

Modular Unit 10MB-300/900/1500

TECHNICAL DATA

Description	Symbol	Unit	Value		
Flow (Δp 32 bar)	Q_{max}	l/min	10MB-300	10MB-900	10MB-1200/1500
Flow area		l/min	250-320	850-1000	1100-1550
Max. operating pressure in ports P, A and B	P_{max}	bar	300/250 900-1500/350		
Recommended max. pressure in port T. (See Note 1.)	T_{max}	bar	20		
Directional valve pilot pressure	P	bar	5-20		
Weight basic version	m	kg	10MB-300/900	6MB-1200/1500	
			27/185	455	
Hydraulic fluid			Mineral oils for hydraulic system		
Viscosity range:	ν	m ² /s	10 to 350 (cST)		
Viscosity index:	VI		> 120		
Filtration, recommended filter with $\beta_{20} \geq 100$			Class 9 according to NAS 1638, 18/15 according to ISO 4406		
Fluid temperature range:	T		-20°C to + 70°C		
Ambient temperature range	T		-20°C to + 50°C		
Standard Body Material			EN-GJS-400-15 (GGG 40)		
Standard O-rings			Nitrile shore 70		

Note1: Be aware that pressure on the tank port T is direct additive to valve setting for pressure relief valve item D, and pressure reducing valve item R (If selected option R). Pressure peaks in T port can influence on the stability of the system, particular proportional remote control of main directional valve.

Modular Unit 10MB-300/900/1500

Interfaces:

Connections			
Ports	Dimensions 100MB-300	Dimensions 100MB-900	Dimensions 100MB-1200/1500
P, A and B	1 ¼" SAE 3000	2" SAE 6000	2 x 2" SAE 6000
T	1 ¼" SAE 3000	2 ½" SAE 3000	2 x 3" SAE 3000
V, X, Y, TA, TB	⅜" BSPP	⅜" BSPP	⅜" BSPP
DRAIN	½" BSPP	½" BSPP	2 x ½" BSPP
TPP, TPT, TPA and TPB	¼" BSPP	¼" BSPP	¼" BSPP
Mounting Screws:	4 x M12	4 x M16	4 x M20

Modular Unit 10MB-300/900/1500

INSTALLATION

The Modular unit 10MB is installed with 4 screws to a bracket. Please refer to 'Interfaces' in section 'TECHNICAL DATA', for details about screws and o-rings.

OPERATION

Manual control is performed by the hand lever. The valve is delivered with a centring spring, which means that main spool will return to the neutral position after operating the hand lever.

Option 37 (Manual/remote operated):

The directional valve is prepared to be hydraulically proportional remote controlled. An external pilot pressure moves the spool to the requested position Pilot pressure 5-20 bar. The valves are equipped with a hand lever for overriding the pilot pressure.

MAINTENANCE

Check the valve for proper function. Visually check the valve and if required, paint unpainted (damaged) areas.

CAUTION: Do not paint the hand levers shaft seals.

SPARE PART

Seal Kit Set is available.

STORAGE

If storage longer than 6 months is expected, the valve must be kept in a dry room, free from dust and protected against sudden large temperature variations. For storage longer than 12 months, the valve must be filled with inhibition oil. Before use check all visible seals and flush with clean oil.

MARKING

Inlets and outlets are marked, refer to figure in section 'GENERAL DESCRIPTION'.