

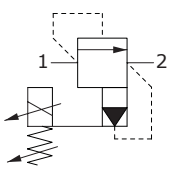
MP..T Type
pressure relief valves - 2 way

- Solenoid proportional type, pilot operated
- Decreasing pressure with increasing current (NC)
- Spool type
- From SAE10 to SAE12 cavities

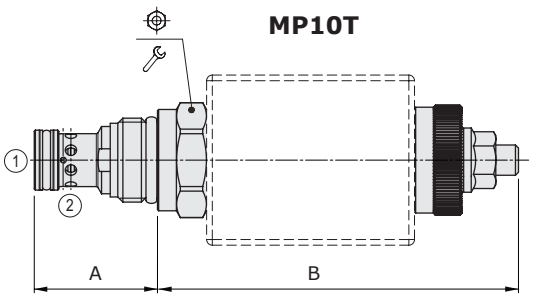
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C *(104°F)* temperature.

		MP10T	MP12T
Max. flow		60 l/min *(16 US gpm)*	120 l/min *(31.7 US gpm)*
Max. pressure		350 bar *(5100 psi)*	
Oil leakage	at 80% of max. pressure setting	<150 cm³/min *(9.15 in³/min)*	<180 cm³/min *(<10.1 in³/min)*
Fluid		mineral based oil	
Viscosity		10-200 cSt	
Max level of contamination		18/16/13 ISO4406	
Fluid temperature	*with NBR seals* *with FPM seals*	from -20°C *(-4°F)* to 80°C *(176°F)* from -20°C *(-4°F)* to 100°C *(212°F)*	
Environmental temp. for working conditions		from -40°C *(-40°F)* to 100°C *(212°F)*	
Cavity		SAE 10/2	SAE 12/2
Coil type*		BH or BQP19	
Nominal voltages		12 VDC - 24 VDC	
Power rating		20.4 W (BH) - 15 W (BQP19)	
Max control current		12 V -> 1.70 A - 24 V -> 0.85 A (BH) 12 V -> 1.25 A - 24 V -> 0.63 A (BQP19)	
Dither frequency		200 Hz	200 Hz
Hysteresis		<5%	
Weight		0.77 kg *(1.70 lb)*	0.92 kg *(2.03 lb)*

NOTE - For different conditions, please contact Walvoil Sales Dpt. - For coils further features see from page 206.



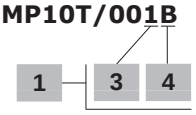
MP10T



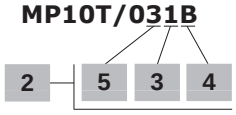
Valve type	A		B				
	mm	*in*	mm	*in*		Nm	*lbft*
MP10T	32.6	*1.28*	96.5	*3.80*	27	50	*37*
MP12T	45	*1.81*	113	*4.45*	32	80	*59*

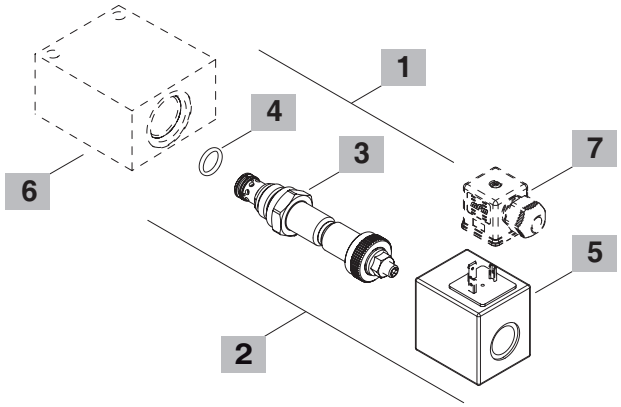
Ordering codes and description composition

MP10T/001B



MP10T/031B





1 Cartridges

TYPE	CODE	DESCRIPTION
SAE cavity 10/2		
MP10T/001B	0MP10002051	Pressure range **1**
MP10T/002B	0MP10002052	Pressure range **2**
MP10T/003B	0MP10002053	Pressure range **3**
SAE cavity 12/2		
MP12T/001B	0MP12002028	Pressure range **1**
MP12T/002B	0MP12002029	Pressure range **2**
MP12T/003B	0MP12002030	Pressure range **3**
MP12T/004B	0MP12002035	Pressure range **4**

2 Complete cartridges

TYPE	CODE	DESCRIPTION
SAE cavity 10/2		
MP10T/031B	0MP10002035	Pressure range **1**, 12VDC
MP10T/032B	0MP10002036	Pressure range **2**, 12VDC
MP10T/033B	0MP10002037	Pressure range **3**, 12VDC
SAE cavity 12/2		
MP12T/031B	0MP12002020	Pressure range **1**, 12VDC
MP12T/032B	0MP12002021	Pressure range **2**, 12VDC
MP12T/033B	0MP12002022	Pressure range **3**, 12VDC
MP12T/034B	0MP12002027	Pressure range **4**, 12VDC

3 Pressure range

TYPE	DESCRIPTION
1	Pressure range 8÷130 bar *(116÷1900 psi)*
2	Pressure range 8÷180 bar *(116÷2600 psi)*
3	Pressure range 8÷240 bar *(116÷3500 psi)*
4	Pressure range 8÷300 bar *(116÷4350 psi)*

Note: for further pressure range contact Sales Dept.

4 Seals

TYPE	DESCRIPTION
B	**NBR (Buna)** o-ring seals, std configuration
V	**FPM (Viton)** o-ring seals, contact Sales Dept.

5 Coils

TYPE	CODE	DESCRIPTION
2) BH 12VDC	4SLD001200	12VDC-ISO4400 coil
3) BQP19 12VDC	4SL5000126	12VDC-ISO4400 coil
4) BH 24VDC	4SLD002400	24VDC-ISO4400 coil
5) BQP19 24VDC	4SL5000245	24VDC-ISO4400 coil

For complete coils list see from page 206

6 Valve body

TYPE	CODE	DESCRIPTION
SAE 10/2-G 3/8	3CC1020C11	Aluminium body for cavity 10 valve, G 3/8 std thread
SAE 12/2-G 1/2	3CC1220D11	Aluminium body for cavity 12 valve, G 1/2 std thread

Note: aluminium body can stand up to 210 bar *(3050 psi)*

For steel bodies or different threading see from page 215

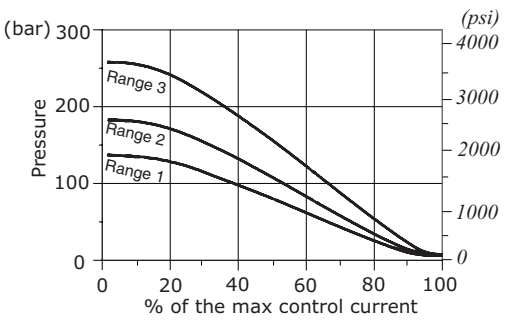
7 Connector

TYPE	CODE	DESCRIPTION
ISO4400	4CN1009995	Connector

For complete connectors list see from page 206

Rating diagrams

MP10T pressure setting vs. % max. control current
at 5 l/min *(1.32 US gpm)*



MP10T pressure vs. flow 1->2
for % of control current - Pressure range **1 -**

