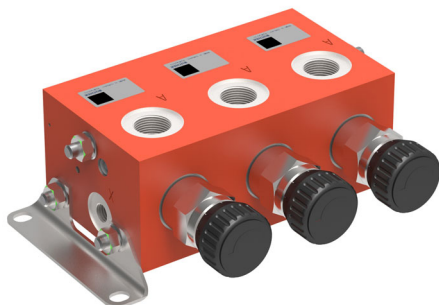


## 2- and 3-Way Flow Control Valve

Series MTKK.. and MTKL..



- can be individually combined into customised functional systems
- rugged, uncomplicated, reliable operation
- flow rates are unaffected by temperature change or when the higher load pressure alternates between the outlet ports
- these valves do not require maintenance. This lowers costs and reduces the risk of a system failure.
- ZnNi coating ( $\geq 480\text{h}$  DIN EN ISO 9227 NS)

### 1 Description

Series MTK flow control valves provide a constant, pressure-compensated, flow of hydraulic fluid. Any surplus inlet flow can be used elsewhere. The constant flow setting can be fixed or adjustable. The individual units can be block-

mounted; the required number of individual functions can be assembled into one valve block without any interconnecting pipework. Valve blocks can incorporate both series and parallel circuits.

### 2 Symbols

#### 2.1 Valve type MTKK

For use with fixed delivery or constant pump		
Inlet section MTKKE..	Intermediate section MTKKZ..	End section MTKKA..

1) With fixed/ constant pump, B is plugged except when the actuator flow A is being fed in again for series supply to a down-stream flow control valve.

2) Can be plugged when serial/ series circuit is not required. Surplus flow is then lead out of B.

3) P plugged when in series circuit.

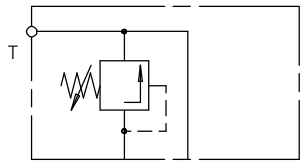
#### 2.2 Valve type MTKL

For use with Load Sensing pump		
Inlet section MTKLE..	Intermediate section MTKLZ..	End section MTKLA..

4) Can be used as optional P inlet. Plug unused ports.

**2.3 Additional section**

Inlet or Intermediate section with pressure relief valve  
MTKDEPB-1M22



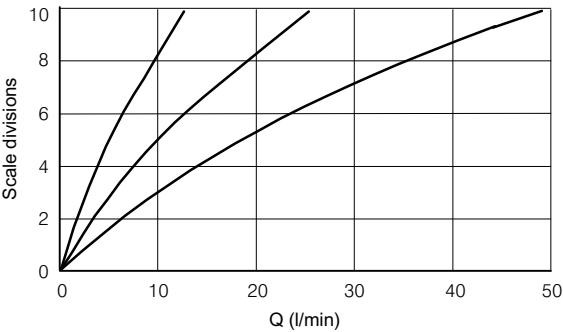
**3 Technical data**

General characteristics		Description, value, unit
Operating pressure	bar	max. 315
Inlet flow	L/min	max. 65
Controlled flow, fixed setting (for other contact Bucher)	L/min	3, 6, 9, 12, 16, 20, 25
Controlled flow, adjustable ( $Q_0$ to $Q_{max}$ = approx. one turn at the rotary knob)	L/min	VE = 0 ... 6   VB = 0 ... 25 VG = 0 ... 8   VH = 0 ... 35 VA = 0 ... 12   VC = 0 ... 50 VD = 0 ... 65
Min. pressure drops, $\Delta p$ at the pressure compensator	bar	3 ... 5
Fluid temperature range	°C	-20 °C ... +80 °C
Recommended viscosity range	mm <sup>2</sup> /s (cSt)	10 ... 300
Leakage, controlled flow (with unloaded surplus flow)	cm <sup>3</sup> /min	max. 50 cm <sup>3</sup> /min
Fluids		mineral oil to DIN 51524 (other fluids on request)
Max. Admissible level of contamination of the hydraulic fluid		ISO 4406 class 20/18/15

**4 Characteristic curves**

Flow P -> A

The values below relate to a viscosity of 33 mm<sup>2</sup>/s (cSt)

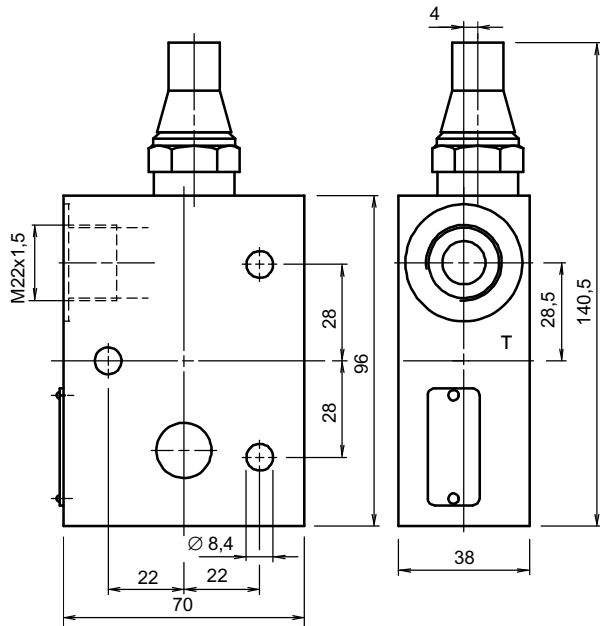


The graphs are only intended to show the general nature of the function.  
No definitive relationship between flow and scale should be assumed.

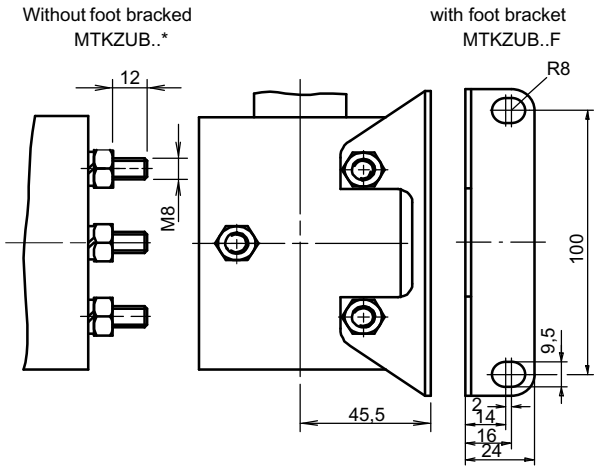


6.3 Additional section

Inlet-/ Intermediate section with  
pressure relief valve MTKDEP..



6.4 Assembling of foot bracket



7 Ordering code

7.1 Flow control valve

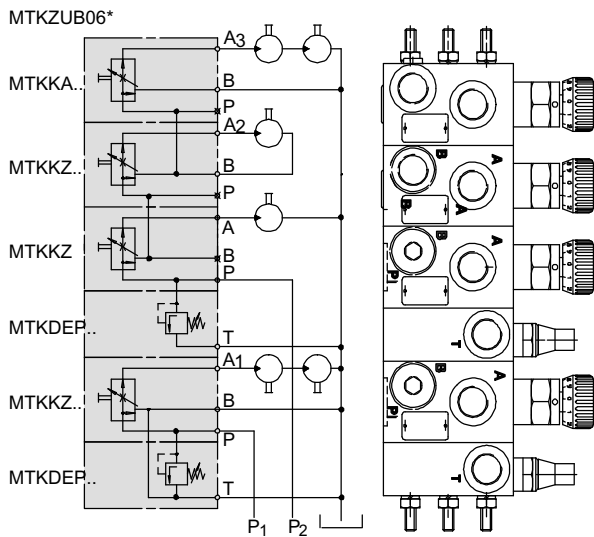
				M	T	K	L	Z	V	B	-	0	M	2	2
Flow control valve															
Function	for LS Pump		= L												
	for fixed/ constant pump		= K												
Type	Inlet section		= E												
	Intermediate section		= Z												
	End section		= A												
Constant flow	fixed setting	9 l/min	= 09												
		12 l/min	= 12												
		etc.	= etc.												
	manually adjustable	0 to 6 l/min	= VE	0 to 25 l/min	= VB										
		0 to 8 l/min	= VG	0 to 35 l/min	= VH										
		0 to 12 l/min	= VA	0 to 50 l/min	= VC										
		0 to 65 l/min	= VD												
Desing number		to be inserted by the factory													
Port threads		A, B, P and T: M22 x 1,5		= M22											

7.2 Additional section (see sect. 2.3 and 6.2)

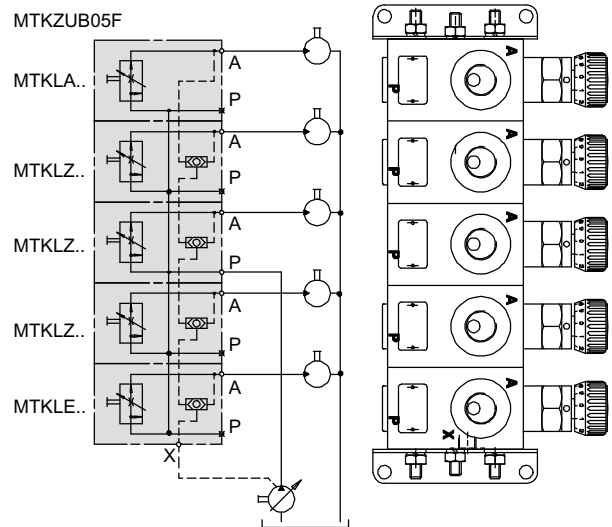
MTKDEPB-1M22      Ordering no. 017640

## 8 Applications

### 8.1 Type MTKK..



### 8.2 Type MTKL..



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Classification: 430.310.330.