

GENERAL DESCRIPTION

List: RM20-1-May 2016

Hydraulic valve RM20 provides change of fluid flow direction, hydro-systems pressure restriction, pump unloading in neutral position of the spools. The valve RM20 is designed to be integrated in hydraulic systems of Mobile and Industrial Machines.

The valve assembly consists of:

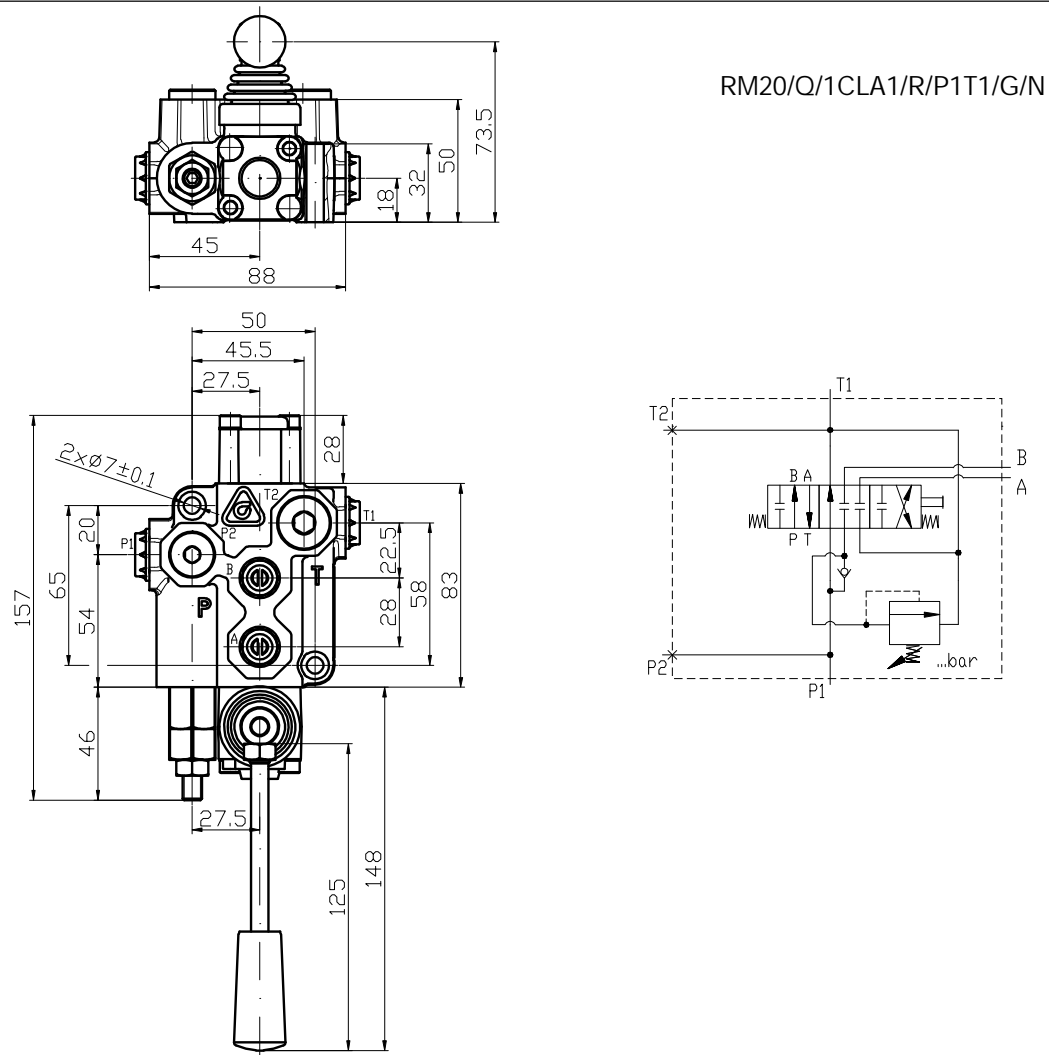
A body with integrated relief and check valve, spool, control and spring-centering group of the spool. The valve RM20 provides direct passing of the flow from the pump line to the tank at neutral position (open center).

Options "closed centre" and "carry over" are possible with additional adapters. There are different control options: spring-centering in "neutral" position, detent, automatic kick-out, hydraulic and electro-hydraulic control.

TECHNICAL DATA

Rated flow	20 l/min
Max. pressure	P=250 bar; T=30 bar; A,B= 250 bar
Spool stroke	±3,5 mm
Working temperature range	-15...+80 °C
Working liquid	hydraulic oil HLP DIN51524
Liquid viscosity	15...300cSt
Nominal filtration	ISO4406: 19/16 (recommended filter element - 0,025mm mesh)
Internal leakage at 120 bar , t=40°C and viscosity 46cSt	max. 8cm ³ /min; max 2cm ³ /min (special version)
Actuating force	less than 150N
Weight	1,7kg

DIMENSIONS



ORDERING CODE

RM20 / N / Q / 1 CL A 1 E1 / R / P1T1 / G / N

with check valve - omit
without check valve - N

Code	application
N	normal
T	tropical

standard port threads		
Code	P1, T1, T2	P2, A, B
G	G3/8"-A	G1/4"-A

Code	used connection ports
P1T1	P1 and T1
P1T2	P1 and T2
P2T1	P2 and T1
P2T2	P2 and T2

relief valve	Code
setting range 5...250bar. (example of required settings 180bar.)	Q
shut-off plug installed	K

Code	hydraulic power output
R	open center (port P connected to T - short plug)
W	closed center (port T1 plugged - long plug)
C	carry over (T1 - with power beyond sleeve)

spools	Code
	1
	2
	3
	4
	5*
	6
	7
	8*

* The scheme (spool code 5, 8) needs special body with extra machining and modified cap (C, CL, CLO control) for spool control code 5.

Code	spool control
1	
2	
3	
4	
5	
6	
7	

Code	lever position
A	at port side A (standard)
B	at port side B

Code	micro switch: max. current/voltage - 5A/250V AC protection - IP67 contact configuration
	DIN 43650-A
omit	without microswitch
E1	
E2	
E3	

operation control	Code	operation control	Code	operation control	Code
without standard hand lever 	C	with standard hand lever 	CL	with standard hand lever at 180° 	CLO
with cable control Cables, single levers and joystick controls - on request	H	without lever, with dust-proof plate 	Z		