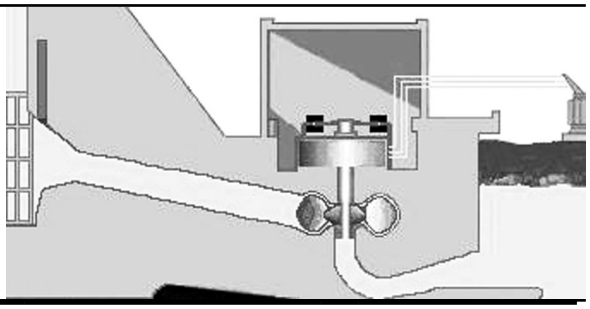
Disc brakes — Questionnaire

Hydraulic turbine



Builder : _____

User : _____

Project : _____

GENERAL CHARACTERISTICS	VALUES
Diameter of the disc	_____ m
Max. allowed thickness of the disc	_____ mm
Axis of rotation	_____
Nominal speed of rotation	_____ rpm
Power	_____ kw
Total Inertia	_____ kg/m²
Ambient temperature	_____ °C

BRAKING WITH WATER GATE(S) CLOSED (without leakage)

Normal torque of the turbine according to the speed

$$C = - "A" \omega^2 - "B" \omega - "C" \omega^{0,5}$$

A =	B =	C =

If there is an electric braking based on the speed : **Ce =** _____ *(formula with ω or in N.m)*

and from which speed it is applied : _____ rpm

Braking application at : Requested braking time

1°) % of the Nominal Speed _____ s

2°) % of the Nominal Speed _____ s

3°) % of the Nominal Speed _____ s

Requested number of brake applications for °) _____

BRAKING WITH WATER GATE(S) OPEN (with leakage)

Exceptional torque of the turbine according to the speed

$$C = - "A" \omega^2 - "B" \omega - "C" \omega^{0,5} + D$$

A =	B =	C =	D =

If there is an electric braking based on the speed : **Ce =** _____ *(formula with ω or in N.m)*

and from which speed it is applied : _____ rpm

Braking application at : Requested braking time

1°) % of the Nominal Speed _____ s

2°) % of the Nominal Speed _____ s

3°) % of the Nominal Speed _____ s

Requested number of brake applications for °) _____

Due to continuous development and improvement, all dimensions and characteristics are subject to change without notice.

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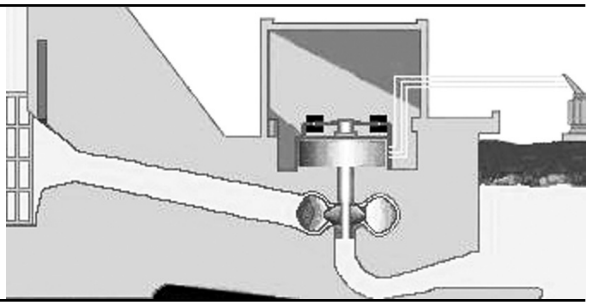
Hydraulic turbine



Builder : _____

User : _____

Project : _____

RESULTS OF CALCULATION **CALCULATION N°** _____

Type of brake _____

Response time of the brake _____ s

Number of brake(s) _____

Total braking torque _____ N.m

On disc Ø _____ m

Thickness of the disc _____ mm

Brake energy without leakage	Increase of θ	Time of braking	Nber of possible brakings
1°) _____ J	_____ °C	_____ s	_____
2°) _____ J	_____ °C	_____ s	_____
3°) _____ J	_____ °C	_____ s	_____

Brake energy with leakage	Increase of θ	Time of braking	Nber of possible brakings
1°) _____ J	_____ °C	_____ s	_____
2°) _____ J	_____ °C	_____ s	_____
3°) _____ J	_____ °C	_____ s	_____

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