



BK3

Three-way diverter ball valve



Standard BK3
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Dimensions : DN04 to DN25

body: FSt-PI, free cutting steel,
S355J2G3 ball + stem: free cutting steel,
stainless steel (1.4571/316Ti)
sealing: plastics, metal

Adapter:

BSP thread, NPT thread, compression
fitting light and heavy series, UNC/UNF
female thread, bulkhead connection

Pressure range:

up to PN400 (note table of dimensions)

Field of application:

hydraulics, particularly in construction
industry and agricultural machinery,
mining industry (**Material of seals and
body adapted to application!**)

Temperature range:

standard: -20°C to +60°C (-4 to +140°F)

Surface:

black oxide finishing, chrome-VI-free,
varnished

Special equipment on request!

- locking device
- actuators
- base plate
- mounting holes
- position switches
- combinations
- detent kits
- special materials



BK3 with cover and bottom adapter



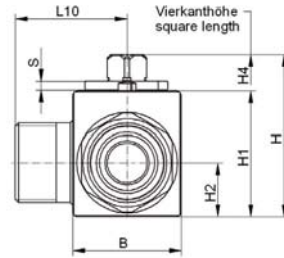
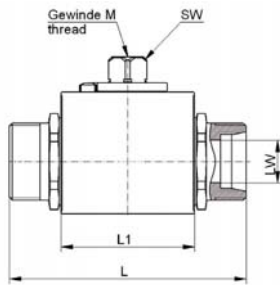
BK3 with mounting holes



BK3 with base plate



BK3 combination



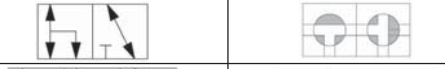



BK3: Dreiwege-Umschaltkugelhahn • Three-way diverter ball valve

DN mm	LW mm	PN ¹⁾ bar	L1 mm	B mm	H mm	H1 mm	H2 mm	H4 mm	SW mm	M	s mm
4	Ø 5	400	36	26	43,5	32	13	10,9	9	M5	3
6	Ø 6	400	36	26	43,5	32	13	10,9	9	M5	3
8	Ø 8	400	36	26	43,5	32	13	10,9	9	M5	3
10	Ø 10	400	43	32	49	38	16,5	10,9	9	M5	3
13	Ø 13	350	48	35	51	40	17,5	10,9	9	M5	3
16	Ø 15	350	48	38	62	46	19	15,5	12	M6	3,5
20	Ø 20	350	61	49	73	57	24,5	16	14	M6	4
25	Ø 24	350	65	54	76	60	26,5	16	14	M6	4

¹⁾

For PN max. and tightening torque see data of the compression fitting manufacturer. • Dimensions apply for FSt-PI and free cutting steel, dimensions of S355J2G3 bodies are different. • Other face to face dimensions on request. • Reduced press. rating must be taken into consideration acc. to application and materials. • Dimensions subject to change without notice.

Order No.	Design	Operation (Overlap)	Operation symbols
L (LA)	L-Bohrung (allseits) L-bore (bi-direct.)	0° - 90° (negativ)	
P (PA) ^{1), 2)}	L-Positiv-Bohrung (allseits) L-positive-bore (bi-direct.)	0° - 90° - 180° (positiv)	
T (TA)	T-Bohrung (allseits) T-bore (bi-direct.)	0° - 90° (negativ)	
T180° ²⁾ (TA180°) ²⁾	T-Bohrung (allseits) T-bore (bi-direct.)	0° - 90° - 180° (negativ)	

¹⁾ In Mittelstellung (90°) Druckbeaufschlagung nur am 3. Anschluss möglich. • In middle position (90°) only pressurizing of third port possible.

²⁾ Rasterung bei Übergangstellung empfehlenswert. • For middle position detent kit recommended.

BK3 ball valves are normally outlet sealed. This means, the closed side is only sealed when there is no or less pressure than at the inlet port. A bi-directional sealing system is available on request. With this system the closed port is still sealed even if there is a higher pressure than at the inlet port. Both types can only be used with the middle port as entry! Please note the bi-directional sealing system with your order (e.g. LA, PA, TA or TA180°)!

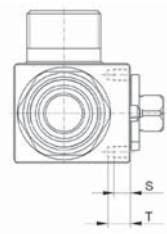
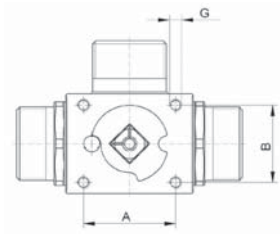
Order code

Serie 100	Anschluss ³⁾	Nennweite	Schaltbild	Werkstoff ⁴⁾	Zubehör / Sonder ⁴⁾ siehe Rubrik Zubehör
Series 100	Connection ³⁾	Nominal size	Porting diagram	Material ⁴⁾	Equipment / specials ⁴⁾ see category equipment
BK3	G1/2	10	L (LA)	1123 0	BoDg

Mounting holes for BK3

BoSte :

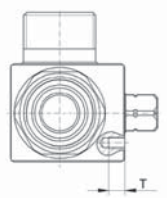
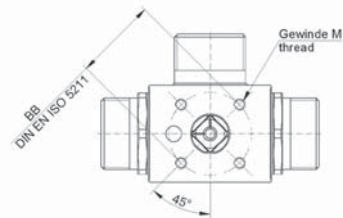
• panel mounting



DN mm	A mm	B mm	G	S mm	T mm
4-8	26	18	M5	6	8,5
10	34	24	M6	8	11
13	34	24	M6	8	11
16	34	24	M6	8	11
20	45	38	M6	8	11
25	45	38	M6	8	11

BofA :

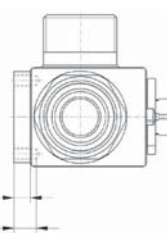
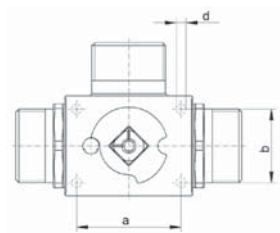
• tapped holes ISO 5211



DN mm	BB mm	ISO	M	T mm
10	Ø 36	F03	M5	7,5
13	Ø 36	F03	M5	7,5
16	Ø 36	F03	M5	7,5
20	Ø 42	F04	M5	9
25	Ø 42	F04	M5	9

Bo4Bo :

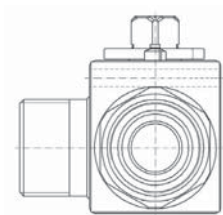
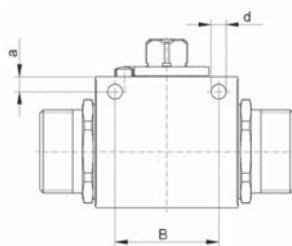
• tapped holes at bottom with additional plate



DN mm	a mm	b mm	d	t mm	s mm
4-8	24	20	M6	—	6
10	34	24	M5	7,5	6,5
13	38	27	M6	7	6,5
16	38	27	M6	7	7
20	51	39	M6	11	8
25	52	48	M6	11	8

BoDg :

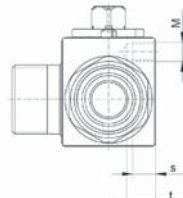
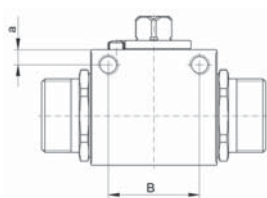
• through-bore holes on the side



DN mm	B mm	a mm	d mm
4-8	26	5	Ø 4,5
10	32	5	Ø 6,5
13	37,5	4,8	Ø 6,5
16	37,5	5	Ø 6,5
20	45	6,5	Ø 6,5
25	55	6	Ø 6,7

BoGb :

• tapped holes on the side



DN mm	B mm	a mm	M	s mm	t mm
4-8	24	6	M6	6,5	9
10	32	5,5	M6	7	10
13	36	6	M6	8,5	11
16	32	8	M6	7	10,5
20	45	7,5	M10	12	15
25	45	7,5	M10	12	15

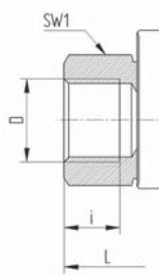
Ball valves with mounting plate or as combination, see chapter equipment.

Please discuss your demand with us! We are happy to help you finding the correct hole pattern and size for your application!

You can reach us by e-mail: <verkauf@pister-gmbh.com>, or phone: (+49) 72 22 / 50 02-0.

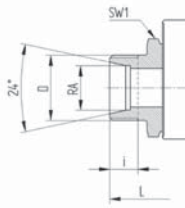
Connection

BSP female thread DIN/ISO 228



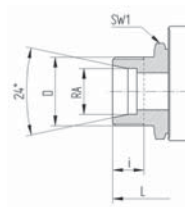
DN	LW	Gewindegröße • Bestellschlüssel Screw size • Order code	Gewindegröße bei DIN2353 Screw size for DIN2353	L	L10	i	SW1	Gewicht • Weight
mm	mm		mm	mm	mm	mm	mm	kg
4	Ø 5	G 1/8	—	69	32	8	22	0,4
6	Ø 6	G 1/4	—	69	32	12	22	0,4
10	Ø 7	G 3/8	—	69	37	12	22	0,4
10	Ø 9	G 3/8	—	73	35	12	27	0,55
13	Ø 11,5	G 1/2	—	85	37	14	30	0,7
16	Ø 14	G 1/2	—	84	38	14	32	0,8
20	Ø 18	G 3/4	—	96	47	16	41	1,55
25	Ø 22	G 1	—	113	55	18	46	2,1
32	Ø 22	G 5/4	—	121	55	20	50	2,2
40	Ø 22	G 3/2	—	124	56	22	55	2,4

For compression fitting, light series DIN 2353 L



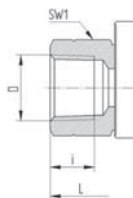
4	Ø 5	6L	M 12x1,5	67	32	7,5	22	0,35
6	Ø 6	8L	M 14x1,5	67	32	7,5	22	0,35
8	Ø 7	10L	M 16x1,5	71	32	8,5	22	0,35
10	Ø 7	12L	M 18x1,5	71	32	8,5	22	0,35
10	Ø 9	12L	M 18x1,5	75	35	8,5	27	0,55
13	Ø 9	15L	M 22x1,5	77	40	9,5	27	0,55
13	Ø 11,5	15L	M 22x1,5	84	42	9,5	30	0,65
16	Ø 11,5	18L	M 26x1,5	84	42	9,5	30	0,65
16	Ø 14	18L	M 26x1,5	83	43	9,5	32	0,8
20	Ø 18	22L	M 30x2	102	47	12	41	1,6
25	Ø 22	28L	M 36x2	108	55	12	46	2,1
32	Ø 22	35L	M 45x2	114	60	13,5	50	2,2
40	Ø 22	42L	M 52x2	114	60	13,5	55	2,4

For compression fitting, heavy series DIN 2353 S



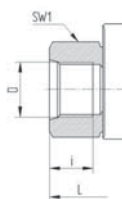
4	Ø 5	6S	M 14x1,5	71,5	32	9,5	22	0,4
4	Ø 5	8S	M 16x1,5	73	32	9,5	22	0,4
6	Ø 6	10S	M 18x1,5	73	32	9,5	22	0,4
8	Ø 7	12S	M 20x1,5	77	32	9,5	22	0,4
10	Ø 9	14S	M 22x1,5	84	35	11,5	27	0,55
13	Ø 11,5	16S	M 24x1,5	87	42	11,5	30	0,65
16	Ø 11,5	20S	M 30x2	91	42	13,5	30	0,7
16	Ø 14	20S	M 30x1,5	91	43	13	32	0,8
20	Ø 18	25S	M 36x2	110	47	15	41	1,6
25	Ø 22	30S	M 42x2	120	55	17	46	2,1
32	Ø 22	38S	M 52x2	140	74	19	50	3,2

NPT female thread ANSI B 1.20.1



4	Ø 5	1/8 NPT	—	69	32	8	22	0,4
6	Ø 6	1/4 NPT	—	69	32	11,5	22	0,4
10	Ø 9	3/8 NPT	—	73	35	12	27	0,55
16	Ø 11,5	1/2 NPT	—	92	42	15,5	30	0,7
20	Ø 18	3/4 NPT	—	97	47	16	41	1,55
25	Ø 22	1 NPT	—	113	55	19	46	2,1
32	Ø 22	5/4 NPT	—	131	55	19,5	50	2,2
40	Ø 22	3/2 NPT	—	139	74	19,5	55	2,5

UN/UNF female thread SAE J514



6	Ø 6	7/16-20 UNF-2B	—	69	32	11,5	22	0,4
10	Ø 10	9/16-18 UNF-2B	—	75	35	12,7	27	0,55
13	Ø 13	3/4-16 UNF-2B	—	85	37	14,3	30	0,7
20	Ø 20	1 1/16-12 UN-2B	—	96	50	19	41	1,55
25	Ø 24	1 5/16-12 UN-2B	—	114	60	19	46	2,1
32	Ø 24	1 5/8-12 UN-2B	—	110	70	19	60	3,4
40	Ø 24	1 7/8-12 UN-2B	—	117	74	19	70	4,2

Special connections with imperial male thread, metric female or male threads, as well as bulkhead connections on request!