

# FIP VKD/VKR automatic ball valve

FIP + NedValve



The FIP VKD and VKR models are high-quality ball valves with advanced technology. The ball valves are practically identical, meaning that both the valves and the parts are interchangeable. The only difference between the two models in the internal ball: the VKD model has a movable while the revolutionary design of the VKR model allows a linear control of the capacity.

Pneumatic or electric drives are connected by means of a special PowerQuick adaptor. The PowerQuick is made of a PP engineering polymer (housing) and stainless steel (shaft).

The automatically actuated ball valves are interchangeable with manually actuated VKD models.

## APPLICATION OF VKD

Automation of fertiliser filling systems (tank filling), flushing systems

## APPLICATION OF VKR

Flow control with EC control or UV desinfection units

## TECHNICAL DATA

	VKD ball valve	VKR ball valve
Diameter	: 16 - 63 mm	: 16 - 63 mm
Version	: 2-way valve (standard)	: 2-way control valve
Type of drive	: electric (NedValve) : pneumatic (Netafim)	: electric (NedValve) : -
Maximum pressure	: 10 bar (at 20°C)	: 16 bar (at 20°C)
Cv value	: see table	: see table
Maximum temperature	: 0 - 60°C (with decreasing working pres.)	: 0 - 60°C (with decreasing working pres.)
Material - housing / ball	: PVC-U	: PVC-U
Shaft seal	: double O-ring EPDM, or FPM (Viton)	: double O-ring EPDM, or FPM (Viton)
Ball seal	: PE / PTFE	: PE / PTFE
PowerQuick size	: 14 mm F03-F05	: 14 mm F03-F05
NedValve model	: STB / QS / QB / CS (smart / basic)	: CS15 (smart)
Option	: PE-connection	: PE-connection FIP + NedValve

## CHARACTERISTICS OF VKD BALL VALVE

- ✓ Wide range, including straight and 3-way models
- ✓ Dual Block system; locking system that ensures that the nuts remain in position

## CHARACTERISTICS OF VKR BALL VALVE

- ✓ The same as for the VKD valve, but then with a practically linear characteristic in 90° rotation

For the characteristics of the electric and pneumatic drive, see the respective information sheets.



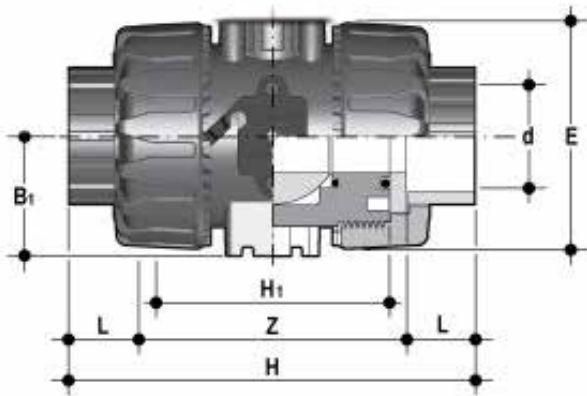
PowerQuick adaptor



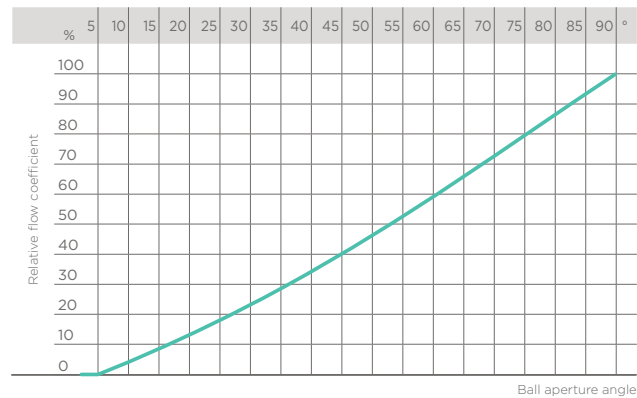
Revolutionary ball design

## Dimensions and Kv-values

d (mm)	DN (mm)	L (mm)	Z (mm)	H (mm)	H1 (mm)	E (mm)	B1 (mm)	C (mm)	C1 (mm)	Weight gr	Kv-value VKD (l/min)	Kv-value VKR (l/min)
16	10	14	75	103	65	54	29	67	40	215	80	83
20	15	16	71	103	65	54	29	67	40	205	200	88
25	20	19	77	115	70	65	34,5	85	49	330	385	135
32	25	22	84	128	78	73	39	85	49	438	770	256
40	32	26	94	146	88	86	46	108	64	693	1100	478
50	40	31	102	164	93	98	52	108	64	925	1750	592
63	50	38	123	199	111	122	62	134	76	1577	3400	1068



## VKR: Ratio of capacity to passage opening angle (percentage)



## Parts list

No.	Description
3	Stem O-ring
4	Stem
5	Ball seat
6	Ball VKD
	Ball VKR
7	Body
8	Support O-ring for ball seat
9	Radial seal O-ring
10	Socket seal O-ring
11	Support for ball seat
12	End connector
13	Union nut
14	Dual Block®
15	Bracketing bush
16	Mounting/distance plate
17	Screw

