

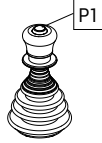
# HERCULES-S - REQUEST FORM FOR NON STANDARD JOYSTICK

## Grip

Choose only one of the following options

### Knob (IP 65 when housed in a specific enclosure)

- Knob without mechanical interlock
- Knob without mechanical interlock with P1 1NO pushbutton  
Colour of pushbutton  
 black     green



- Knob with mechanical interlock + NC/NO contact

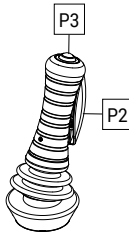
### T handle (IP 65 when housed in a specific enclosure)

- T handle without mechanical interlock
- T handle with mechanical interlock + NC/NO contact



### Simple handle (IP 44 when housed in a specific enclosure)

- Simple handle without mechanical interlock
- Simple handle without mechanical interlock with P2 1NO pushbutton
- Simple handle without mechanical interlock with P2 1NO pushbutton + P3 1NO pushbutton  
Colour of P3 pushbutton  
 black     green



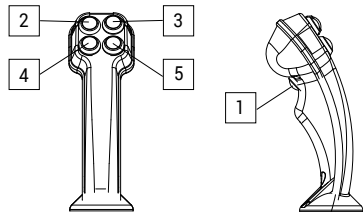
### Ergonomic handle (IP 43 when housed in a specific enclosure)

- Ergonomic handle without mechanical interlock



1NO pushbuttons can be used as electrical interlock.

## Actuators for ergonomic handle



### Actuator\* and label text

Pos.

- 1 Yes  No PRVV5080PE Green pushbutton 1NO contact + 1 common\*\*

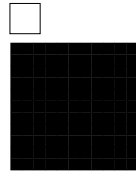
Type	Text
<input type="checkbox"/> 2	_____
<input type="checkbox"/> 3	_____
<input type="checkbox"/> 4	_____
<input type="checkbox"/> 5	_____

## Movement

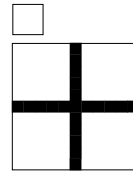
- Stepped - spring return
- Linear - spring return

## Lever guide

Standard lever guides

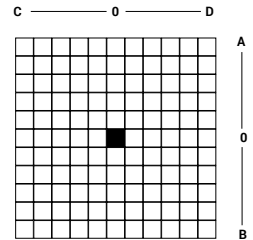


5 steps directions A-B  
5 steps directions C-D  
360° movement



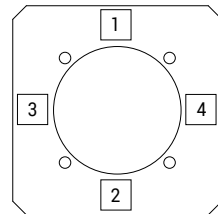
5 steps directions A-B  
5 steps directions C-D  
Cross movement

Customized lever guide



## Joystick label

- Blank label
- Lifting-Traverse symbols
- Trolley-Rotation symbols
- Customized label



Pos. Text

1	_____
2	_____
3	_____
4	_____

## Actuators for positions 2-3-4-5

- A PRVV5019PE Green pushbutton 1NO contact + 1 common
- B PRVV5020PE Black pushbutton 1NO contact + 1 common
- C PRVV0840PE Selector switch 2 maintained pos. ON-OFF, 1 contact + 1 common
- D PRVV0842PE Selector switch 2 pos. MOM-OFF, 1 contact + 1 common
- E PRVV0830PE Selector switch 2 maintained pos. ON-ON, 2 contacts + 1 common
- F PRVV0832PE Selector switch 2 spring return pos. ON-MOM, 2 contacts + 1 common

## Actuators for positions 2-3

- G PRVV0831PE Selector switch 3 maintained pos. ON-OFF-ON, 2 contacts + 1 common
- H PRVV0833PE Selector switch 3 pos. MOM-OFF-MOM, 2 contacts + 1 common
- I PRVV0834PE Selector switch 3 pos. ON-OFF-MOM, 2 contacts + 1 common

\* Maximum 5 contacts + 1 common available.

Ex.: 1NO contact in position 1 + 4 buttons A type.  
1NO contact in position 1 + 4 selectors C type.  
1NO contact in position 1 + 2 selectors G type.

\*\* In case of use of the electrical interlock function, connect it to the actuator in Position 1.

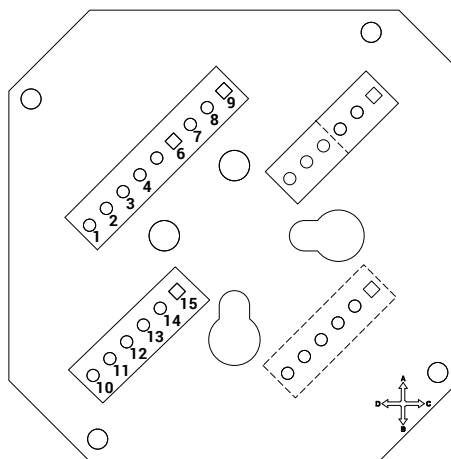
**Contact scheme for Hercules-S with up to 3 speeds/positions**

Standard version 3 - 3 speeds/positions

		Contact number			
		1	2	3	4
Speed / Position	Direction ↑ A	3			
		2			
		1			
	Direction ↓ B	0			
		1			
		2			
	3				

		Speed / Position						
		Direction						
		C				D		
		3	2	1	0	1	2	3
Contact number	6							
	7							
	8							
	9							



Customized version

		Contact number													
		1	2	3	4	10	11	12							
Speed / Position	Direction ↑ A	3													
		2													
		1													
	Direction ↓ B	0													
		1													
		2													
	3														

		Speed / Position						
		Direction						
		C				D		
		3	2	1	0	1	2	3
Contact number	6							
	7							
	8							
	9							
	13							
14								
15								

Optional contacts only for Hercules with one or more pushbuttons

**Instructions**

If a customized version is required, fill in the contact diagram for the two directions A-B and C-D. Blacken the boxes corresponding to the contacts that must be associated with the movement of the joystick.

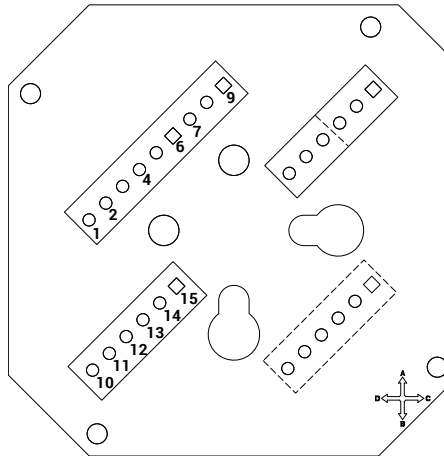
**Contact scheme for Hercules-S with up to 5 speeds/positions**

Standard version 5 - 5 speeds/positions

		Contact number						
		1	2	4	10	11	12	
Speed / Position	Direction ↑ A	5						
		4						
		3						
	Direction ↓ B	2						
		1						
		0						
	1							
	2							
	3							
	4							
	5							

		Speed / Position										
		Direction										
		C						D				
		5	4	3	2	1	0	1	2	3	4	5
Contact number	6											
	7											
	9											
	13											
	14											
15												



Customized version

		Contact number						
		1	2	4	10	11	12	
Speed / Position	Direction ↑ A	5						
		4						
		3						
	Direction ↓ B	2						
		1						
		0						
	1							
	2							
	3							
	4							
	5							

		Speed / Position										
		Direction										
		C						D				
		5	4	3	2	1	0	1	2	3	4	5
Contact number	6											
	7											
	9											
	13											
	14											
15												

**Instructions**

If a customized version is required, fill in the contact diagram for the two directions A-B and C-D. Blacken the boxes corresponding to the contacts that must be associated with the movement of the joystick.



# HERCULES-CK - REQUEST FORM FOR NON STANDARD JOYSTICK

## Grip

Choose only one of the following options

**Knob (IP 65 when housed in a specific enclosure)**

Knob without mechanical interlock

Knob without mechanical interlock with P1 1NO pushbutton  
Colour of pushbutton  
 black  green



Knob with mechanical interlock + NC/NO contact

**T handle (IP 65 when housed in a specific enclosure)**

T handle without mechanical interlock

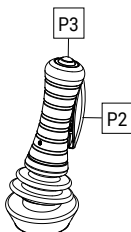


T handle with mechanical interlock + NC/NO contact

**Simple handle (IP 44 when housed in a specific enclosure)**

Simple handle without mechanical interlock

Simple handle without mechanical interlock with P2 1NO pushbutton



Simple handle without mechanical interlock with P2 1NO pushbutton + P3 1NO pushbutton  
Colour of P3 pushbutton  
 black  green

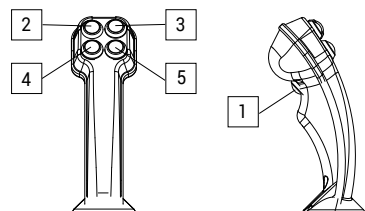
**Ergonomic handle (IP 43 when housed in a specific enclosure)**

Ergonomic handle without mechanical interlock



1NO pushbuttons can be used as electrical interlock.

## Actuators for ergonomic handle



## Actuator\* and label text

Pos.

1  Yes  No PRVV5080PE Green pushbutton 1NO contact + 1 common\*\*

Type	Text
<input type="checkbox"/> 2	_____
<input type="checkbox"/> 3	_____
<input type="checkbox"/> 4	_____
<input type="checkbox"/> 5	_____

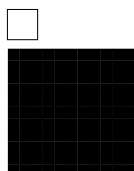
## Movement

Stepped - spring return

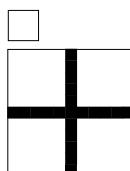
Linear - spring return

## Lever guide

Standard lever guides

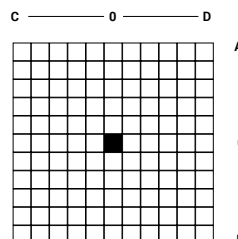


5 steps directions A-B  
5 steps directions C-D  
360° movement



5 steps directions A-B  
5 steps directions C-D  
Cross movement

Customized lever guide



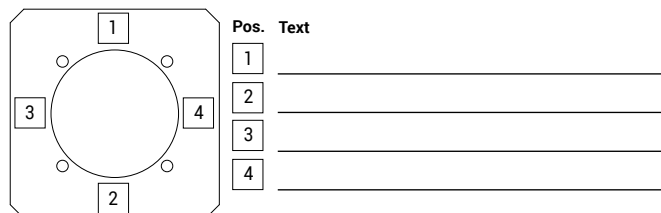
## Joystick label

Blank label

Lifting-Traversal symbols

Trolley-Rotation symbols

Customized label



## Actuators for positions 2-3-4-5

- A PRVV5019PE Green pushbutton 1NO contact + 1 common
- B PRVV5020PE Black pushbutton 1NO contact + 1 common
- C PRVV0840PE Selector switch 2 maintained pos. ON-OFF, 1 contact + 1 common
- D PRVV0842PE Selector switch 2 pos. MOM-OFF, 1 contact + 1 common
- E PRVV0830PE Selector switch 2 maintained pos. ON-ON, 2 contacts + 1 common
- F PRVV0832PE Selector switch 2 spring return pos. ON-MOM, 2 contacts + 1 common

## Actuators for positions 2-3

- G PRVV0831PE Selector switch 3 maintained pos. ON-OFF-ON, 2 contacts + 1 common
- H PRVV0833PE Selector switch 3 pos. MOM-OFF-MOM, 2 contacts + 1 common
- I PRVV0834PE Selector switch 3 pos. ON-OFF-MOM, 2 contacts + 1 common

\* Maximum 5 contacts + 1 common available.  
Ex.: 1NO contact in position 1 + 4 buttons A type.  
1NO contact in position 1 + 4 selectors C type.  
1NO contact in position 1 + 2 selectors G type.

\*\* In case of use of the electrical interlock function, connect it to the actuator in Position 1.

### Switches for mechanical interlock (when required)

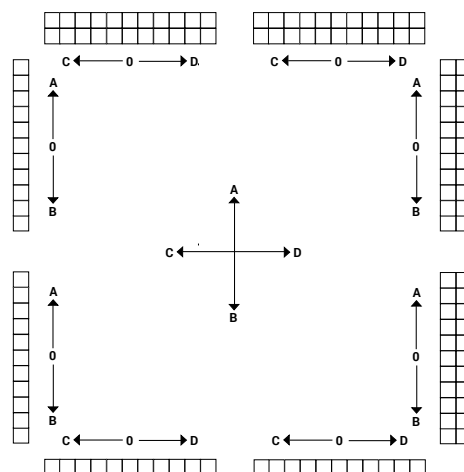
- 1 switch PRSL0191XX with 1NC+1NC contacts.
- 1 switch PRSL1000PI with 1NO contact.
- 1 switch PRSL1000PI with 1NO contact + 1 switch PRSL1000PI with 1NO contact.
- 1 switch PRSL1001PI with 1NC contact.
- 1 switch PRSL1001PI with 1NC contact + 1 switch PRSL1001PI with 1NC contact.
- 1 switch PRSL1000PI with 1NO contact + 1 switch PRSL1001PI with 1NC contact.

### Contact diagram for Hercules-CK

#### Instructions

Fill in the contact diagram blackening the boxes corresponding to the positions where the cams close the contacts (each bar of 11 boxes corresponds to a switch; the central box corresponds to the zero position of the joystick). In the example, the contact is closed in positions 1-2-3 to the left and 3-4 to the right.

5	4	3	2	1	0	1	2	3	4	5



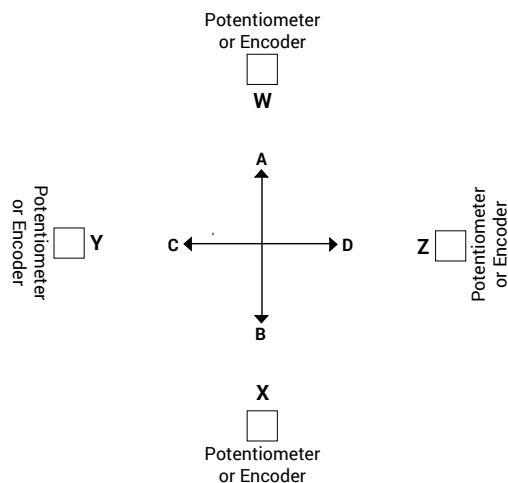
### Potentiometers and Encoders

#### Potentiometer

- 1 PRVV9035PE 2,2 kΩ
- 2 PRVV9020PE 4,7 kΩ
- 3 PRVV9025PE 10 kΩ
- 4 Pre-set only

#### Instructions

**Potentiometers:** write the number corresponding to the potentiometer or to the pre-set required in the desired position in the scheme to the left.



#### Encoders Egon 36-AL

- 5 F19SA000001 single
- 6 F19RA000001 redundant

#### Analog output

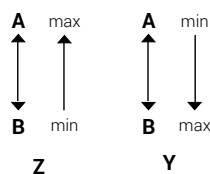
- Current output 4-20 mA
- Voltage output 1 ÷ 5 Vdc
- Voltage output 2 ÷ 10 Vdc

#### Instructions

**Encoders:** write the number corresponding to the encoder required in the desired position in the scheme to the left and tick the box corresponding to the type of analog output required.

#### Direction of signal increase / decrease

##### Lever direction A - B



##### Lever direction C - D



#### Standard positions

The signal increases in positions W and Z and decreases in positions X and Y.