

## ELECTRO-HYDRAULIC SYSTEM FUNCTIONING

MOTOR REVERSAL		ELECTRICALLY OPE	RATED VALVE	
Wire quantity:	4	Wire quantity:	7	Hydraulics
Pump type:	Piston pump (fix flow)	Pump type:	Gear pump (fix flow) Piston pump (fix flow)	

## VARIABLE FLOW HYDRAULIC UNITS

• Electrically operated valve hydraulic units that use variable flow piston pumps warranty hydraulic components' working life increase in more than 300% in comparison with fix flow pump's functioning.

• This system avoids oils overheating (4 times minor than with fix flow pumps) due to Load-Sensing control. This way pumps' plate is continuously adapting its inclination in the way to optimise the penetration force and minimise power demand (40% minor than fix flow pumps) and increase grab's overall efficiency.

## MATERIALS

• Structure manufactured in S355 J2G3 rolled steel (elastic yield 510-610 N/mm2).

• It is possible to **install interchangeable manganese wear resistant teeth** (up to 500 HB) into grab's valves in the way to **improve machine's penetration** into the material.

• For grabs in contact with **abrasive materials** we normally recommend to manufacture valves plates in **wear resistant steel** (hardness up to 475 HBW).

## CERTIFICATION

• Possibility to certify any model in ATEX 0/20, 1/21 or 2/22 zones for explosive atmospheres.



Piston pump (variable flow)

