

flange ball valve made of cast iron with electric actuator series BA040

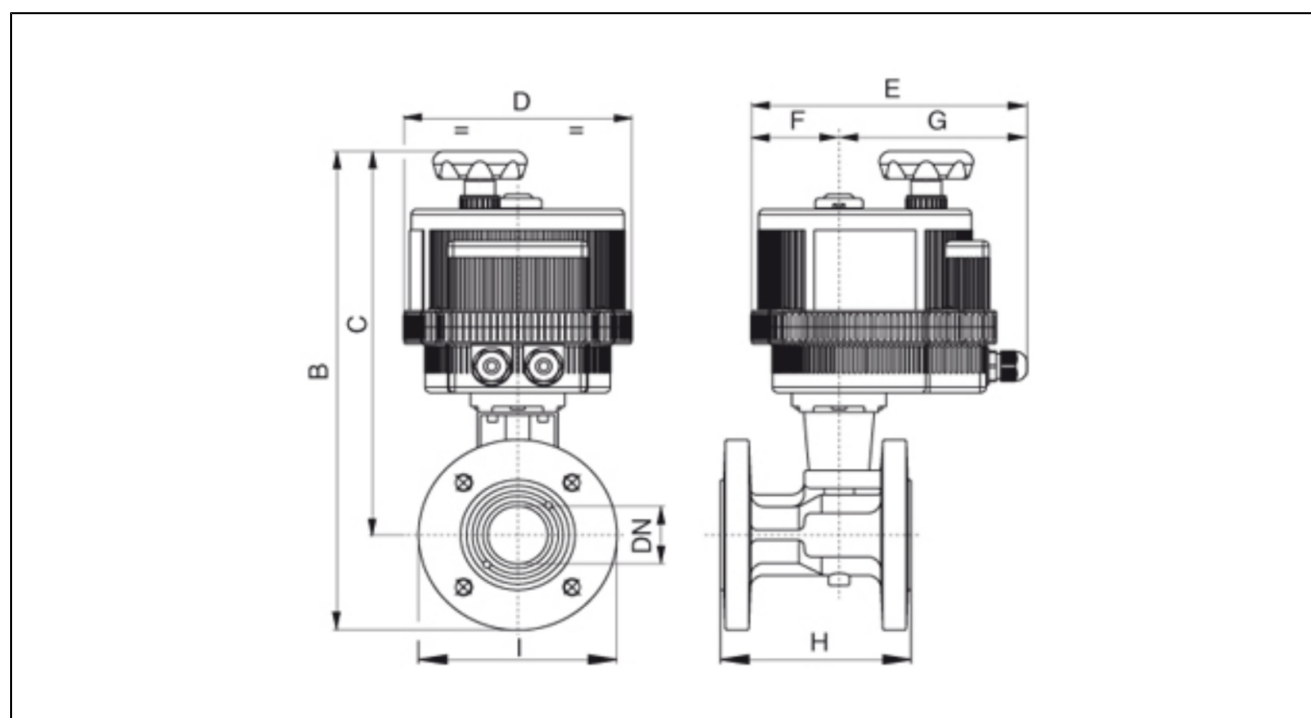


design	two way ball valve with floating ball, full bore, compensation hole, incl. electric gear motor with manual operation, actuator heating and torque control
connection	flange DN25...DN150 according to EN1092-2, PN16
length	according to EN558-1R14
materials	actuator: body made of Polymer PA6 respectively PA66
standard construction	ball valve: body cast iron EN-GJL-250, ball stainless steel AISI 304, ball seal PTFE, stem seal PTFE, o-rings NBR
application	group 1 and 2 liquids and gases acc. to PED 2014/68/EU and which do not affect the used materials. we recommend the use of special steam ball valves for applications with steam.
medium temperature	-10...+120°C
ambient temperature	-10...+55°C
operating pressure	vacuum max. 10^{-3} Torr to operating pressure according to the table and pressure-temperature diagram
type of fixing	installed into rigid pipework
mounting position	any, except hanging down
electrical data	
type of current	AC and DC
standard voltage	see table "electrical data"
permissible voltage tolerance	$\pm 10\%$
electrical connection	via cable gland PG11
limit switch-off	via build in limit switches
duty cycle	see table "electrical data", but max. 100 operations a day
protection class	IP67 nach EN 60529 bei ordnungsgemäß montiertem Kabeleingang (Schutz gegen Staubeintritt und Eintauchen in Wasser)
special version	accumulator for safety position, positioner
order information	in case of order please indicate operating media, pressure and temperatur.
direction for use	pressure and temperature values are maximum values for lubricating or not degreasing mediums. in particular degreasing media reduce the indicated values and increase the necessary torque. In border lines we recommend a previous consultation.

type code

		BA040- 50 - 0L	
connection	DN25	25	
	DN32	32	
	DN40	40	
	DN50	50	
	DN65	65	
	DN80	80	
	DN100	100	
	DN125	125	
voltage	DN150	150	
	12V/50-60Hz/12VDC		0D
	24V/50-60Hz/24VDC		0L
	100-240V/50-60Hz		0H

dimensions

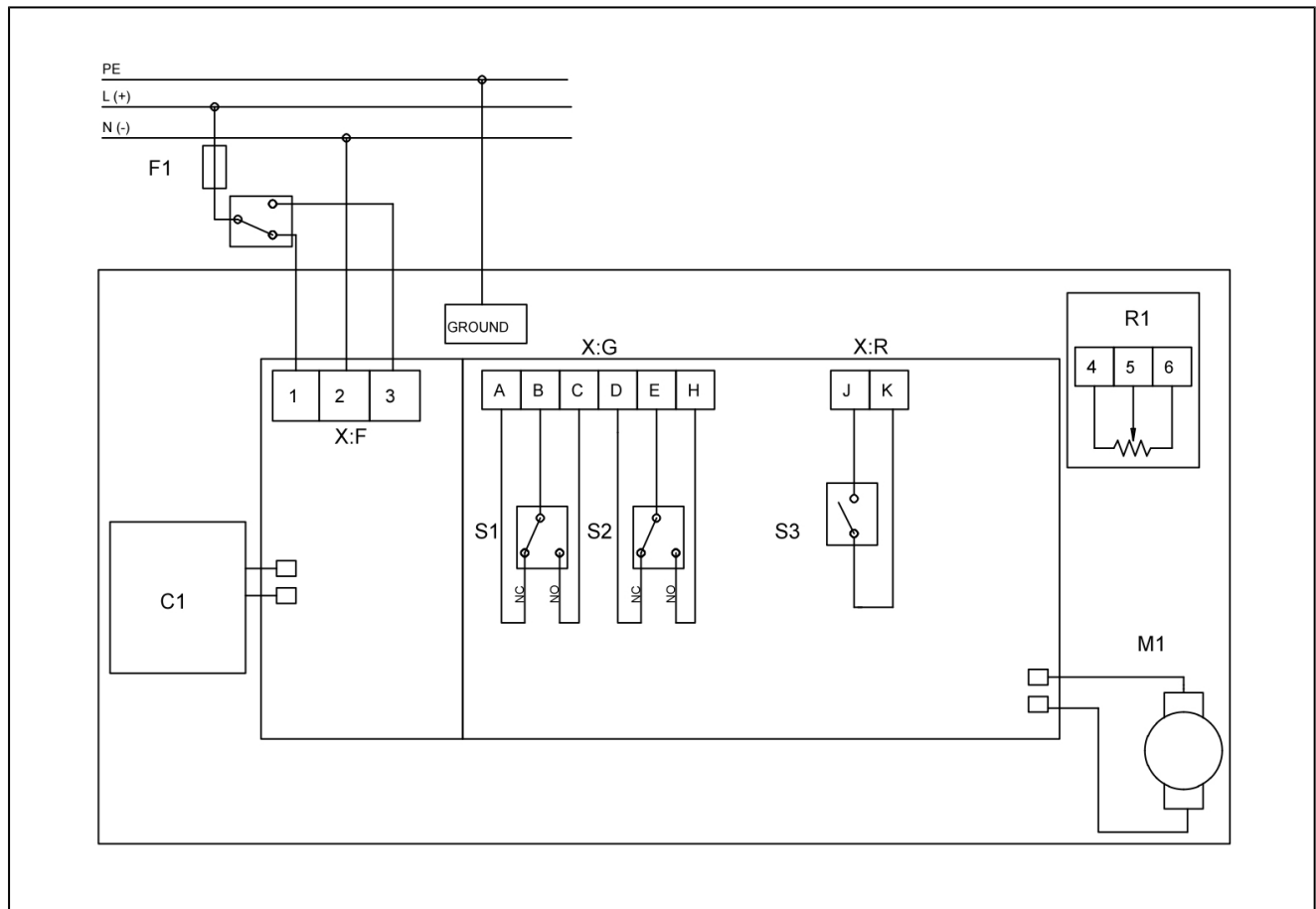


nominal diameter DN[mm]	max. operating pressure [bar]	B	C	D	E	F	G	H	I	kv value [m ³ /h]	weight [app. kg]	type of actuator	type
25	16	335	278	157	191	61	130	125	115	64,5	5,4	VB030	BA040-25-..
32	16	354	284	157	191	61	130	130	140	103,8	7,1	VB030	BA040-32-..
40	16	404	329	185	215	68	147	140	150	174	9,4	VB060	BA040-40-..
50	16	419	336	185	215	68	147	150	165	301,3	11,1	VB060	BA040-50-..
65	16	460	367	211	237	84	153	170	185	545,7	16,3	VB110	BA040-65-..
80	16	478	378	211	237	84	153	180	200	872,5	19	VB110	BA040-80-..
100	16	527	417	211	237	84	153	190	220	1363,5	24,9	VB190	BA040-100-..
125	16	564	440	211	237	84	153	200	250	2360,3	35,3	VB190	BA040-125-..
150	16	607	464	222	247	77	170	210	285	3671,1	50,5	VB350	BA040-150-..

electrical data

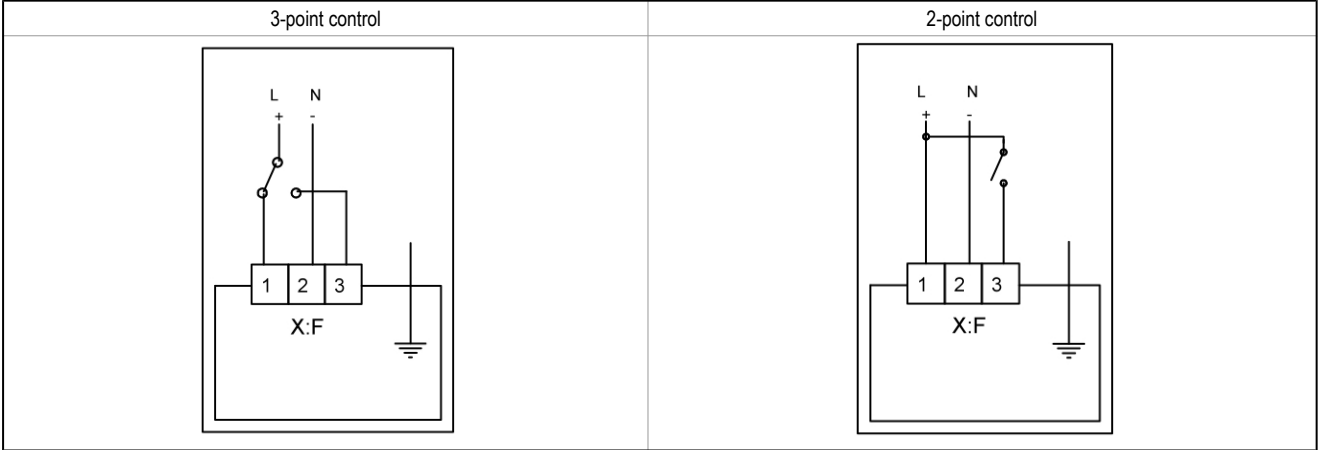
type	voltage	current consumption [A]	nominal torque [Nm]	duty cycle (S3)	operating time [Sek.]
VB30-L-12	12V/50-60Hz/12VDC	AC 2,2 / DC 1,8	30	50%	8
VB30-L	24V/50-60Hz/24VDC	AC 1 / DC 0,7	30	75%	8
VB30-H	100-240V/50-60Hz	0,4-0,2	30	75%	8
VB060-L-12	12V/50-60Hz/12VDC	AC 3,8 / DC 2,85	60	50%	9
VB060-L	24V/50-60Hz/24VDC	AC 1,8 / DC 1,2	60	75%	9
VB60-H	100-240V/50-60Hz	0,6-0,3	60	75%	9
VB110-L-12	12V/50-60Hz/12VDC	AC 2,2 / DC 1,8	110	50%	27
VB110-L	24V/50-60Hz/24VDC	AC 1 / DC 0,7	110	75%	27
VB110-H	100-240V/50-60Hz	0,4-0,2	110	75%	27
VB190-L-12	12V/50-60Hz/12VDC	AC 3,8 / DC 2,85	190	50%	27
VB190-L	24V/50-60Hz/24VDC	AC 1,8 / DC 1,2	190	75%	27
VB190-H	100-240V/50-60Hz	0,6-0,3	190	75%	27
VB350-L-12	12V/50-60Hz/12VDC	AC 4,75 / DC 3,65	350	50%	50
VB350-L	24V/50-60Hz/24VDC	AC 1,895/ DC 1,65	350	75%	50
VB350-H	100-240V/50-60Hz	0,75-0,4	350	75%	50

example for electric wiring VB030 - VB350

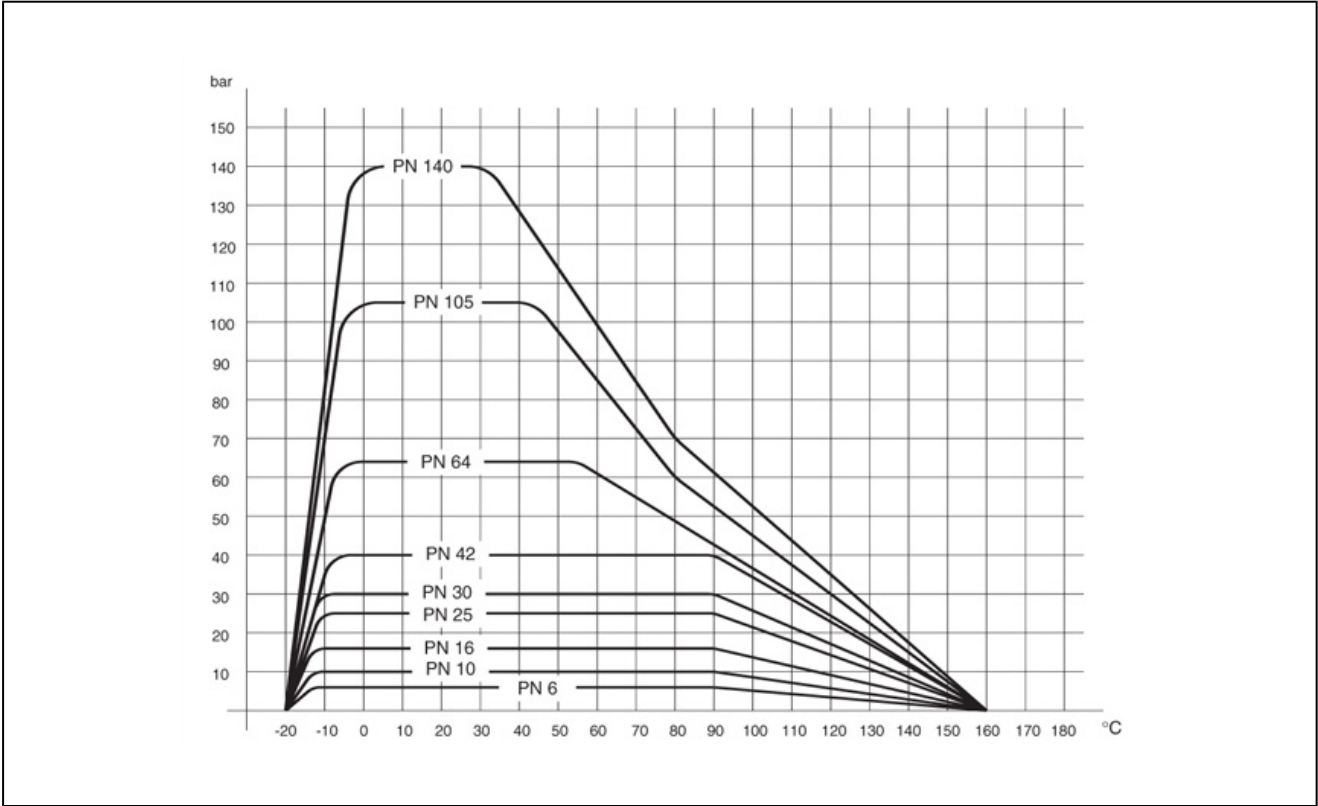


position	description	information
C1	accumulator for safety position	optionally available
R1	potentiometer 5 K Ω /1W	optionally available
S1	end position feedback close	standard max. 2A/250VAC-2A/30VDC
S2	end position feedback open	standard max. 2A/250VAC-2A/30VDC
S3	fault indicator	standard max. 1A/120VAC-2A/24VDC
X:F:1	terminal	actuator closing
X:F:2	terminal	
X:F:3	terminal	actuator opening

2-point control or 3-point control by changing the electrical connections
VB030 - VB350



pressure-temperature-diagram



illustrations are non-binding
all designs, configurations, measurements and materials are subject to change without prior notice