

 Aliaxis



VKD DN 65÷100

PVDF

DUAL BLOCK® 2-way ball valve

VKD DN 65÷100

FIP has developed a VKD DUAL BLOCK® ball valve to introduce a high reference standard in thermoplastic valve design. VKD is a True Union ball valve that meets the most stringent needs required by industrial applications. This valve is also equipped with a customising Labelling System.

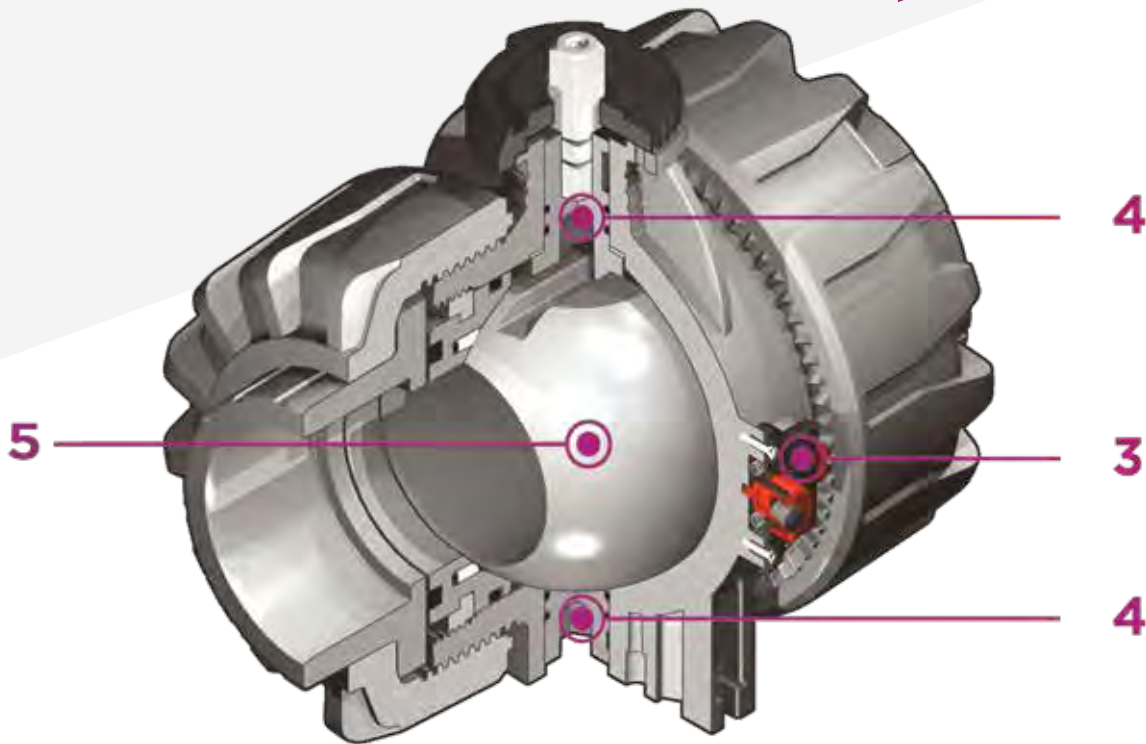
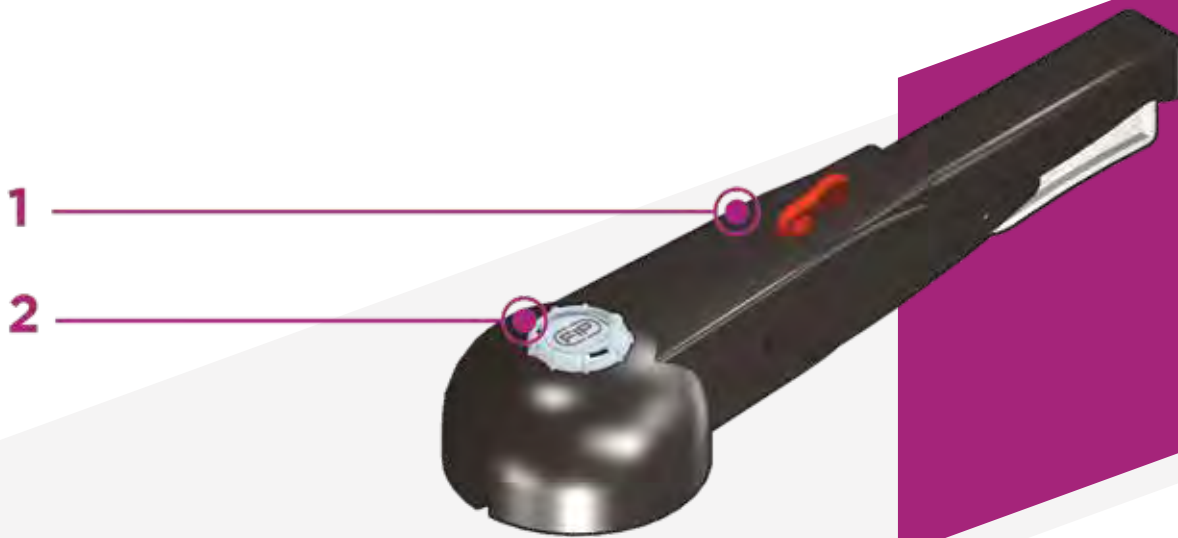


DUAL BLOCK® 2-WAY BALL VALVE

- Connection system for weld and flanged joints
- Patented **SEAT STOP®** ball seat carrier system that lets you micro-adjust ball seats and minimise axial force effects
- Easy radial disassembly allowing quick replacement of O-rings and ball seats without any need for tools
- PN16 **True Union valve body** made for PVDF injection moulding equipped with built-in bores for actuation. ISO 9393 compliant test requisites
- Option of disassembling downstream pipes with the valve in the closed position
- **Full bore ball** with high surface finish
- **Integrated bracket** for valve anchoring
- Possibility of installing a gear box or pneumatic and/or electric actuators by applying an ISO standard bore PP-GR flange
- **STAINLESS steel co-moulded stem**, with square section as per ISO 5211
- Possibility to have handle with integrated LSQT limit micro switch, even as a retrofit in existing installations

Technical specifications

Construction	2-way True Union ball valve with locked carrier and union nuts.
Size range	DN 65 ÷ 100
Nominal pressure	PN 16 with water at 20° C
Temperature range	-40 °C ÷ 140 °C
Coupling standards	<p>Welding: EN ISO 10931. Can be coupled to pipes according to EN ISO 10931</p> <p>Flanging system: ISO 7005-1, EN ISO 10931, EN 558-1, DIN 2501, ANSI B.16.5 cl.150</p>
Reference standards	<p>Construction criteria: EN ISO 16135, EN ISO 10931</p> <p>Test methods and requirements: ISO 9393</p> <p>Installation criteria: DVS 2201-1, DVS 2207-15, DVS 2208-1</p> <p>Actuator couplings: ISO 5211</p>
Valve material	PVDF
Seal material	FKM (standard size O-Ring, EPDM on request); PTFE (ball seats)
Control options	Manual control; electric actuator; pneumatic actuator



1 HIPVC ergonomic multifunctional handle for quick operation, **lock and graduated adjustment in 10 positions.** Possibility of inhibiting rotation with a lock

2 Customisable Labelling System: LCE module made of a transparent protection plug

and **customisable tag holder** using the LSE set (available as accessory). The customisation lets you identify the valve on the system according to specific needs

3 **DUAL BLOCK®** patented lock system that ensures union nut tightening hold even in severe

conditions such as vibrations or heat dilation

4 **Double stem** with double O-Rings for ball centring and operating torque reduction

5 Machined high surface finish ball that guarantees a smooth operation and increased reliability.

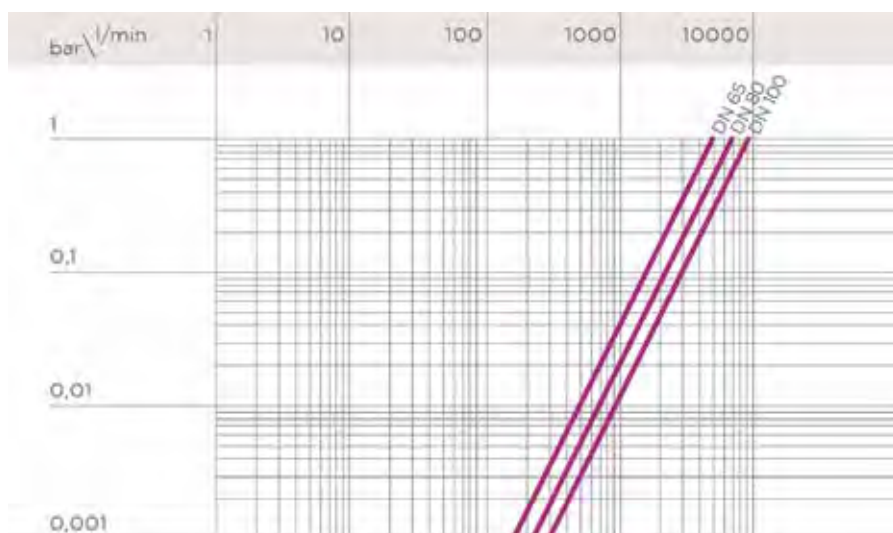
TECHNICAL DATA

PRESSURE VARIATION ACCORDING TO TEMPERATURE

For water and harmless fluids to which the material is classified as CHEMICALLY RESISTANT. In other cases, a reduction of the nominal PN pressure is required (25 years with safety factor).



PRESSURE DROP GRAPH

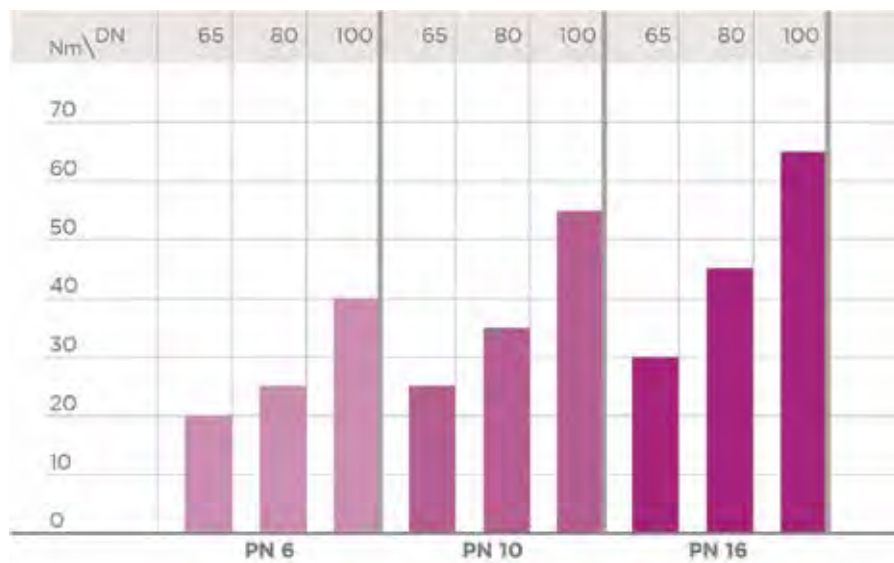


K_v100 FLOW COEFFICIENT

The K_v100 flow coefficient is the Q flow rate of litres per minute of water at a temperature of 20°C that will generate Δp= 1 bar pressure drop at a certain valve position. The K_v100 values shown in the table are calculated with the valve completely open.

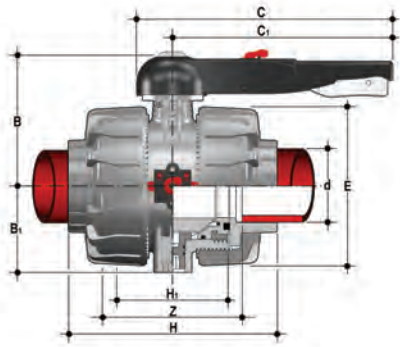
DN	65	80	100
K _v 100 l/min	5250	7100	9500

OPERATING TORQUE AT MAXIMUM WORKING PRESSURE



The information in this leaflet is provided in good faith. No liability will be accepted concerning technical data that is not directly covered by recognised international standards. FIP reserves the right to carry out any modification. Products must be installed and maintained by qualified personnel.

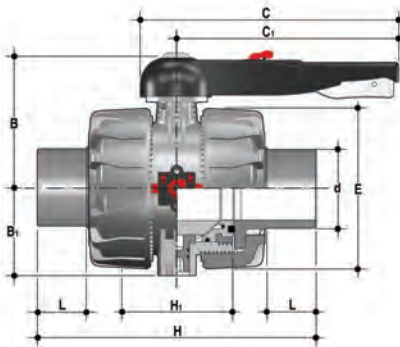
DIMENSIONS



VKDIF

DUAL BLOCK® 2-way ball valve with female ends for socket welding, metric series

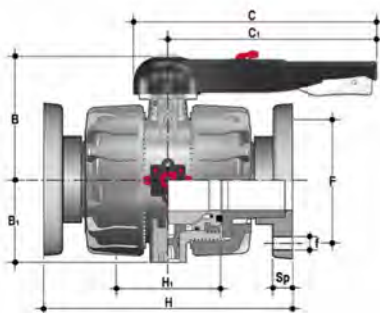
d	DN	PN	B	B ₁	C	C ₁	E	H	H ₁	Z	g	FKM code
75	65	16	164	87	225	175	162	213	133	153	4380	VKDIF075F
90	80	16	177	105	327	272	202	239	149	173	7200	VKDIF090F
110	100	16	195	129	385	330	236	268	167	199	11141	VKDIF110F



VKDDF

DUAL BLOCK® 2-way ball valve with male ends for socket welding, metric series

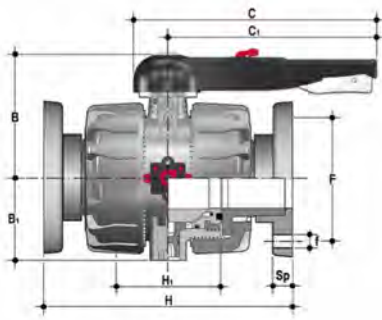
d	DN	PN	B	B ₁	C	C ₁	E	H	H ₁	L	g	FKM code
75	65	16	164	87	225	175	162	284	133	44	4420	VKDDF075F
90	80	16	177	105	327	272	202	300	149	51	6930	VKDDF090F
110	100	16	195	129	385	330	236	340	167	61	10950	VKDDF110F



VKDOF

DUAL BLOCK® 2-way ball valve with fixed flanges, drilled EN/ISO/DIN PN10/16. Face to face according to EN 558-1

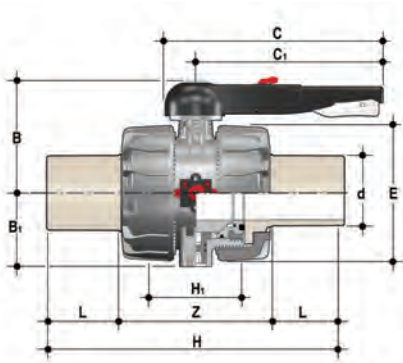
d	DN	PN	B	B ₁	C	C ₁	F	f	H	H ₁	Sp	U	g	FKM code
75	65	16	164	87	225	175	145	17	290	133	21	4	8588	VKDOF075F
90	80	16	177	105	327	272	160	17	310	149	21,5	8	12122	VKDOF090F
110	100	16	195	129	385	330	180	17	350	167	21,5	8	17949	VKDOF110F



VKDOAF

DUAL BLOCK® ball valve with ANSI B16.5 cl.150#FF fixed flanges.

d	DN	PN	B	B ₁	C	C ₁	F	f	H	H ₁	Sp	U	g	FKM code
2" 1/2	65	16	164	87	225	175	145	17	290	133	21	4	8588	VKDOF075F
3"	80	16	177	105	327	272	160	17	310	149	21,5	8	12122	VKDOF090F
4"	100	16	195	129	385	330	180	17	350	167	21,5	8	17949	VKDOF110F



VKDBF

DUAL BLOCK® 2-way ball valve with long spigot male ends in PVDF SDR 21 for butt welding/IR (CVDF)

d	DN	PN	B	B ₁	C	C ₁	E	H	H ₁	L	Z	g	FKM code
75	65	16	164	87	225	175	162	284	133	71	142	4700	VKDBF075F
90	80	16	177	105	327	272	202	300	149	88	124	7150	VKDBF090F
110	100	16	195	129	385	330	236	340	167	92	156	11300	VKDBF110F