



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 PP-H
- ◆ Durable stem with double O-Ring and double connection key
- ◆ Integrated bracket for valve anchoring



Suitable Applications & Approvals:



VKD DN10/50 PP-H

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 ÷ 100 °C
Coupling Standards	Solvent welding: EN ISO 15494 Can be coupled to pipes according to EN ISO 15494 Thread: ISO 228-1, DIN 2999 Flanging system: ISO 7005-1, EN 1092-1, EN ISO 15494, EN 558-1, DIN 2501, ANSI B.16.5 cl. 150
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	PP-H
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.



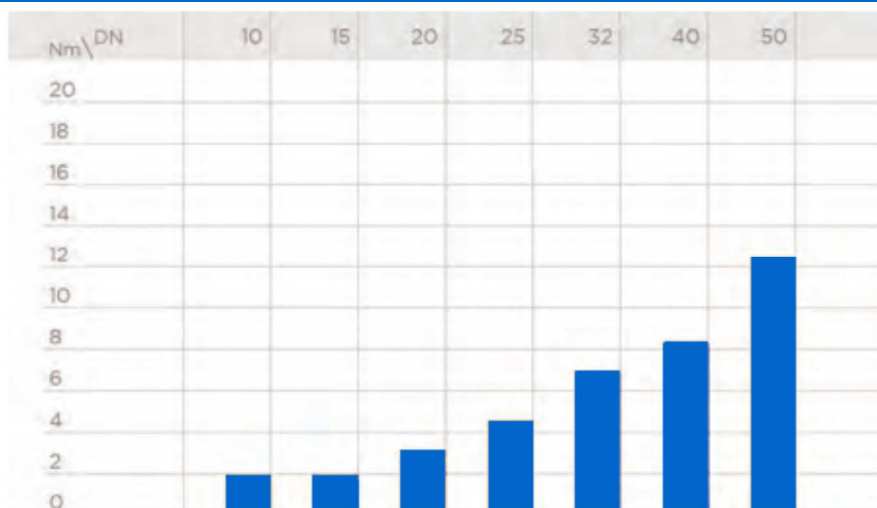
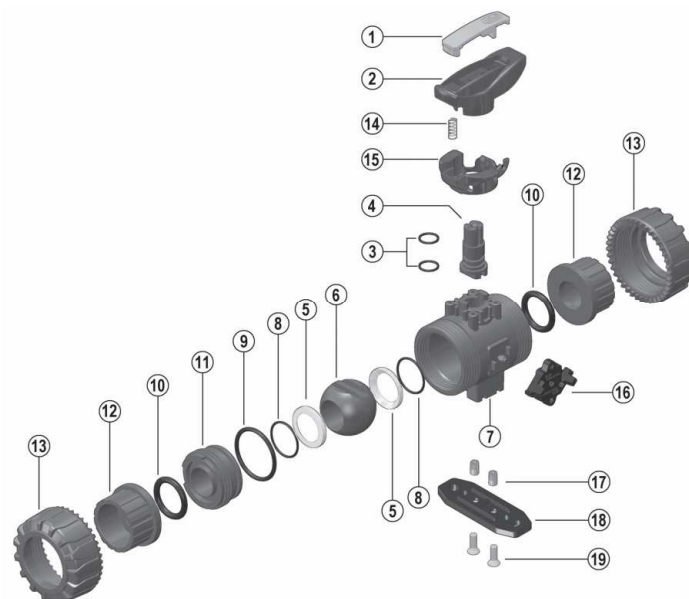
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1	Insert	PVC
2	Handle	HIPVC
3	Stem O-Ring	EPDM / FPM
4	Stem	PP-H
5	Ball Seat	PTFE
6	Ball	PP-H
7	Body	PP-H
8	Support O-Ring	EPMD / FPM
9	Radial Seal O-Ring	EPDM / FPM
10	Socket Seal O-Ring	EPDM / FPM
11	Support for Ball Seat	PP-H
12	End Connector	PP-H
13	Union Nut	PP-H
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



Torque 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

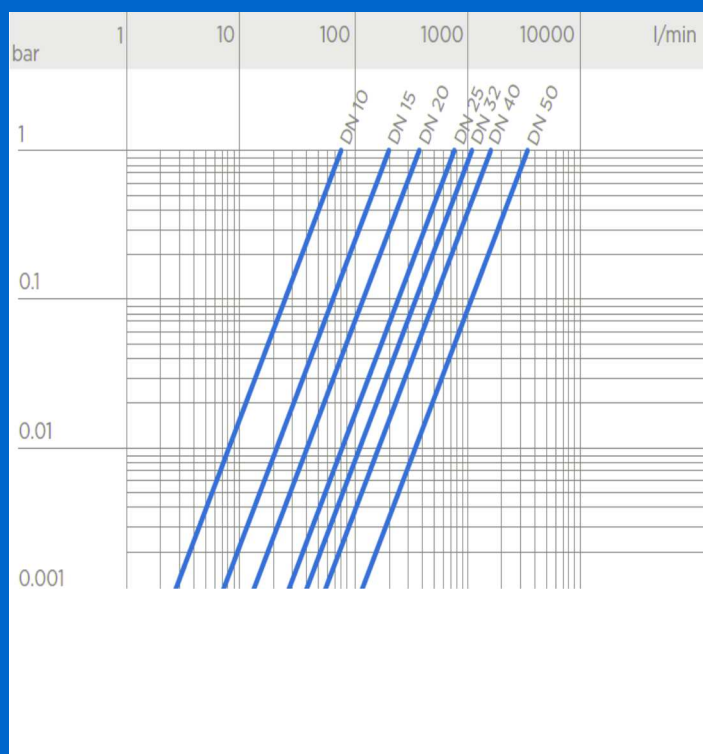
The Kv100 flow coefficient is the Q flow rate of litres per minute of water at a temperature of 20°C that will generate $\Delta p = 1$ bar pressure drop at a certain valve position. *The Kv100 values shown in the table are calculated with the valve completely open.



PRESSURE VARIATION

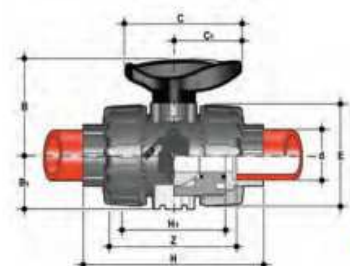


PRESSURE DROP



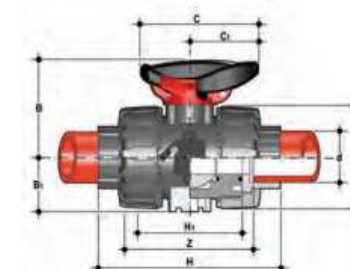
VKDIM 2-way ball valve with female ends for solvent welding, metric series

d	DN	PN	B	B	C	G	E	H	H	Z	g
16	10	16	54	29	67	40	54	102	65	74.5	150
20	15	16	54	29	67	40	54	102	65	73	145
25	20	16	65	34.5	85	49	70	114	70	82	218
32	25	16	69.5	39	85	49	78	126	78	90	298
40	32	16	82.5	46	108	64	88	141	88	100	480
50	40	16	89	52	108	64	93	164	93	117	682
63	50	16	108	62	134	76	122	199	111	144	1166



VKDIM/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	C	G	E	H	H	Z	g
16	10	16	54	29	67	40	54	102	65	74.5	160
20	15	16	54	29	67	40	54	102	65	73	155
25	20	16	65	34.5	85	49	65	114	70	82	228
32	25	16	69.5	39	85	49	73	126	78	90	308
40	32	16	82.5	46	108	64	86	141	88	100	490
50	40	16	89	52	108	64	98	164	93	117	692
63	50	16	108	62	134	76	122	199	111	144	1176



PRODUCT DIMENSIONS



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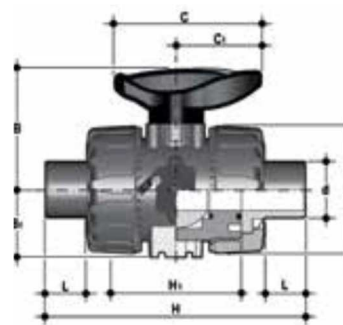
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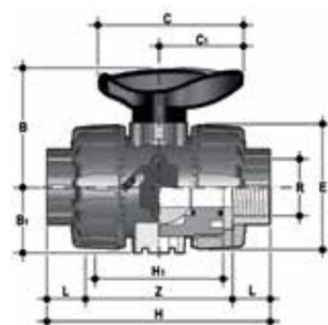
VKDDM 2-way ball valve with male ends for solvent welding, metric series

d	DN	PN	B	B ₁	C	G	E	H	H ₁	L	g
20	15	16	54	29	67	40	54	124	65	16	153
25	20	16	65	34.5	85	49	65	144	70	18	222
32	25	16	69.5	39	85	49	73	154	78	20	303
40	32	16	82.5	46	108	64	86	174	88	22	485
50	40	16	89	52	108	64	98	194	93	23	672
63	50	16	108	62	134	76	122	224	111	29	1176



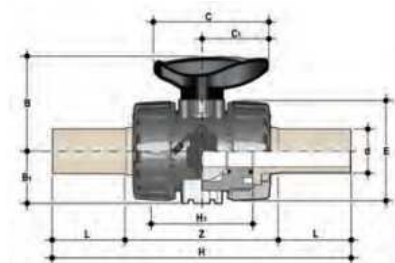
VKDFM 2-way ball valve with BSP threaded female ends

d	DN	PN	B	B ₁	C	G	E	H	H ₁	L	Z	g
½"	15	16	54	29	67	40	54	110	65	15	80	145
¾"	20	16	65	34.5	85	49	65	116	70	16	83	220
1"	25	16	69.5	39	85	49	73	134	78	19	96	298
1¼"	32	16	82.5	46	108	64	86	153	88	21	110	488
1½"	40	16	89	52	108	64	98	156	93	21	113	682
2"	50	16	108	62	134	76	122	186	111	26	135	1181



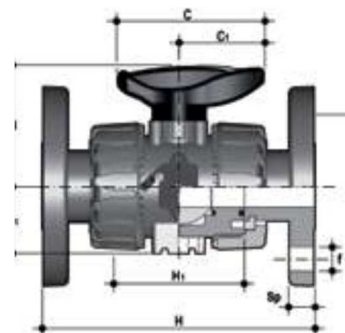
VKDBM DUAL BLOCK® 2-way ball valve with long spigot male ends in PP-H SDR 11 for butt welding or electrofusion (CVDm)

d	DN	PN	B	B ₁	C	G	E	H	H ₁	L	Z	g
20	15	16	54	29	67	40	54	175	65	41	93	220
25	20	16	65	34.5	85	49	65	210	70	52	106	340
32	25	16	69.5	39	85	49	73	226	78	55	116	443
40	32	16	82.5	46	108	64	86	243	88	56	131	593
50	40	16	89	52	108	64	98	261	93	58	145	945
63	50	16	108	62	134	76	122	293	111	66	161	1607



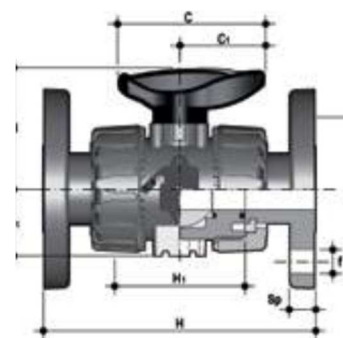
VKDOV 2-way ball valve with EN/ISO/DIN PN10/16 fixed flanges. Face to face according to EN 558-1

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	387
25	20	16	65	34.5	85	49	75	14	150	70	14	4	504
32	25	16	69.5	39	85	49	85	14	160	78	14	4	697
40	32	16	82.5	46	108	64	100	18	180	88	14	4	1075
50	40	16	89	52	108	64	110	18	200	93	16	4	1346
63	50	16	108	62	134	76	125	18	230	111	16	4	2060



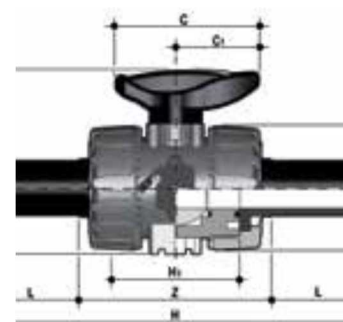
VKDOAM 2-way ball valve with fixed flange, drilled ANSI B16.5 cl.150#FF

d	DN	PN	B	B ₁	C	G	F	f	H	H ₁	Sp	U	g
½"	15	16	54	29	67	40	60.3	15.9	143	65	11	4	387
¾"	20	16	65	34.5	85	49	69.9	15.9	172	70	14	4	504
1"	25	16	69.5	39	85	49	79.4	15.9	187	78	14	4	697
1¼"	32	16	82.5	46	108	64	88.9	15.9	190	88	14	4	1075
1½"	40	16	89	52	108	64	98.4	15.9	212	93	16	4	1346
2"	50	16	108	62	134	76	120.7	19.1	234	111	16	4	2060



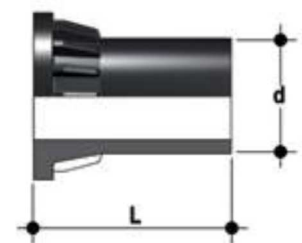
VKDBEM 2-way ball valve with PE100 SDR 11 male end connectors for butt welding or electrofusion (CVDE)

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	210
25	20	16	65	34.5	49	65	65	210	70	52	106	325
32	25	16	69.5	39	49	73	73	226	78	55	117	420
40	32	16	82.5	46	64	86	86	243	88	56	131	570
50	40	16	89	52	64	98	98	261	93	58	145	900
63	50	16	108	62	76	122	122	293	111	66	161	1500



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

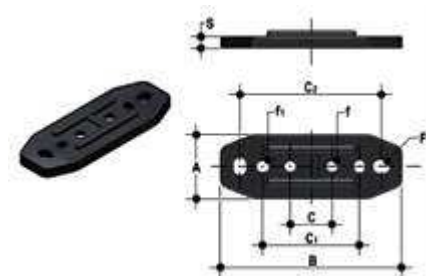
d	DN
20	15
25	20
32	25
40	32
50	40
63	50





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

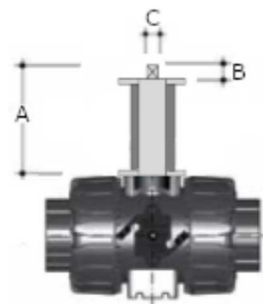
d	DN	Tightening torque recommended*
3/8" - 1/2"	10—15	3 Nm (2,21 Lbf ft)
3/4"	20	4 Nm (2,95 Lbf ft)
1"	25	5 Nm (3,69 Lbf ft)
1 1/4"	32	5 Nm (3,69 Lbf ft)
1 1/2"	40	7 Nm (5,16 Lbf ft)
2"	50	9 Nm (6,64 Lbf ft)

*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.

