

## Compu-Spread CS-106

### Multiple Joystick Control Console

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Joystick console series CS-106, with 5 single axis paddle joysticks, 5 auxiliary device switches, valve solenoid trim switch and actuator stow mode switch, for the control of multiple functions on plow truck systems.

The Rexroth CS-106 joystick console is an ergonomically designed operator interface for the control of multiple hydraulic actuators, typically cylinders, on Snow and Ice Control vehicles. The single axis paddle or single/multi-axis joysticks can be configured to control proportional or on/off solenoid valves. Hydraulic valve nulling and trimming are easily done with the on-board rocker and key switch, facilitated by an integral indicator. The controller permits simple configuration of a “park” or stow mode—useful also as an emergency setting—of the actuators being controlled, triggered by a single console button.

This series is available in 3, 5 or 7 paddle joystick versions, each with an equivalent number of selectable rocker switches, as well as double or triple joystick (1, 2 or 3 axis) versions with 3, respectively 5, rocker switches.

The CS-106 console is extremely compact, ideal for installation in vehicle cabs which may not have sufficient space for conventional valve operators. Cab perforations are minimized and installation time is greatly reduced—since no “line of sight is required”—thanks to the pre-configured compact electrical cable harnesses.



Joystick console series CS-106, with 2 multiple axis joysticks, 3 auxiliary device switches, valve solenoid trim switch and actuator stow mode switch, for the control of multiple functions on plow truck systems. Shown with optional armrest.

The CS-106 is ideally matched with the Rexroth CS-530 family of spreader controllers, designed for medium-sized Snow and Ice Control vehicles but, as always, for heavy-duty service.

#### CS-106 multiple joystick console features

- Hall effect joysticks, various configurations possible
- Low profile joysticks have high control resolution and low operating force
- Illuminated console legends provide paddle identification
- Integral valve trimming LED indicator also used for potential fault diagnostics of joysticks and solenoids
- Available paddle shroud prevents inadvertent movement
- Integrated joystick dead-man switch safety interlock
- Rocker switches with LED illuminated symbols, IP 68
- Wiring harnesses have integral molded diagnostic LEDs
- Spreader control mounting pad for RAM bracket

# Multiple joystick console CS-106

## Technical Data

### General

<b>Enclosure Material</b>	steel, black powder coated, with black anodized aluminum faceplate		
<b>Joystick—paddle version</b>	Single axis spring return, paddle deflection $\pm 30^\circ$ ; design life 10 million cycles		
<b>Joystick—stick version</b>	Single axis; dual axis “X” Gate or $360^\circ$ movement; 3 axis $360^\circ$ with “Z” twist; 5 million cycles		
<b>Mechanical Mounting</b>	1- 1/2” 1/2 Ø post bracket or “Ram Bracket” size 1-1/2”, PEM studs for front RAM bracket		
<b>Housing version</b>	3 paddle / 2 joystick	5 paddle / 3 joystick	7 paddle
<b>Weight</b>	3.8 lb. (1.7 kg)	4.8 lb. (2.2 kg)	5.9 lb. (2.7 kg)
<b>Envelope (without base mount)</b>	9” w x 6.4” d x 6.9” h (6”)	12.8” w x 6.7” d x 6.9” h (6”)	16.7” h x 7” d x 6” h
N.B. Stick joysticks higher than (paddle joysticks)	228 w x 161 d x 174 h (152)	325 w x 168 d x 174 h (152)	425 w x 179 d x 152 h

### Electrical

<b>Power Supply</b>	8-32 VDC, console fitted with 10 A input fuse
<b>Solenoid Voltage</b>	12 VDC
<b>Auxiliary Switches (3, 5 or 7)</b>	5 A; 2 or 3 position contoured rocker, latched or spring return; illuminated custom legend text
<b>Joystick</b>	Up to 14 x (7 x double acting) proportional outputs 3.5 A max. each (depending on model); full coil suppression on joystick outputs
<b>Electromagnetic Compatibility</b>	100v/m load dump ISO7637-2 (2004) pulse 5
<b>RF Immunity</b>	ISO 11452-2 400-1000 MHz, 80% mod. 1 kHz
<b>Conducted Immunity</b>	ISO 7637-2 (2004) System Pulse 1, 2a, 2b, 3b, 4
<b>RF Emissions</b>	CISPR 25:2002-08 30 MHz-1GHz acc. to 72/245/EC EN 55025
<b>Electrostatic Discharge</b>	EN 6100-4-2 ISO 10605 Contact $\pm 8$ kv, air discharge $\pm 15$ kv

### Environmental

<b>Operating Temperature</b>	-30 ... 85° C
<b>Storage Temperature</b>	-40 ... 85° C
<b>UV Resistance</b>	DIN 75220
<b>Media Resistance</b>	ISO 16750-5
<b>Protection Category</b>	IEC 60529 IP63

CS-106 Housings available:



3 paddles, 3 switches

2 joysticks, 3 switches

5 paddles, 5 switches

3 joysticks, 5 switches

7 paddles, 7 switches

N.B. All dimensions are approximate, intended for illustrative purposes only. Request a certified drawing before beginning construction or installation.

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