



Main Features:-

- ◆ 2 Way ball valve to isolate or regulate flow of product
- ◆ End connection for welded, threaded and flanged joints
- ◆ PN16 Dual-Block valve body manufactured in ABS
- ◆ Durable stem with double O-Ring and double connection key
- ◆ Integrated bracket for valve anchoring



VKD DN10/50 ABS

Suitable Applications & Approvals:



EU MANUFACTURER:

The FIP VKD DUAL BLOCK® valve is a high quality, thermoplastic, true union ball valve with a design that meets the stringent requirements needed by modern industrial applications.

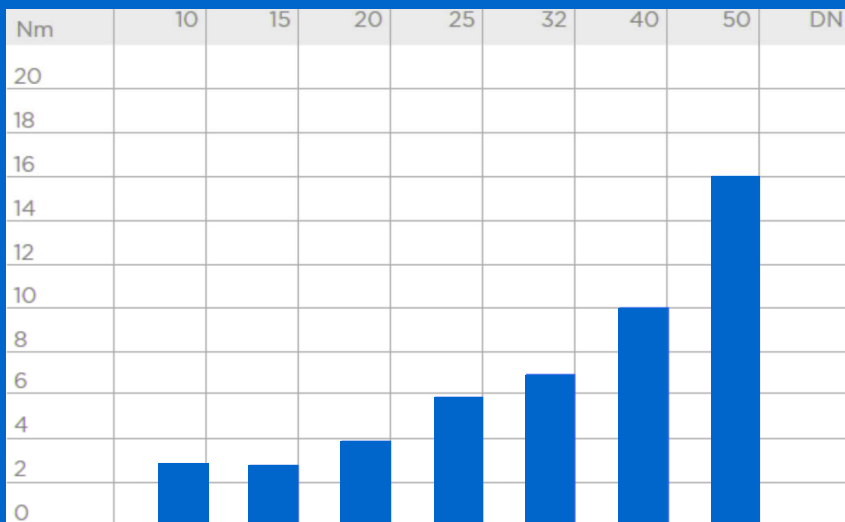
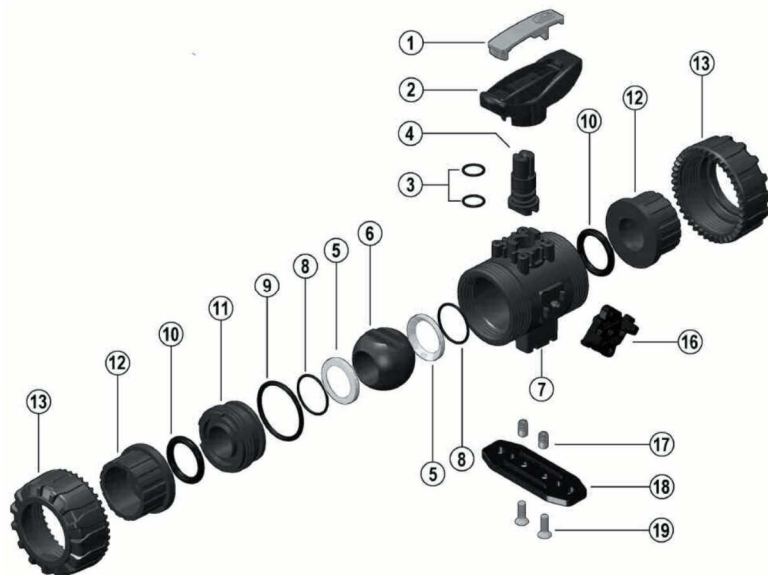
TECHNICAL SPECIFICATIONS

Construction	2-way True Union ball valve with locked carrier and union nuts.
Size Range	DN 10 ÷ 50
Nominal Pressure	PN 16 with water at 20 °C
Operating Temperature	0 °C ÷ 60 °C
Coupling Standards	Solvent welding: EN ISO 1452, EN ISO 15493, BS 4346-1, DIN 8063, NF T54-028, ASTM D 2467, JIS K 6743. Pipe coupling as per EN ISO 1452, EN ISO 15493, DIN 8062, NF T54-016, ASTM D 1785, JIS K 6741 Thread: ISO 228-1, DIN 2999, ASTM D 2464, JIS B 0203 Flanging system: ISO 7005-1, EN ISO 1452, EN ISO 15493, EN 558-1, DIN 2501, ANSI B.16.5 cl. 150, JIS B 2220
Reference Standards	Construction criteria: EN ISO 16135, EN ISO 1452, EN ISO 15493 Test methods and requirements: ISO 9393 Installation criteria: DVS 2204, DVS 2221, UNI 11242 Actuator couplings: ISO 5211
Valve Material	ABS
Seal Material	EPDM, FPM (standard size O-Ring); PTFE (ball seats)

This product is compatible for mounting with standard pneumatic or electric actuators that use standard ISO5211 profiles, when combined with the optional actuation kit accessory. Allvalves can supply this product preassembled with a suitable actuator on request.



Part	Component	Material
1	Insert	ABS
2	Handle	ABS
3	Stem O-Ring	EPDM / FPM
4	Stem	ABS
5	Ball Seat	PTFE
6	Ball	ABS
7	Body	ABS
8	Support O-Ring	EPMD / FPM
9	Radial Seal O-Ring	EPDM / FPM
10	Socket Seal O-Ring	EPDM / FPM
11	Support for Ball Seat	ABS
12	End Connector	ABS
13	Union Nut	ABS
14	Spring	Stainless Steel
15	Safety Handle Block	PP-GR
16	DUAL BLOCK®	POM
17	Bracketing Bush	Stainless Steel / Brass
18	Mounting Plate	PP-GR
19	Screw	Stainless Steel



Figures given at maximum working pressure.

DN	10	15	20	25	32	40	50
Kv100 l/min	80	200	385	770	1,100	1,750	3,400

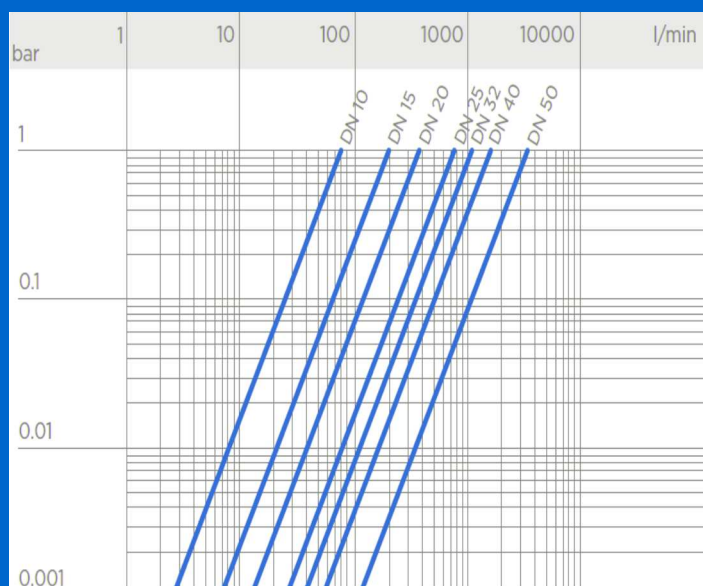
The Kv100 flow coefficient is the Q flow rate of litres per minute of water at a temperature of 20°C that will generate $\Delta p = 1$ bar pressure drop at a certain valve position. *The Kv100 values shown in the table are calculated with the valve completely open.



PRESSURE v TEMPERATURE

ABS can operate between -40 and +70C

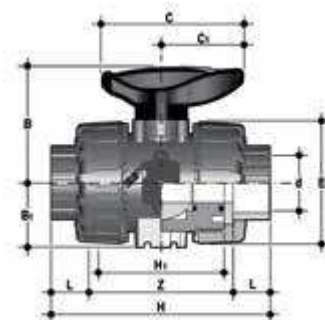
PRESSURE DROP



PRODUCT DIMENSIONS

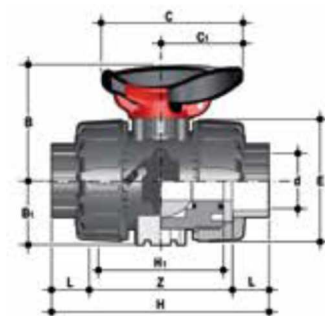
VKDIA 2-way ball valve with female ends for solvent welding, metric series

d	DN	PN	B	B ₁	C	G	E	H	H ₁	L	Z	g
16	10	16	54	29	67	40	54	103	65	14	75	215
20	15	16	54	29	67	40	54	103	65	16	71	205
25	20	16	65	34.5	85	49	70	115	70	19	77	330
32	25	16	69.5	39	85	49	78	128	78	22	84	438
40	32	16	82.5	46	108	64	88	146	88	26	94	693
50	40	16	89	52	108	64	93	164	93	31	102	925
63	50	16	108	62	134	76	122	199	111	38	123	1577



VKDIA/SHX 2-way ball valve with handle lock and STAINLESS steel threaded inserts with female ends for solvent welding, metric series

d	DN	PN	B	B ₁	C	G	E	H	H ₁	L	Z	g
16	10	16	54	29	67	40	54	103	65	14	75	
20	15	16	54	29	67	40	54	103	65	16	71	
25	20	16	65	34.5	85	49	65	115	70	19	77	
32	25	16	69.5	39	85	49	73	128	78	22	84	
40	32	16	82.5	46	108	64	86	146	88	26	94	
50	40	16	89	52	108	64	98	164	93	31	102	
63	50	16	108	62	134	76	122	199	111	38	123	



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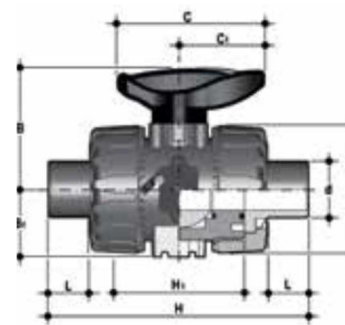
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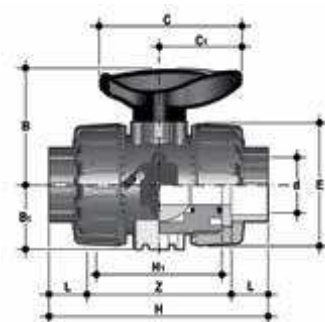
VKDDA 2-way ball valve with male ends for solvent welding, metric series

d	DN	PN	B	B ₁	C	G	E	H	H ₁	L	g
16	10	16	54	29	67	40	54	149	65	14	215
20	15	16	54	29	67	40	54	124	65	16	220
25	20	16	65	34.5	85	49	65	144	70	19	340
32	25	16	69.5	39	85	49	73	154	78	22	443
40	32	16	82.5	46	108	64	86	174	88	26	693
50	40	16	89	52	108	64	98	194	93	31	945
63	50	16	108	62	134	76	122	224	111	38	1607



VKDLA 2-way ball valve with female ends for solvent welding, BS series

d	DN	PN	B	B ₁	C	G	E	H	H ₁	L	Z	g
3/8"	10	16	54	29	67	40	54	103	65	14.5	74	210
1/2"	15	16	54	29	67	40	54	103	65	16.5	70	205
3/4"	20	16	65	34.5	85	49	65	115	70	19	77	335
1"	25	16	69.5	39	85	49	73	128	78	22.5	83	433
1 1/4"	32	16	82.5	46	108	64	86	146	88	26	94	703
1 1/2"	40	16	89	52	108	64	98	164	93	30	104	925
2"	50	16	108	62	134	76	122	199	111	36	127	1647



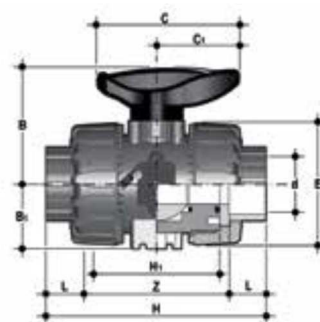
VKDFA 2-way ball valve with BSP threaded female ends

d	DN	PN	B	B ₁	C	G	E	H	H ₁	L	Z	g
3/8"	10	16	54	29	67	40	54	103	65	12	80	215
1/2"	15	16	54	29	67	40	54	110	65	15	80	210
3/4"	20	16	65	34.5	85	49	65	116	70	16	83	335
1"	25	16	69.5	39	85	49	73	134	78	19	96	448
1 1/4"	32	16	82.5	46	108	64	86	153	88	21	110	678
1 1/2"	40	16	89	52	108	64	98	156	93	21	113	955
2"	50	16	108	62	134	76	122	186	111	26	135	1667



VKDAA 2-way ball valve with female ends for solvent welding, ASTM series

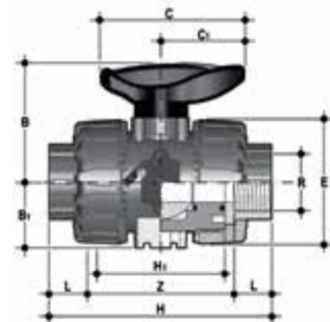
d	DN	PN	B	B ₁	C	G	E	H	H ₁	L	Z	g
3/8"	10	16	54	29	67	40	54	117	65	19.5	78	230
1/2"	15	16	54	29	67	40	54	117	65	22.5	72	215
3/4"	20	16	65	34.5	85	49	65	129	70	25.5	78	345
1"	25	16	69.5	39	85	49	73	142	78	28.7	84.6	448
1 1/4"	32	16	82.5	46	108	64	86	162	88	32	98	718
1 1/2"	40	16	89	52	108	64	98	172	93	35	102	975
2"	50	16	108	62	134	76	122	199	111	38.2	122.6	1712





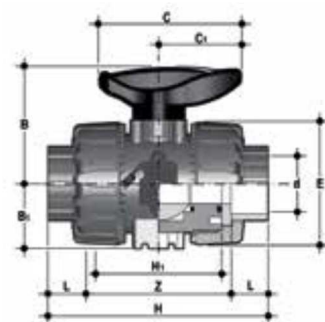
VKDNA 2-way ball valve with female ends, NPT thread

d	DN	PN	B	B ₁	C	G	E	H	H ₁	L	Z	g
3/8"	10	16	54	29	67	40	54	103	65	13.7	75.6	215
1/2"	15	16	54	29	67	40	54	111	65	17.8	75.4	210
3/4"	20	16	65	34.5	85	49	65	117	70	18	81	335
1"	25	16	69.5	39	85	49	73	135	78	22.6	89.8	448
1 1/4"	32	16	82.5	46	108	64	86	153	88	25.1	102.8	678
1 1/2"	40	16	89	52	108	64	98	156	93	24.7	106.6	955
2"	50	16	108	62	134	76	122	186	111	29.6	126.8	1667



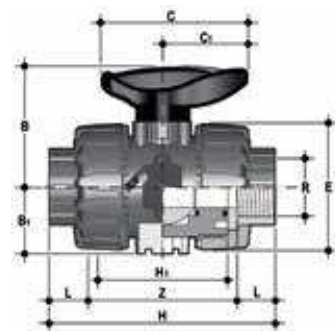
VKDJA 2-way ball valve with female ends for solvent welding, JIS series

d	DN	PN	B	B ₁	C	G	E	H	H ₁	L	Z	g
1/2"	15	16	54	29	67	40	54	131	65	30	71	225
3/4"	20	16	65	34.5	85	49	65	147	70	35	77	335
1"	25	16	69.5	39	85	49	73	164	78	40	84	448
1 1/4"	32	16	82.5	46	108	64	86	182	88	44	94	728
1 1/2"	40	16	89	52	108	64	98	212	93	55	102	1015
2"	50	16	108	62	134	76	122	248	111	63	122	1727



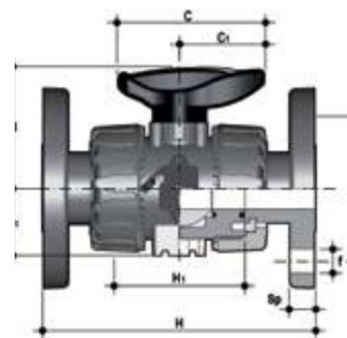
VKDGA 2-way ball valve with female ends, JIS thread

d	DN	PN	B	B ₁	C	G	E	H	H ₁	L	Z	g
1/2"	15	16	54	29	67	40	54	103	65	16	71	210
3/4"	20	16	65	34.5	85	49	65	115	70	19	77	330
1"	25	16	69.5	39	85	49	73	128	78	22	84	438
1 1/4"	32	16	82.5	46	108	64	86	146	88	25	96	678
1 1/2"	40	16	89	52	108	64	98	164	93	26	112	975
2"	50	16	108	62	134	76	122	199	111	31	137	1627



VKDOA 2-way ball valve with EN/ISO/DIN PN10/16 fixed flanges, Face to face according to EN 558-1

d	DN	PN	B	B ₁	C	G	F	f	H	H ₁	Sp	U	g
20	15	16	54	29	67	40	65	14	130	65	11	4	375
25	20	16	65	34.5	85	49	75	14	150	70	14	4	590
32	25	16	69.5	39	85	49	85	14	160	78	14	4	713
40	32	16	82.5	46	108	64	100	18	180	88	14	4	1108
50	40	16	89	52	108	64	110	18	200	93	16	4	1485
63	50	16	108	62	134	76	125	18	230	111	16	4	2347



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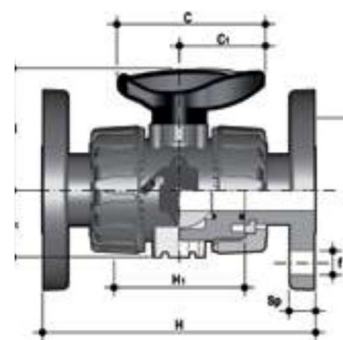
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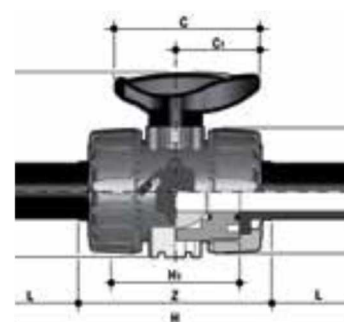
VKDOAA 2-way ball valve with fixed flange, drilled ANSI B16.5 cl.150#FF

d	DN	PN	B	B ₁	C	G	F	f	H	H ₁	Sp	U	g
20	15	16	54	29	67	40	60.3	15.9	143	65	11	4	460
25	20	16	65	34.5	85	49	69.9	15.9	172	70	14	4	632
32	25	16	69.5	39	85	49	79.4	15.9	187	78	14	4	853
40	32	16	82.5	46	108	64	88.9	15.9	190	88	14	4	1313
50	40	16	89	52	108	64	98.4	15.9	212	93	16	4	1669
63	50	16	108	62	134	76	120.7	19.1	234	111	16	4	2577



VKDBEA 2-way ball valve with PE100 SDR 11 male end connectors for butt welding or electrofusion (CVDE)

d	DN	PN	B	B ₁	C	G	E	H	H ₁	L	Z	g
20	15	16	54	29	40	54	54	175	65	41	94	220
25	20	16	65	34.5	49	65	65	210	70	52	106	340
32	25	16	69.5	39	49	73	73	226	78	55	117	443
40	32	16	82.5	46	64	86	86	243	88	56	131	693
50	40	16	89	52	64	98	98	261	93	58	145	945
63	50	16	108	62	76	122	122	293	111	66	161	1607



CVDE Long spigot PE100 end connectors for joints with electrofusion fittings or for butt welding

d	DN	PN	L	SDR
20	15	16	55	11
25	20	16	70	11
32	25	16	74	11
40	32	16	78	11
50	40	16	84	11
63	50	16	91	11



SHKD Handle block kit 0° - 90° lockable

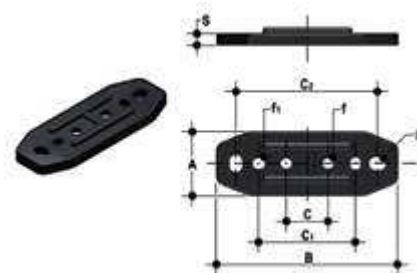
d	DN
20	15
25	20
32	25
40	32
50	40
63	50





PMKD Mounting Plate

d	DN	A	B	C	G	G ₂	F	f	f ₁	S
16	10	30	86	20	46	67.5	6.5	5.3	5.5	5
20	15	30	86	20	46	67.5	6.5	5.3	5.5	5
25	20	30	86	20	46	67.5	6.5	5.3	5.5	5
32	25	30	86	20	46	67.5	6.5	5.3	5.5	5
40	32	40	122	30	72	102	6.5	6.3	6.5	6
50	40	40	122	30	72	102	6.5	6.3	6.5	6
63	50	40	122	30	72	102	6.5	6.3	6.5	6



EASYTORQUE KIT Kit for ball seat carrier tightening adjustment for DUAL BLOCK® DN10+50 series valves

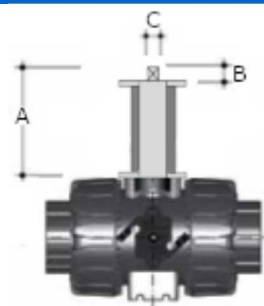
d	DN	Tightening torque recommended*
3/8" - 1/2"	10—15	3 Nm (2,21 Lbf ft)
3/4"	20	4 Nm (2,95 Lbf ft)
1"	25	5 Nm (3,69 Lbf ft)
1 1/4"	32	5 Nm (3,69 Lbf ft)
1 1/2"	40	7 Nm (5,16 Lbf ft)
2"	50	9 Nm (6,64 Lbf ft)

*calculated in ideal installation conditions



QUICKFIT-F Actuator mounting kit for FIP VKD & TKD ball valves

d	DN	A	B	C	ISO5211
20	15	40	9	9	FO5
25	20	40	9	9	FO5
32	25	40	9	9	FO5
40	32	40	9	9	FO5
50	40	50	11	11	FO5
63	50	50	11	11	FO5



QuickFit-F® is a complete mounting kit to facilitate the actuation of valve types VKD (2 port) and TKD (3 port).

The fully corrosion resistant mounting kit uses specialist stainless steel fixing screws, designed specifically for fixing into plastics, to rigidly secure the stainless steel actuator support bracket to the FIP ball valve. Available for valve sizes 1/2" (D20) to 2" inclusive (D63), suits all VKD and TKD ball valve body materials, and is suitable for either electric or pneumatic valve actuators.

