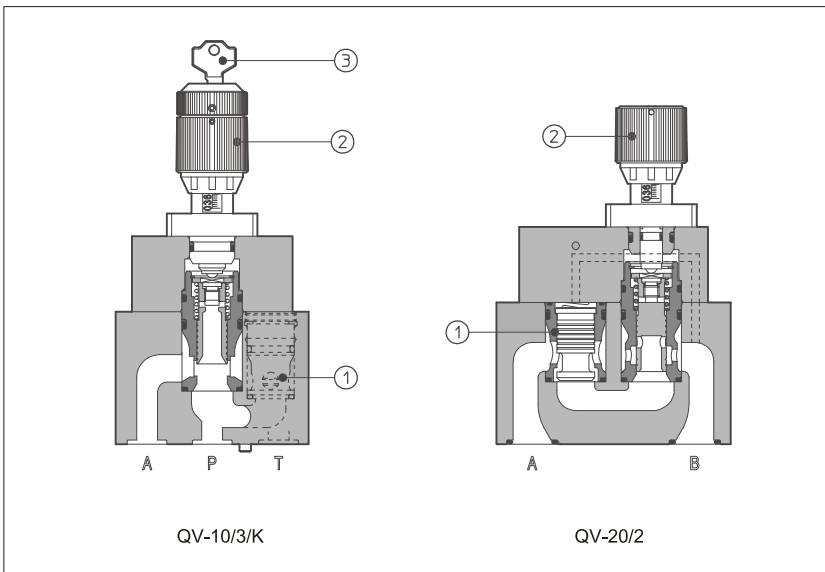


QV-10,QV-20型流量控制阀

压力补偿，两通或三通，ISO 6263标准, 尺寸规格10，20通径



QV是带有压力补偿器①的流量控制阀，即流量与压力变化无关。此类阀适用于液压系统中。

二通阀通常配有单向阀，以便使反向自由流动。

旋转微调螺母②即可调节流量的大小。

顺时针转动增大流量调节(通流口增大)。

调节螺母带固定锁③可按要求提供。

QV-10=ISO6263标准, 10通径 安装界面:

最大流量60l/min;

最高压力250bar。

也可提供最大流量为65和90L/min的安装尺寸同10通径方向阀的手动流量阀QVK-10/**。

QV-20=ISO6263标准, 20通径 安装界面:

最大流量180l/min(三通);

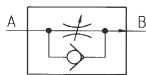
最高压力250bar。

1 型号

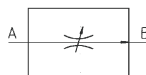
QV	-10	/	3	/K	**	/	*
压力补偿 流量控制阀				系统油液: /WG=水乙二醇 /PE=磷酸酯			
尺寸: 10=ISO6263标准, 10通径 20=ISO6263标准, 20通径				设计号			
2=两通阀 3=三通阀				选项: /K=调节螺母带固定锁。 仅对两通阀 /V=不带旁路单向阀			

2 液压特性

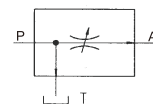
液压符号



两通阀



不带单向阀的两通阀



三通阀

阀型号	QV-10/2	QV-10/2/V	QV-10/3	QV-20/2	QV-20/2/V	QV-20/3
最大设定流量 [l/min]	65	60		130	160	180
最小设定流量 [cm ³ /min]	120			120		
单向阀B→A最大流量(对两通阀) [l/min]	80	-	-	160	-	-
调节压差 Δp [bar]	6			7		
P口最大流量(仅对三通阀) [l/min]	-	-	60	-	-	180
最大压力 [bar]	250			250		

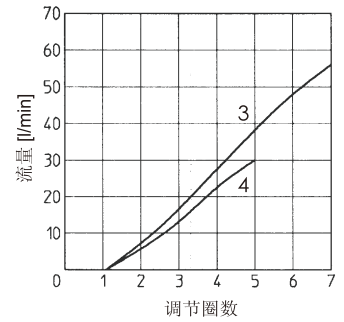
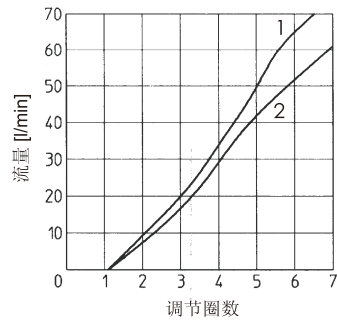
3 QV-10,QV-20型流量控制阀主要特性

安装位置	任意位置
安装面精度	表面粗糙度Ra0.4, 平面度0.01/100 (ISO 1101)
环境温度	从-20℃到+70℃
油液种类	符合DIN51524~535的液压油；其他介质见 1 节
推荐粘度	40℃时为15~100mm²/s (ISO VG15~100)
油液清洁度	符合ISO19/16标准 (建议用 25 μ m 和 β _{0.5} ≥ 75 的过滤器)
油液温度	-20℃~60℃ (标准密封和/WG密封) ； -20℃~80℃ (/PE密封) 。

4 QV-10的曲线: 基于油温50℃，ISO VG46 标准液压油

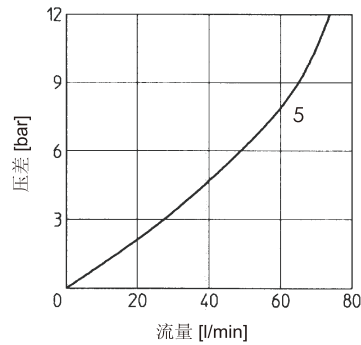
4.1 调节曲线

- 1=QV-10/2
2=QV-10/2/V
3=QV-10/3进油口流量 60l/min
4=QV-10/3进油口流量 30l/min



4.2 流经单向阀从B→A(两通阀)的 Q/Δp 曲线

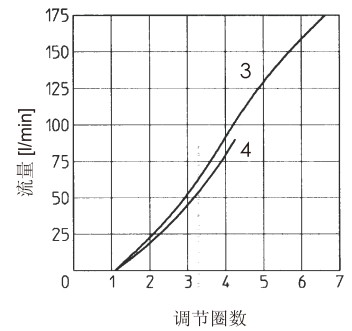
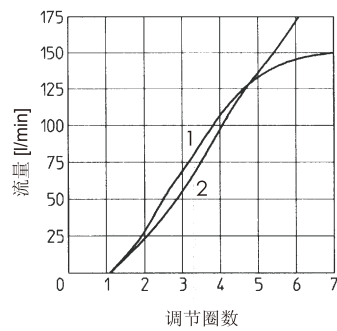
- 5=QV-10/2



5 QV-20的曲线: 基于油温50℃，ISO VG46标准

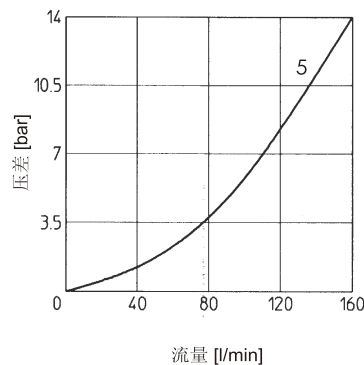
5.1 调节曲线

- 1=QV-20/2
2=QV-20/2/V
3=QV-20/3进油口流量 180l/min
4=QV-20/3进油口流量 90l/min



5.2 流经单向阀从B→A(两通阀)的 Q/Δp 曲线

- 5=QV-20/2



两通阀

ISO 6263: 1997
 安装界面: 6263-06-05-0-97
 固定螺钉: 4个M8×80的沉头螺钉, 强度等级为12.9级
 紧固扭矩=35Nm
 密封圈: 3个121
 A口、B口尺寸: Ø14mm
 注: L口不用

质量: 7.3kg

三通阀

ISO 6263: 1997
 安装界面: 6263-06-07-0-97
 固定螺钉: 4个M8×80的内六角螺钉, 强度等级为12.9级
 紧固扭矩=35Nm
 密封圈: 4个121
 A口、P口、T口尺寸: Ø14mm
 注: L口不用

质量: 7.3kg

选项/K

Technical Drawing Details:

- Front View (Left):** Shows the valve body with a width of 125 mm and a height of 65 mm. The top flange has a diameter of $\phi 10.5$ and the bottom flange has a diameter of $\phi 16.5$. A small dimension of 6 mm is indicated at the bottom left.
- Side View (Top):** Shows the valve body with a width of 125 mm and a height of 88 mm. The top flange has a diameter of $\phi 37$ and a maximum height of 64 mm. The total height from the base to the top flange is 128 mm.
- Top View (Bottom):** Shows the valve body with a width of 125 mm and a height of 45 mm. The top flange has a diameter of $\phi 37$ and a maximum height of 81 mm.
- Flange Connection Diagrams (Right):**
 - Two-Way Valve (Top):** Shows a flange with a diameter of 102.4 mm and a width of 101.5 mm. The distance between the two ports is 71.5 mm. The distance from the center of the flange to the center of the port is 50.75 mm. The port diameter is 20.6 mm. The flange thickness is 12.7 mm. The distance from the center of the flange to the center of the port is 28.6 mm. The distance from the center of the flange to the center of the port is 89 mm. The distance from the center of the flange to the center of the port is 101.5 mm. The distance from the center of the flange to the center of the port is 101.5 mm.
 - Three-Way Valve (Bottom):** Shows a flange with a diameter of 102.4 mm and a width of 101.5 mm. The distance between the three ports is 77.8 mm. The distance from the center of the flange to the center of the port is 50.75 mm. The port diameter is 20.6 mm. The flange thickness is 12.7 mm. The distance from the center of the flange to the center of the port is 28.6 mm. The distance from the center of the flange to the center of the port is 89 mm. The distance from the center of the flange to the center of the port is 101.5 mm. The distance from the center of the flange to the center of the port is 101.5 mm.

阀型号	板型号	油口位置	油口 A,B,P,T	沉孔尺寸Ø (mm) A,B,P,T	质量 kg
QV-10/2	BA-320	油口A, B在下面	G1/2"	30	4.2
QV-10/3	BA-322	油口A, P, T在下面	G1/2"	30	3.9
QV-20/2	BA-420	油口A, B在下面	G3/4"	36.5	5.5
QV-20/3	BA-422	油口A, P, T在下面	G3/4"	36.5	5.2
QV-20/2	BA-520	油口A, B在下面	G1"	46	5.5
QV-20/3	BA-522	油口A, P, T在下面	G1"	46	5.2

C231 • 3

