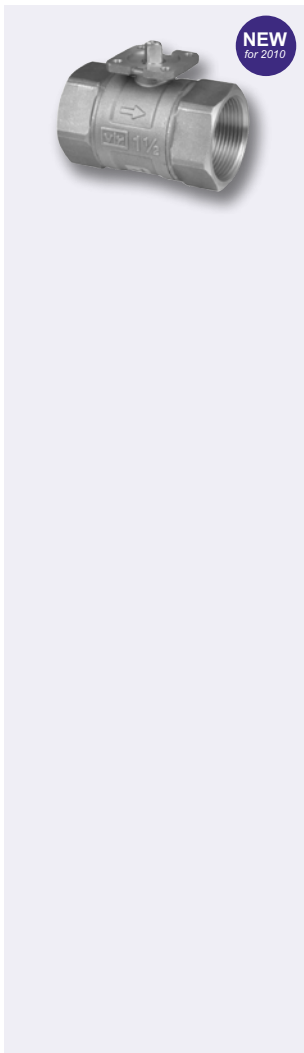


**VKR 2-Port Characterised Control Ball Valves**



VKR characterised 2-port control ball valves have been designed for accurate control of hot or cold water. The valves have equal percentage control characteristics. Valves are used in conjunction with AKM and AKF motorised actuators.

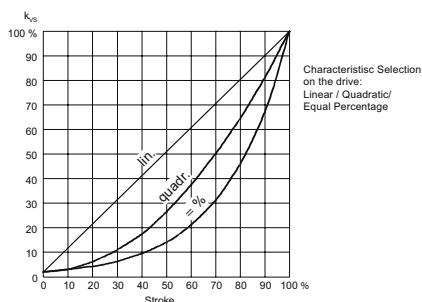
**Flow Rates:** See Table  
**Nominal Pressure:** PN 40  
**Operating Pressure:** -10..50°C: 40bar  
 >50°C: 35bar

**Valve Characteristics:** Equal Percentage  
**Control Ratio:** 500:1 (High Rangeability)  
**Operating Temp<sup>1</sup>:** -10..130°C  
**Valve Operation:** Rotary, 90° Angle  
**Leakage Rate:** ≤0.001% of Kvs

**Shut-Off Pressures / Connections:**

Valve	AKM230-F	AKM230 AKM24 AKM10V	Pipe Connection
	ΔP Max (bar)	ΔP Max (bar)	Ø (mm)
VKR-015	1.8	3.5	½" BSP Female
VKR-020	1.8	3.5	¾" BSP Female
VKR-025	1.8	3.5	1" BSP Female
VKR-032	1.2	2.4	1¼" BSP Female
VKR-040	1.2	2.4	1½" BSP Female
VKR-050	1.2	2.4	2" BSP Female

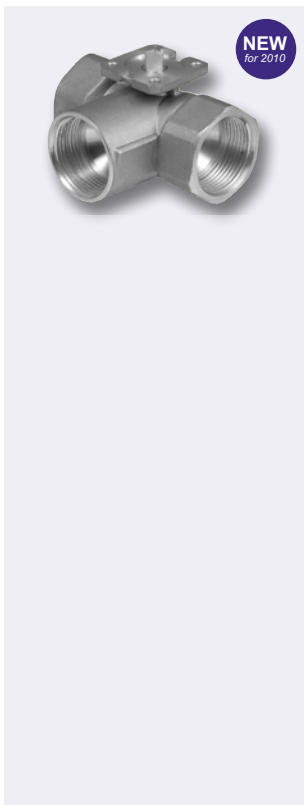
**CONTROL CHARACTERISTICS**



PART NO	DESCRIPTION
VKR-015-1-0	DN15 Kvs 1.0 2-Port Control Ball Valve
VKR-015-1-6	DN15 Kvs 1.6 2-Port Control Ball Valve
VKR-015-2-5	DN15 Kvs 2.5 2-Port Control Ball Valve
VKR-015-4-0	DN15 Kvs 4.0 2-Port Control Ball Valve
VKR-015-6-3	DN15 Kvs 6.3 2-Port Control Ball Valve
VKR-020-4-0	DN20 Kvs 4.0 2-Port Control Ball Valve
VKR-020-6-3	DN20 Kvs 6.3 2-Port Control Ball Valve
VKR-020-10	DN20 Kvs 10 2-Port Control Ball Valve
VKR-025-6-3	DN25 Kvs 6.3 2-Port Control Ball Valve
VKR-025-10	DN25 Kvs 10 2-Port Control Ball Valve
VKR-025-16	DN25 Kvs 16 2-Port Control Ball Valve
VKR-032-10	DN32 Kvs 10 2-Port Control Ball Valve
VKR-032-16	DN32 Kvs 16 2-Port Control Ball Valve
VKR-032-25	DN32 Kvs 25 2-Port Control Ball Valve
VKR-040-16	DN40 Kvs 16 2-Port Control Ball Valve
VKR-040-25	DN40 Kvs 25 2-Port Control Ball Valve
VKR-040-40	DN40 Kvs 40 2-Port Control Ball Valve
VKR-050-25	DN50 Kvs 20 2-Port Control Ball Valve
VKR-050-40	DN50 Kvs 40 2-Port Control Ball Valve
VKR-050-63	DN50 Kvs 63 2-Port Control Ball Valve

<sup>1</sup> At temperatures below 0°C use additional heaters.

**BKR 3-Port Characterised Control Ball Valves**



BKR characterised 3-port control ball valves have been designed for accurate control of hot or cold water. The valves have equal percentage control characteristics. Valves are used in conjunction with AKM and AKF motorised actuators.

**Flow Rates:** See Table  
**Nominal Pressure:** PN 40  
**Operating Pressure:** -10..50°C: 40bar  
 >50°C: 35bar

**Valve Characteristics:** Equal Percentage  
**Control Ratio:** 500:1 (High Rangeability)  
**Operating Temp<sup>1</sup>:** -10..130°C  
**Valve Operation:** Rotary, 90° Angle  
**Leakage Rate:** ≤0.001% of Kvs

**Shut-Off Pressures / Connections:**

Valve	AKM230-F	AKM230 AKM24 AKM10V	Pipe Connection
	ΔP Max (bar)	ΔP Max (bar)	Ø (mm)
BKR-015	TBD	TBD	½" BSP Female
BKR-020	TBD	TBD	¾" BSP Female
BKR-025	TBD	TBD	1" BSP Female
BKR-032	TBD	TBD	1¼" BSP Female
BKR-040	TBD	TBD	1½" BSP Female
BKR-050	TBD	TBD	2" BSP Female

PART NO	DESCRIPTION
BKR-015-1-6	DN15 Kvs 1.6 3-Port Control Ball Valve
BKR-015-2-5	DN15 Kvs 2.5 3-Port Control Ball Valve
BKR-015-4-0	DN15 Kvs 4.0 3-Port Control Ball Valve
BKR-015-6-3	DN15 Kvs 6.3 3-Port Control Ball Valve
BKR-020-4-0	DN20 Kvs 4.0 3-Port Control Ball Valve
BKR-020-6-3	DN20 Kvs 6.3 3-Port Control Ball Valve
BKR-025-10	DN25 Kvs 10 3-Port Control Ball Valve
BKR-032-16	DN32 Kvs 16 3-Port Control Ball Valve
BKR-040-25	DN40 Kvs 25 3-Port Control Ball Valve
BKR-050-40	DN50 Kvs 40 3-Port Control Ball Valve

<sup>1</sup> At temperatures below 0°C use additional heaters.