GOPTONI ) MONOBLOCK DIRECTIONAL CONTROL VALVE TYPE RMF80 WITH FLOW CONTROL

#### GENERAL DESCRIPTION

#### List: RMF80-May 2017

Hydraulic valve RMF80 provides change of fluid flow direction, hydro-systems pressure restriction, pump unloading in neutral position of the spools. Integrated pressure compensated flow control valve provide flow adjustment of the priority flow(PF) and exceeding flow (EF) is sent to tank. Best performance of the valve is assured when inlet flow is at least 10% bigger than priority flow. Priority flow is constant regardless of pressure variations, thus flow out the work port remains smooth and constant regardless of changes in load conditions. The valve RM80 is designed to be integrated in hydraulic systems of Mobile and Industrial Machines.

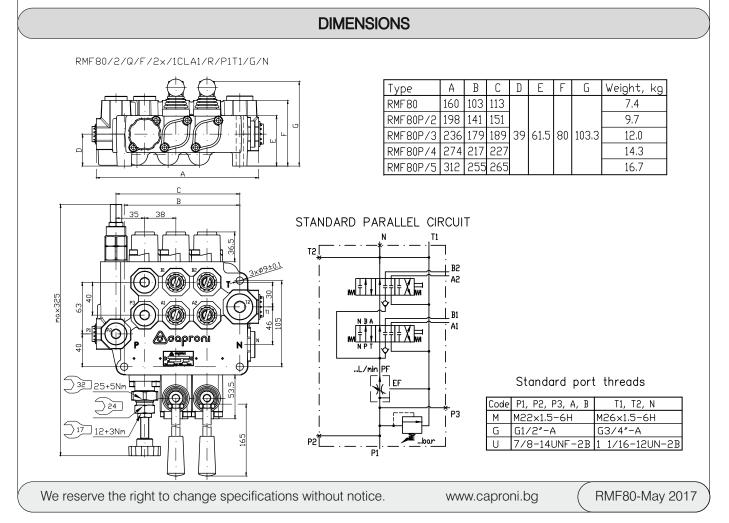
The valve assembly consists of:

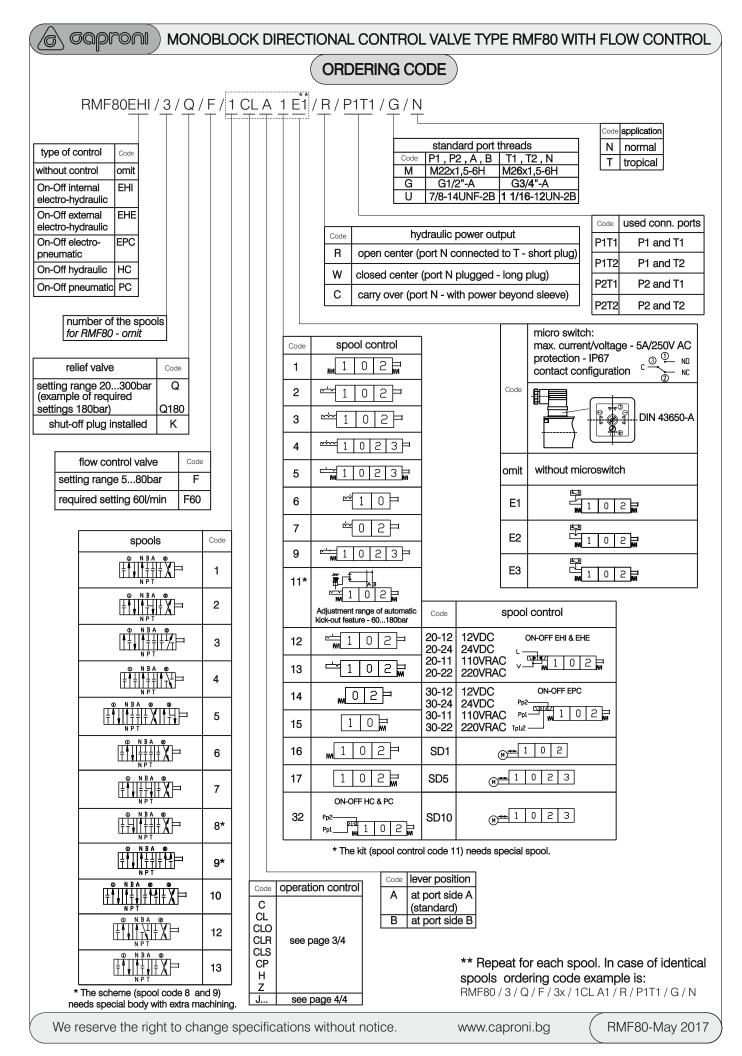
A body with integrated relief and check valves, flow control valve, spools, control and spring-centering group of the spools. The valve RMF80 provides distribution of the working liquid and direct passing of the flow from the pump line to the tank at neutral position (open center). Options "closed centre" and "carry over" are possible with additional adapters. There are different control options: spring–centering in "neutral" position, detent, automatic kick-out, hydraulic, electro-hydraulic control, pneumatic and electro-pneumatic control.

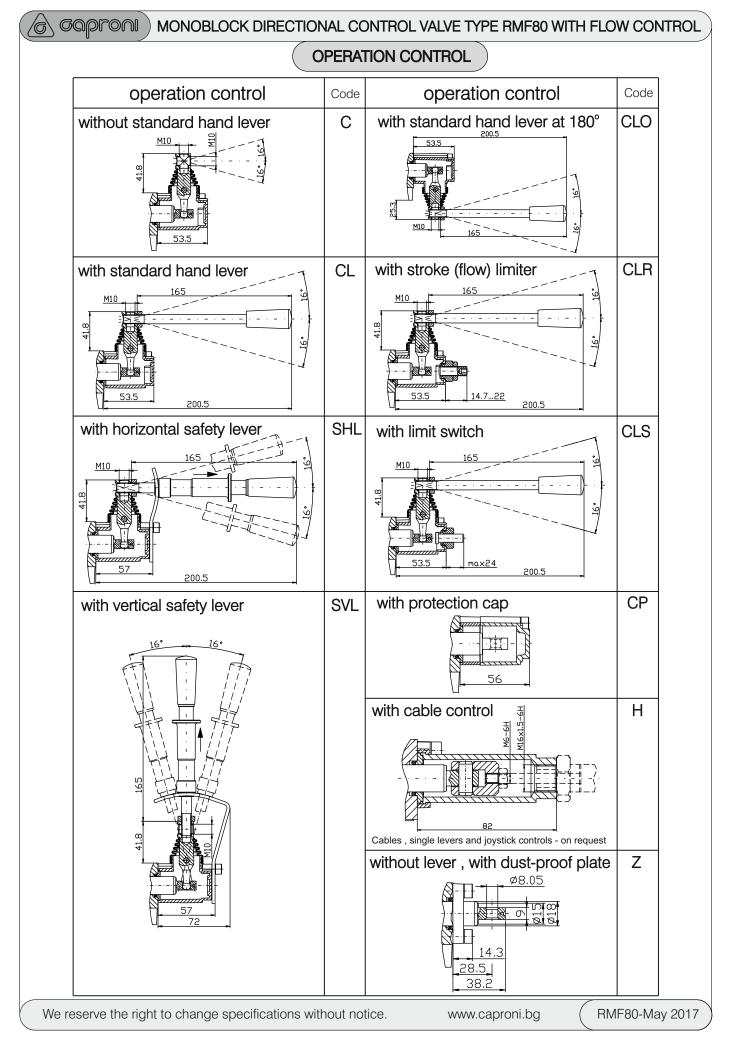
### TECHNICAL DATA

Rated flow Max. inlet flow rate Flow control valve setting range Max. pressure Spool stroke Working temperature range Working liquid Liquid viscosity Nominal filtration Internal leakage at 120 bar ,  $t=40^{\circ}$ C and viscosity 46cSt Actuating force 80 l/min 95 l/min 5...80 l/min. P=250 bar; T=50 bar; A,B= 300 bar ±7 mm -15...+80 °C hydraulic oil HLP DIN51524 15...300cSt ISO4406: 19/16 (recommended filter element - 0,025mm mesh) max\_8cm<sup>3</sup>/min; max\_2cm<sup>3</sup>/min (special version)

max. 8cm<sup>3</sup>/min; max 2cm<sup>3</sup>/min (special version) less than 280N



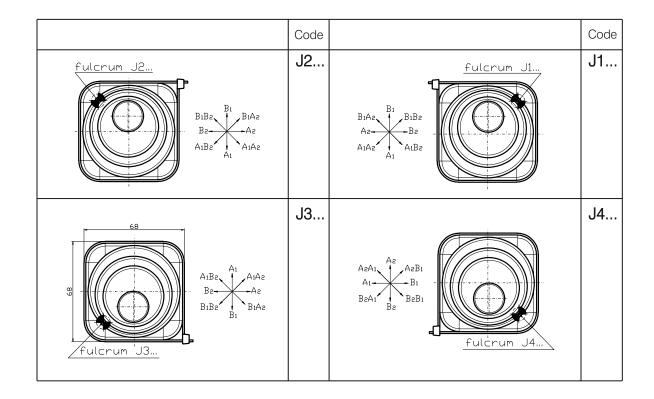




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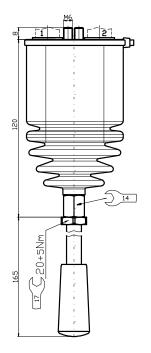
## **OPERATION CONTROL**

Working scheme by assembly on the side of threaded ports A (standard)



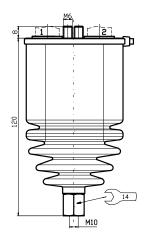
# joystick with standard hand lever

Code: J1L ; J2L ; J3L ; J4L



joystick without standard hand lever

Code: J1 ; J2 ; J3 ; J4



We reserve the right to change specifications without notice.