

BEIJING HUADE HYDRAULIC INDUSTRIAL GROUP CO.,LTD.	<b>Throttle and throttle check valve type MG/MK</b>			RE:27219/12.2004
	Sizes 6 to 30	up to 31.5MPa	up to 400 L/min	Replaces; RE27219/5.2001

**Features:**

- Suitable for direct in-line mounting
- Pressure and viscosity dependent



**Functional description**

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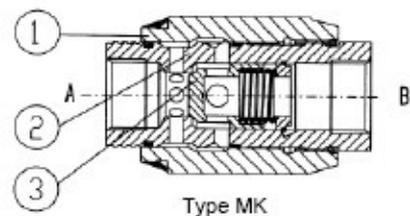
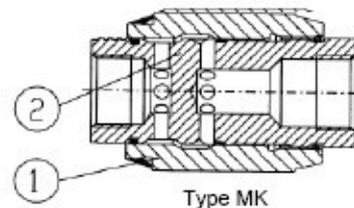
Valve types MG and Mk are pressure and viscosity dependent throttle and throttle check valves.

**Type MG (throttle valve)**

This valve throttles in both flow directions. Fluid flows through side drillings to the throttling point. This is formed between the housing (2) and the adjustable sleeve (1). The throttle cross-section may be steplessly varied by rotating the adjustable sleeve (1).

**Type MK (throttle check valve)**

With flow passing through the valve in throttling direction, the spring and the fluid presses the poppet onto its seat, thus blocking the flow. Fluid flows via the side drillings to the throttling point, which is formed between the housing (2) and the adjustable sleeve (1). In the opposite direction, fluid pressure acts on the face of the poppet, thus lifting it from its seat and allowing fluid to flow freely, unthrottled, through the valve. At the same time, part of the fluid flowing through the annular clearance produces the desired self-cleaning effect.



Symbols

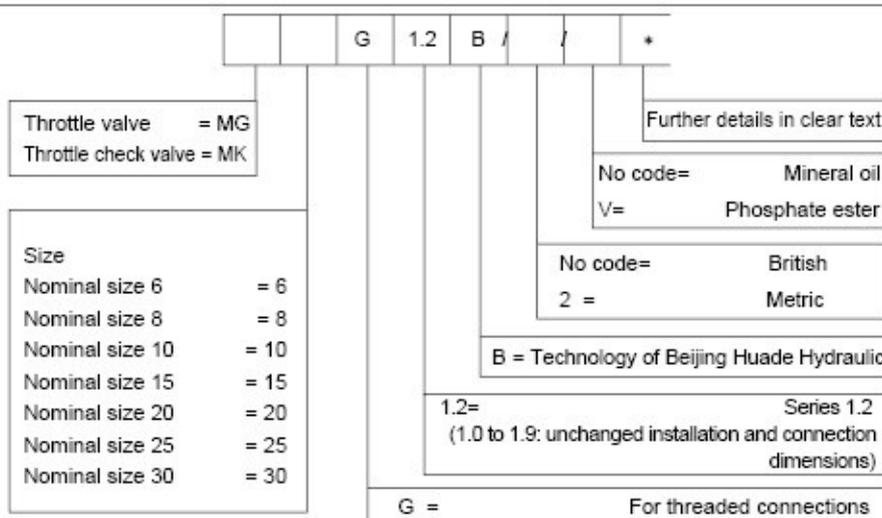


Type MG



Type Mk

**Ordering details**

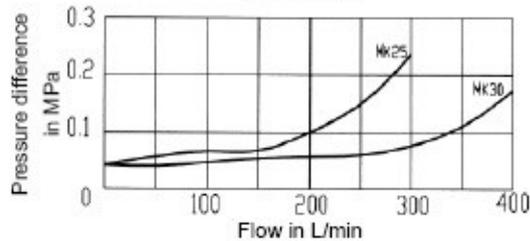
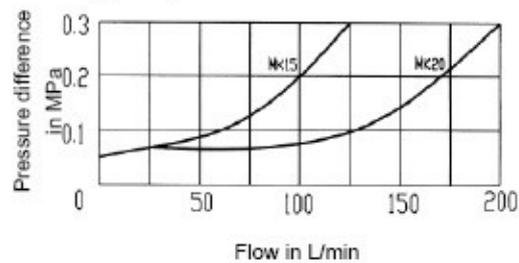
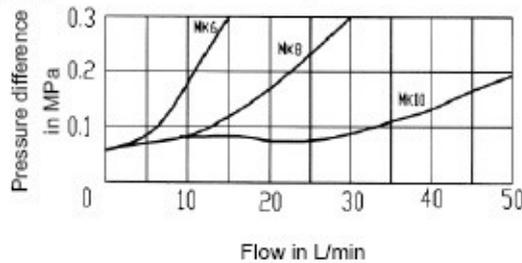


**Technical data** (for applications outside these parameters, please consult us!)

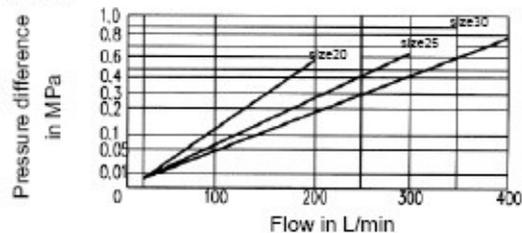
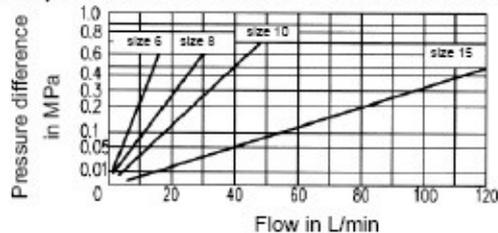
Size		6	8	10	15	20	25	30
Maximum flow (L/min)		15	30	50	140	200	300	400
Pressure (MPa)		up to 31.5						
Cracking pressure (MPa)		0.05 (Type MK)						
Pressure fluid		Mineral oil or Phosphate ester						
Viscosity range (mm <sup>2</sup> /s)		10 to 800						
Pressure fluid temperature range (°C)		-30 to +80						

**Characteristic curves** (measured at  $v = 41 \text{ mm}^2/\text{s}$  and  $t = 50 \text{ °C}$ )

$\Delta p$ - $q_v$  Characteristic curves via open check valve with closed throttle (type MK)

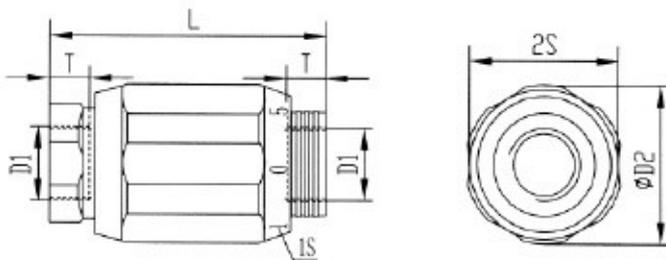


$\Delta p$ - $q_v$  Characteristic curves via open throttle (types MG and MK)



**Unit dimensions**

(Dimensions in mm)



Size	D1		$\Phi$ D2	L	1S	2S	T	Weight (kg)
6	M14x1.5	G1/4"	34	65	22	32	12	0.3
8	M18x1.5	G3/8"	38	65	24	36	12	0.4
10	M22x1.5	G1/2"	48	80	30	46	14	0.7
15	M27x2	G3/4"	58	100	41	55	16	1.1
20	M33x2	G1"	72	110	46	70	18	1.9
25	M42x2	G1 1/4"	87	130	55	85	20	3.2
30	M48x2	G1 1/2"	93	150	60	90	22	4.1