FE3SERIES

THREE WAY **BALL VALVE**

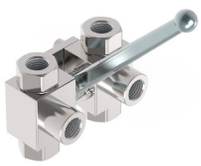




FE3 with mounting holes



FE3 with base plate



FE3 combination

STANDARD FE3

The sealing function of FE3 and FB3 valves is only given when the pressure standing on the closed port is zero or if the pressure between the connected ports is higher than the pressure on the closed port. No shut -off position for third port is possible! To apply pressure from all ports, a special variant is required.

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

Dimensions:
Body: S460N, free cutting steel,
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)

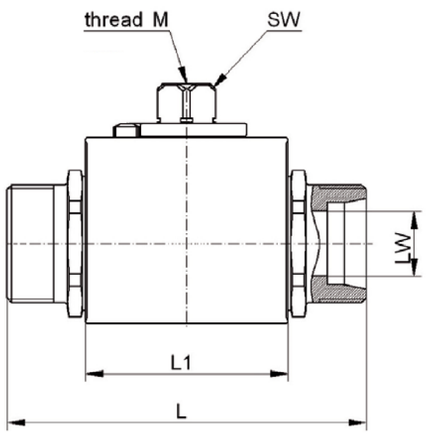
Field of application:
hydraulics, particularly in construction industry and agricultural machinery, mining
industry (Material of seals and body adapted to application!)

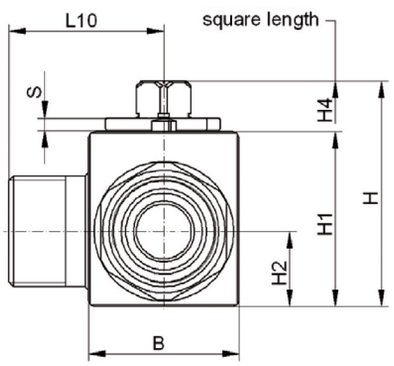
Temperature range:
standard: -20°C to +80°C (-4 to +176°F)

Surface:
black oxide fi nishing, zinc-layer, zinc nickel

Special equipment on request!
- Plocking device
- actuators
- base plate
- mounting holes
- position switches
- combinations
- detent kits
- special materials

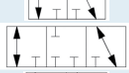
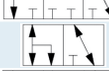
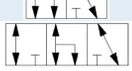
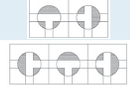
BODY DIMENSIONS





DN	LW	PN[1]	L1	B	H	H1	H2	H4	SW	M	S
mm	mm	bar	mm	mm	mm	mm	mm	mm	mm		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	L-bore	0° - 90° (negativ)		
P	L-positive-bore	0° - 90° - 180° (positiv)		
T	T-bore	0° - 90° (negativ)		
T180° [2]	T-bore	0° - 90° - 180° (negativ)		

[1] In middle position (90°) only pressurizing of third port possible.
[2] For middle position detent kit recommended.

FE3 ball valves are normally outlet sealed. This means, the closed side is only sealed when there is no or less pressure then 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°)!
The bi-directional sealing system can be damaged by pulsating pressure!

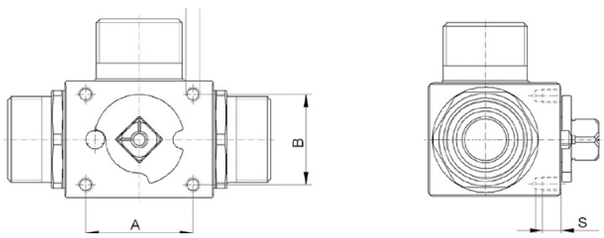
Order Example

Series	Connection[3]	Normal Size	Porting diagram	Pressure	Material	Equipment/Specials/Mounting see category equipment
FE3	G	1/2	L	PN500	CS	BoDg

Please send your request tol: info@stucchiaustralia.com
Please tell us pressure, temperature and medium of your application!

MOUNTING HOLES FOR FE3

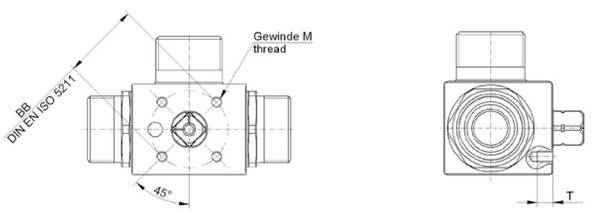
DN	A	B	G	S	T
mm	mm	mm		mm	mm
4-8	26	18	M5	6	8,5
10	34	24	M6	8	11
13	34	24	M6	8	11
16	34	24	M6	8	11
20	45	38	M6	8	11
25	45	38	M6	8	11



BoSte:

Panel Mounting

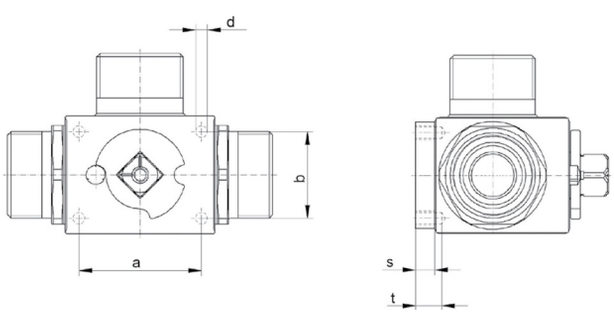
DN	BB	ISO	M	T
mm	mm			mm
10	Ø 36	F03	M5	7,5
13	Ø 36	F03	M5	7,5
16	Ø 36	F03	M5	7,5
20	Ø 42	F04	M5	9
25	Ø 42	F04	M5	9



BofA:

tapped holes ISO 5211

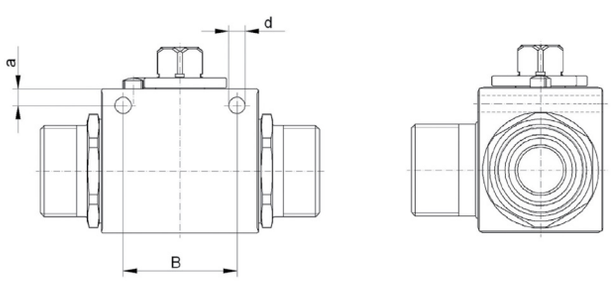
DN	a	b	d	t	s
mm	mm	mm		mm	mm
4-8	24	20	M6	-	6
10	34	24	M5	7,5	6,5
13	38	27	M6	7	6,5
16	38	27	M6	7	7
20	51	39	M6	11	8
25	52	48	M6	11	8



Bo4Bo:

tapped holes at bottom with additional plate

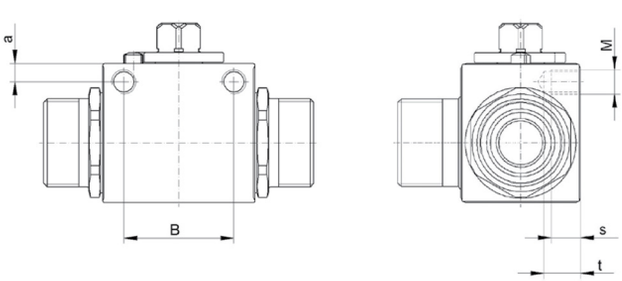
DN	B	a	d
mm	mm	mm	mm
4-8	26	5	Ø 4,5
10	32	5	Ø 6,5
13	37,5	4,8	Ø 6,5
16	37,5	5	Ø 6,5
20	45	6,5	Ø 6,5
25	55	6	Ø 6,7



DoDg:

through-bore holes on the side

DN	B	a	M	s	t
mm	mm	mm		mm	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



BoGb:

tapped holes on the side

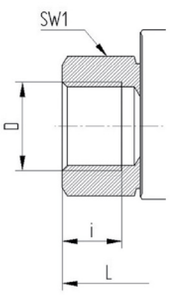
Ball valves with mounting plate or as combination, see chapter equipment.
Please discuss your demand with us! We are happy to help you finding the correct hole pattern and size for your application!
You can reach us by email: info@stucchiaustralia.com

SCREW SOCKETS FOR FE3

Connection

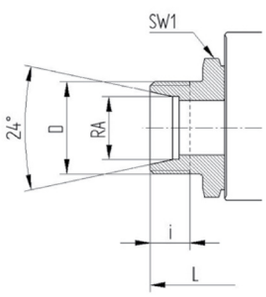
DN	LW	Scew size order code	Scew size for DIN2353	L	L10	i	SW1	Weight
mm	mm		mm	mm		mm	mm	kg

BSP female thread
DIN/ISO 228
Connection Type: G



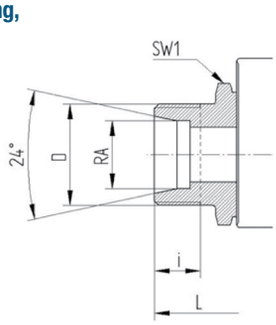
4	Ø 5	G 1/8	-	69	32	8	22	0,4
6	Ø 6	G 1/4	-	69	32	12	22	0,4
10	Ø 7	G 3/8	-	69	37	12	22	0,4
10	Ø 9	G 3/8	-	73	35	12	27	0,55
13	Ø 11,5	G 1/2	-	85	37	14	30	0,7
20	Ø 18	G 3/4	-	96	47	16	41	1,55
25	Ø 22	G 1	-	113	55	18	46	2,1
32	Ø 22	G 1 1/4	-	121	55	20	50	2,2
40	Ø 22	G 1 1/2	-	124	56	22	55	2,4

For compression fitting, light series
DIN 2353 L
Connection Type: L



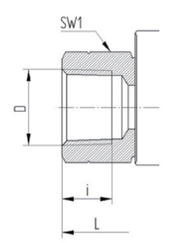
4	Ø 5	6L	M 12x1,5	67	32	7,5	22	0,35
6	Ø 6	8L	M 14x1,5	67	32	7,5	22	0,35
8	Ø 7	10L	M 16x1,5	71	32	8,5	22	0,35
10	Ø 7	12L	M 18x1,5	71	32	8,5	22	0,35
10	Ø 9	12L	M 18x1,5	75	35	8,5	27	0,55
13	Ø 11,5	15L	M 22x1,5	84	42	9,5	30	0,65
16	Ø 11,5	18L	M 26x1,5	84	42	9,5	30	0,65
16	Ø 14	18L	M 26x1,5	83	43	9,5	32	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 45x2	114	60	13,5	55	2,4

For compression fitting, heavy series
DIN 2353 S
Connection Type: S



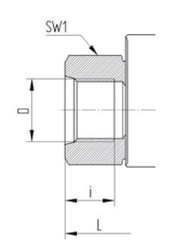
4	Ø 5	6S	M 14x1,5	71,5	32	9,5	22	0,4
4	Ø 5	8S	M 16x1,5	73	32	9,5	22	0,4
6	Ø 6	10S	M 18x1,5	73	32	9,5	22	0,4
8	Ø 7	12S	M 20x1,5	77	32	9,5	22	0,4
10	Ø 9	14S	M 22x1,5	84	35	11,5	27	0,55
13	Ø 11,5	16S	M 24x1,5	87	42	11,5	30	0,65
16	Ø 11,5	20S	M 30x2	91	42	13,5	30	0,7
16	Ø 14	20S	M 30x2	91	43	13	32	0,8
20	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 45x2	140	74	19	50	3,2

NPT female thread
ANSI B 1.20.1
Connection Type: N



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	1 1/4 NPT	-	131	55	19,5	50	2,2
40	Ø 22	1 1/2 NPT	-	139	74	19,5	55	2,5

UN/UNF female thread
SAE J514
Connection Type: SAE



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!