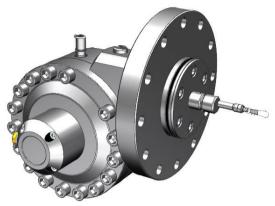


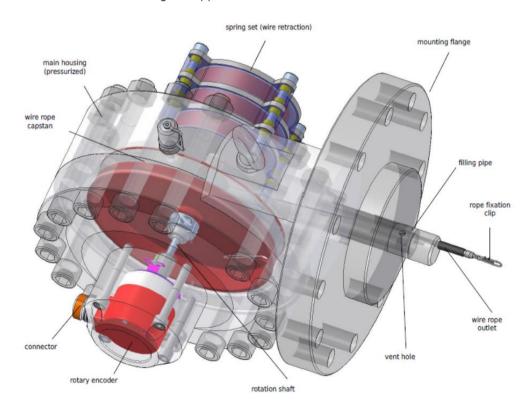
Absolute Linear Measuring Sensor



The ABSOTEK sensor series are cable sensors designed for use in combination with hydraulic cylinders and to measure the position of the piston in the cylinder. Specially designed for long stroke cylinders, the sensor body can be pressurized and is directly clamped on the cylinder

By sending the signals to the control command, it will be possible to control the hydraulic cylinders, program specific movements or synchronize the movements of several hydraulic cylinders.

Due to its small footprint, reduced assembly time and possible customization, this sensor technology provides a cost effective and flexible solution for a wide range of applications.



A constant tension from the spring coils the measuring cable precisely on a cable pulley, so that its linear motion is converted into rotation. The sensor element (rotary encoder) provides the required output signal.

Due to its mechanical construction and good dynamic response, it is possible to measure a high displacement speed and rapid acceleration of the piston in its cylinder.

Its high quality allows its integration for applications in harsh environment.



Absolute Linear Measuring Sensor

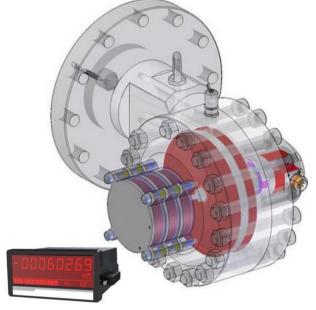


Applications

Cylinders for dams
Lock gates
Movable bridge jacks
Wave compensation cylinders
Synchronization between several cylinders
Acceleration and speed control of cylinders

Technical datas

Dange magaurement	10m 15m mara unan raguast	
Range measurement	10m, 15m, more upon request	
Temperature range	-20°C+70°C	
Pulley circumference	568,9 mm	
Linearity	± 0,05%	
Pressure control	Minimess 1620	
Fluid	All type of fluid, no gas	
Working pressure	300 bar	
Testing pressure	400 bar	
Velocity	2 m/s max.	
Weight	61 kg	
Cable tension	10 m : début 10 Nfin 29 N 15 m : début 13 N fin 37 N	
Encoder type	Bride Ø 58 mm pour couplage Ø 63 mm fixation vis Arbre creux Ø 15 mm	
Cable connector	Adjutable by step of 90°	
Construction grade	Grade: 42CrMo4	
Cable grade	Grade : X5CrNi18-10 (Inox)	



Output signal	CANopen, SSI, Profibus-DP EtherCAT, Profinet
Connection	Sortie câble ou connecteur
Power	1030 VDC
Protection	IP65, IP67 en option
Options	ATEX, IECEx







Absolute Linear Measuring Sensor



From 0 to 500 000 cycles Velocitty test de 2 m/s From 500 000 cycles to 1 000 000 cycles Velocitty test 1,3 m/s

Stop of th e tests after 1 012 088 cycles without any issue



Cable length 5 m. (Higher spring tension) Stroke +/- 2195 mm Stroke range from 5m to 9,39 m

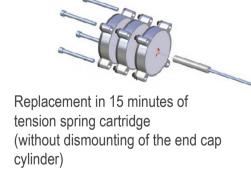
Easy dismounting and maintenance

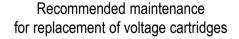






Independent spring cartridge





1 stroke per day	10 years
10 strokes per day	6 years
25 strokes per dayr	5 years
More than 50 stroke per day	3 years

Douce-Hydro France and USA

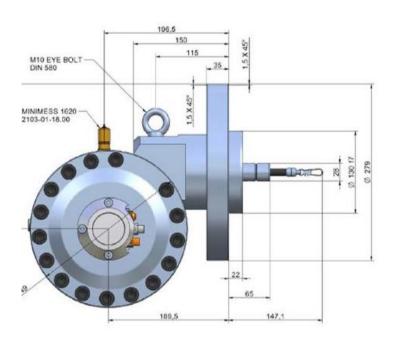
Tel France: + 33 / 3 22 74 31 08: afleroy@doucehydro.com
Tel USA: + 1 / 586 566 4725: fvandenbulke@doucehydro.com
www.doucehydro.com

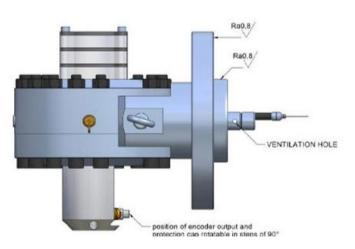
of the electrical encorder (without dismounting of the end cap cylinder))

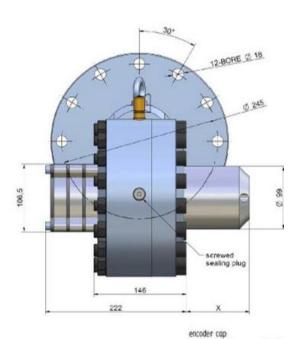
Replacement in 15 minutes



Absolute Linear Measuring Sensor











Absolute Linear Measuring Sensor





