Restrictive Valve and Restrictive Check Valve

Model: MG/MK...1X



- ♦ Size 6 to 30
- ◆ Maximum working pressure 350 bar
- ◆ Maximum working flow 400 L/min

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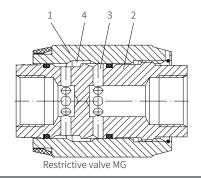
Features

- Suitable for direct in-line mounting
- Performance depends on pressure and viscosity

The MG and MK valve is a restrictive valve and restrictive check valve which is related to oil pressure and viscosity.

Model MG (restrictive valve)

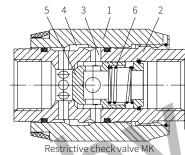
This valve throttles in both flow directions. The hydraulic oil flows through side hole (3) to the throttling orifice (4) which is formed by valve body (2) and adjusting sleeve (1). The cross-section of the throttling orifice (4) can be adjusted infinitely by rotating the adjusting sleeve (1).



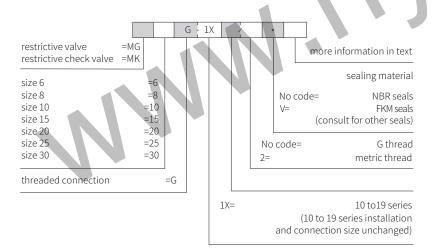
Model MK (restrictive check valve)

When the fluid flows through the valve in throttling direction, the pressure oil and spring (6) presses the spool (5) onto the valve seat, then the connection is blocked. The hydraulic oil flows through the side hole (3) to the throttling orifice (4) which is formed by valve body (2) and adjusting sleeve (1).

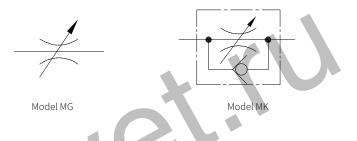
In the opposite direction, the pressure acts on the face of the spool (5) to open the check valve and allow the fluid to flow through the check valve without throttling. At the same time, parts of the hydraulic oil flows through the annular groove to achieve the desired self-cleaning effect.



Models and specifications



Functional symbols



Technical parameters

Overview												
Installation position			Optional									
Environment temperature range	Environment temperature range °C					-20 to +50						
Weight		6	8	10	15	20	25	30				
	kg	0.3	0.4	0.7	1.1	1.9	3.2	4.1				
Hydraulic												
Maximum working pressure	bar	315										
Cracking pressure MK model	bar	0.5										
Maximum flow	L/min	400										
Oil fluid		Mineral oil (HL, HLP) ¹⁾ in accordance with DIN 51524; Fast living organisms Degraded oil according to VDMA 24568; HETG (Rapeseed oil) ¹⁾ ; HEPG (Polyethyleneglycol) ²⁾ ; HEES (Synthetic Fats) ²⁾										
Oil temperature range	°C	-30 to +80 (NBR seal) , -20 to +80 (FKM seal)										
Viscosity range	mm²/s	10 to 800										
Cleanliness of oil		The maximum allowable pollution level of oil is ISO4406 class 20 / 18 / 15										

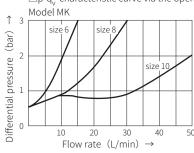
1) The oil must meet the cleanliness degree requested by the components in the hydraulic system. Effective oil filtration can prevent failure and increase the service life of the components.

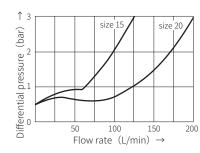
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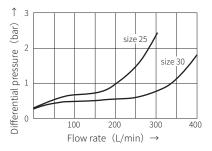
Component size Size unit: mm

Model MK and MG

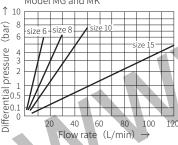
(Measured when using HLP 46, ϑ_{oil} = 40°C \pm 5°C)

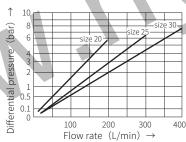


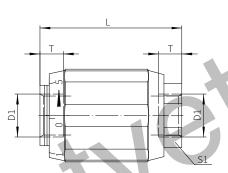


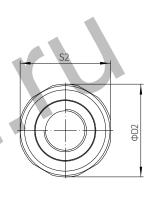


 $\triangle p$ -q_v-characteristic curve via the opened throttle Model MG and MK









Size		D1		L1	S1	S2	T1
Size	G	Metric	D2	LI	21	32	11
6	G1/4	M14×1.5	34	65	22	32	12
8	G3/8	M18×1.5	38	65	24	36	12
10	G1/2	M22×1.5	48	80	30	46	14
15	G3/4	M27×2	58	100	41	55	16
20	G1	M33×2	72	110	46	70	18
25	G1 1/4	M42×2	87	130	55	85	20
30	G1 1/2	M48×2	93	150	60	90	22

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