



Main Features:-

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



TKD DN10/50 ABS

Suitable Applications & Approvals:



EU MANUFACTURER:

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

TECHNICAL SPECIFICATIONS

Construction	3-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 15493, ASTM F 439. Can be coupled to pipes according to EN ISO 15493, ASTM F 441
	Thread: ISO 228-1, DIN 2999, ASTM F437
Reference Standards	Construction criteria: EN ISO 16135, 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.



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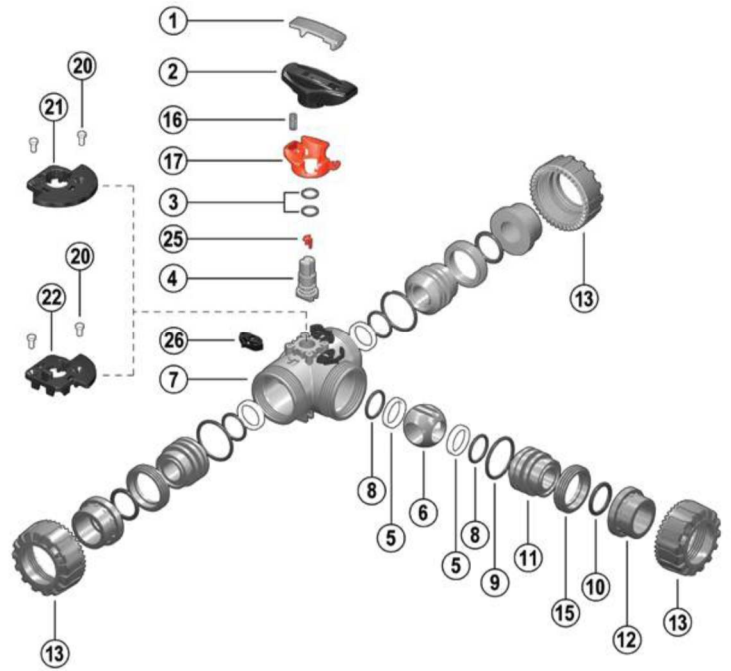
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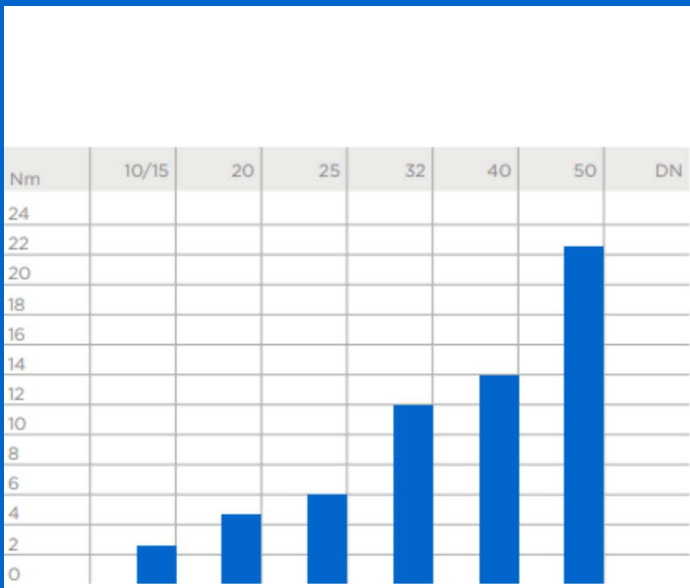


PRODUCT MATERIALS

Part	Component	Material
1	Handle insert	PVC-C
2	Handle	HIPVC
3	Stem O-rings	EPDM / FPM
4	Stem	ABS
5	Ball seat	PTFE
6	Ball	ABS
7	Body	ABS
8	Ball seat O-ring	EPDM / FPM
9	Radial seal O-Ring	EPDM / FPM
10	Socket seal O-Ring	EPDM / FPM
11	Ball seat carrier	ABS
12	End connector	ABS
13	Union nut	ABS
15	Threaded ring	ABS
16	Spring (SHKD)	Stainless steel
17	Safety handle block (SHKD)	PP-GR
20	Rivet for LTKD	POM
21	LTKD 180°	POM
22	LTKD 90°	POM
25	Position indicator	POM
26	DUAL BLOCK®	POM



OPERATING TORQUE*



*At maximum working pressure.

PRESSURE VARIATION



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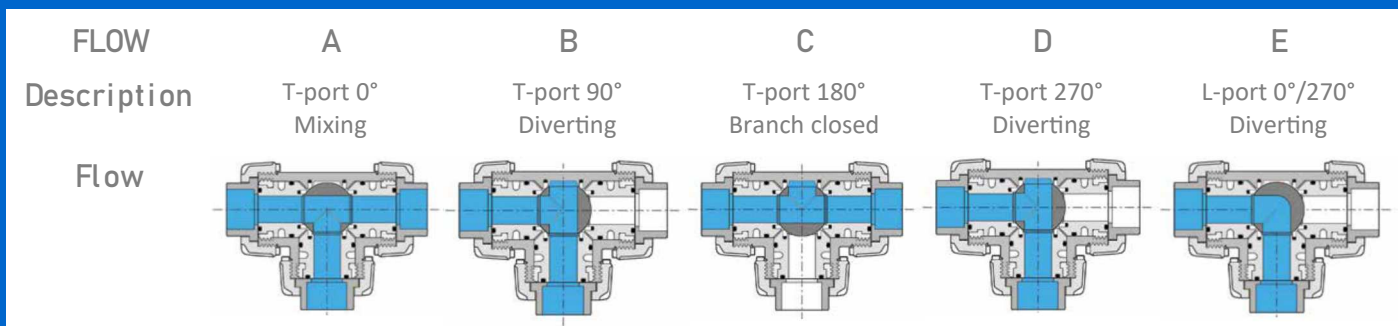
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DESIGN

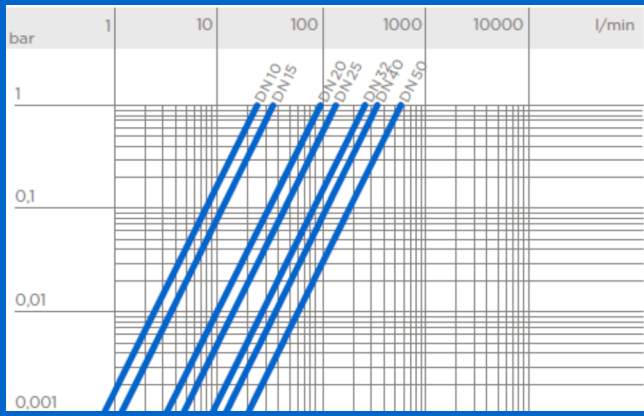


FLOW

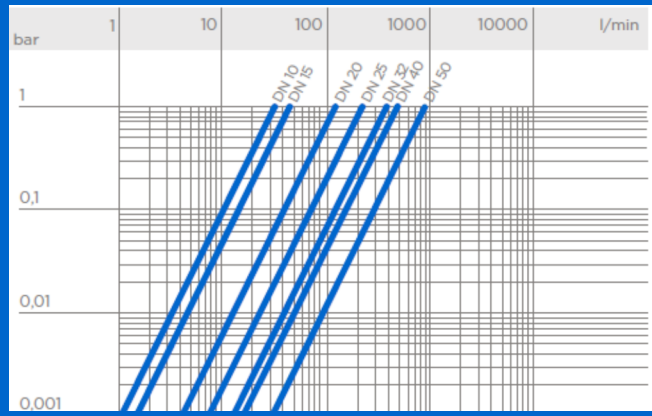
Flow Path	DN10	DN15	DN20	DN25	DN32	DN40	DN50
A	25	35	95	140	270	330	620
B	37	55	135	205	390	475	900
C	78	195	380	760	1050	1700	3200
D	40	65	145	245	460	600	1200
E	48	73	150	265	475	620	1220

*Values in Kv100 l/min. 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.

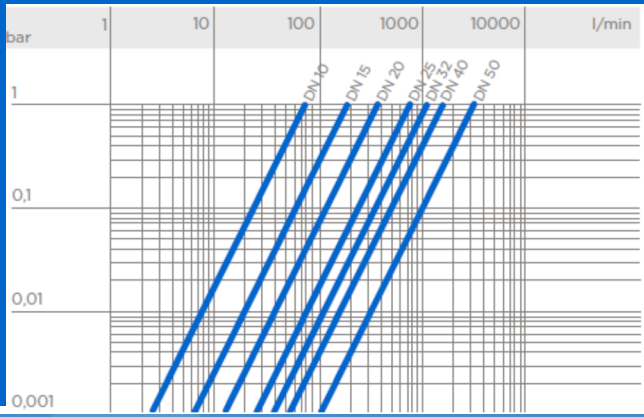
FLOW A



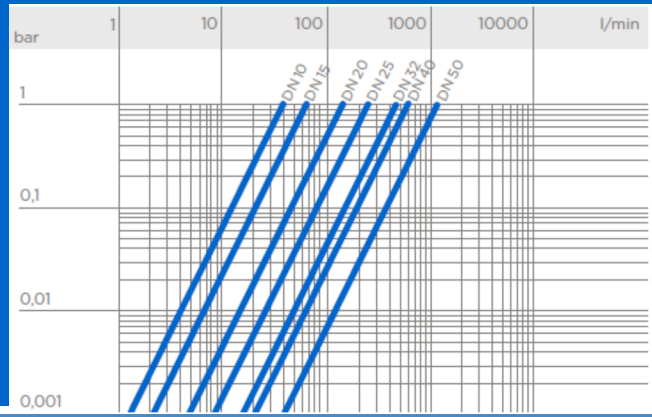
FLOW B



FLOW C

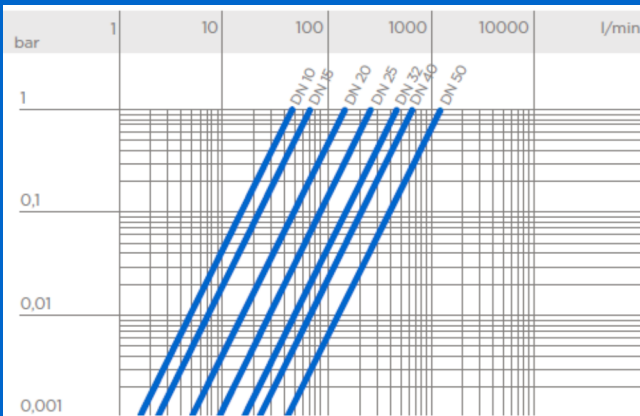


FLOW D





FLOWE

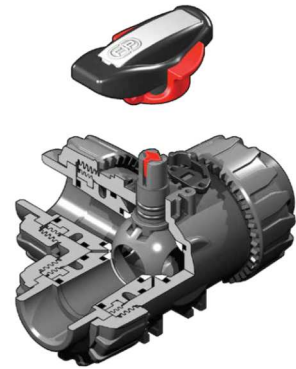


Ergonomic Hi-PVC handle with removable tool.

Handle lock 0°- 90° (SHKD)

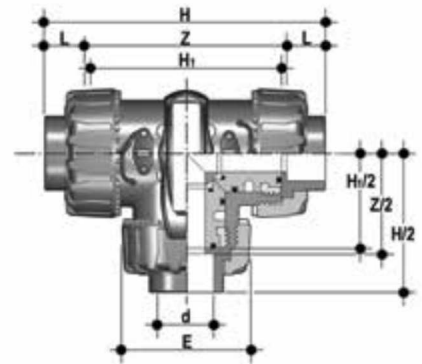
Patented lock system that ensures union nut tightness

4 x PTFE ball seat system that compensates axial force



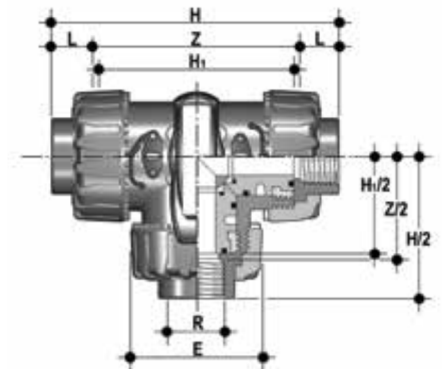
TKDIA - LKDIA DUAL BLOCK® 3-way ball valve with female ends for solvent welding, metric series (TKDIV: T-port ball | LKDIV: L-port ball)

d	DN	PN	E	H	H	L	Z	g
16	10	16	54	118	80	14	90	310
20	15	16	54	118	80	16	86	310
25	20	16	65	145	100	19	107	550
32	25	16	73	160	110	22	116	790
40	32	16	86	188.5	131	26	136.5	1275
50	40	16	98	219	148	31	157	1660
63	50	16	112	266.5	179	38	190.5	2800



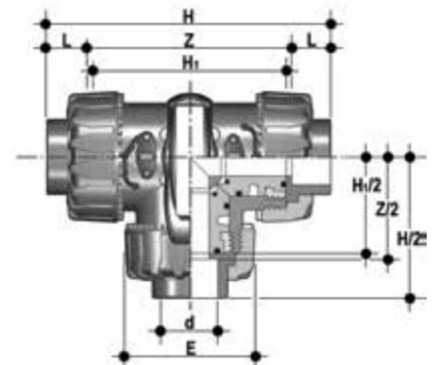
TKDFA - LKDFA DUAL BLOCK® 3-way ball valve with BSP threaded female ends (TKDFV: T-port ball | LKDFV: L-port ball)

d	DN	PN	E	H	H	L	Z	g
½"	15	16	54	125	80	15	95	310
¾"	20	16	65	146	100	16.3	114	550
1"	25	16	73	166	110	19.1	129	790
1¼"	32	16	86	195.5	131	21.4	151	1275
1½"	40	16	98	211	148	21.4	166	1660
2"	50	16	122	253.5	179	25.7	199	2800



TKDAA - LKDAA DUAL BLOCK® 3-way ball valve with female ends for solvent welding, ASTM series (TKDAV: T-port ball | LKDAV: L-port ball)

d	DN	PN	E	H	H	L	Z	g
½"	15	16	54	132.2	80	23	87.2	310
¾"	20	16	65	159.2	100	25.5	108.2	550
1"	25	16	73	174	110	28.7	116.6	790
1¼"	32	16	86	205	131	32	141	1275
1½"	40	16	98	227.6	148	35	157.6	1660
2"	50	16	122	267	179	38.2	190.6	2800



PRODUCT DIMENSIONS

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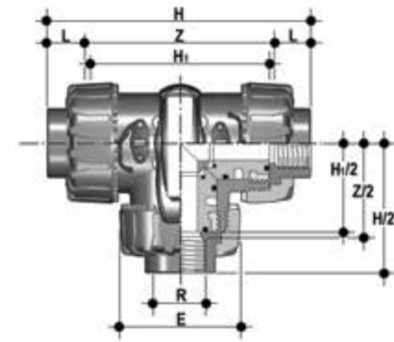




DIMENSIONS
PRODUCT ACCESSORIES

TKDNA - LKDNA DUAL BLOCK® 3-way ball valve with female ends, NPT thread (TKDNV: T-port ball | LKDNV: L-port ball)

d	DN	PN	B	H	H _i	L	Z	g
½"	15	16	54	126	80	18	90.4	310
¾"	20	16	65	146.4	100	18	110.4	550
1"	25	16	73	166.6	110	22.6	121.4	790
1¼"	32	16	86	195.8	131	25.1	145.6	1275
1½"	40	16	98	211.4	148	24.7	162	1660
2"	50	16	122	253.8	179	29.6	194.6	2800



PSKD Stem extension

d	DN	A	A ₁	A ₂	E	B	B	B _{rin}
16	10	32	25	32	54	70	29	139.5
20	15	32	25	32	54	70	29	139.5
25	20	32	25	40	65	89	34.5	164.5
32	25	32	25	40	73	93.5	39	169
40	32	40	32	50	86	110	46	200
50	40	40	32	50	98	116	52	206
63	50	40	32	59	122	122	62	225



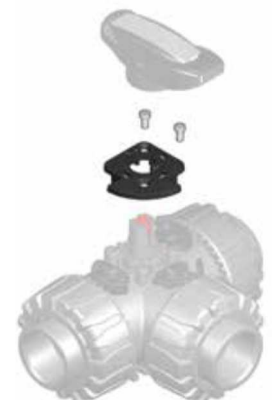
SHKD Handle block kit 0° - 90° lockable

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



LTKD The LTKD stroke limiter. The LTKD090 version permits operations for 90° angles while the LTKD180 version for 180° angles.

d	DN
16-20	10-15
25-32	20-25
40-50	32-40
63	50



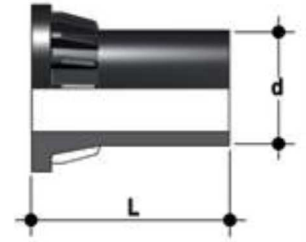
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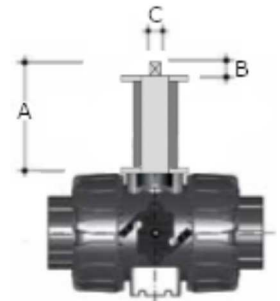
CVDE Long spigot PE100 end connectors for joints with electrofusion fittings or for butt welding

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
52	40	16	84	11
63	50	16	91	11



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.

BALL END CARRIER TOOL Adjusting tool retained in handle - standard feature in VKD & TKD ball valves



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