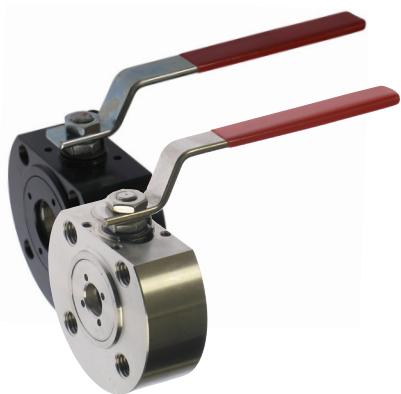


## 2-WAY FLANGED BALL VALVE, MANUALLY OPERATED AND AUTOMATED

**Description:**

- 2-way flanged ball valve in steel and stainless steel design
- compact construction
- full passageway
- flange acc. to EN1092-1 / PN40 and PN16
- top flange acc. to EN ISO 5211
- antistatic device starting from DN40
- blow out safe, spindle mounted from inside
- stainless steel: starting from DN32 made of cast iron
- with stainless steel hand lever
- any installation position

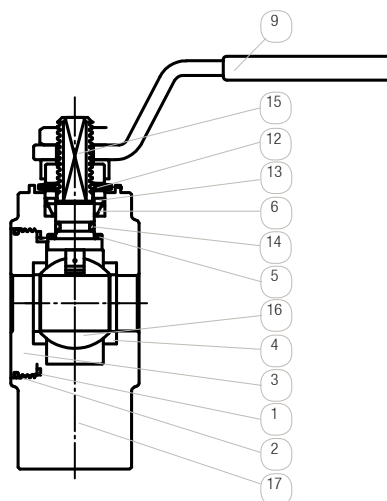
**Range of application:**

- 1-piece flanged ball valve for industrial applications
- space-saving installation by compact construction
- top flange for direct actuator mounting
- pneumatic and electric automatable
- working pressure PN16 - PN40 (see pressure-temperature-diagram)
- temperature range: -20°C up to +180°C (see pressure temperature diagram)

**Comments**

Optionally we can supply the stainless steel design starting from DN32 made of solid material. All types are also available with flanges acc. to ANSI150 and ANSI300.

Between sizes DN15 and DN32 the ball valves have an antistatic device.



pos.	part	standard VA		standard ST		optional material	
1	primary sealing	PTFE		PTFE			
2	secondary sealing	NBR		NBR			
3	body screw connection	1.4401 / 1.4408		A 105			
4	seat sealing	PTFE	T	PTFE	T	PTFE-fibre glass reinforced*	G
						PTFE/graphite/carbon	U
5	friction ring	PTFE		PTFE			
6	sealing for spindle	PTFE	T	PTFE	T		
9	hand lever	1.4301		St 37 coated			
12	disc spring	1.4310		50CrV4			
13	thrust ring	1.4305		1.4305			
14	o-ring	FKM		FKM			
15	spindle	1.4401		1.4301			
16	ball	1.4401	0	up to DN40: 1.4401	0		
				from DN50: 1.4301	P		
17	body	up to DN25: 1.4401	0	A 105	J		
		from DN32: 1.4408					

\*higher temperature resistance with other seat sealing:

- PTFE fibre-glass reinforced: -10°C up to +195°C medium temperature
- PTFE graphite/carbon: -10°C up to +210°C medium temperature

**options:**

- SV: spindle extension
- SP: gland extension
- EB: relief well
- OF: free of oil and grease
- SF: free of silicone
- EX: ATEX certificate
- ZG: certificate 3.1
- HZ: heating jacket
- TD: minimal clearance volume with half shells
- FW: free spindle

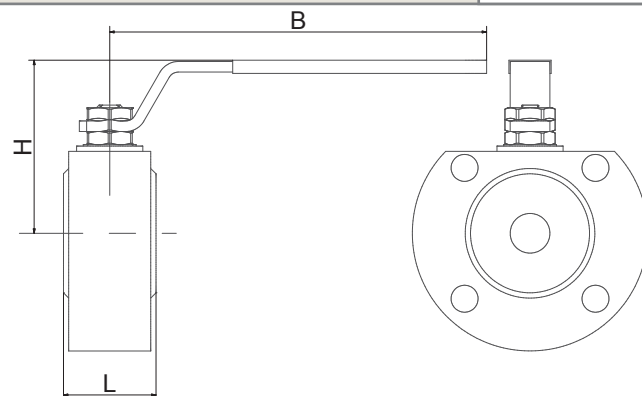
**For electric actuated valves only:**

- 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.

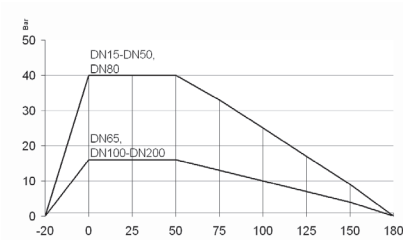
For details about the order code see "Order information". An overview of the complete material code you can find at the beginning of each product section of the product catalogue.



match code	size [inch]	nominal pressure	nominal size [mm]	L [mm]	H [mm]	B [mm]	CV* [m <sup>3</sup> /h]	breakaway torque** [Nm]	weight [kg]
KFA19-52-3xTxT	DN15	PN40	15	35	65	140	20	6	1.345
KFA19-53-3xTxT	DN20	PN40	20	38	70	140	60	10.5	1.81
KFA19-54-3xTxT	DN25	PN40	25	43	82	180	100	13	2.505
KFA19-55-3xTxT	DN32	PN40	32	54	85	180	130	22.5	4.33
KFA19-56-3xTxT	DN40	PN40	40	60	102	230	170	31.5	5.54
KFA19-57-3xTxT	DN50	PN40	50	70	110	230	280	44	7.3
KFA19-58-1xTxT	DN65	PN16	65	95	137.5	333	510	59	15
KFA19-59-3xTxT	DN80	PN40	78	122	150	333	770	99	20.67
KFA19-59-3xTxT	DN100	PN16	96	140	165	370	1200	168	31.5
KFA19-61-1xTxT	DN125	PN16	118	185	181	370	1700	300	39.82
KFA19-62-1xTxT	DN150	PN16	144	235	249	584	2050	400	63.1
KFA19-63-1xTxT	DN200	PN16	192	310	288	584	n/a	800	139

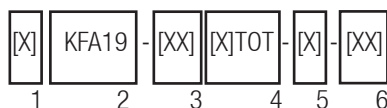
\*CV value: The nominal flow rate CVs acc. to VDI/VDE 2173 shows the water quantity in cubic meter per hour with the valve fully opened,  $\Delta p=1$  and the water temperature between 5°C and 30°C.

\*\*Breakaway torque: all data is determined with water at max  $\Delta p$  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.



### Pressure temperature diagram

The pressure temperature diagram refers to the ball valve of this type. For the actuated units the actuator limits the permissible pressure range to the operating pressure as indicated above, as long as this is lower than the pressure range of the ball valve. If your application has strong temperature variations, you may need additional options like a relief well, to meet the figures. Please tell us your temperature variations with your order.



### Order information:

#### 1: automation:

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

#### 2: type: KFA19

#### 3: connection size:

- 52-60 (DIN, see table)
- 82-90 (ANSI, on request)

#### 4: materials:

- 1. digit: body material  
O = stainless steel  
J = steel

- 2. digit: sealing for spindle  
T = PTFE
- 3. digit: ball material  
O = stainless steel
- 4. digit: seat sealing  
T = 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!

**DKFA19 / SKFA19**

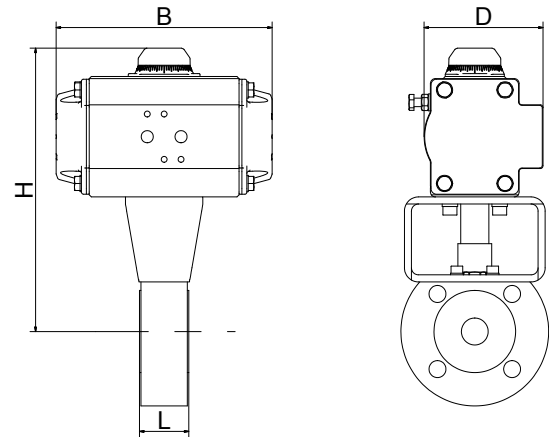
High quality pneumatic actuator made of alloy with air connection according to NAMUR and positioning indicator. The actuator works with the rack/bevel method. For further details see the technical data sheet "DR/SC".

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:**

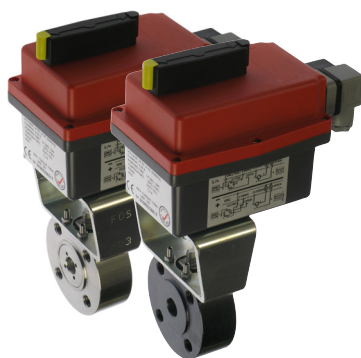
- working pressure: 0 - 16 bar
- pilot pressure: 6 - 8 bar
- medium temperature: -20°C up to +120°C (at max. ambient temperature 40°C)



match code	double acting: DKFA19						single acting: SKFA19					
	actuator	H [mm]	B [mm]	D [mm]	L [mm]	weight [kg]	actuator	H [mm]	B [mm]	D [mm]	L [mm]	weight [kg]
xKFA19-52-3xTxT-	DR010	165	118	62	35	2.315	SC010-K	165	118	62	35	2.2
xKFA19-53-3xTxT-	DR010	168	118	62	38	2.78	SC030-G	187	153.5	84.5	38	3.6
xKFA19-54-3xTxT-	DR015	176.5	136	72	43	3.825	SC030-I	192.5	153.5	84.5	43	4.525
xKFA19-55-3xTxT-	DR030	199	153.5	84.5	54	6.25	SC060-G	216	203.5	93	54	7.5
xKFA19-56-3xTxT-	DR030	212.5	153.5	84.5	60	7.64	SC060-K	229.5	203.5	93	60	9.14
xKFA19-57-3xTxT-	DR060	236.5	203.5	93	70	10.5	SC100-I	249.5	241	106	70	12.1
xKFA19-58-1xTxT-	DR060	259	203.5	93	95	18.32	SC150-I	284	259	118	95	21.72
xKFA19-59-3xTxT-	DR100	282	241	106	122	24.99	SC220-H	322	304	136	122	30.59
xKFA19-60-1xTxT-	DR220	353	304	136	140	40.8	SC450-I	388	394.5	166	140	49.8
xKFA19-61-1xTxT-	DR300	383	333	146.5	185	50.92	SC600-K	422	422.5	181	185	63.12
xKFA19-62-1xTxT-	DR450	451.5	394.5	166	235	78.7	SC900-K	525	474	200	235	98.25
xKFA19-63-1xTxT-	DR900	545.5	474	200	310	165.15	SC2000-J	632.5	605	262	310	208

**Attention!**

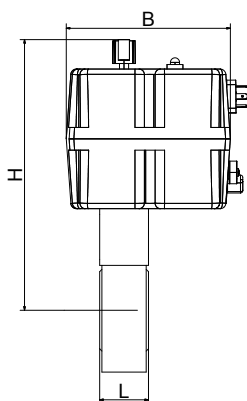
To avoid corrosion inside the spring chamber for single acting actuators caused by aggressive ambient air we recommend pilot valves with integrated air recirculation.

**EKFA19**

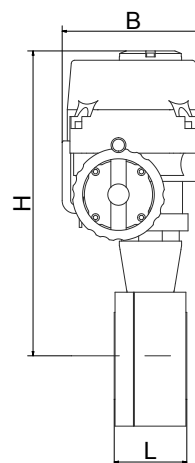
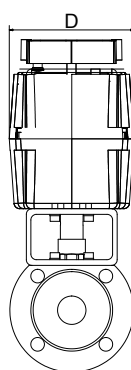
High-quality electric actuator in compact design with a body made of high-strength plastics. It has a high-performance motor and a gear drive made of metal. A central control room heater and an electronic torque limiter are equipped as standard. For further details see the technical data sheet "J".

**Description:**

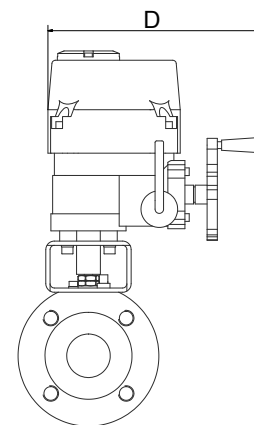
- working pressure: 0 - 16 bar
- deviating medium temperature -20°C up to +100°C (at max. ambient temperature of 40°C)



actuator of type J... (up to DN125)



actuator of type CH... (starting from DN150)



match code	actuator	H [mm]	B [mm]	D [mm]	weight [kg]
EKFA19-52-3xTxT-	J210-	155.5	169	104	2.315
EKFA19-53-3xTxT-	J210-	158.5	169	104	2.78
EKFA19-54-3xTxT-	J210-	164	169	104	3.755
EKFA19-55-3xTxT-	J320-	193	177	110	6.05
EKFA19-56-3xTxT-	J335-	218.5	177	110	7.74
EKFA19-57-3xTxT-	J355-	250.5	177	110	10.1
EKFA19-58-1xTxT-	J385-	273	177	110	18.42
EKFA19-59-3xTxT-	J2140-	351	235	214	26.49
EKFA19-60-1xTxT-	J2140-	362	235	214	38
EKFA19-61-1xTxT-	J2300-	460	235	214	46.32
EKFA19-62-1xTxT-	CH500-	532.5	367	244	84.7
EKFA19-63-1xTxT-	CH1100-	597	380	284	165.6

**connection voltage type:**

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

**AC/DC Beschaltung**  
(3 Draht):