

Part number:

HYDROMA

HYDRAULICKÉ SYSTÉMY

**HIDROMA
SYSTEMS**

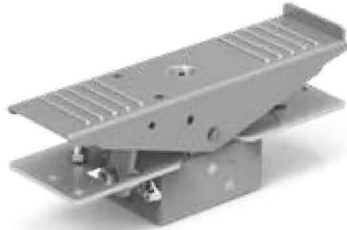
UKŁADY HYDRAULICZNE

HYDROMA

ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

RCP FOOT PEDAL 2 WORKING PORTS AND REDUCED BODY PROFILE

RCP foot pedal belongs to the wide range of hydraulic remote controls. This Pedal is characterized by reduced overall dimensions and several configurations. RCP works according to the principle of direct-acting pressure reducing valves. In rest position, the foot pedal is held in neutral by return spring; inlet port P is closed and ports are connected to tank port T.



TECHNICAL SPECIFICATIONS

Max pressure: **100 bar (1450 psi)**

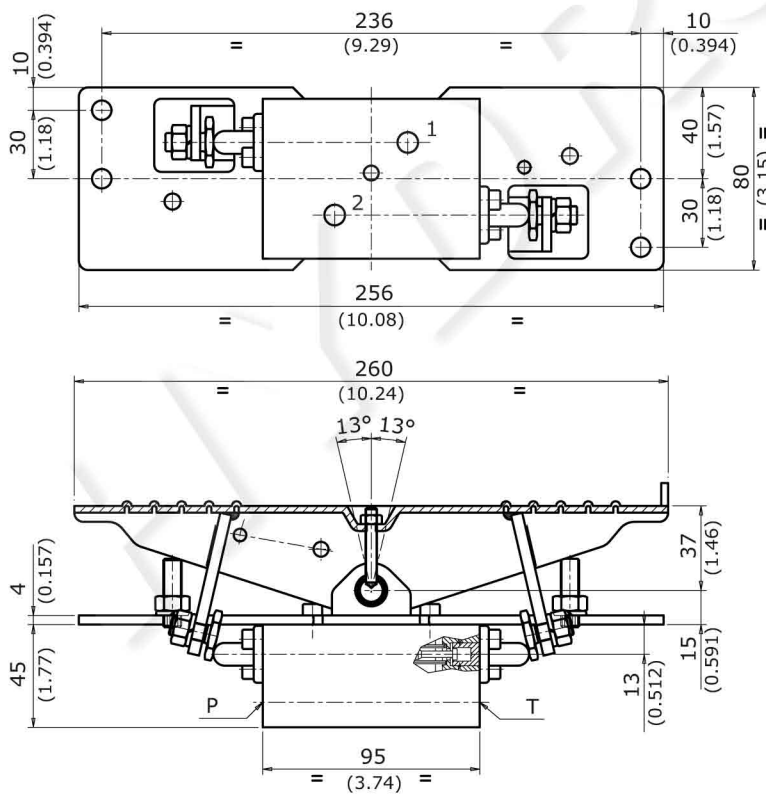
Nominal flow rating: **from 5 to 20 l/min
(from 1.32 to 5.28 US gpm)**

Weight: **3.4 Kg (7.5 lb)**

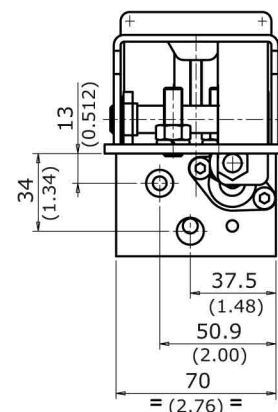
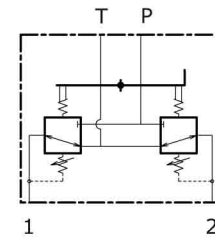
APPLICATIONS

Mini-excavators

DIMENSIONS



HYDRAULIC SCHEME

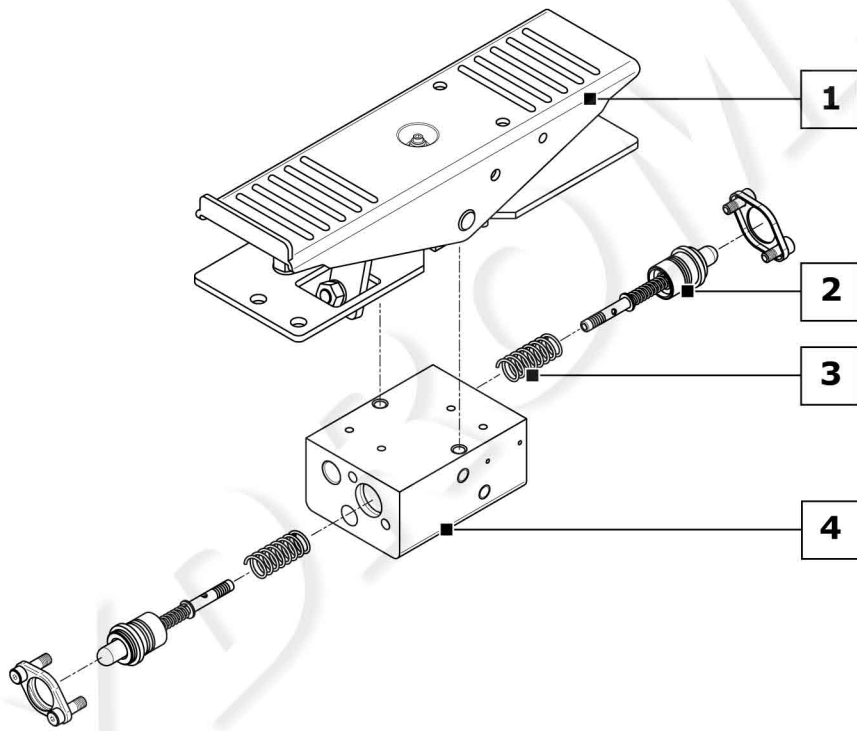


FOOT PEDAL 2 WORKING PORTS AND REDUCED BODY PROFILE **RCP**

ORDER EXAMPLE = RCP-/ 01S - A01 MA - RAG02

- RCP product type
- 1 CONTROL CLASSIFICATION:**
- 01S** control type
- 2 METERING CURVE:**
- A01** curve type
- 3 RETURN SPRING:**
- MA** spring return type
- 4 BODY ARRANGEMENT:**
- RA** body specification
- G02** body thread

Ordering row 2 and 3, must be repeated for each port
 complete sample: **RCP-/01S-A01MA-A01MA-RAG02**



1	CONTROL CLASSIFICATION:
01S	Foot pedal with spring return in neutral pos.
02S	Foot pedal with spring return in neutral position and handle arrangement
03S	Foot pedal with spring return in neutral pos., adjustable operation angle and handle arrangement
04S	Foot pedal with spring return in neutral position and adjustable operation angle
2	METERING CURVE:
A01	Linear metering curve with step
B01	Linear metering curve without step
C01	Broken line metering curve with step
D01	Broken line metering curve without step

3	RETURN SPRING:
MA	Preload 25 N (5.6 lbf) End stroke load 48 N (10.8 lbf)
MB	Preload 14 N (3.1 lbf) End stroke load 27 N (6.1 lbf)
MC	Preload 73 N (16.4 lbf) End stroke load 135 N (30.3 lbf)
MD	Preload 89 N (20.0 lbf) End stroke load 169 N (38.0 lbf)
4	BODY ARRANGEMENT:
RAG02	Standard Body (G 1/4 ports)
RAU02	Standard Body (9/16"-18 UNF ports)

RCP FOOT PEDAL 2 WORKING PORTS AND REDUCED BODY PROFILE

CONTROL KIT CLASSIFICATION

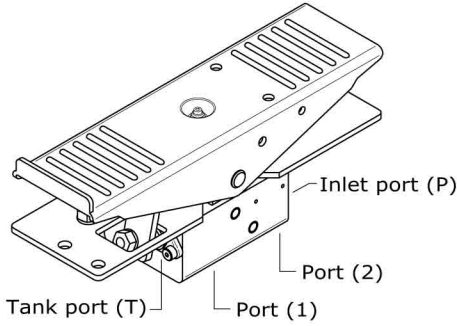
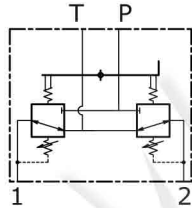
All controls installed on the foot pedal RCP are interchangeable. The controls shown correspond to standard configurations; for different applications contact our Sales Dept.

Code	Configuration	Schema	Description
01S			Foot pedal with spring return in neutral position
02S			Foot pedal with spring return in neutral position and handle arrangement
03S			Foot pedal with spring return in neutral position, adjustable operation angle and handle arrangement
04S			Foot pedal with spring return in neutral position and adjustable operation angle

FOOT PEDAL 2 WORKING PORTS AND REDUCED BODY PROFILE **RCP**

BODY ARRANGEMENT

The foot pedal RCP has only one setting body, the only variable is represented by a different thread.

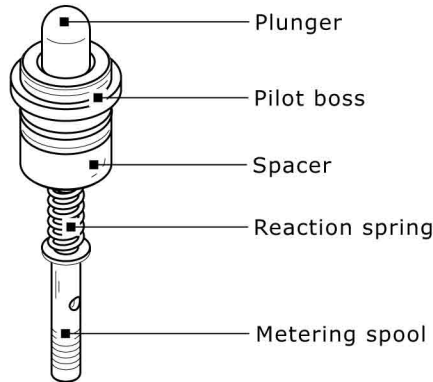
Code	Configuration	Schema	Description
RAG02			Standard body G 1/4 ports
RAU02			Standard body 9/16"-18 UNF ports

METERING CURVE CLASSIFICATION

All the remote control configurations imply the choice of a “metering curve” kit; the number of metering curves changes according to the number of product working ports. The metering curve classification depends on the working pressure (measured in bars) and stroke length (measured in mm).

The sketch here below shows a typical metering curve and the list of available curves.

For information on the complete list of curves, contact the manufacturer’s Sales department.



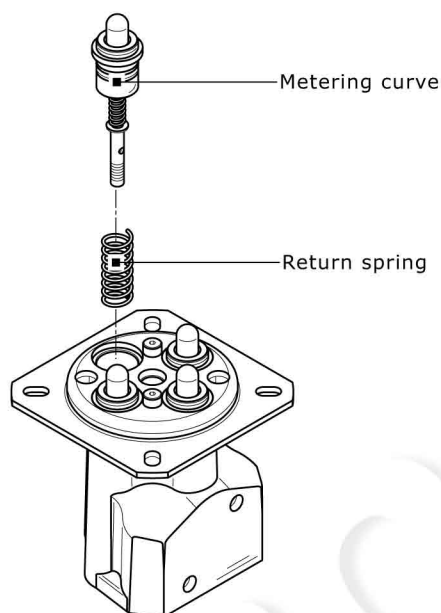
METERING CURVE CLASSIFICATION FOR RCX-RCM-RCB-RCP-RCF-RCD

Type	Diagram		Description				
A			Linear metering curve with step				
	CODE	PRESSURE		STROKE			
	A	B	C	D			
	bar (psi)	bar (psi)	mm (in)	mm (in)			
A01	5.8 (84)	19.5 (283)	1.5 (0.059)	7.5 (0.295)			
A02	5 (72.5)	25 (363)	1.5 (0.059)	7.5 (0.295)			
A03	2 (29)	13 (189)	1.5 (0.059)	7.5 (0.295)			
A04	6 (87)	40 (580)	1.5 (0.059)	7.5 (0.295)			
A05	0 (0)	64 (928)	1.5 (0.059)	7.5 (0.295)			
A06	4 (58)	17 (247)	1.5 (0.059)	7.5 (0.295)			
A07	5 (72.5)	15 (218)	1.5 (0.059)	7.5 (0.295)			
A08	2 (29)	18 (261)	1.5 (0.059)	7.5 (0.295)			
A09	5 (72.5)	20 (290)	1.5 (0.059)	6 (0.236)			
A10	2 (29)	8 (116)	1.5 (0.059)	7.5 (0.295)			
A11	4 (58)	10 (145)	1.5 (0.059)	7.5 (0.295)			
A12	11.5 (167)	32 (464)	1.5 (0.059)	7.5 (0.295)			
A13	10 (145)	20 (290)	1.5 (0.059)	7.5 (0.295)			
A14	7 (102)	17 (247)	1.5 (0.059)	7.5 (0.295)			
A15	7.5 (109)	29 (421)	1.5 (0.059)	7.5 (0.295)			
A16	6 (87)	22 (319)	1.5 (0.059)	7.5 (0.295)			
A17	0 (0)	20 (290)	1 (0.039)	7.5 (0.295)			
A18	4 (58)	16 (232)	1.5 (0.059)	7 (0.276)			

RETURN SPRING CLASSIFICATION

For all the remote control configurations, in each working port and on the relevant metering curve, a return spring must be selected.

The exploded view here below shows the example configuration of a 4 working port remote control; as you can see, a return spring is pictured at each metering curve. 4 types of return spring are currently available (see table).



CODE	PRELOAD	END STROKE LOAD
MA	25 N (5.6 lbf)	48 N (10.8 lbf)
MB	14 N (3.1 lbf)	27 N (6.1 lbf)
MC	73 N (16.4 lbf)	135 N (30.3 lbf)
MD	89 N (20.0 lbf)	169 N (38.0 lbf)

RETURN SPRING CLASSIFICATION FOR RCS AND RCT

The range of RCS and RCT tilting foot controls only includes the MD type return spring. The relative values are shown here below.

CODE	PRELOAD	END STROKE LOAD
MD	94 N (21.1 lbf)	149 N (33.5 lbf)