

Switch units (press control valves) type CR

The switch units type CR, available in three sizes, are intended for the control of bottom and top ram presses, which are driven by dual stage pumps. They consist of a 2/2-way ball seated directional valve, a ball type check valve and pressure valves.

Low pressure and high pressure circuit are joined during rapid transverse, as soon as the set pressure is achieved or exceeded the low pressure circuit is switched in idle circulation mode, whereas the high pressure circuit continues feeding the press cylinder.

An automatic pre-release ensures decompression without pressure surges. These switch units are designed for direct mounting onto our

hydraulic power packs type MP and RZ.

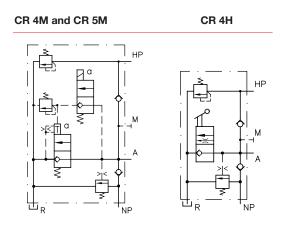


Nomenclature:	Valve combination consisting of: • 2/2-directional seated valve • Ball type check valve • Pressure valve					
Design:	Individual valve for pipe connection					
Actuation:	Solenoid Manual					
p _{max} :	LP 30 60 bar HP 400 bar					
Q _{max} :	LP 80 160 lpm HP 8 20 lpm A → R 160 300 lpm					

Basic types and general parameters

Basic type		Flow		Oper. pressure		Tapped ports			Application	
and size	Q _{max} (lpm)		p _{max} (bar)		(BSPP)					
	HP	LP	$A\toR$	HP	LP	A and R	HP	NP	М	
CR 4M	8	80	200	400	30 60	G 1	G 1/4	G 3/4	G 1/4	Bottom ram press, of self-
CR 4H	8	80	200	400	30 60	G 1	G 1/4	G 3/4	G 1/4	returning due to its weight
CR 5M	20	160	300	400	30 60	G 1 1/4	G 3/8	G 1	G 1/4	(min. load pressure > 2 bar)

Symbols



Solenoid voltage

- 24V DC; 230V AC 50/60 Hz
- Other voltage on request
- Plug with LED, improving EMC, (see also section "Additional information")

Additional versions

• Press control valve for bottom ram press with differential circuit (type CR 4M), retracting with high pressure stage only, cylinder area ratio $A_1:A_3\geq 8:1$

Order examples

CR 4M - G24

Switch unit CR, size 4, solenoid actuated solenoid voltage 24V DC

CR 4H

Switch unit size 4, manually actuated

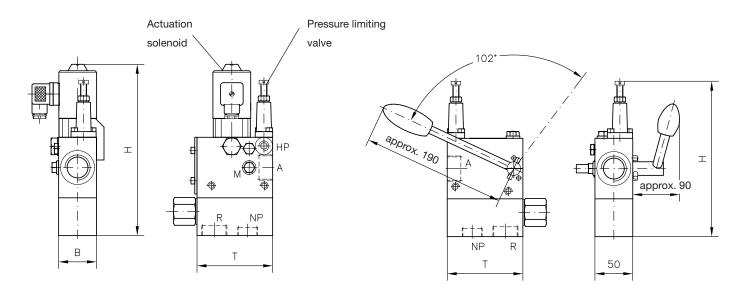
Dimensions

Type CR 4M

(see order example)

Type CR 4H

(see order example)



Basic type	н	В	Т	m (kg)
CR 4M	max. 247.5	50	100	5.2
CR 4H	max. 202	50	100	4.7
CR 5M	max. 277.5	63	135	10.0

All dimensions in mm, subject to change without notice!

Additional information

Switch units type CR
Two-stage valves type NE
Plug with LED etc.
Hydraulic power packs type RZ
D 7150
D 7161
D 7163
D 6920, D 6920 H

Hydraulic power packs
 type MP, MPN, MPNW, MPW
 D 7200, D 7200 H, D 7207

 See also section "Devices for special applications" (Press controls, Devices for up to 700 bar)

For page and section of the devices additionally listed, see type index