

EHTF Series

EVOTEK Three-Way Ball Valves



Product Description

- Operating pressure up to 420 bar
- DN up to 50
- Application in hydraulics, particularly in construction machinery
- All ball valves can be supplied with the following options: Actuator, Limit controls & Lock

Technical Specifications

Application:	In-line assembly
Flange dimensions:	ISO 6162, tables 2 (SAE J 518C)
Flange connections:	SAE fixed flange
Construction:	Block body design
Type of construction:	Shut-off device is a ball
Nominal pressure:	PN 350 bar up to PN 420 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

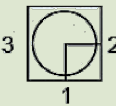
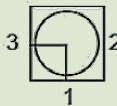
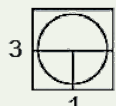
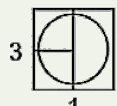
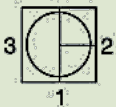
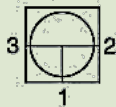
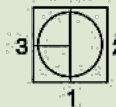
Function diagram

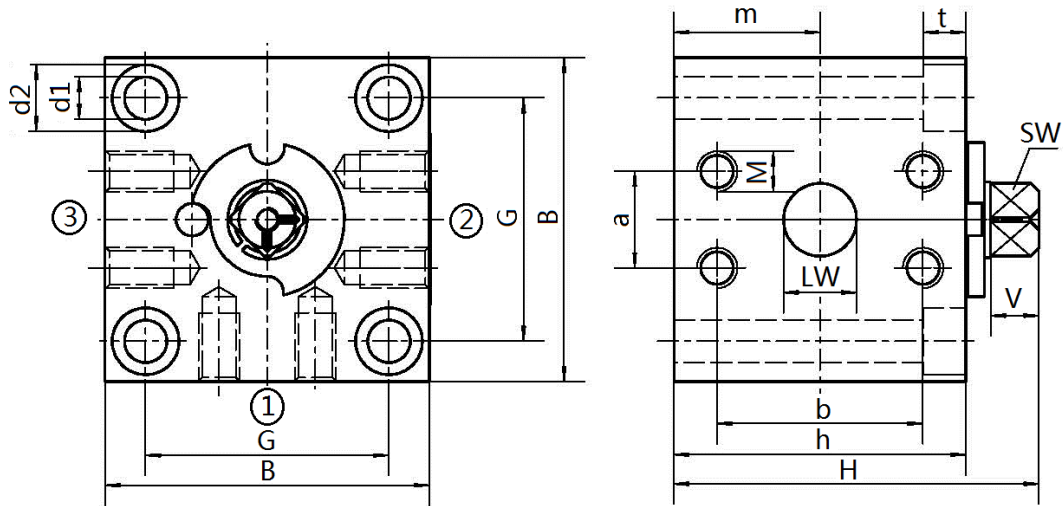
Attention:

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.

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



Type	SAE size	DN	PN (bar)	LW	B	d1	d2	H	h	t	v
EHTF-13	½"	13	420	13	60	8.5	13.5	68	56	9	8
EHTF-20	¾"	20	420	20	80	10.5	16.5	93	75	11	12
EHTF-25	1"	25	420	25	94	10.5	16.5	100	82	11	12
EHTF-32	1¼"	32	350	30	100	13	19	120.5	100	13	14
EHTF-40	1½"	40	350	38	110	13	19	132.5	112	13	14
EHTF-50	2"	50	350	48	135	13	19	155.5	135	13	14

Type	m	a	b	M	SW	G
EHTF-13	28	18.2	40.5	M8	9	43
EHTF-20	37.5	23.8	50.8	M10	14	60
EHTF-25	42	27.8	57.2	M12	14	70
EHTF-32	50.5	31.8	66.6	M14	17	76
EHTF-40	56	36.5	79.4	M16	17	84
EHTF-50	67.5	44.5	96.8	M20	17	108

EVOTEK Flanged Ball Valves with SAE Connections

Order Codes

Ball Valve Series	-	A	-	B	-	C	-	D	-	E	F	G
EHTF	-	20	-	L01	-	B	-	03	-	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 Connection Size

13	DN13
20	DN20
25	DN25
32	DN32
40	DN40
50	DN50

B Porting pattern

L01	
T01	see Function diagram
T02	

C O-Ring Material

B	NBR
V	FKM
E	EPDM

D Lever Options

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

E Body and Connection Material

C	Carbon Steel
S	Stainless Steel

F Ball / Stem Material

C	Carbon Steel
S	Stainless Steel

G Ball Seat Material

M	POM
E	PTFE
K	PEEK