

EHTB Series

EVOTEK Three-Way Ball Valves



Product Description

- Operating pressure up to 500 bar
- DN up to 50
- Application in hydraulics, particularly in construction industry and agricultural machinery, mining industry
- All ball valves can be supplied with the following options: Actuator, Limit controls & Lock

Technical Specifications

Application:

In-line assembly

Standard Connections Styles:

Female BSP thread (DIN ISO 228)

Female NPT thread (ANSI B1.20.1)

Female UN/UNF thread (SAE J 514)

24° Cone Connection light Series (DIN 2353 / ISO 8434-1)

24° Cone Connection Heavy Series (DIN 2353 / ISO 8434-1)

Construction:

Block body design

Type of construction:

Shut-off device is a ball

Nominal pressure:

PN 315 bar up to PN 500 bar (according to dimension table)

Operating fluids:

Oils, petroliferous and petrochemical products

Operating temperature range:

-20°C to 100°C

Standard Material

Body:

Carbon Steel

Ball:

Carbon Steel

Stem:

Carbon Steel

Lever:

Zinc Alloy Bent (DN 06 to 25)

Steel Straight (DN 06 to 25)

Steel Bent (DN 32 to 50)

Ball seat:

POM

O-rings:

NBR/FKM

Porting patterns

Attention:

Hydraulic oil can flow into the valve through port "1" !

The valve can only be sealed under two specific situations.

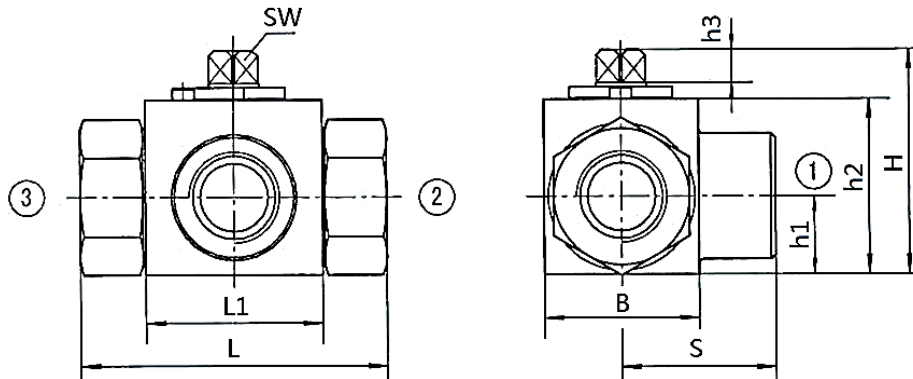
(1) Pressure at the closed port is zero.

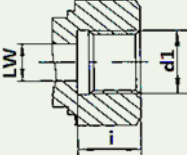
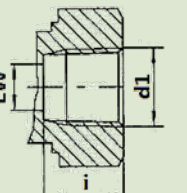
(2) Pressure at the closed port is lower than at the two open ports.

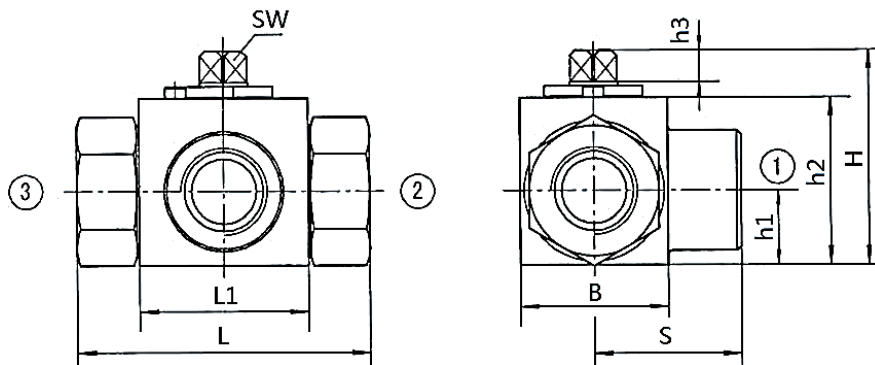
(3) Please order Model EHTBS in case you need pressure inlet from all ports.

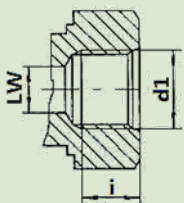
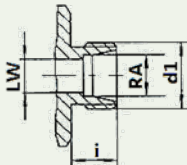
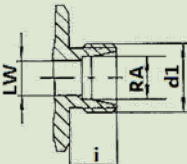
Function diagram

Ball bore	Operation	Order no.	Functions
L	90°	L01	0° 90°reversing
T	90°	T01	0° 90°reversing
T	180°	T02	0° 90° 180°



Connection type	Type	DN	LW	RA	d1	i	L	L1	B	H	h1	h2	h3	SW	S
DIN ISO 228 Female thread 	EHTB-G1/8	04	06	-	G1/8	10	69	37	28	44.5	13	32	8	9	35
	EHTB-G1/4	06	06	-	G1/4	14	69	37	28	44.5	13	32	8	9	35
	EHTB-G3/8	10	10	-	G3/8	14	72	42	32	52.5	17	40	8	9	36
	EHTB-G1/2-SW9	13	13	-	G1/2	16	83	48	35	52.5	17	40	8	9	40
	EHTB-G1/2-SW12	16	15	-	G1/2	16	83	47	38	63.5	19	46	11	12	42
	EHTB-G3/4	20	20	-	G3/4	18	95	60	48	75	24	57	12	14	49
	EHTB-G1	25	25	-	G1	20.5	113	65	57	82	28.5	64	12	14	56.5
	EHTB-G1 1/4 -SW14	25/32	25	-	G1 1/4	22	120	65	60	82	28.5	64	12	14	60
	EHTB-G1 1/4 -SW17	32	30	-	G1 1/4	22	110	84	75	104.5	37.5	84	14	17	55
	EHTB-G1 1/2	40	38	-	G1 1/2	24	130	91	85	115.5	42.5	95	14	17	65
	EHTB-G2	50	48	-	G2	26	140	100	105	133	52.5	112.5	14	17	70
ANSI B1.20.1 NPT female thread 	EHTB-1/8NPT	04	06	-	1/8NPT	10.5	69	37	28	44.5	13	32	8	9	35
	EHTB-1/4NPT	06	06	-	1/4NPT	14	69	37	28	44.5	13	32	8	9	35
	EHTB-3/8NPT	10	10	-	3/8NPT	14	72	42	32	52.5	17	40	8	9	36
	EHTB-1/2NPT	13	13	-	1/2NPT	17	83	48	35	52.5	17	40	8	9	40
	EHTB-3/4NPT	20	20	-	3/4NPT	19	95	60	48	75	24	57	12	14	49
	EHTB-1NPT	25	25	-	1NPT	22.5	113	65	57	82	28.5	64	12	14	56.5
	EHTB-1 1/4NPT-SW14	25/32	25	-	1 1/4NPT	22.5	120	65	60	82	28.5	64	12	14	60
	EHTB-1 1/4NPT-SW17	32	30	-	1 1/4NPT	25	120	84	75	104.5	37.5	84	14	17	60
	EHTB-1 1/2NPT	40	38	-	1 1/2NPT	25	130	91	85	115.5	42.5	95	14	17	70
	EHTB-2NPT	50	48	-	2NPT	30	140	100	105	133	52.5	112.5	14	17	75



Connection type	Type	DN	LW	RA	d1	I	L	L1	B	H	h1	h2	h3	SW	S
SAE J 5/4 UN/UNF Female thread 	EHTB-SAE4	06	06	-	7/16-20UNF	12	69	37	28	44.5	13	32	8	9	35
	EHTB-SAE6	10	10	-	9/16-18UNF	13	72	42	32	52.5	17	40	8	9	36
	EHTB-SAE8	13	13	-	3/4-16UNF	15	83	48	35	52.5	17	40	8	9	40
	EHTB-SAE12	20	20	-	1 1/16-12UN	20	95	60	48	75	24	57	12	14	49
	EHTB-SAE16	25	25	-	1 5/16-12UN	20	113	65	57	82	28.5	64	12	14	56.5
	EHTB-SAE20-SW14	25/32	25	-	1 5/8-12UN	20	120	65	60	82	28.5	64	12	14	60
	EHTB-SAE20-SW17	32	30	-	1 5/8-12UN	20	120	84	75	104.5	37.5	84	14	17	60
	EHTB-SAE24	40	38	-	1 7/8-12UN	20	130	91	85	115.5	42.5	95	14	17	70
DIN 2353 Light range 	EHTB-06LR	04	04	06	M12x1.5	10	67	37	28	44.5	13	32	8	9	34.5
	EHTB-08LR	06	06	08	M14x1.5	10	67	37	28	44.5	13	32	8	9	34.5
	EHTB-10LR	08	08	10	M16x1.5	11	74	42	32	52.5	17	40	8	9	37
	EHTB-12LR	10	10	12	M18x1.5	11	74	42	32	52.5	17	40	8	9	37
	EHTB-15LR-SW9	13	13	15	M22x1.5	12	82	48	35	52.5	17	40	8	9	40
	EHTB-15LR-SW12	13	13	15	M22x1.5	12	82	47	38	63.5	19	46	11	12	40
	EHTB-18LR-SW9	13	13	18	M26x1.5	12	82	48	35	52.5	17	40	8	9	42
	EHTB-18LR-SW12	16	15	18	M26x1.5	12	82	47	38	63.5	19	46	11	12	42
	EHTB-22LR	20	19	22	M30x2	14	101	60	48	75	24	57	12	14	52
	EHTB-28LR	25	25	28	M36x2	14	108	65	57	82	28.5	64	12	14	54
DIN 2353 Heavy range 	EHTB-35LR	25/32	25	35	M45x2	16	112	65	60	82	28.5	64	12	14	56
	EHAB-08SR	04	05	08	M16x1.5	12	73	37	28	44.5	13	32	8	9	37
	EHAB-10SR	06	06	10	M18x1.5	12	73	37	28	44.5	13	32	8	9	37
	EHAB-12SR	08	08	12	M20x1.5	12	76	42	32	52.5	17	40	8	9	38
	EHAB-14SR	10	10	14	M22x1.5	14	80	42	32	52.5	17	40	8	9	40
	EHAB-16SR-SW9	13	13	16	M24x1.5	14	86	48	35	52.5	17	40	8	9	43.5
	EHAB-16SR-SW12	13	13	16	M24x1.5	14	86	47	38	63.5	19	46	11	12	43.5
	EHAB-20SR-SW9	13	13	20	M30x2	16	90	48	35	52.5	17	40	8	9	45.5
	EHAB-20SR-SW12	16	15	20	M30x2	16	90	47	38	63.5	19	46	11	12	45.5
	EHAB-25SR	20	20	25	M36x2	18	109	60	48	75	24	57	12	14	56
	EHAB-30SR	25	25	30	M42x2	20	120	65	57	82	28.5	64	12	14	60
	EHAB-38SR	25/32	25	38	M52x2	22	124	65	60	82	28.5	64	12	14	62

EVOTEK Three-Way Ball Valves

Order Codes

Ball Valve Series	-	Type of connection	-	A	-	B	-	C	-	D	E	F
EHTB	-	G3/8	-	L01	-	B	-	02	-	C	C	M

Select the code for each ball valve feature according to your requirements and place it in the sequence (see example above) to create the corresponding product order code.

A Porting pattern

L01	
T01	see Function diagram
T02	

B O-Ring Material

B	NBR
V	FKM
E	EPDM

C Lever Options

02	Zinc Alloy Bent (DN 06 to 25)
03	Steel Straight (DN 06 to 25)
04	Steel Bent (DN 32 to 50)

D Body and Connection Material

C	Carbon Steel
S	Stainless Steel

E Ball / Stem Material

C	Carbon Steel
S	Stainless Steel

F Ball Seat Material

M	POM
E	PTFE
K	PEEK