



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



### TKD DN10/50 uPVC

EU MANUFACTURER:

Suitable Applications & Approvals:



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

<b>Construction</b>	3-way True Union ball valve with locked carrier and union nuts
<b>Size Range</b>	DN 10 ÷ 50
<b>Nominal Pressure</b>	PN 16 with water at 20 °C
<b>Operating Temperature</b>	0 °C ÷ 60 °C
<b>Coupling Standards</b>	<b>Solvent welding:</b> 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  <b>Thread:</b> ISO 228-1, DIN 2999, ASTM D 2464, JIS B 0203  <b>Flanging system:</b> ISO 7005-1, EN ISO 1452, EN ISO 15493, EN 558-1, DIN 2501, ANSI B.16.5 cl. 150, JIS B 2220
<b>Reference Standards</b>	<b>Construction criteria:</b> EN ISO 16135, EN ISO 1452, EN ISO 15493  <b>Test methods and requirements:</b> ISO 9393  <b>Installation criteria:</b> DVS 2204, DVS 2221, UNI 11242  <b>Actuator couplings:</b> ISO 5211
<b>Valve Material</b>	PVC-U
<b>Seal Material</b>	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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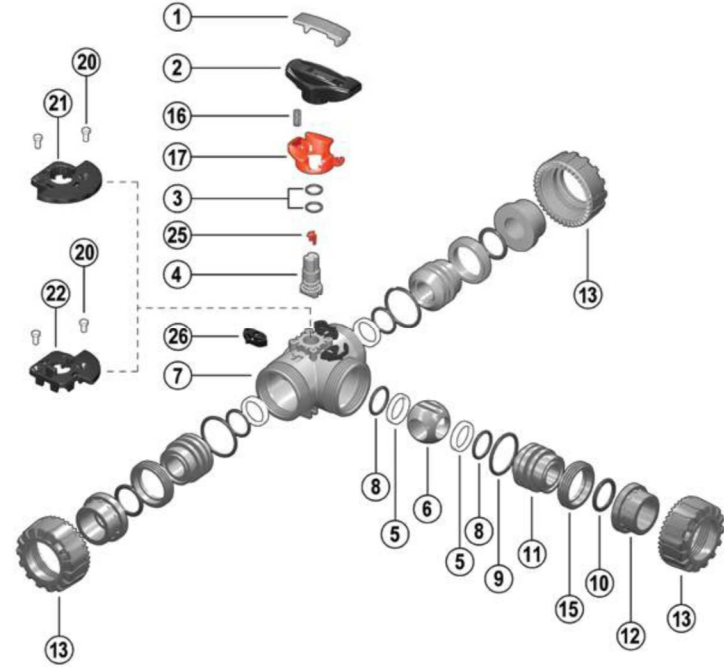
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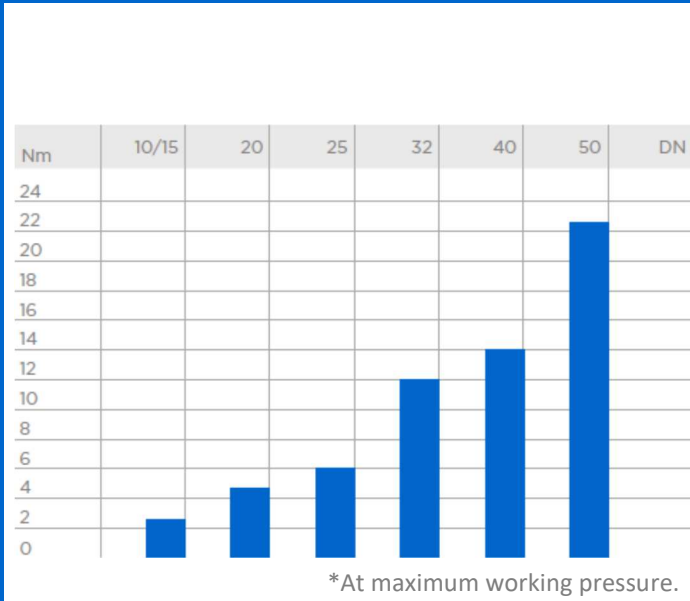


PRODUCT MATERIALS

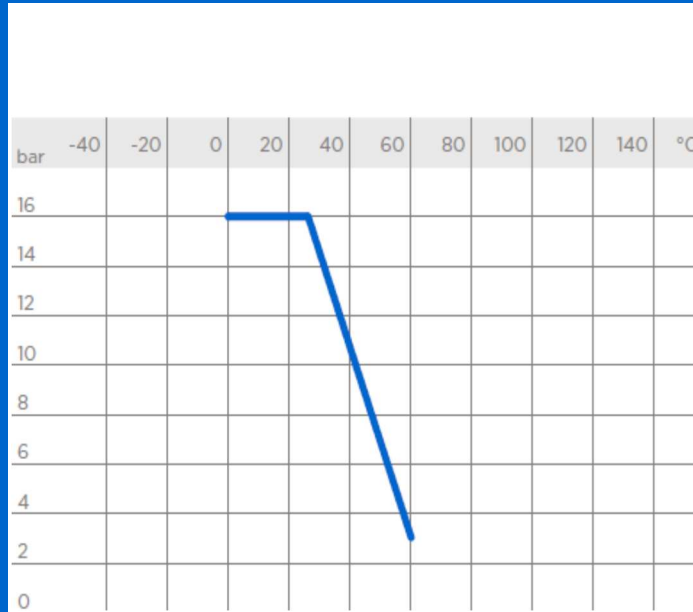
Part	Component	Material
1	Handle insert	PVC-U
2	Handle	HIPVC
3	Stem O-rings	EPDM / FPM
4	Stem	PVC-U
5	Ball seat	PTFE
6	Ball	PVC-U
7	Body	PVC-U
8	Ball seat O-ring	EPDM / FPM
9	Radial seal O-Ring	EPDM / FPM
10	Socket seal O-Ring	EPDM / FPM
11	Ball seat carrier	PVC-U
12	End connector	PVC-U
13	Union nut	PVC-U
15	Threaded ring	PVC-U
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\*



PRESSURE VARIATION

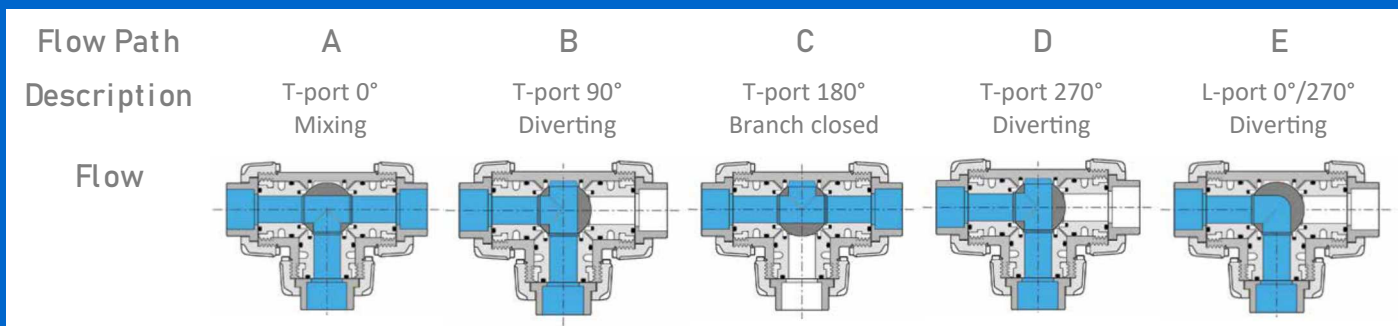


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DESIGN

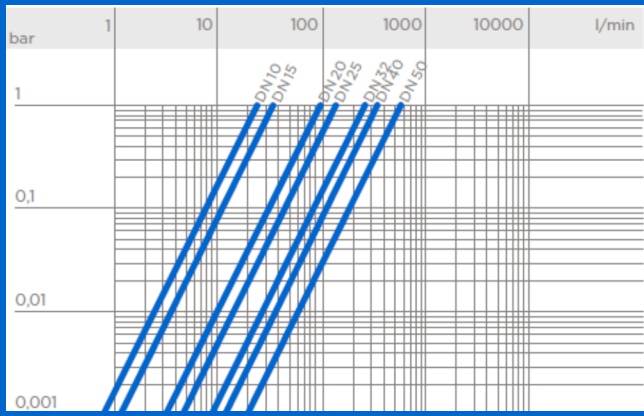


FLOW

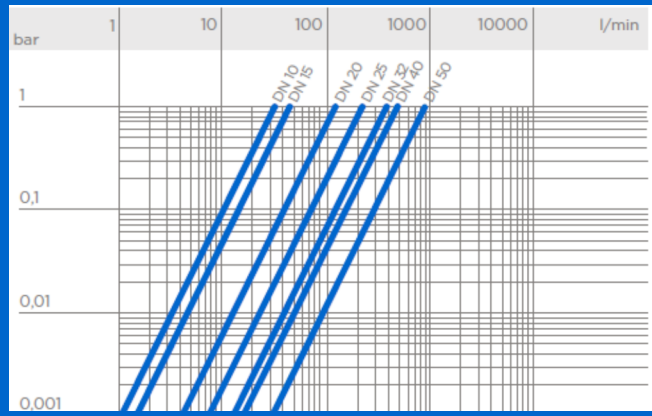
Flow	DN10	DN15	DN20	DN25	DN32	DN40	DN50
A	25	35	95	140	270	330	620
B	37	55	135	205	390	475	900
C	78	195	380	760	1050	1700	3200
D	40	65	145	245	460	600	1200
E	48	73	150	265	475	620	1220

\*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.

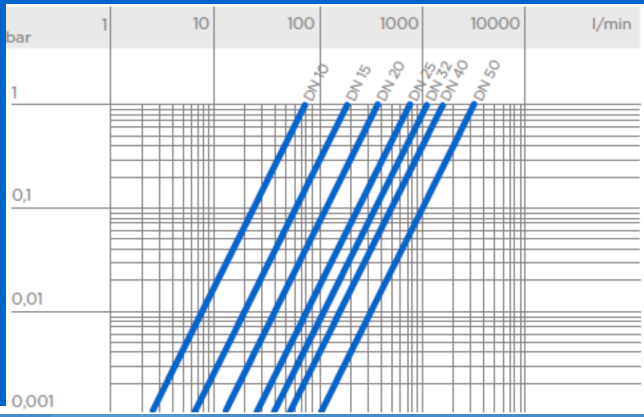
FLOW A



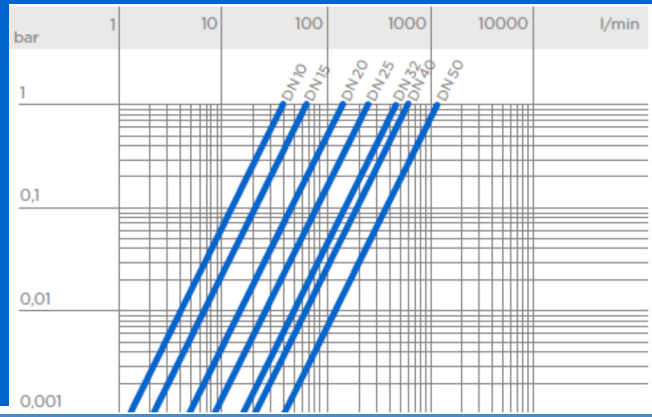
FLOW B



FLOW C

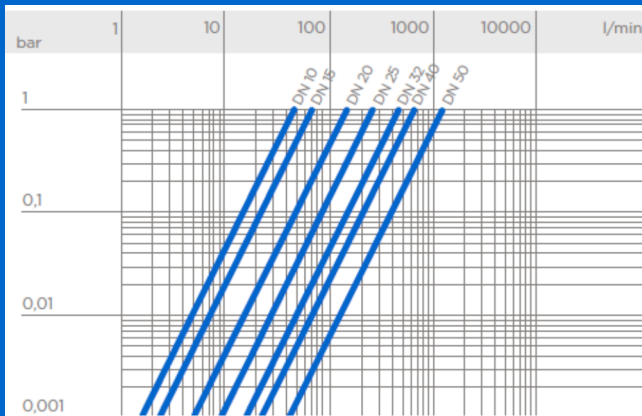


FLOW D





FLOWE

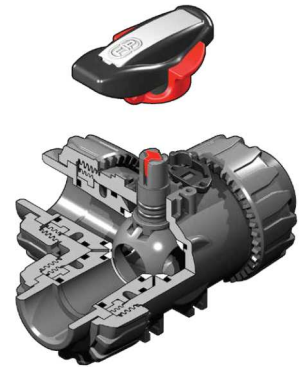


Ergonomic Hi-PVC handle with removable tool.

Handle lock 0° - 90° (SHKD)

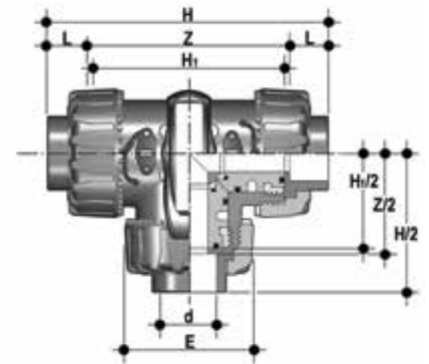
Patented lock system that ensures union nut tightness

4 x PTFE ball seat system that compensates axial force



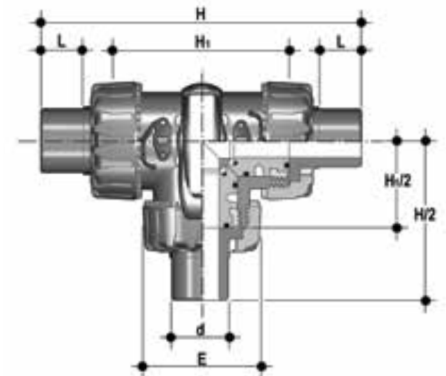
**TKDIV - LKDIV** DUAL BLOCK® 3-way ball valve with female ends for solvent welding, metric series (TKDIV: T-port ball | LKDIV: L-port ball)

d	DN	PN	E	H	H <sub>1</sub>	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



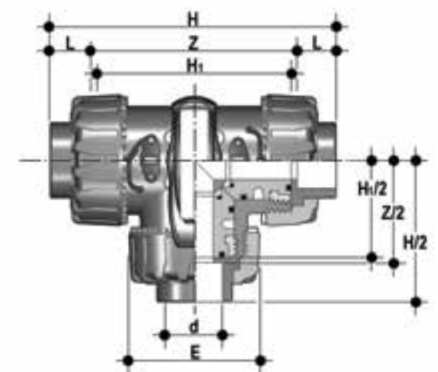
**TKDDV - LKDDV** DUAL BLOCK® 3-way ball valve with male ends for solvent welding, metric series (TKDDV: T-port ball | LKDDV: L-port ball)

d	DN	PN	E	H	H <sub>1</sub>	L	g
20	15	16	54	140	80	16	320
25	20	16	65	175	100	19	565
32	25	16	73	188	110	22	810
40	32	16	86	220	131	26	1305
50	40	16	98	251	148	31	1700
63	50	16	112	294	179	38	2850



**TKDLV - LKDLV** DUAL BLOCK® 3-way ball valve with female ends for solvent welding, BS series (TKDLV: T-port ball | LKDLV: L-port ball)

d	DN	PN	E	H	H <sub>1</sub>	L	Z	g
3/8"	10	16	54	118	80	14.7	88.6	310
1/2"	15	16	54	118	80	17	85	310
3/4"	20	16	65	144.8	100	19	106.8	550
1"	25	16	73	160	110	22.5	115	790
1 1/4"	32	16	86	188.6	131	26	136.6	1275
1 1/2"	40	16	98	219.4	148	30.2	159	1660
2"	50	16	122	266.6	179	36.2	194.2	280



PRODUCT DIMENSIONS



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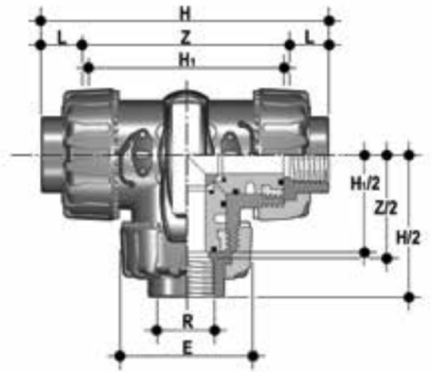
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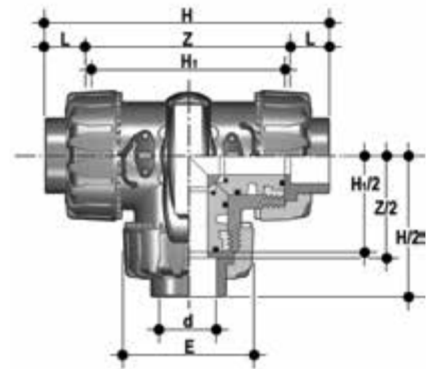
### TKDFV - LKDFV DUAL BLOCK® 3-way ball valve with BSP threaded female ends (TKDFV: T-port ball | LKDFV: L-port ball)

d	DN	PN	E	H	H <sub>1</sub>	L	Z	g
3/8"	10	16	54	118	80	11.4	95	310
1/2"	15	16	54	125	80	15	95	310
3/4"	20	16	65	146	100	16.3	114	550
1"	25	16	73	166	110	19.1	129	790
1 1/4"	32	16	86	195.5	131	21.4	151	1275
1 1/2"	40	16	98	211	148	21.4	166	1660
2"	50	16	122	253.5	179	25.7	199	2800



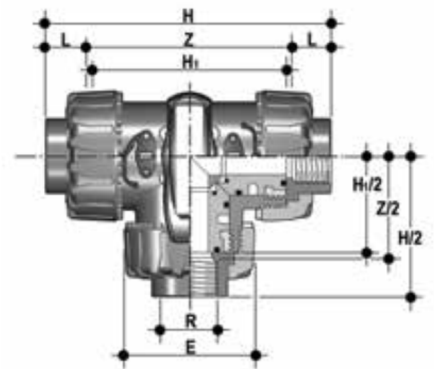
### TKDAV - LKDAV DUAL BLOCK® 3-way ball valve with female ends for solvent welding, ASTM series (TKDAV: T-port ball | LKDAV: L-port ball)

d	DN	PN	E	H	H <sub>1</sub>	L	Z	g
3/8"	10	16	54	132.2	80	19.5	93.2	310
1/2"	15	16	54	132.2	80	23	87.2	310
3/4"	20	16	65	159.2	100	25.5	108.2	550
1"	25	16	73	174	110	28.7	116.6	790
1 1/4"	32	16	86	205	131	32	141	1275
1 1/2"	40	16	98	227.6	148	35	157.6	1660
2"	50	16	122	267	179	38.2	190.6	2800



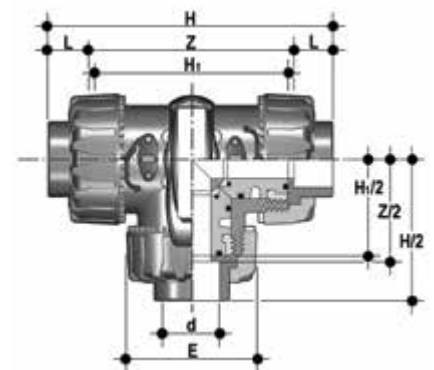
### TKDNV - LKDNV DUAL BLOCK® 3-way ball valve with female ends, NPT thread (TKDNV: T-port ball | LKDNV: L-port ball)

d	DN	PN	B	H	H <sub>1</sub>	L	Z	g
3/8"	10	16	54	118	80	13.7	90.6	310
1/2"	15	16	54	126	80	18	90.4	310
3/4"	20	16	65	146.4	100	18	110.4	550
1"	25	16	73	166.6	110	22.6	121.4	790
1 1/4"	32	16	86	195.8	131	25.1	145.6	1275
1 1/2"	40	16	98	211.4	148	24.7	162	1660
2"	50	16	122	253.8	179	29.6	194.6	2800



### TKDJV - LKDJV DUAL BLOCK® 3-way ball valve with female ends for solvent welding, JIS series (TKDJV: T-port ball | LKDJV: L-port ball)

d	DN	PN	B	H	H <sub>1</sub>	L	Z	g
1/2"	15	16	54	146	80	30	86	310
3/4"	20	16	65	177.7	100	35	107	550
1"	25	16	73	196	110	40	116	790
1 1/4"	32	16	86	225	131	44	137	1275
1 1/2"	40	16	98	267.2	148	55	157.2	1660
2"	50	16	122	316	179	63	190	2800

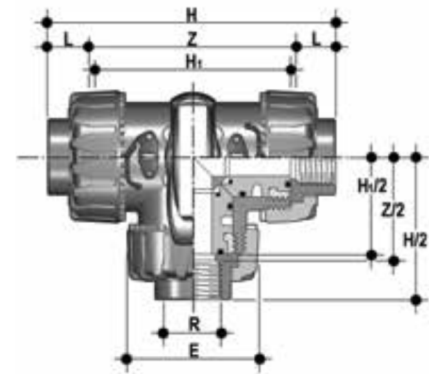




DIMENSIONS

### TKDGV - LKDGV DUAL BLOCK® 3-way ball valve with female ends, JIS thread (TKDGV: T-port ball | LKDGV: L-port ball)

d	DN	PN	E	H	H <sub>1</sub>	L	Z	g
½"	15	16	54	118	80	16	86	310
¾"	20	16	65	144.8	100	19	106.8	550
1"	25	16	73	160	110	22	116	790
1¼"	32	16	86	188.6	131	25	138.6	1275
1½"	40	16	98	219.4	148	26	167.4	1660
2"	50	16	122	266.6	179	31	204.6	2800



### PSKD Stem extension

d	DN	A	A <sub>1</sub>	A <sub>2</sub>	E	B	B <sub>1</sub>	B <sub>min</sub>
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



PRODUCT ACCESSORIES

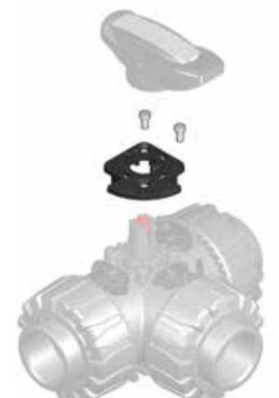
### SHKD Handle block kit 0° - 90° lockable

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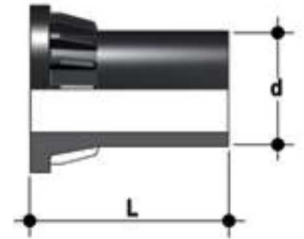
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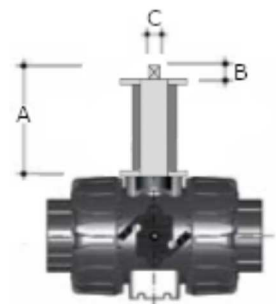
## CVDE Long spigot PE100 end connectors for joints with electrofusion fittings or for butt welding

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<sup>®</sup> 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

