

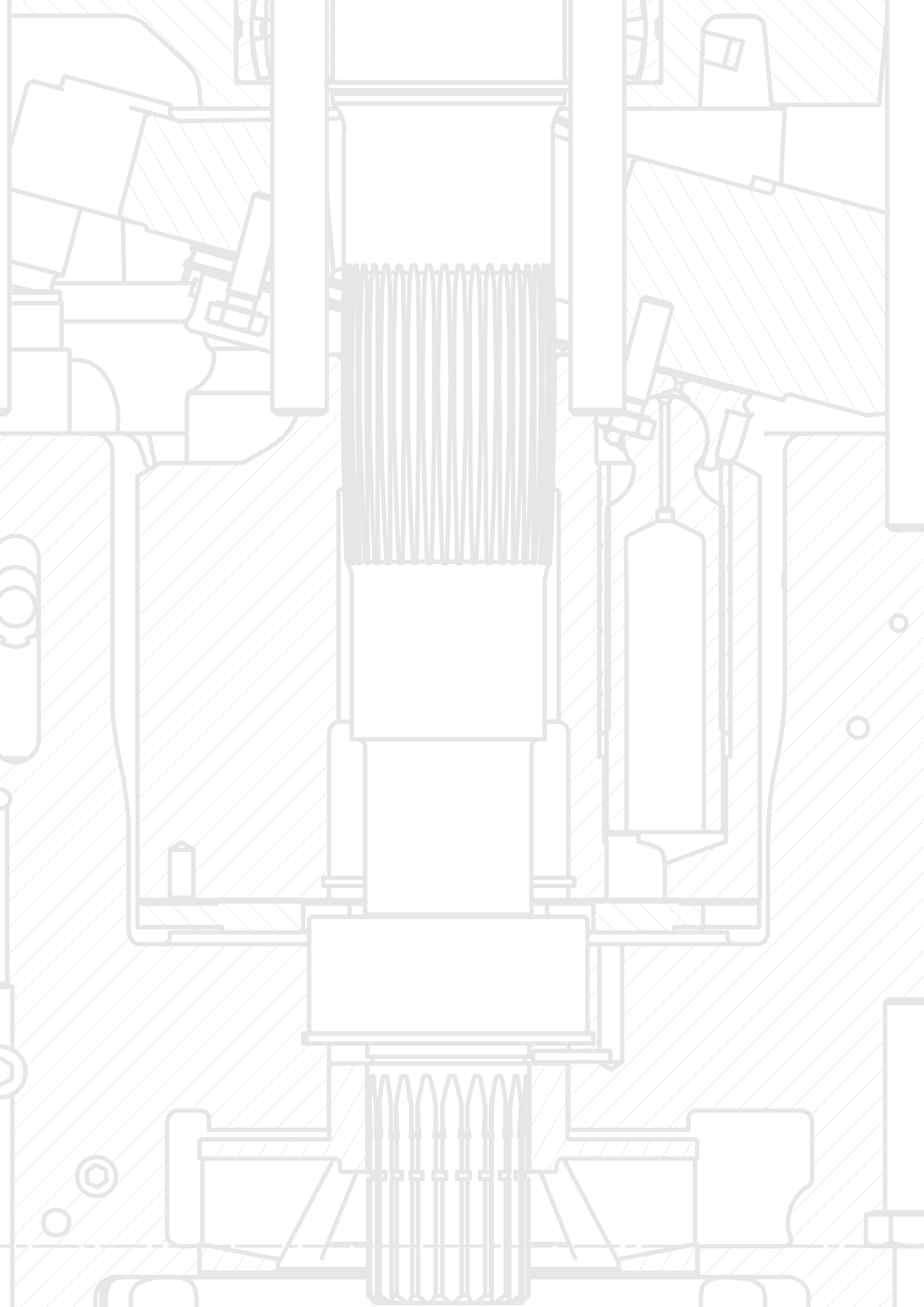
EVERYTHING UNDER CONTROL

Heavy duty pumps with full electronic controller of flow, pressure and torque

Tradition – Quality – Future

HIGH-PERFORMANCE PUMPS – MADE IN GERMANY





Advantages

- ▶ Set values can be put in by internal program, external SPS or potentiometer
- ▶ Set values are recallable any time
- ▶ High precision of all values
- ▶ No dependence on viscosity
- ▶ Error message and logic reaction at sensor failure
- ▶ At multi pump mode several digital control cards can be connected by bus system (In event master-slave-mode)
- ▶ Robust and rattle proof device for stationary and mobile applications

Type code	4
Options of amplifier and control cards	5
Universal control	6
Control options and combinations	7
Several options of controlling	8/9
Applications	10/11

Type code

V30E-160 RDGN-2-2-02/	EM	EP	EL	K18	
095 270					Pressure limiting valve see document D7485/1
				Electronic Cards see Tab.	
			Power control		
			L	mechanical	
			Lf/Lf1	hydraulic modulated	
				positiv/negative characteristic	
			Lfe/Lfe1	electronic modulated	
				positiv/ negative characteristic	
			EL	electronic	
		Pressure control			
		P	pilot operated		
		Pb	pilot operated with additional pressure feedback		
		EP	electronic pilot control		
	Flow control				
	LS	load Sensing Control			
	EM	electronic with prop. valve technology			

V30D-140 RDN-2-2-02/	EM	EP	EL	K18	
045 075 095 115 160 250					Pressure limiting valve see document D7485/1
				Electronic Cards see Tab.	
			Power control		
			L	mechanical	
			Lf1	hydraulic modulated negative identification	
			EL	electronic	
		Pressure control			
		N	direct operated		
		P	pilot operated		
		Pb	pilot operated with additional feedback		
		EP	electronic pilot control		
	Flow control				
	Q	constant			
	Qb	constant flow with additional feedback			
	LS	load Sensing control			
	V	electro hydraulic proportional			
	VH	hydraulic proportional			
	EM	electronic with prop. valve technology			

V80M-200 RDGN-2-2-00/	EM	EP	EL	K18	
V80ML					Pressure limiting valve (see doc D7854/1)
				Electronic Cards see Tab.	
			Power control		
			L	mechanical	
			EL	electronic	
		Pressure control			
		N	direct operated		
		EP	electronic pilot control		
	Flow control				
	LS	load Sensing control			
	EM	electronic with prop. valve technology			

Options of amplifier and control cards

Table: Controller			
K1	EV1D1	K10	DMA-22-01
K2	EV1M3-12/24	K11	DMA-22-02
K3	EV22K2-12/24	K12	DMA-22-04
K4	EV2S-CAN-G-M	K13	DMA-22-04 ProfiBus
K5	EV2S-CAN-G-L3K	K14	DMA-22-04 Plus
K6	EV2S-CAN-DG-L3K	K15	DAC-42-04
K7	DAC-44-XLT	K16	DAC-44-04
K8	DAC-42-XLT	K17	DAC-44-x-PBDP
K9	DAC-44-XXLT		

Table: amplifier card

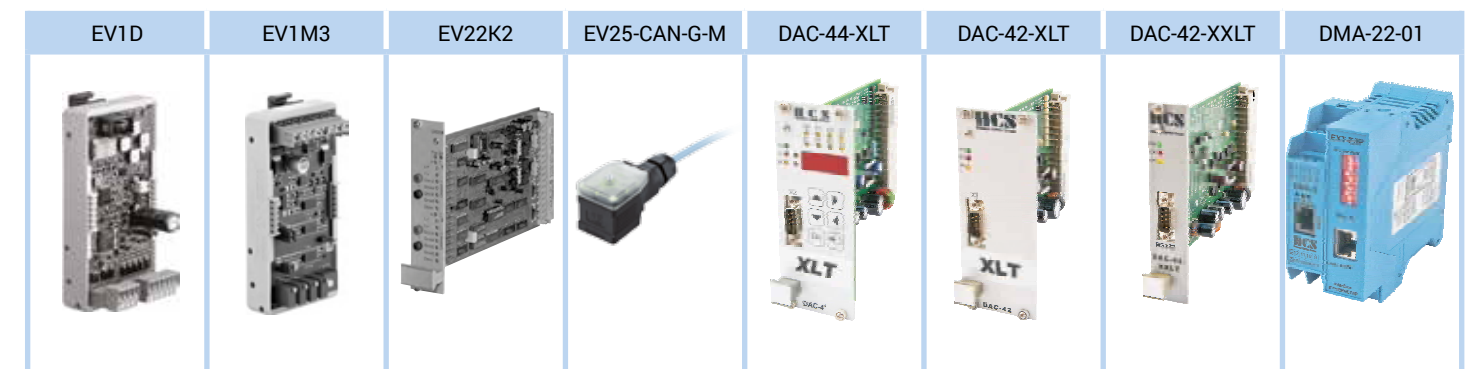
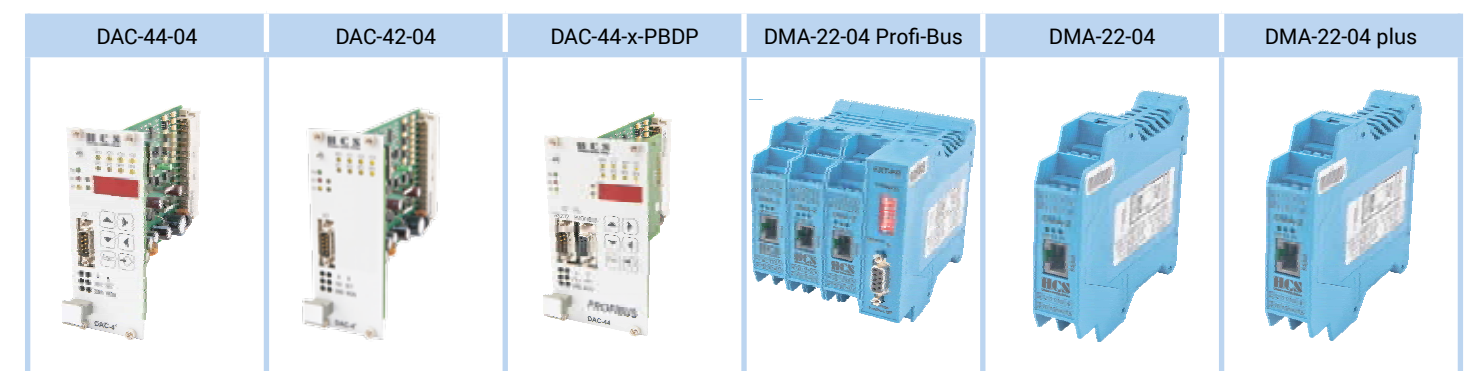


Table: control card



Universal control



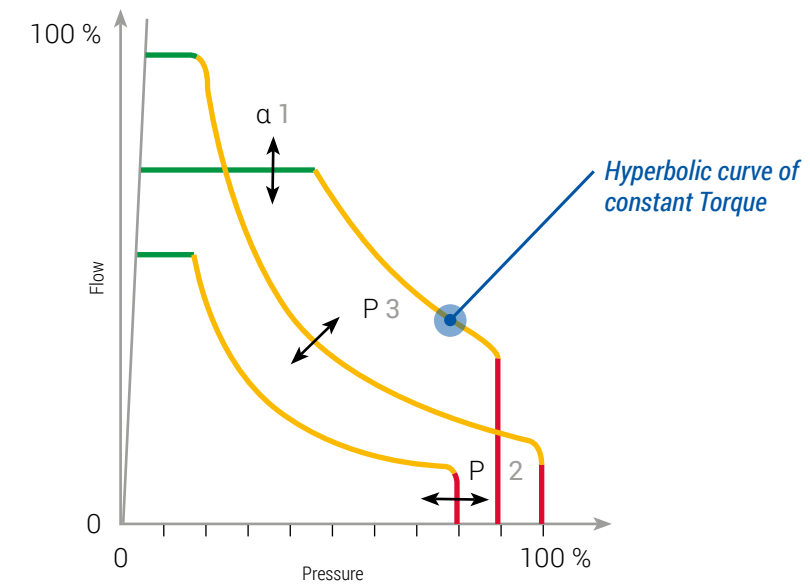
Universal electro-hydraulic control with microprocessor for variable axial piston pumps V30 V80

Common description

For the pump series V30, V80 a regulator kit was developed which consist of a variable pump with an electro proportional flow control, a digital control card with microprocessor and according to requirement necessary pressure sensor.

Compared to well-known hydro-mechanical controls this new technology has the advantage that with the same hardware all thinkable technical pump controls can be realized by adapting the mating software only with small efforts. The features of the digital control can be simply and user friendly adapted to the regulated machine by a small hand terminal or a laptop.

Control options and combinations



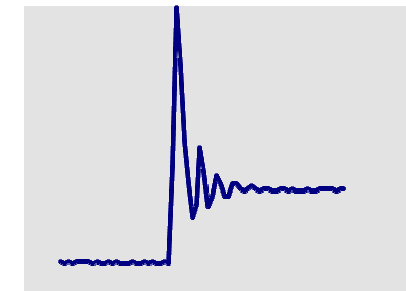
Hydro-mechanic control

Electronic control

EP pressure control

Pressure peaks less than hydro-mechanic controller due to very fast operation and optimized card.

Response time and setting time even better than mechanic controller.



EM flow control

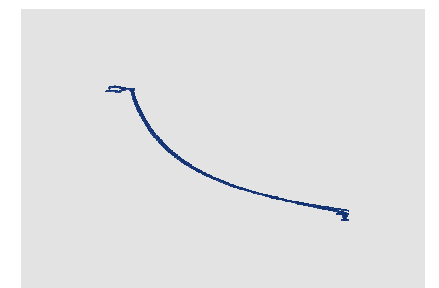
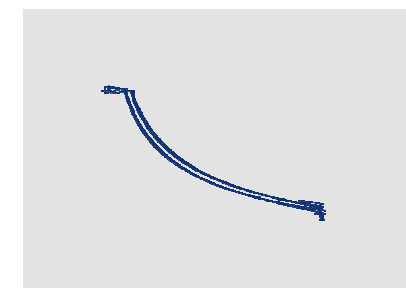
Same performance and accuracy as hydro-mechanic control. Requested flow with highest accuracy, even drain compensation can be calculated.

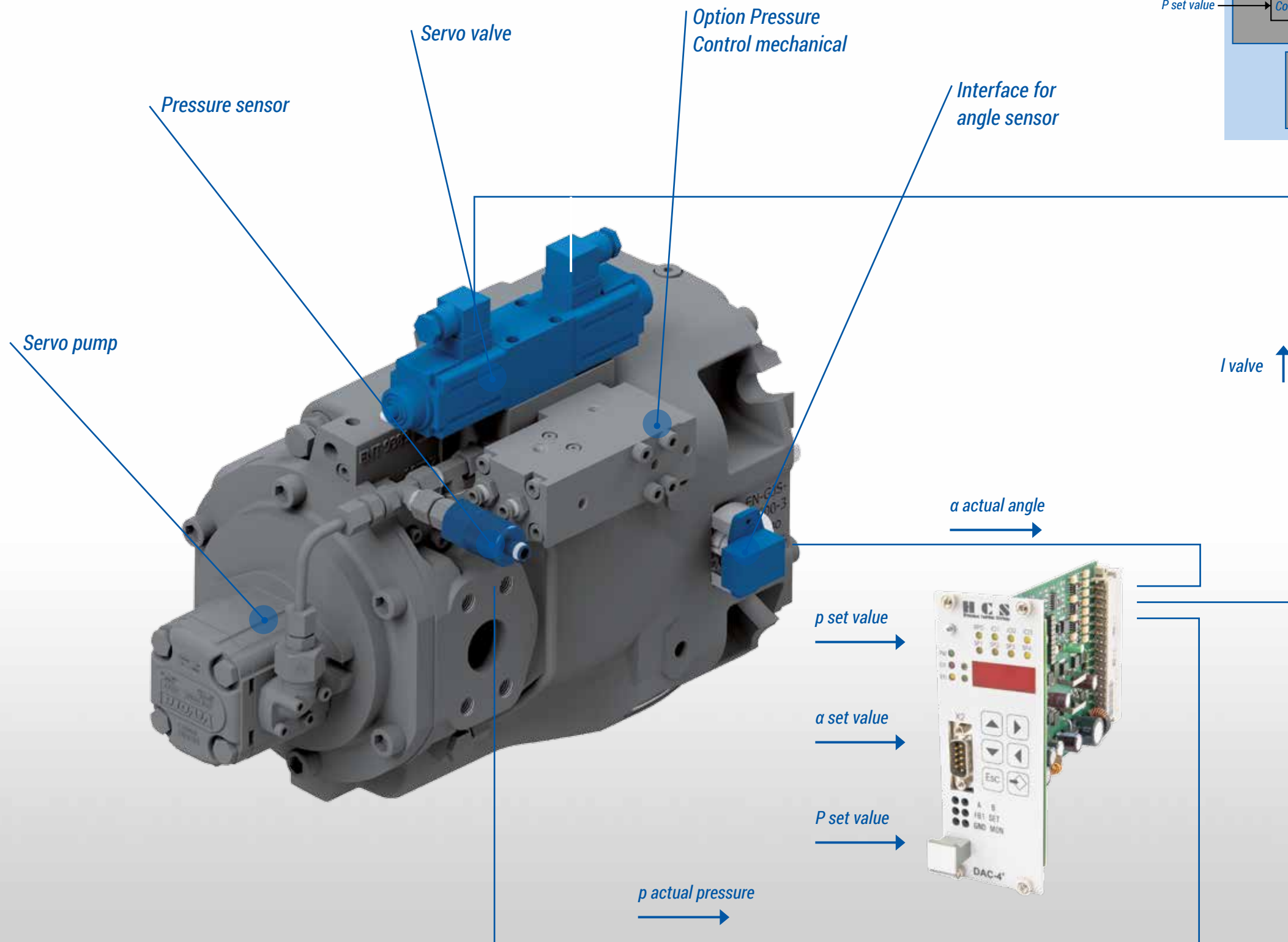


EL torque control

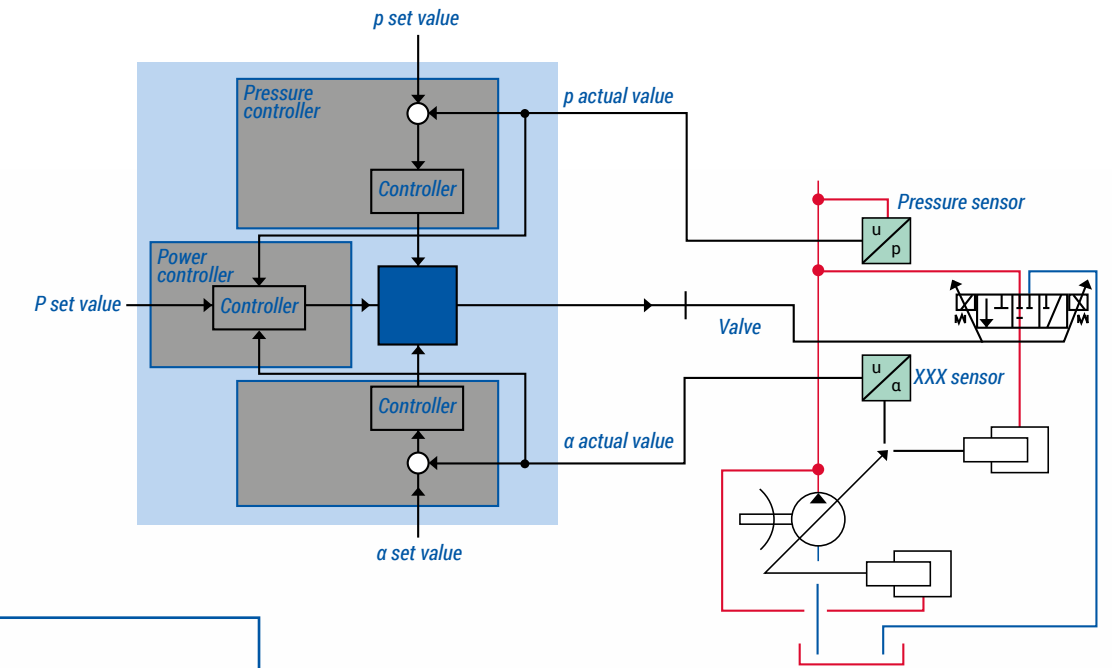
Less hysteresis from less mechanical interfaces.

Perfect hyperbolic shape of torque control calculated in optimized card.





Digital amplifier and controller



Several options of controlling

Applications





HAWE InLine Hydraulik GmbH

Sperenberger Straße 13
D-12277 Berlin

Tel: +49 (30) 72088 - 0
Fax: +49 (30) 72088 - 44

info@hawe-inline.com
www.hawe-inline.com



Member of the Hengli Group

