

GREY CAST IRON BALL VALVE WITH FLANGES IN DIN FACE-TO-FACE LENGTH, AUTOMATABLE



Description:

- full passageway
- face-to-face length acc. to EN3202, series 27 (short face-to-face length)
- 1-pcs. body construction
- mounting flange acc. to ISO5211 for direct mounting
- flange acc. to EN1092-1 - PN16
- steel hand lever
- blow out safe, spindle mounted from inside
- TA-Luft
- any installation position

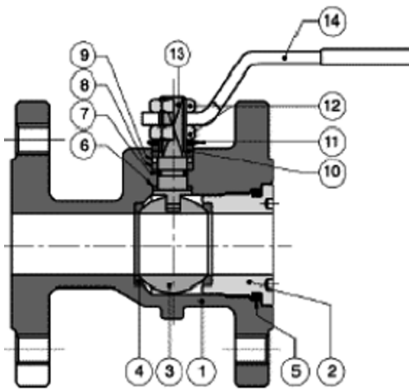
Range of application:

- standard length enables easy replacement in existing plants
- working pressure PN16 (see pressure-temperature-diagram)
- temperature range:
 - 20°C up to +120°C, with NBR o-ring
 - 20°C up to +160°C with FKM o-ring (see pressure temperature diagram)
- pneumatic or electric automatable
- vacuum: max. 10⁻³ torr.

Comments:

Blow out protection: Better protection against unintended disengagement of the spindle and the sealing by a blow out protection. No accidental damage possible from outside.

A type for oxygen is available on request. On request a sealing for the spindle made of FKM is also available.

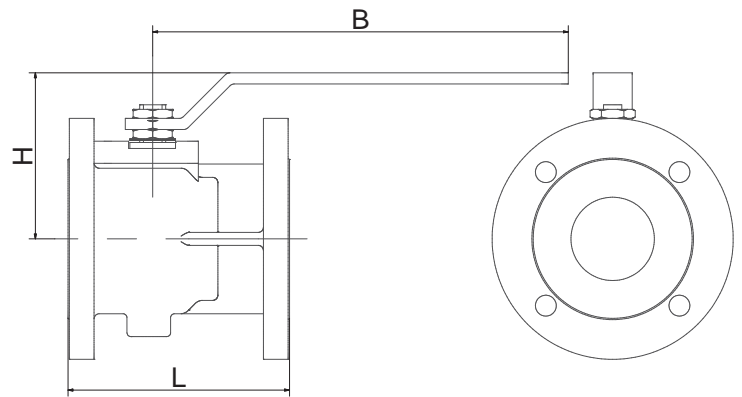


pos.	part	material (standard)	options
1	body	EN-JL 250 (GG25)	L
2	screw-in part	steel	
5	body sealing	NBR	
3	ball	stainless steel	P
4	seat sealing	PTFE	T
13	spindle	1.4301	
9	thrust ring	PTFE	
10	packing for spindle	PTFE	T
7	o-ring	NBR	FKM
14	hand lever	steel	

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.

options:

- DB: through hole
- ZG: certificate 2.2



match code	size	nominal pressure	nominal size [mm]	L [mm]	H [mm]	B [mm]	CV value** [m ³ /h]	weight [kg]
NFA13-54-1LTPT	DN25	PN16	25	125	79	174	43	3,1
NFA13-55-1LTPT	DN32	PN16	32	130	85	174	89	4,8
NFA13-56-1LTPT	DN40	PN16	40	140	103	250	230	6,1
NFA13-57-1LTPT	DN50	PN16	50	150	110	250	265	7,8
NFA13-58-1LTPT	DN65	PN16	65	170	126	321	540	11,4
NFA13-59-1LTPT	DN80	PN16	80	180	137	321	873	14,1
NFA13-60-1LTPT	DN100	PN16	100	190	158	381	1390	20,0
NFA13-61-1LTPT	DN125	PN16	125	200	180	381	1707	30,0
NFA13-62-1LTPT	DN150	PN16	150	210	265	700	2024	44,5
NFA13-63-1LTPT	DN200	PN16	200	400	308	700	2720	103,0

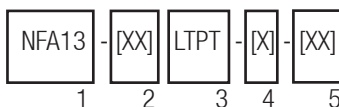
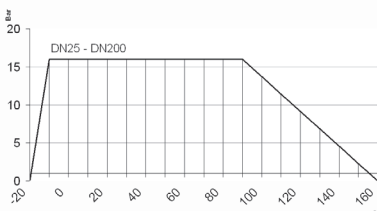
**CV value: The nominal flow rate CVs acc. to VDI/VDE 2173 shows the water quantity in cubic meter per hour with the valve fully opened, $\Delta p=1$ and the water temperature between 5°C and 30°C.

Pressure temperature diagram

The pressure temperature diagram shows the max. permissible working pressure in relation of the media temperature.

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: type: NFA13

3: connection size: 52-60 (see table)

4: materials:

- 1. digit: body material
L = grey cast iron
- 2. digit: sealing for spindle
T = PTFE
- 3. digit: ball material
P = stainless steel
- 4. digit: seat sealing
T = PTFE

5: 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!

**DNFA13 / SNFA13**

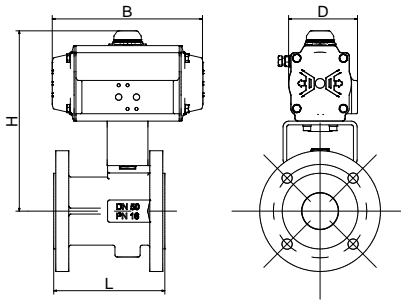
High quality pneumatic actuator made of alloy with air connection according to NAMUR and positioning indicator. The actuator works with the rack/bevel method. For further details see the technical data sheet "DR/SC".

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)

**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.

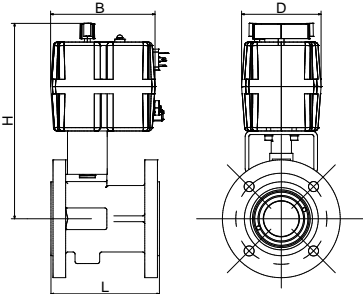
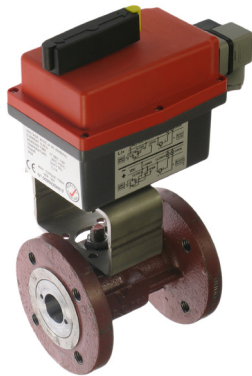
match code	double acting: DNFA13					single acting: SNFA13				
	actuator	H [mm]	B [mm]	D [mm]	weight [kg]	actuator	H [mm]	B [mm]	D [mm]	weight [kg]
xNFA13-54-1LTPT	DR010	170.5	118	62	4.15	SC015-K	178.5	136	72	4.5
xNFA13-55-1LTPT	DR015	185	136	72	6.1	SC030-I	201	153.5	84.5	6.8
xNFA13-56-1LTPT	DR030	219	153.5	84.5	8.2	SC060-I	236	203.5	93	9.7
xNFA13-57-1LTPT	DR060	233	203.5	93	10.8	SC100-I	246	241	106	12.4
xNFA13-58-1LTPT	DR060	257	203.5	93	14.3	SC150-J	282	259	118	17.7
xNFA13-59-1LTPT	DR100	281	241	106	17.6	SC220-I	321	304	136	23.2
xNFA13-60-1LTPT	DR150	331.5	259	118	26.2	SC300-K	371.5	333	146.5	33
xNFA13-61-1LTPT	DR300	394	333	146.5	43.1	SC900-H	477.5	474	200	66.3
xNFA13-62-1LTPT	DR450	437	394.5	166	59.6	SC1200-I	525	528	221.5	88.2
xNFA13-63-1LTPT	DR600	498	422.5	181	116.6	SC2000-H	620.5	605	262	166.2

ENFA13

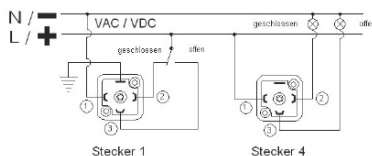
High-quality electric actuator in compact design with a body made of high-strength plastics. It has a high-performance motor and a gear drive made of metal. A central control room heater and an electronic torque limiter are equipped as standard. For further details see the technical data sheet "J".

Description:

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



AC/DC Beschaltung
(3 Draht):



match code	actuator	H [mm]	B [mm]	D [mm]	weight [kg]
ENFA13-54-1-LTPT-x	J210-5	216	169	104	4.15
ENFA13-55-1-LTPT-x	J320-6	245	177	110	6.5
ENFA13-56-1-LTPT-x	J320-6	263	177	110	8
ENFA13-57-1-LTPT-x	J355-6	317	177	110	10.4
ENFA13-58-1-LTPT-x	J355-6	331	177	110	13.9
ENFA13-59-1-LTPT-x	J385-6	342	177	110	16.7
ENFA13-60-1-LTPT-x	J2140-6	448.5	235	214	26.2
ENFA13-61-1-LTPT-x	J2300-6	471	235	214	38.5
ENFA13-62-1-LTPT-x	CH500-0	518	367	244	65.6
ENFA13-63-1-LTPT-x	CH800-0	585	380	284	123.6

connection voltage type:

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