

3-way ball valves with electric actuator 1/4" to 2" series 8E026 (L-bore) and 8E027 (T-bore)

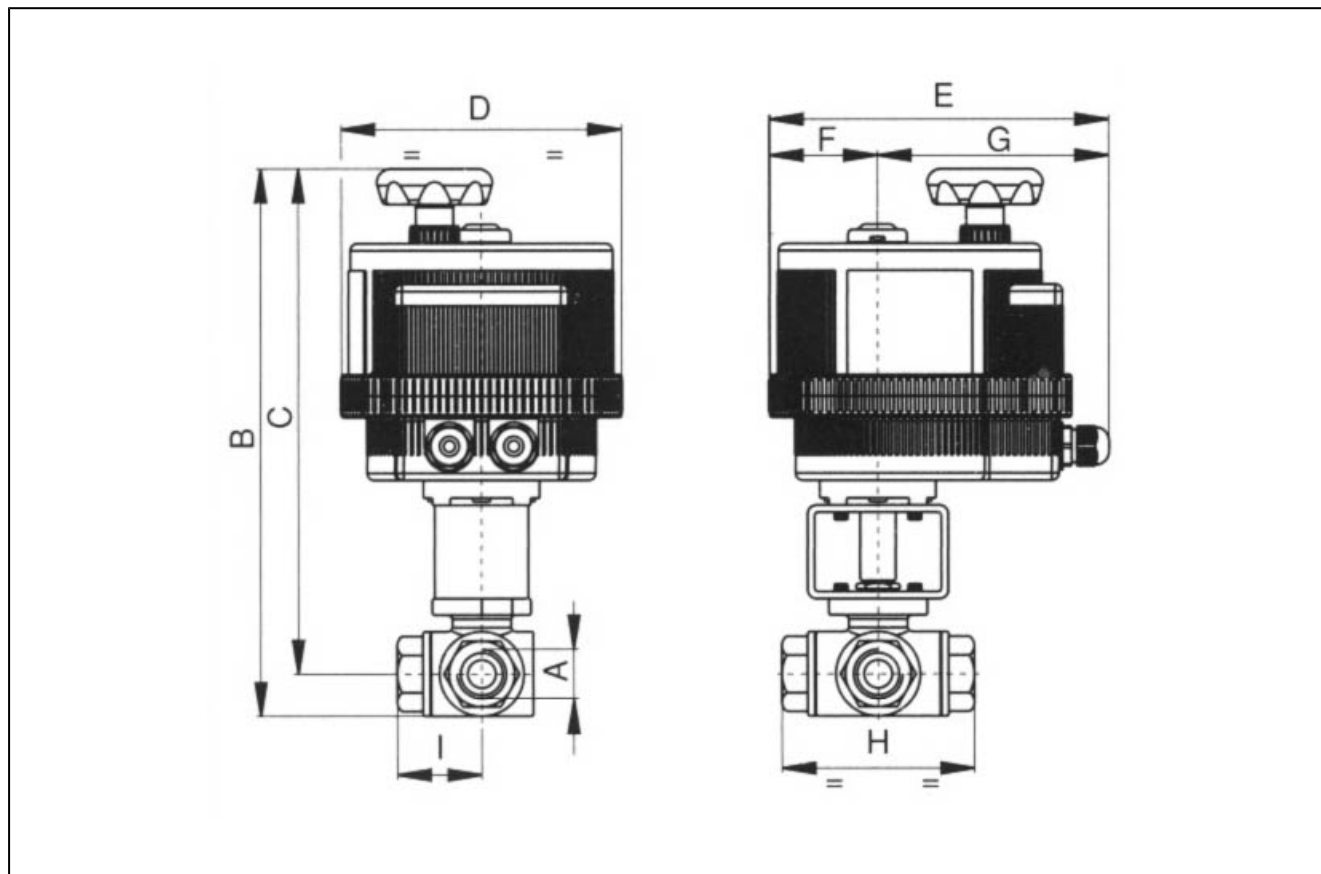


design	3-way ball valve with electric gear motor with manual operation, actuator heating and torque control, ball sealing on three ports
connection	RP1/4"...RP2" according to ISO7/1
materials	actuator: body made of Polymer PA6 respectively PA66
standard construction	ball valve: body AISI316, ball stainless steel AISI 316, seals made of PTFE
application	gaseous and liquid fluids which do not affect the used materials
medium temperature	-20...+160°C
ambient temperature	-20...+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	VB015 IP65 respectively all other sizes IP67 according to EN 60529 by correctly mounted cable inlet (protection against dust and splash water)
special version	accumulator for safety position, positioner
order information	specify actuator position by order (see diagramm "actuator positions").
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.

order code

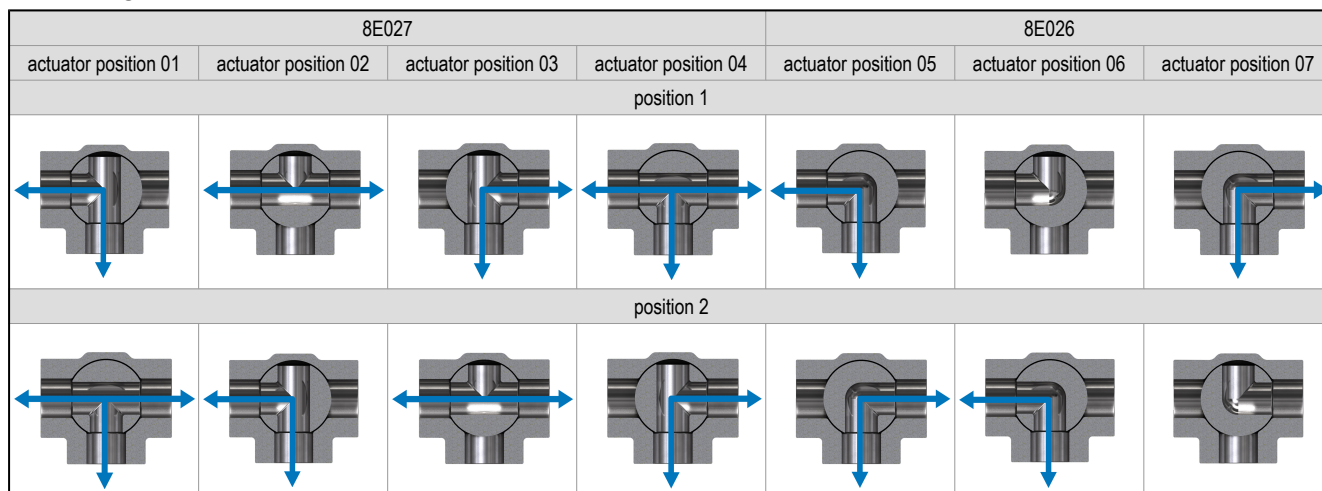
		L-bore 8E026	001 - 1/4"
		T-bore 8E027	
voltage	12V/50-60Hz/12VDC	001	
	24V/50-60Hz/24VDC	002	
	100-240V/50-60Hz	004	
connection	RP1/4"		1/4"
	RP3/8"		3/8"
	RP1/2"		1/2"
	RP3/4"		3/4"
	RP1"		1"
	RP1 1/4"		1 1/4"
	RP1 1/2"		1 1/2"
	RP2"		2"

dimensions



connection A	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 L-bore	type T-bore
RP1/4"	11	64	243	224	123	164	43	121	69	35	5	1,21	VB015	8E026...-1/4"	8E027...-1/4"
RP3/8"	11	64	243	224	123	164	43	121	69	35	5	1,17	VB015	8E026...-3/8"	8E027...-3/8"
RP1/2"	12,5	64	243	224	123	164	43	121	76	38	7	1,12	VB015	8E026...-1/2"	8E027...-1/2"
RP3/4"	16	64	312	290	157	191	61	130	87	45	12	4,41	VB030	8E026...-3/4"	8E027...-3/4"
RP1"	20	64	317	291	157	191	61	130	102	52	19	5,01	VB030	8E026...-1"	8E027...-1"
RP1 1/4"	25	64	333	300	157	191	61	130	118	58	30	6,07	VB030	8E026...-1 1/4"	8E027...-1 1/4"
RP1 1/2"	32	64	384	347	211	223	84	153	126	63	51	8,72	VB110	8E026...-1 1/2"	8E027...-1 1/2"
RP2"	38	64	403	355	211	237	84	153	149	75	76	11,63	VB110	8E026...-2"	8E027...-2"

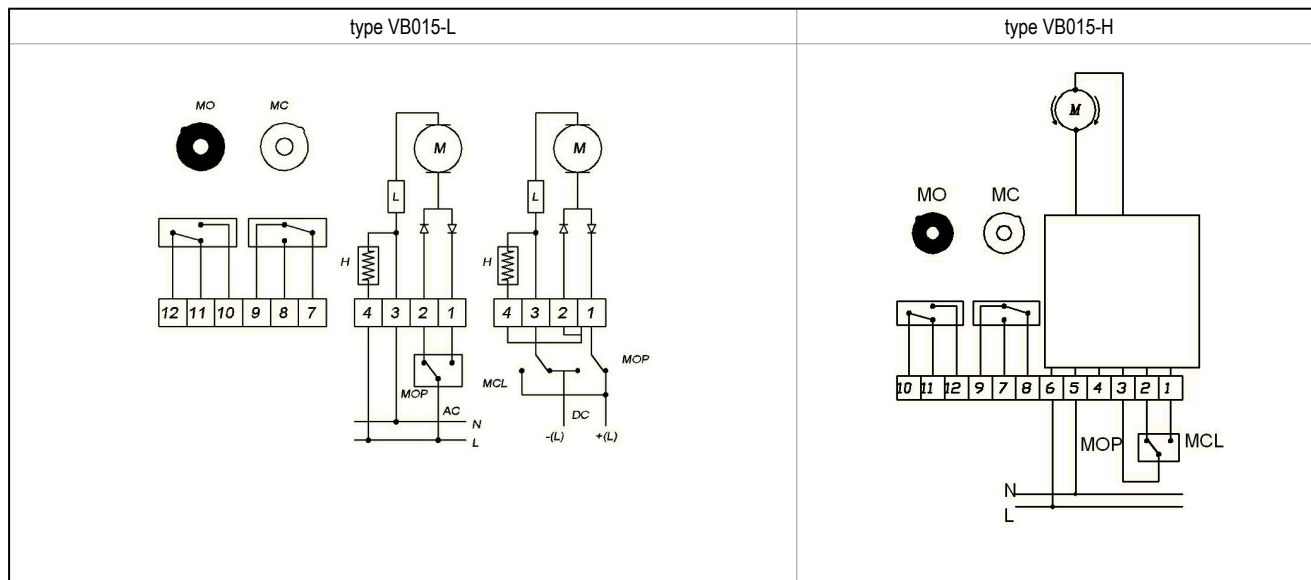
circuit diagramm



electrical data

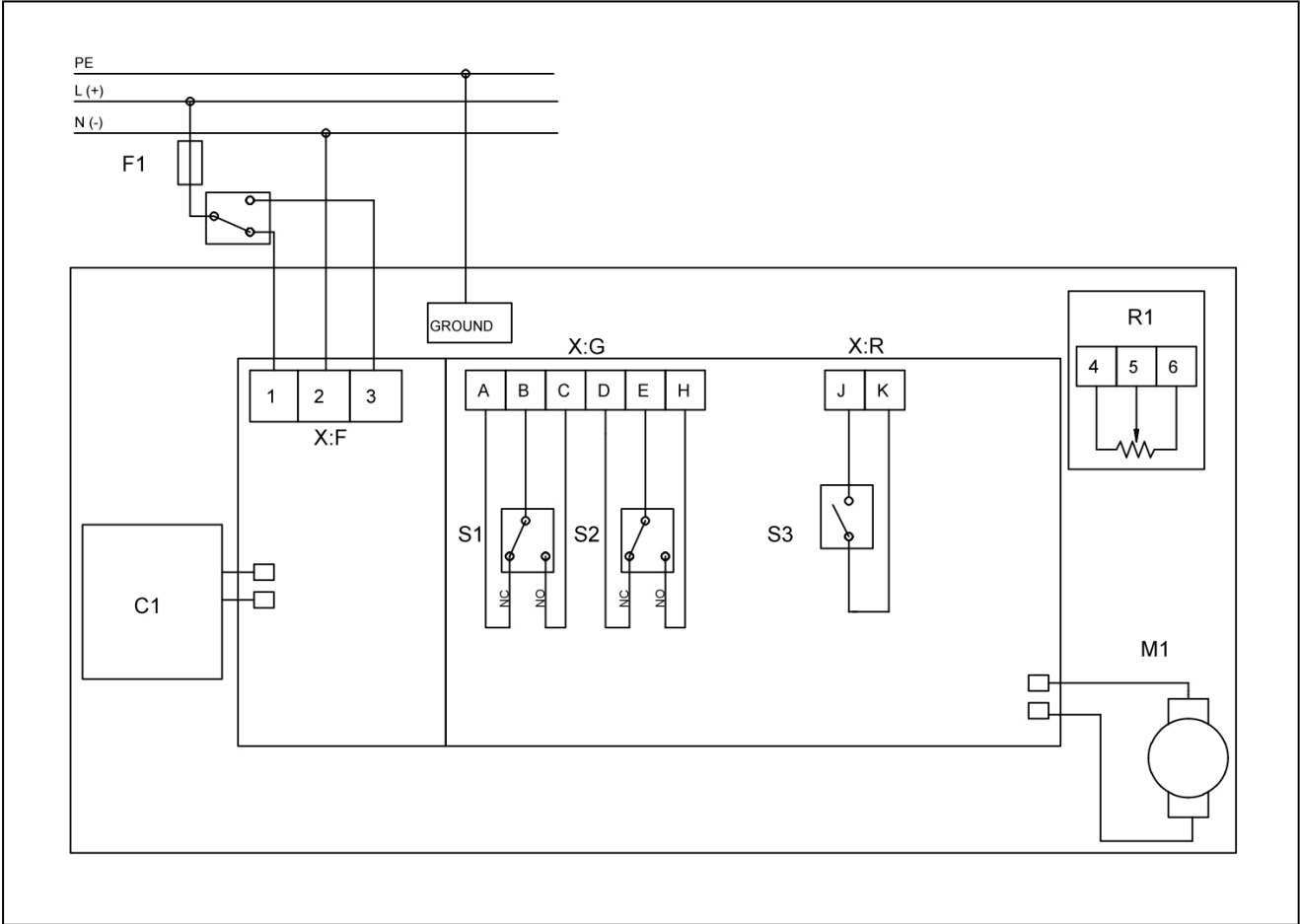
type	voltage	current consumption [A]	nominal torque [Nm]	duty cycle (S3)	operating time [Sek.]
VB015-L-12	12V/50-60Hz/12VDC	1,2	15	AC 50% / DC 75%	10
VB015-L-24	24V/50-60Hz/24VDC	0,6	15	AC 50% / DC 75%	10
VB015-H	100-240V/50-60Hz	0,3-0,19	15	75%	10
VB030-L-12	12V/50-60Hz/12VDC	AC 2,2 / DC 1,8	30	50%	8
VB030-L	24V/50-60Hz/24VDC	AC 1,0 / DC 0,7	30	75%	8
VB030-H	100-240V/50-60Hz	0,4-0,2	30	75%	8
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

example for electric wiring VB015



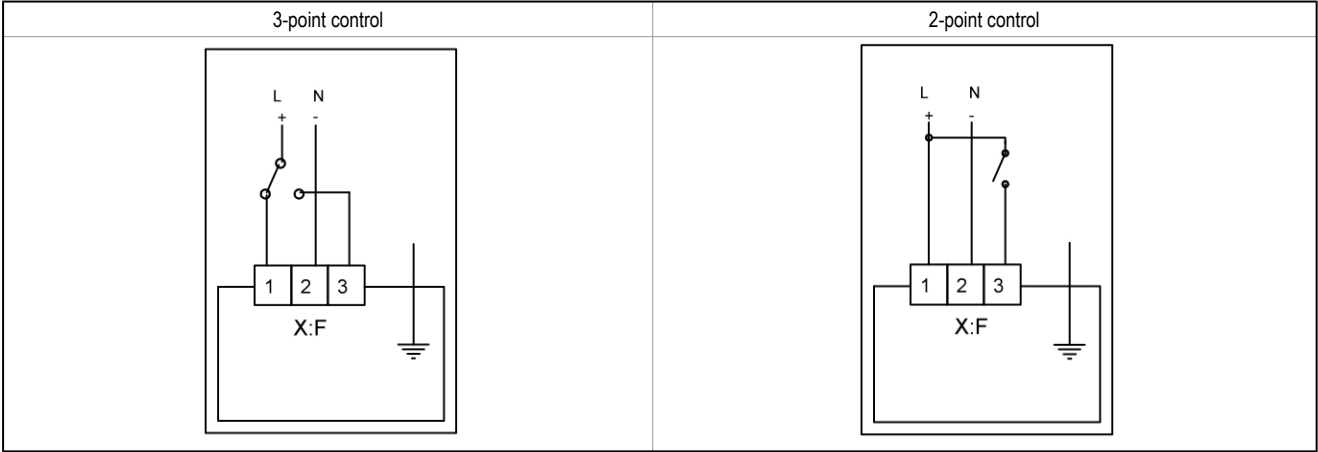
position	description	information
H	heating	standard
L	torque limiter	standard
MC	end position response close	standard max. 1A/250VAC-1A/30VDC
MO	end position response open	standard max. 1A/250VAC-1A/30VDC
MCL	actuator closing	
MOP	actuator opening	

electrical connection VB030 - VB110

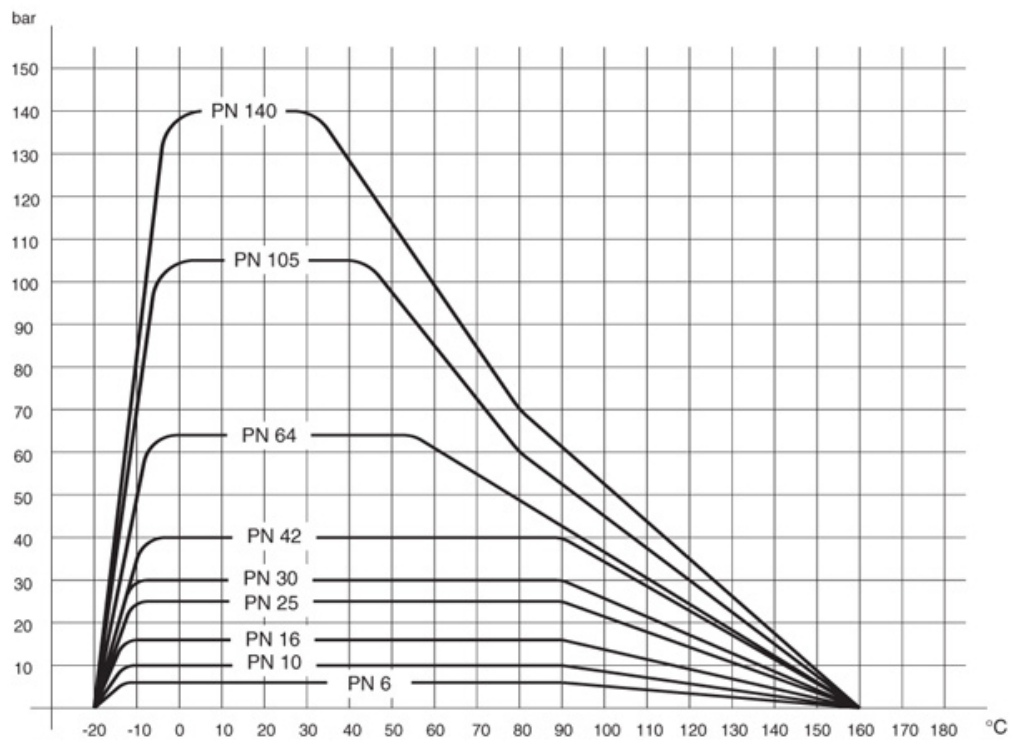


position	description	information
C1	accumulator for safety position	optionally available
R1	potentiometer 5 K Ω /1W	optionally available
S1	end position response close	standard max. 2A/250VAC-2A/30VDC
S2	end position response open	standard max. 2A/250VAC-2A/30VDC
S3	fault indicator	standard max. 1A/120VAC-2A/24VDC
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-VB110



pressure-temperature-diagram



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