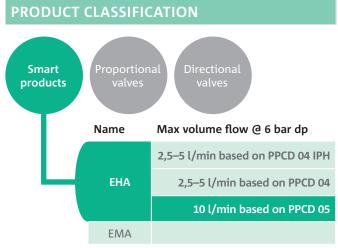


Electrohydraulical Actuator [EHA 2.0 with PPCD 05]



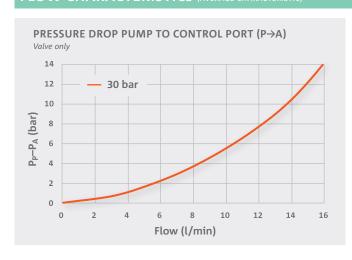


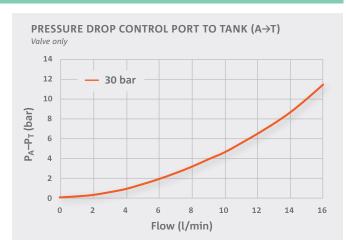
HYDRAULIC DATA	
Max pressure pump	P _P = 50 bar
Max pressure tank	P _T = 30 bar
Max pressure work	P _A = 30 bar
Contamination level	Min Filtration: 20/18/15 According to ISO 4406
Fluid	Mineral Oil According to DIN 51524
Temperature range	-30°C to +90°C (ambient) -30°C to +90°C (fluid)
Leakage (internal, each valve)*	< 0,03 l/min (de-energized) < 0,25 l/min (energized)
Filterscreen size	140 μm (P-Port)

^{*} The reported data are measured @ P_p =35 bar and an oil viscosity of 32 cSt

ELECTRICAL DATA		
Voltage	12 V	24 V
Voltage range min/max	9/16 [V]	16/32 [V]
Short term overvoltage	36 V	
Max idle power	1 W	1 W
Max power consumption	25 W	
EMC Immunity	1) acc to ISO 11452-2:2019,2015 100 V/m; 80-2500 Mhz 2) acc. To ISO 11452-4:2011 150 mA; 0,5-200 Mhz	
EMC Transient Conduction Test	acc. to ISO 7637-2:2011 Tests 1, 2a, 2b, 3a, 3b, 3, 5 Test level: IV except for 24 V systems + test No. 5 Test level: III	
Connector	Deutsch Connector DT14-6P	
Protection class	up to IP6K6 / IPX9K	

FLOW CHARACTERISTICS (AVERAGE CHARACTERISTIC)





1

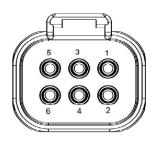


SAFETY FUNCTIONS The EHA provides three safety functions in compliance of DIN EN ISO 13849 **SAFETY FUNCTION 1 SAFETY FUNCTION 2 DIAGNOSTIC FUNCTION 3** Current less state Pressure less state Rated customer diagnostic function - EHA diag-message Whenever the signal processing Whenever the signal processing Desciption The current position of the valve of setpoints along the rated of setpoints along the rated saslider (accuracy ±4%) is transmitted via the CAN bus interface safety-chain (CAN ... valve-coil) fety-chain (CAN ... pilot-pressure) is disturbed, the valves enter is disturbed, the valves enter cyclically (user configurable interthe current less state, which is the pressure less state, which is vals of 10ms, 30ms and 100ms) defined as the safe state. defined as the safe state. accompanied by an error code in case one has occurred. MTTFd ~ 100 years ~ 47 years ~ 100 years ~ 95 % 66 % ~ 95 % Diagnostic coverage C **Performance Level** D D

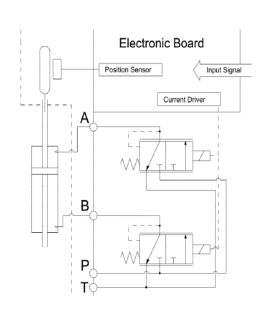
SENSORIC ACCURACY	
SENSOR TYPE	HALL EFFECT
Range	± 11 mm
Max. sensing deviation	< 90 μm

PIN ASSIGNMENT

Pin number	Function
1	U Bat (battery voltage)
2	CAN_L CAN Signal (dominant low)
3	"Ain (analog input signal)" (Valve A for electrical override)
4	Agnd (analog output ground) (Valve B for electrical override)
5	GND (battery ground)
6	CAN_H CAN Signal (dominant high)



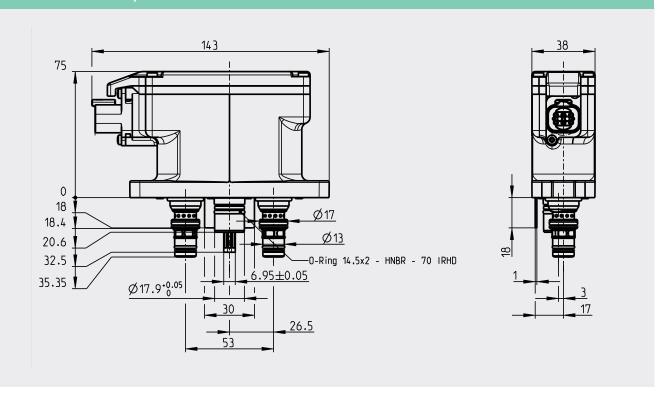
HYDRAULIC SCHEMATIC



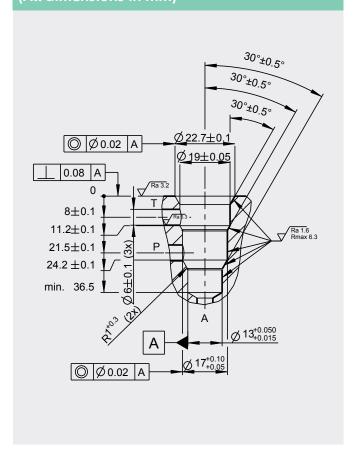
ADDITIONAL DATA		
Weigth	approx. 670 g	
Mounting position (recommended)	any	
Reference	Valve specifications according to Thomas LHP 98 EHA TES	



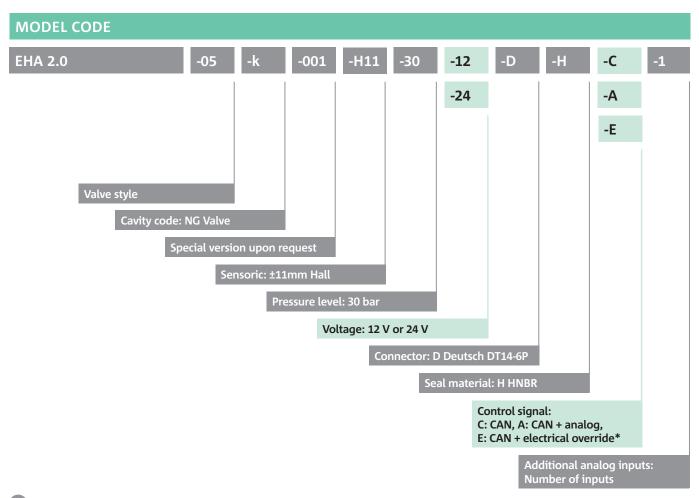
DIMENSIONS WITH DEUTSCH CONNECTOR AND PPCD 05 (All dimensions in mm)



CAVITY DIMENSIONS PPCD 05 (All dimensions in mm)







Defined by Thomas

Customers choice

* 24 V variants

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DISCLAIMER



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