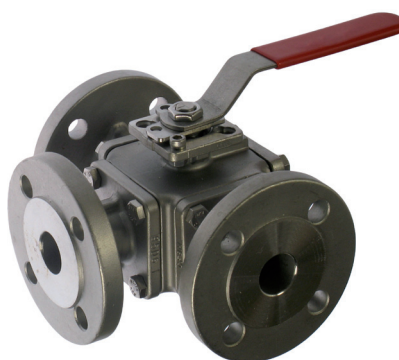


MULTIPLE-WAY BLOCK BALL VALVE WITH DIFFERENT CONNECTION TYPES



picture: design with flange connection

Description:

- multiple-way block ball valve in compact block design
- flanges acc. to EN1092-1 (PN16)
- female thread acc. to EN 10226
- welding ends
- top flange acc. to ISO 5211
- full passageway
- 4 seat sealing
- double ball bearing
- hand lever with lock device

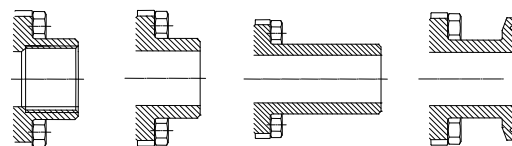
Range of application:

- applicable as a 3-way or 4-way valve
- L-, T- or X-bore
- top flange for direct actuator mounting
- The multipart design enables you to dismount the center part of the body in-line.
- temperature range: -20°C up to +150°C

Comments:

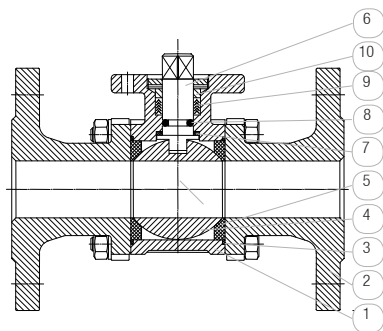
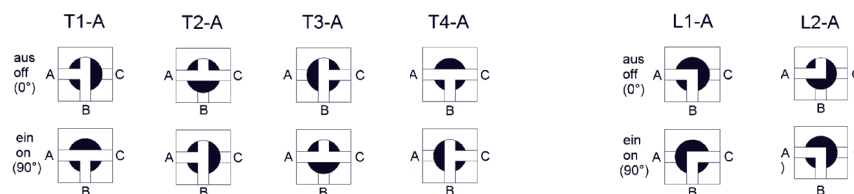
The ball valve is available with different types of connection:

- flange acc. to DIN (standard) and ANSI, also available in PN40
- thread acc. to ISO7/1
- welding ends
- extended welding ends
- clamp connection



L-bore / T-bore / X-bore: Different switch positions are possible, please specify with your order. The ball position is marked on the spindle!

T=T-bore, L=L-bore, X=X-bore, A=automation



pos.	part	standard VA	optional material
1	body	1.4408	0 -
2	end cap	1.4408	-
3	body sealing	PTFE	-
4	ball	1.4401	-
5	seat sealing	PTFE	0 -
6	spindle	1.4401	T -
7	thrust ring	PTFE	-
8	o-ring	FKM	-
9	sealing for spindle	PTFE	-
10	gland	1.4301	-
17	hand lever (not illustrated)	1.4301 + plastics	-

options:

- OS: orbital welding ends
- NPT: thread connection acc. to NPT
- ZG: certificate / approval
- ASL: extended welding ends
- EB: relief well
- SF: free of silicone

For electric actuated valves only:

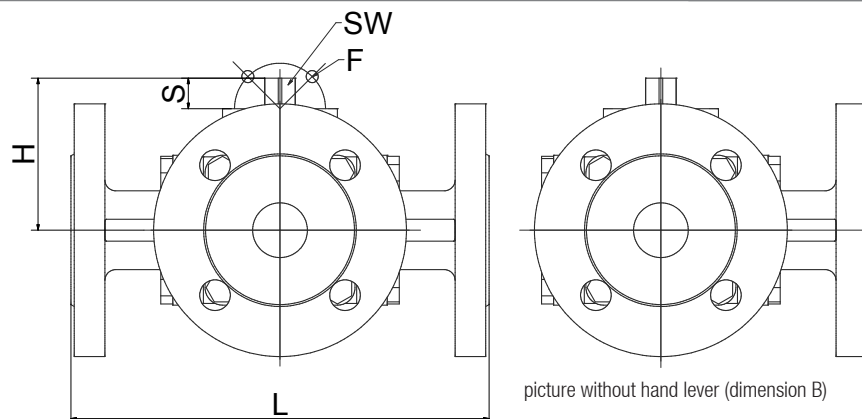
- AP: accumulator security pack
- PT: potentiometer
- PO: positioning system

For pneumatic actuated valves only:

- SD: sound absorber
- AD: exhaust air regulator
- PV: pilot valve For details see data sheet "GMV3197", "GMV3163" (3/2 way) and "MVA01" (5/2 way). Other types on request.
- PS: positioning indicator For details see data sheet "MCM2" (mechanical), "MCN2" (inductive, with ATEX 94/9/EC) and "MCS2" (inductive). Other types on request.

For details about the order code see "Order information". An overview of the complete material code you can find at the beginning of each product section of the product catalogue.

MULTIPLE-WAY BLOCK BALL VALVE WITH DIFFERENT CONNECTION TYPES

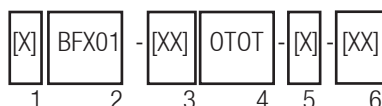


*applies to 3-way valve design. 4-way valve design E = L

**Spindle as square.

***Breakaway torque: all data is determined with water at max Δp and normal ambient temperature. Multiplier for frictional media is 1.3. If your configuration has special sealing material or your application has critical media consultation is obligatory.

match code	size						no-nominal pressure	no-nominal size [mm]	L [mm]	H [mm]	E* [mm]	B [mm]	F ISO	SW** [mm]	S [mm]	breakaway torque*** [Nm]	weight [kg]
	flange	type	thread [inch]	type	welding ends	type											
design with flange connection:																	
BFX01-52-10TOT	DN15	52	-	-	-	-	PN16	15	160	62	80	130	F03 / F04	9	11	12.8	4.3
BFX01-53-10TOT	DN20	53	-	-	-	-	PN16	20	177	82	88.5	165	F04 / F05	11	14	15.4	5.6
BFX01-54-10TOT	DN25	54	-	-	-	-	PN16	25	190	89	95	165	F04 / F05	11	14	32.1	7.2
BFX01-55-10TOT	DN32	55	-	-	-	-	PN16	32	208	98	104	205	F05 / F07	14	18	34.6	10.6
BFX01-56-10TOT	DN40	56	-	-	-	-	PN16	40	234	108	117	205	F05 / F07	14	18	55.3	14.4
BFX01-57-10TOT	DN50	57	-	-	-	-	PN16	50	273	140	136.5	325	F07 / F10	17	23	71.8	23.5
BFX01-58-10TOT	DN65	58	-	-	-	-	PN16	65	300	199	150	400	F10	22	25	134.7	28.9
BFX01-59-10TOT	DN80	59	-	-	-	-	PN16	80	305	217	152.5	500	F10	22	25	147.5	36.6
BFX01-60-10TOT	DN100	60	-	-	-	-	PN16	100	368.5	237	184.25	650	F10	22	25	237.3	59.8
design with thread connection or welding ends																	
BFX01-xxOTOT	-	-	1/4	02	DN8	20	PN40	8	88	62	44	130	F03 / F04	9	11	n/a	2.1
BFX01-xxOTOT	-	-	3/8	03	DN10	21	PN40	10	88	62	44	130	F03 / F04	9	11	n/a	2.1
BFX01-xxOTOT	-	-	1/2	04	DN15	22	PN40	15	105	64	52.5	130	F03 / F04	9	11	17.9	2.1
BFX01-xxOTOT	-	-	3/4	05	DN20	23	PN40	20	112	82	56	165	F04 / F05	11	14	21.6	2.7
BFX01-xxOTOT	-	-	1	06	DN25	24	PN40	25	128	89	64	165	F04 / F05	11	14	44.9	3.8
BFX01-xxOTOT	-	-	1 1/4	07	DN32	25	PN40	32	140	98	70	205	F05 / F07	14	18	48.4	5.6
BFX01-xxOTOT	-	-	1 1/2	08	DN40	26	PN40	40	160	108	80	205	F05 / F07	14	18	77.4	9
BFX01-xxOTOT	-	-	2	09	DN50	27	PN40	50	192	140	96	325	F07 / F10	17	23	100.5	15.3
BFX01-xxOTOT	-	-	2 1/2	10	DN65	28	PN40	65	294	144	147	400	F10	22	25	188.6	20.8
BFX01-xxOTOT	-	-	3	11	DN80	29	PN40	80	317	162	158.5	500	F10	22	25	206.5	27
BFX01-xxOTOT	-	-	4	12	DN100	30	PN40	100	369	182	184.5	650	F10	22	25	332.2	49



Order information:

1: automation:

- no specification: manually operated
- D: pneumatic double acting
- S: pneumatic single acting
- E: electric actuated

2: type (indicate switch position!)

- BFX01 with L-, T- or X-bore

3: connection size:

- 52-60 (DIN, see table)
- 82-90 (ANSI, on request)
- attached is the flange pressure:
PN16: 1 / PN40: 3

- 02-12 (thread connection)
- 20-30 (welding ends)

4: materials:

- 1. digit: body material (stainless steel)
- 2. digit: sealing for spindle (PTFE)
- 3. digit: ball material (stainless steel)
- 4. digit: seat sealing (PTFE)

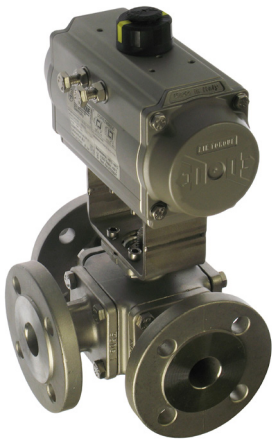
5: actuator:

- no specification: steel hand lever
- automated: see column "actuator"

6: options (see "options")

Please ask for field specifications that are not listed in this data sheet.

Before installation please consider the installation and maintenance manual, especially the safety indications!

**DBFX01 / SBFX01**

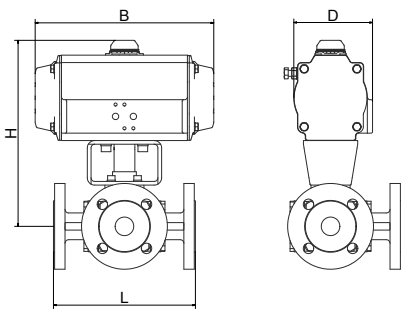
High quality pneumatic actuator made of alloy with air connection according to NAMUR and positioning indicator. The actuator works with the rack/bevel method. For further details see the technical data sheet "DR/SC".

Types double acting (the actuator opens and closes with compressed air) and single acting (the actuator opens with compressed air and closes with spring pressure).

The actuators are configured for use with fluid, gas and antifriction medium. **For critical media it is strictly recommended to inform us!**

Description:

- working pressure: design with flange connection: 0 - 16bar
design with thread connection or welding ends: 0 - 40bar
- pilot pressure: 6 - 8 bar
- deviating medium temperature -20°C up to +120°C (at max. ambient temperature of 40°C)



match code	double acting: DBFX01					single acting: SBFX01				
	actuator	H [mm]	B [mm]	D [mm]	weight [kg]	actuator	H [mm]	B [mm]	D [mm]	weight [kg]
design with flange connection										
xBFX01-52-10T0T-	DR015	180	136	72	5.5	SC030-K	196	153.5	84.5	6.2
xBFX01-53-10T0T-	DR015	188	136	72	6.9	SC060-G	221	203.5	93	9
xBFX01-54-10T0T-	DR060	227	203.5	93	10.2	SC100-G	250	241	106	12
xBFX01-55-10T0T-	DR060	245	203.5	93	13.8	SC100-I	258	241	106	15.4
xBFX01-56-10T0T-	DR060	256	203.5	93	17.6	SC150-J	281	259	118	21.1
xBFX01-57-10T0T-	DR100	228	241	106	27.2	SC220-G	268	304	136	32.8
xBFX01-58-10T0T-	DR150	266	259	118	34.1	SC300-K	306	333	146.5	40.9
xBFX01-59-10T0T-	DR220	312	304	136	44.6	SC450-H	344	394.5	166	53.6
xBFX01-60-10T0T-	DR300	344	333	146.5	69.6	SC600-I	383	422.5	181	81.8
design with thread connections										
xBFX01-040T0T-	DR030	146	153.5	84.5	3.7	SC060-G	163	203.5	93	5.2
xBFX01-050T0T-	DR030	154	153.5	84.5	4.3	SC060-I	171	203.5	93	5.8
xBFX01-060T0T-	DR060	177	203.5	93	6.5	SC100-K	190	241	106	8.1
xBFX01-070T0T-	DR060	185	203.5	93	8.3	SC150-I	210	259	118	11.7
xBFX01-080T0T-	DR100	209	241	106	12.7	SC220-G	249	304	136	18.3
xBFX01-090T0T-	DR100	228	241	106	19	SC220-K	268	304	136	24.6
xBFX01-100T0T-	DR220	294	304	136	28.8	SC450-K	326	394.5	166	37.8
xBFX01-110T0T-	DR220	312	304	136	35	SC600-I	363	422.5	181	49
xBFX01-120T0T-	DR450	364	394.5	166	63	SC900-J	507.5	474	200	92.6
design with welding ends										
xBFX01-220T0T-	DR030	146	153.5	84.5	3.7	SC060-G	163	203.5	93	5.2
xBFX01-230T0T-	DR030	154	153.5	84.5	4.3	SC060-I	171	203.5	93	5.8
xBFX01-240T0T-	DR060	177	203.5	93	6.5	SC100-K	190	241	106	8.1
xBFX01-250T0T-	DR060	185	203.5	93	8.3	SC150-I	210	259	118	11.7
xBFX01-260T0T-	DR100	209	241	106	12.7	SC220-G	249	304	136	18.3
xBFX01-270T0T-	DR100	228	241	106	19	SC220-K	268	304	136	24.6
xBFX01-280T0T-	DR220	294	304	136	28.8	SC450-K	326	394.5	166	37.8
xBFX01-290T0T-	DR220	312	304	136	35	SC600-I	363	422.5	181	49
xBFX01-300T0T-	DR450	364	394.5	166	63	SC900-J	507.5	474	200	92.6

automation of the sizes 1/4" / DN8 and 3/8" / DN10 on request (design with thread connections or welding ends)

Attention!

To avoid corrosion inside the spring chamber for single acting actuators caused by aggressive ambient air we recommend pilot valves with integrated air recirculation.

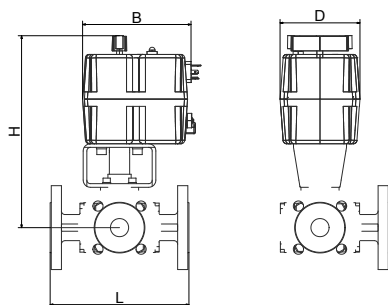


EBFX01

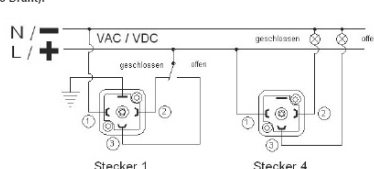
High-quality electric actuator in compact design with a body made of high-strength plastics. It has a high-performance motor and a gear drive made of metal. A central control room heater and an electronic torque limiter are equipped as standard. For further details see the technical data sheet "J".

Description:

- working pressure: design with flange connection: 0 - 16bar
design with thread connection or welding ends: 0 - 40bar
- deviating medium temperature -20°C up to +100°C (at max. ambient temperature of 40°C)



match code	actuator	H [mm]	B [mm]	D [mm]	weight [kg]
design with flange connection					
EBFX01-52-10T0T-	J320	240	177	110	5.9
EBFX01-53-10T0T-	J320	248	177	110	7.3
EBFX01-54-10T0T-	J335	286	177	110	9.2
EBFX01-55-10T0T-	J355	319	177	110	13.4
EBFX01-56-10T0T-	J385	330	177	110	17.7
EBFX01-57-10T0T-	J385	289	177	110	26.3
EBFX01-58-10T0T-	J2140	383	235	214	34.1
EBFX01-59-10T0T-	J2140	401	235	214	41.8
EBFX01-60-10T0T-	J2300	421	235	214	65
design with thread connections					
EBFX01-040T0T-	J320	190	177	110	3.5
EBFX01-050T0T-	J320	198	177	110	4.1
EBFX01-060T0T-	J355	251	177	110	6.1
EBFX01-070T0T-	J355	259	177	110	7.9
EBFX01-080T0T-	J385	270	177	110	11.8
EBFX01-090T0T-	J2140	357	235	214	20.5
EBFX01-100T0T-	J2300	383	235	214	26
EBFX01-110T0T-	J2300	401	235	214	32.2
EBFX01-120T0T-	J2300	421	235	214	54.2
design with welding ends					
xBFX01-220T0T-	J320	190	177	110	3.5
xBFX01-230T0T-	J320	198	177	110	4.1
xBFX01-240T0T-	J355	251	177	110	6.1
xBFX01-250T0T-	J355	259	177	110	7.9
xBFX01-260T0T-	J385	270	177	110	11.8
xBFX01-270T0T-	J2140	357	235	214	20.5
xBFX01-280T0T-	J2300	383	235	214	26
xBFX01-290T0T-	J2300	401	235	214	32.2
xBFX01-300T0T-	J2300	421	235	214	54.2

AC/DC Beschaltung
(3 Draht):

automation of the sizes 1/4" / DN8 and 3/8" / DN10 on request (design with thread connections or welding ends)

connection voltage type:

- 19: 24V AC/DC up to 240V AC/ DC
- other voltages on request