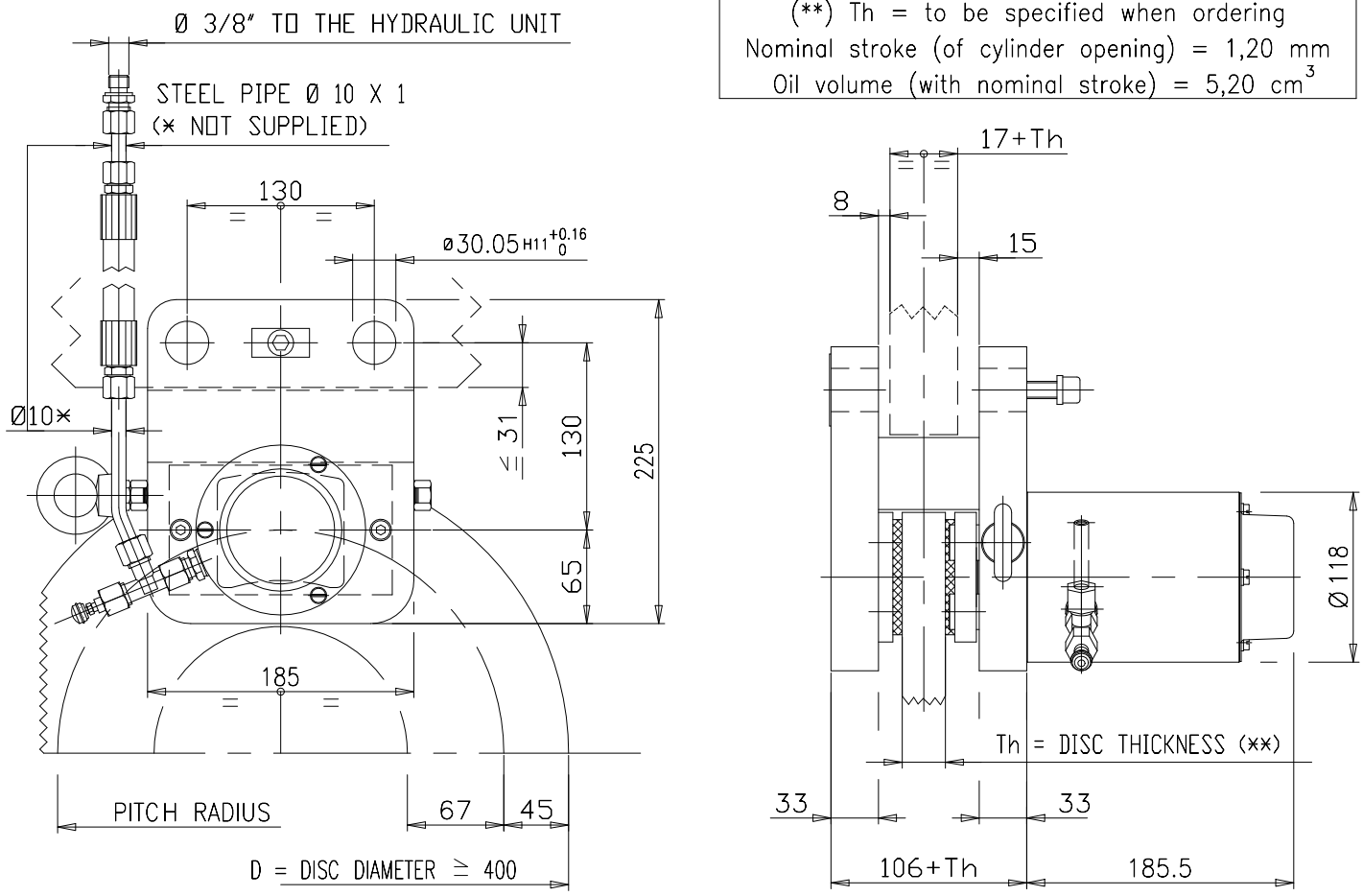
SLDU-030 - TECHNICAL DATA SHEET

SLDU-01

The GALVI *SLDU* Calipers have been specially designed for static applications or for a limited emergency dynamic use on discs with max peripheral speed of 7 m/s. Closing is actuated by a set of disc springs while opening is performed at a hydraulic pressure of 110 bar. Thanks to their special features these Calipers can be adapted to any disc thickness, moreover they also allow small axial displacement of the disc, thus also ensuring perfect balance of the forces exerted on the brake pads. These Calipers can be operated by the GALVI *EMEHYD®* hydraulic units equipped with accumulator.

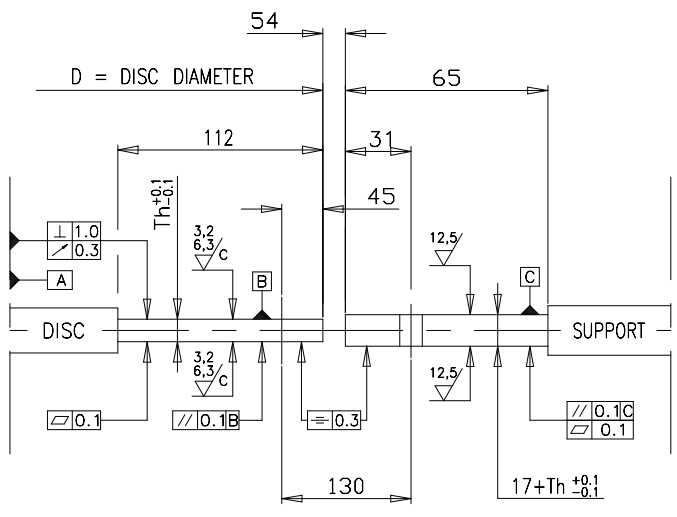
BRAKING FORCE = 3000 daN

WORKING PRESSURE 110 ÷ 130 bar
MASS = 41 kg – (with standard "Th"= 30 mm)
(**) Th = to be specified when ordering
Nominal stroke (of cylinder opening) = 1,20 mm
Oil volume (with nominal stroke) = 5,20 cm^3

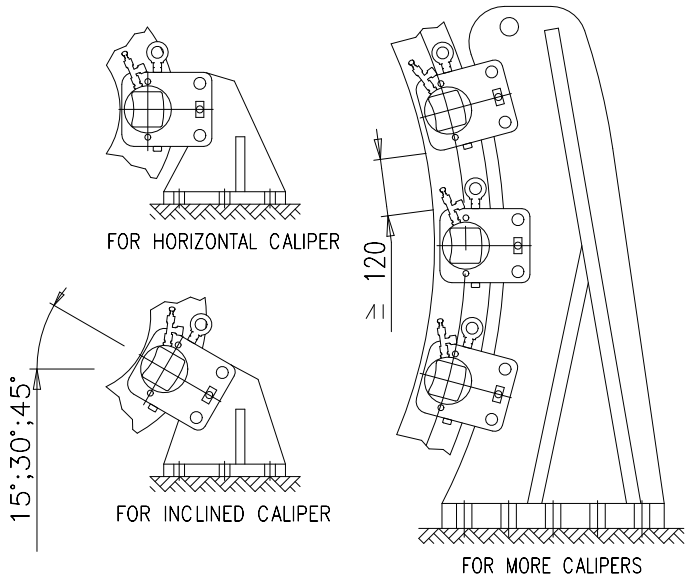


BRAKING TORQUE = BRAKING FORCE • PITCH RADIUS /1000 [daN•m]

CHARACTERISTICS OF DISC AND SUPPORT



EXAMPLE OF SUPPORTS SUPPLIED UPON REQUEST



GALVI CALIPERS *SLDU-060*

HYDRAULICALLY OPERATED EMERGENCY CALIPERS

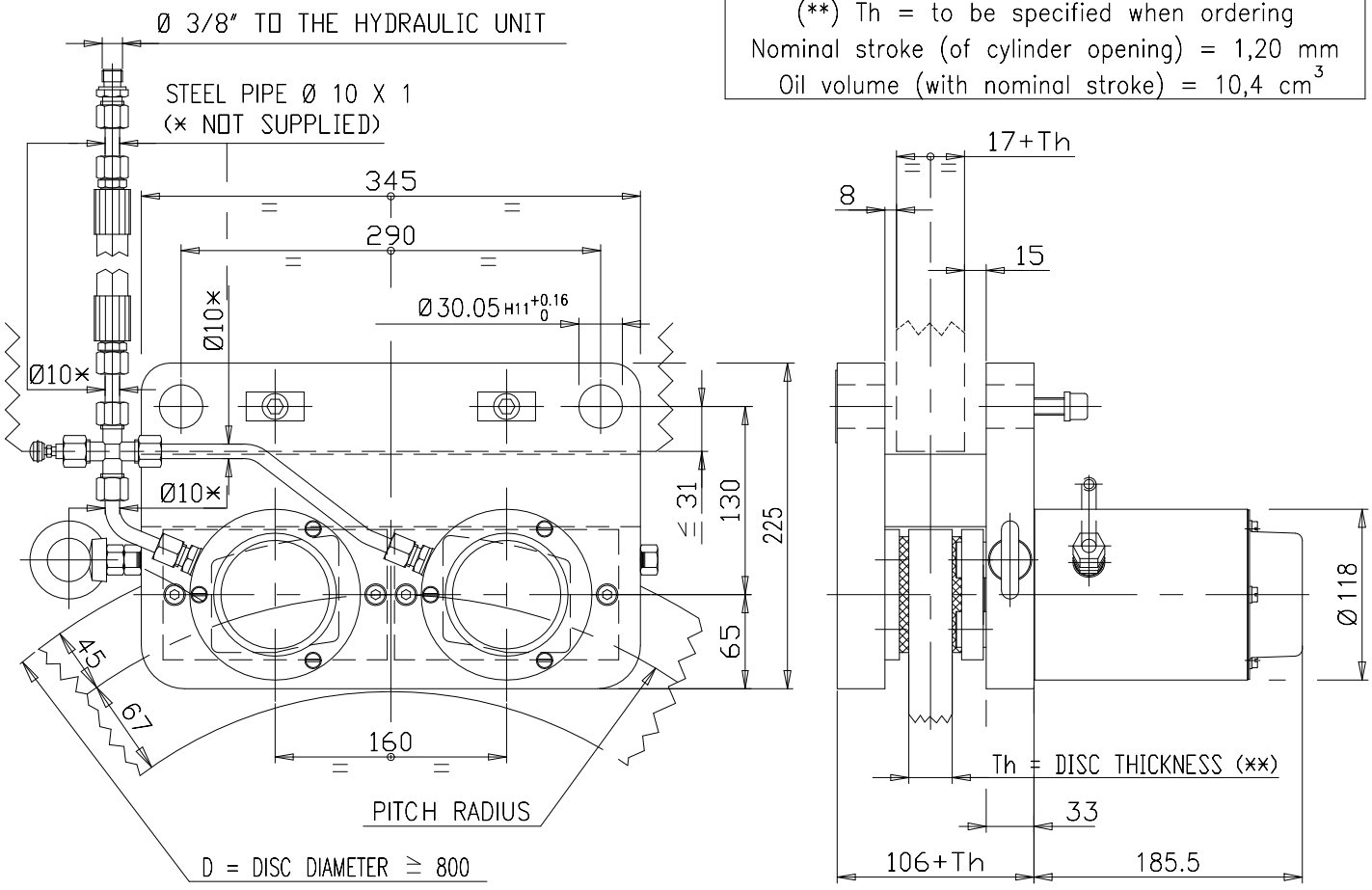
SLDU-060 - TECHNICAL DATA SHEET

SLDU-02

The GALVI *SLDU* Calipers have been specially designed for static applications or for a limited emergency dynamic use on discs with max peripheral speed of 7 m/s. Closing is actuated by a set of disc springs while opening is performed at a hydraulic pressure of 110 bar. Thanks to their special features these Calipers can be adapted to any disc thickness, moreover they also allow small axial displacement of the disc, thus also ensuring perfect balance of the forces exerted on the brake pads. These Calipers can be operated by the GALVI *EMEHYD®* hydraulic units equipped with accumulator.

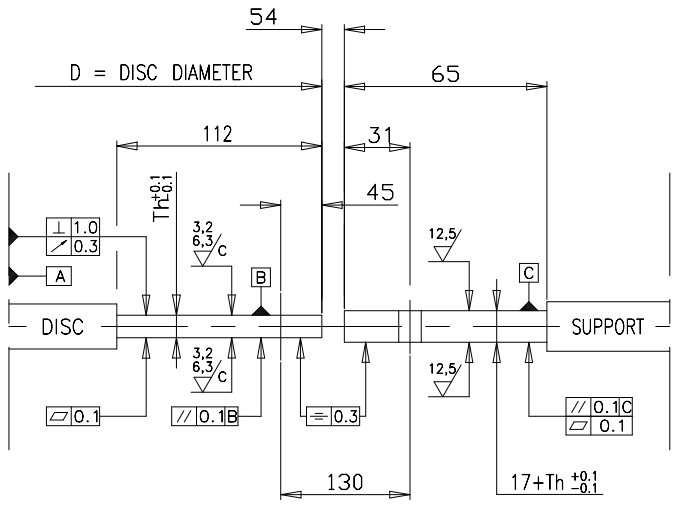
BRAKING FORCE = 6000 daN

WORKING PRESSURE 110 ÷ 130 bar
MASS = 79 kg – (with standard "Th"= 30 mm)
(**) Th = to be specified when ordering
Nominal stroke (of cylinder opening) = 1,20 mm
Oil volume (with nominal stroke) = 10,4 cm^3

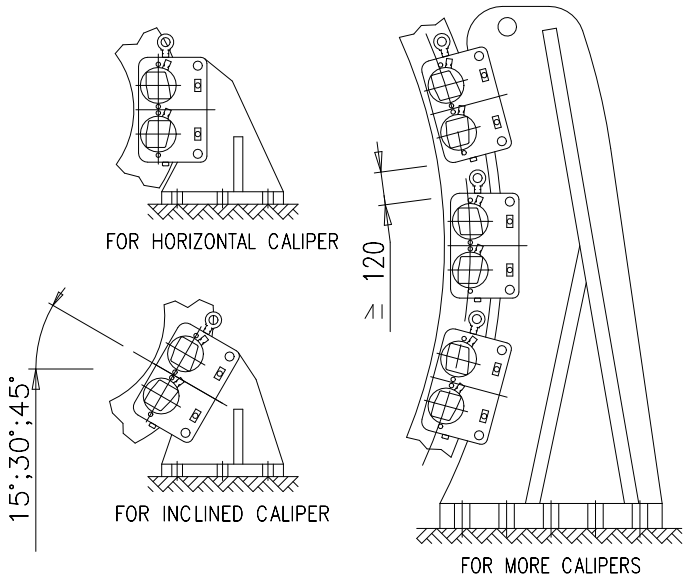


BRAKING TORQUE = BRAKING FORCE • PITCH RADIUS /1000 [daN•m]

CHARACTERISTICS OF DISC AND SUPPORT



EXAMPLE OF SUPPORTS SUPPLIED UPON REQUEST

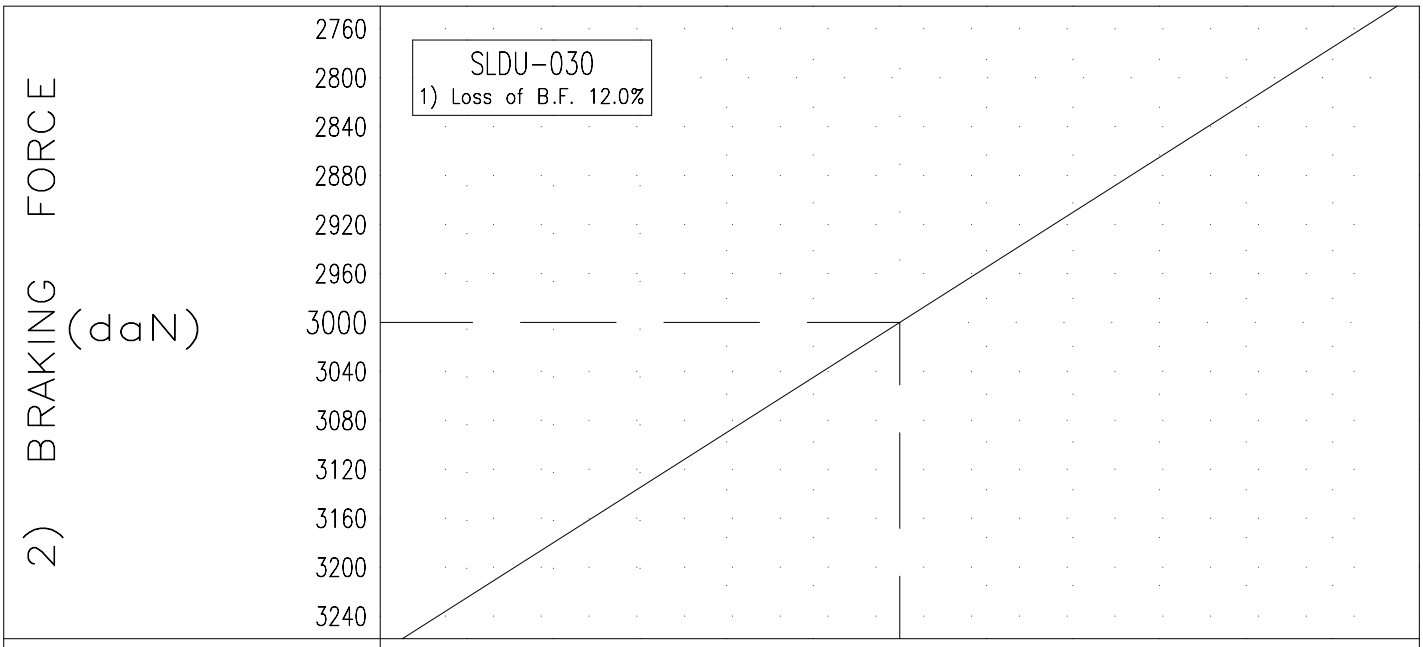


GALVI CALIPERS *SLDU*®

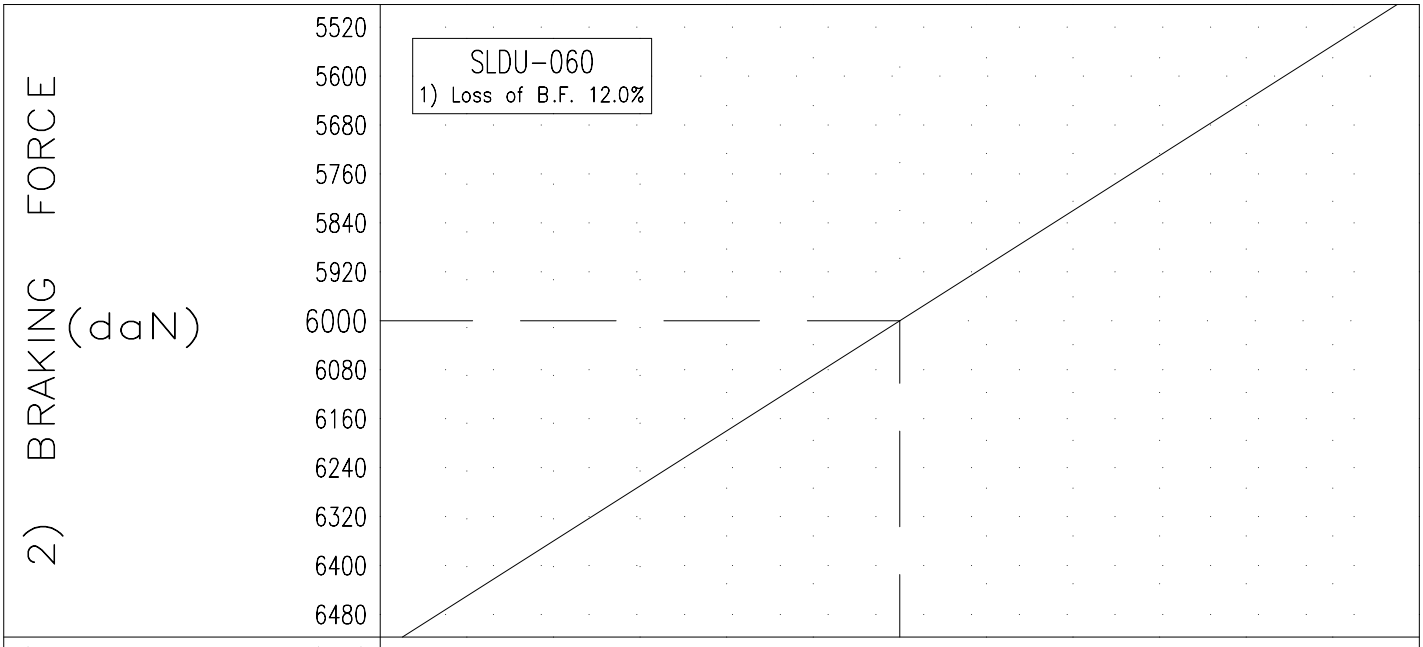
HYDRAULICALLY OPERATED EMERGENCY CALIPERS

SLDU® - CHARTS AND CHARACTERISTIC OPERATING DATA

SLDU-03



3) Opening stroke	(mm)	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7
4) Oil Volume	(cm^3)	3.0	3.5	3.9	4.4	4.8	5.2	5.7	6.1	6.5	7.0	7.4
5) Closing time	(ms)	15	18	20	22	24	26	28	30	32	35	37
6) Equilibrium pressure	(bar)	99	98	96	95	93	92	91	89	88	86	85
7) Number of cycles		$2 \cdot 10^6$						$5 \cdot 10^5$				



3) Opening stroke	(mm)	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7
4) Oil Volume	(cm^3)	6.1	7.0	7.8	8.7	9.6	10.4	11.3	12.2	13.1	13.9	14.8
5) Closing time	(ms)	31	35	39	44	48	52	57	61	66	70	74
6) Equilibrium pressure	(bar)	99	98	96	95	93	92	91	89	88	86	85
7) Number of cycles		$2 \cdot 10^6$						$5 \cdot 10^5$				

1) The loss of Braking Force is referred to the cylinder stroke (%/mm)
2) The Braking Forces can have a tolerance of ± 5%
3) The opening strokes are referred to the cylinder
4) The oil volume represents the quantity necessary to open the cylinder of the caliper with the preset strokes
5) The closing time is referred to just the caliper; hence it should be increased in accordance with the hydraulic lines and control equipment
6) The equilibrium pressure (±3%) cancels the thrust of the brake pads on the disc without, however, opening them
7) Represents the minimum guaranteed number of brake pad opening and closing manoeuvres

Edition March 2014