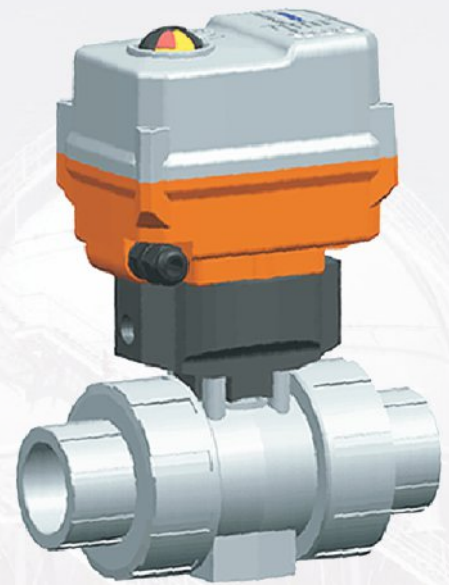


## Manual ball valve BV 200

## Electric ball valve BV 201

## Pneumatic ball valve BV 202



The BV200 of ball valves in KOSCN Control Valves which is a kind of standard application product, with internationally accepted structural design, which has the advantages of large flow and low torque. It can be modularly expanded into electric and pneumatic control, and realize intelligent application, with functions of switch, regulation, signal feedback, automatic reset, fault alarm and others.

### Easy installation and maintenance

- \* Ball valve of locking mechanism is optimized for two-way installation
- \* The handle has directions to open and close
- \* Designed with ISO5211 standard, easy maintenance
- \* Valve body and actuator are assembled by standard mounting parts
- \* Compact design of full plastic or aluminum actuators to ensure installation space

### High safety performance

- \* The trapezoidal design of threaded with Union to prevent the union cap from falling off
- \* Double-seal design of valve seat, low torque and no internal leakage
- \* Various materials are available, which can resist high temperature and corrosion
- \* Over-torque design of intelligent actuator to ensure safety application

### High Flexibility

- \* True union connection, loose flange connection
- \* Valve body has PVC-U, CPVC, PP-H, PVDF
- \* Connection type: DIN, ANSI, JIS
- \* Pneumatic control: NC, NO, DA
- \* Electric intelligent: switch, regulation, bus communication
- \* Function options: signal feedback, power-off reset, fault alarm

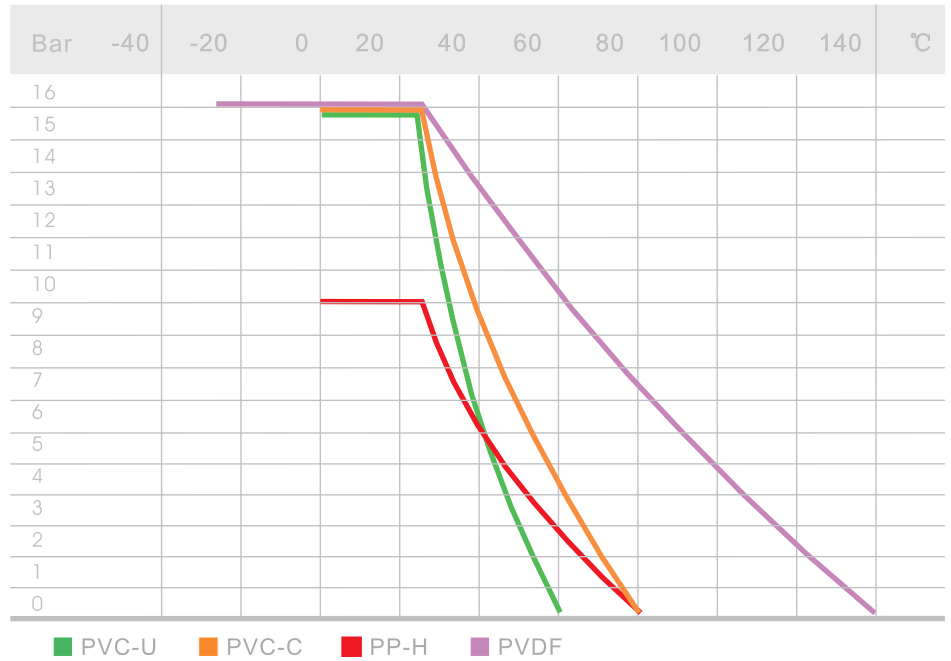


# + Technical characteristics

## Pressure temperature curve

All data based on water for consider -ring 25 years safe life time

Other liquids request to reduce the temperature and pressure accordingly



## Flow capacity

All data are for 20°C water with 1 bar pressure difference

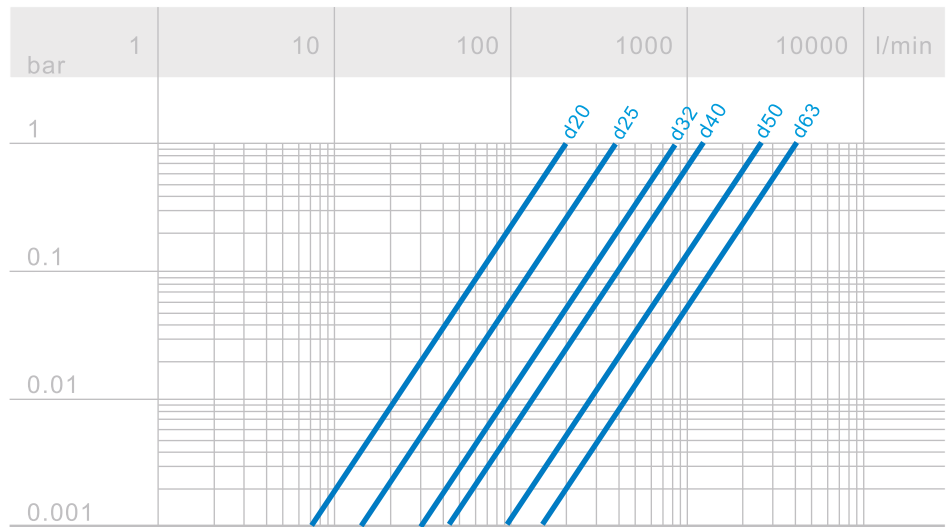
$$C_v = k_v \times 0,07$$

$$F_v = k_v \times 0,0585$$

$$K_v \text{ (l/min)}$$

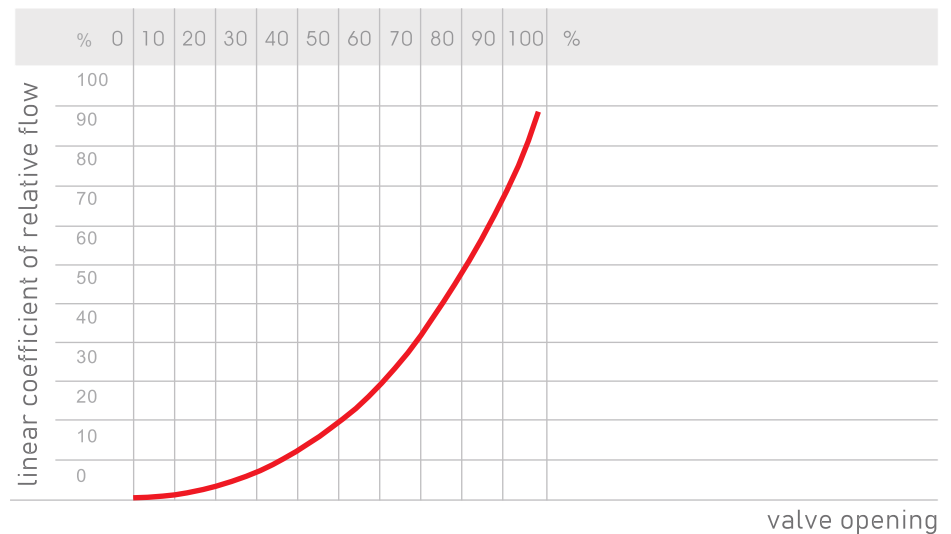
$$C_v \text{ (gal/min) US}$$

$$F_v \text{ (gal/min) GB}$$

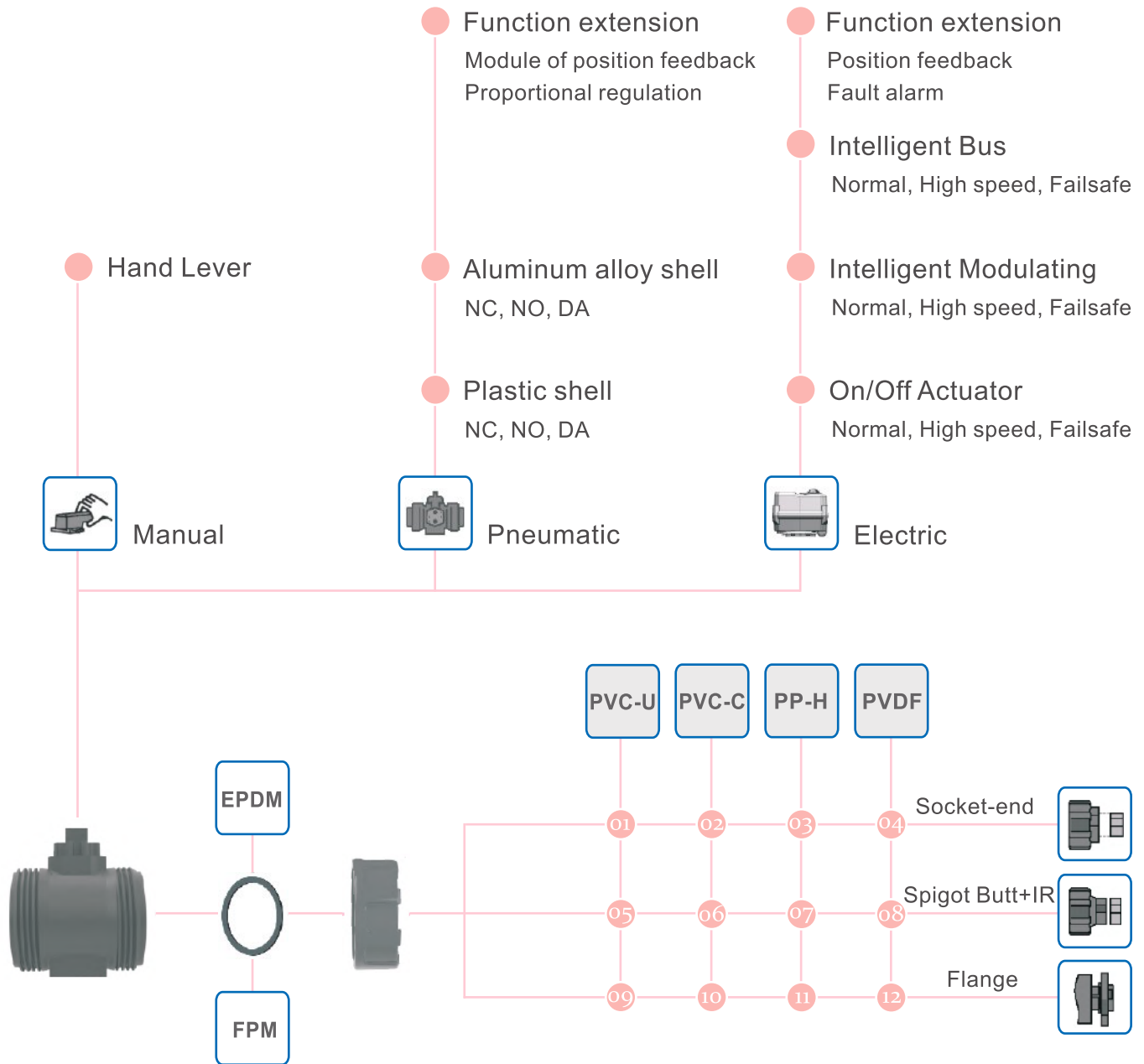


## Line chart for relative flow rate

The linear coefficient of relative flow refers to the flow change as a function of valve opening stroke

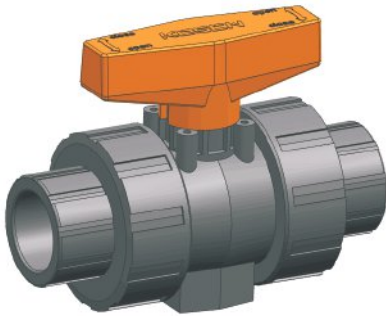


# + Configuration Pictogram



PVC-U	PVC-C	PP-H	PVDF
01 Socket-end DIN, JIS, ANSI	02 Socket-end DIN, JIS, ANSI	03 Socket-end DIN	04 Socket-end DIN
05 NO	06 NO	07 Spigot Butt+IR DIN	08 Spigot Butt+IR DIN
09 Flange Loose flange connection PP-Steel black DIN, JIS, ANSI	10 Flange Loose flange connection PP-Steel black DIN, JIS, ANSI	11 Flange Loose flange connection PP-Steel black DIN, JIS, ANSI	12 Flange Loose flange connection PP-Steel black DIN, JIS, ANSI

PVC-U Manual ball valves  
Union Socket-end  
DIN



<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.050.1020	200.060.1020
25	20	10	PTFE	200.050.1025	200.060.1025
32	25	10	PTFE	200.050.1032	200.060.1032
40	32	10	PTFE	200.050.1040	200.060.1040
50	40	10	PTFE	200.050.1050	200.060.1050
63	50	10	PTFE	200.050.1063	200.060.1063
75	65	10	PTFE	200.050.1075	200.060.1075
90	80	10	PTFE	200.050.1090	200.060.1090
110	100	10	PTFE	200.050.1011	200.060.1011

PVC-U Manual ball valves  
Union Socket-end  
JIS

<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.050.1220	200.060.1220
25	20	10	PTFE	200.050.1225	200.060.1225
32	25	10	PTFE	200.050.1232	200.060.1232
40	32	10	PTFE	200.050.1240	200.060.1240
50	40	10	PTFE	200.050.1250	200.060.1250
63	50	10	PTFE	200.050.1263	200.060.1263
75	65	10	PTFE	200.050.1275	200.060.1275
90	80	10	PTFE	200.050.1290	200.060.1290
110	100	10	PTFE	200.050.1211	200.060.1211

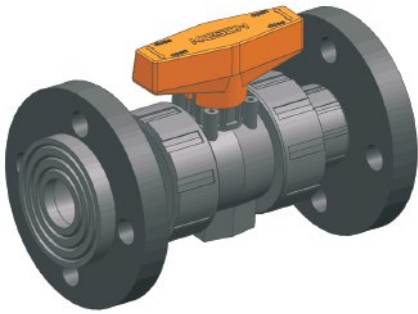
PVC-U Manual ball valves  
Union Socket-end  
ANSI

<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.050.1420	200.060.1420
25	20	10	PTFE	200.050.1425	200.060.1425
32	25	10	PTFE	200.050.1432	200.060.1432
40	32	10	PTFE	200.050.1440	200.060.1440
50	40	10	PTFE	200.050.1450	200.060.1450
63	50	10	PTFE	200.050.1463	200.060.1463
75	65	10	PTFE	200.050.1475	200.060.1475
90	80	10	PTFE	200.050.1490	200.060.1490
110	100	10	PTFE	200.050.1411	200.060.1411

PVC-U Manual ball valves

Union Flange

DIN



<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.050.7020	200.060.7020
25	20	10	PTFE	200.050.7025	200.060.7025
32	25	10	PTFE	200.050.7032	200.060.7032
40	32	10	PTFE	200.050.7040	200.060.7040
50	40	10	PTFE	200.050.7050	200.060.7050
63	50	10	PTFE	200.050.7063	200.060.7063
75	65	10	PTFE	200.050.7075	200.060.7075
90	80	10	PTFE	200.050.7090	200.060.7090
110	100	10	PTFE	200.050.7011	200.060.7011

PVC-U Manual ball valves

Union Flange

JIS

<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.050.7220	200.060.7220
25	20	10	PTFE	200.050.7225	200.060.7225
32	25	10	PTFE	200.050.7232	200.060.7232
40	32	10	PTFE	200.050.7240	200.060.7240
50	40	10	PTFE	200.050.7250	200.060.7250
63	50	10	PTFE	200.050.7263	200.060.7263
75	65	10	PTFE	200.050.7275	200.060.7275
90	80	10	PTFE	200.050.7290	200.060.7290
110	100	10	PTFE	200.050.7211	200.060.7211

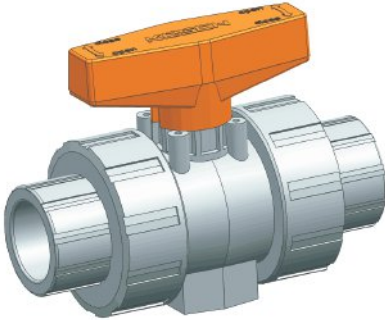
PVC-U Manual ball valves

Union Flange

ANSI

<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.050.7420	200.060.7420
25	20	10	PTFE	200.050.7425	200.060.7425
32	25	10	PTFE	200.050.7432	200.060.7432
40	32	10	PTFE	200.050.7440	200.060.7440
50	40	10	PTFE	200.050.7450	200.060.7450
63	50	10	PTFE	200.050.7463	200.060.7463
75	65	10	PTFE	200.050.7475	200.060.7475
90	80	10	PTFE	200.050.7490	200.060.7490
110	100	10	PTFE	200.050.7411	200.060.7411

PVC-C Manual ball valves  
Union Socket-end  
DIN



<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.250.1020	200.260.1020
25	20	10	PTFE	200.250.1025	200.260.1025
32	25	10	PTFE	200.250.1032	200.260.1032
40	32	10	PTFE	200.250.1040	200.260.1040
50	40	10	PTFE	200.250.1050	200.260.1050
63	50	10	PTFE	200.250.1063	200.260.1063
75	65	10	PTFE	200.250.1075	200.260.1075
90	80	10	PTFE	200.250.1090	200.260.1090
110	100	10	PTFE	200.250.1011	200.260.1011

PVC-C Manual ball valves  
Union Socket-end  
JIS

<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.250.1220	200.260.1220
25	20	10	PTFE	200.250.1225	200.260.1225
32	25	10	PTFE	200.250.1232	200.260.1232
40	32	10	PTFE	200.250.1240	200.260.1240
50	40	10	PTFE	200.250.1250	200.260.1250
63	50	10	PTFE	200.250.1263	200.260.1263
75	65	10	PTFE	200.250.1275	200.260.1275
90	80	10	PTFE	200.250.1290	200.260.1290
110	100	10	PTFE	200.250.1211	200.260.1211

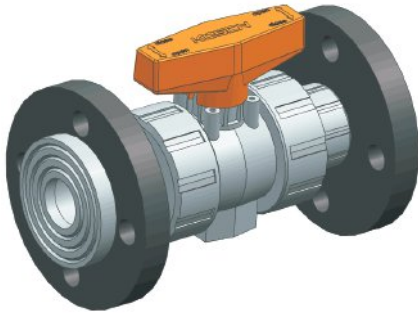
PVC-C Manual ball valves  
Union Socket-end  
ANSI

<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.250.1420	200.260.1420
25	20	10	PTFE	200.250.1425	200.260.1425
32	25	10	PTFE	200.250.1432	200.260.1432
40	32	10	PTFE	200.250.1440	200.260.1440
50	40	10	PTFE	200.250.1450	200.260.1450
63	50	10	PTFE	200.250.1463	200.260.1463
75	65	10	PTFE	200.250.1475	200.260.1475
90	80	10	PTFE	200.250.1490	200.260.1490
110	100	10	PTFE	200.250.1411	200.260.1411

PVC-C Manual ball valves

Union Flange

DIN



<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.250.7020	200.260.7020
25	20	10	PTFE	200.250.7025	200.260.7025
32	25	10	PTFE	200.250.7032	200.260.7032
40	32	10	PTFE	200.250.7040	200.260.7040
50	40	10	PTFE	200.250.7050	200.260.7050
63	50	10	PTFE	200.250.7063	200.260.7063
75	65	10	PTFE	200.250.7075	200.260.7075
90	80	10	PTFE	200.250.7090	200.260.7090
110	100	10	PTFE	200.250.7011	200.260.7011

PVC-C Manual ball valves

Union Flange

JIS

<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.250.7220	200.260.7220
25	20	10	PTFE	200.250.7225	200.260.7225
32	25	10	PTFE	200.250.7232	200.260.7232
40	32	10	PTFE	200.250.7240	200.260.7240
50	40	10	PTFE	200.250.7250	200.260.7250
63	50	10	PTFE	200.250.7263	200.260.7263
75	65	10	PTFE	200.250.7275	200.260.7275
90	80	10	PTFE	200.250.7290	200.260.7290
110	100	10	PTFE	200.250.7211	200.260.7211

PVC-C Manual ball valves

Union Flange

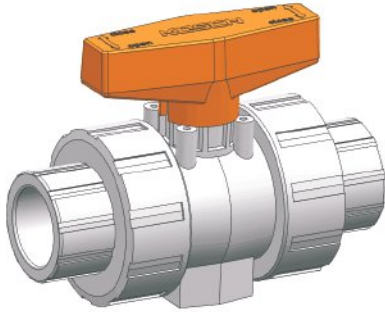
ANSI

<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.250.7420	200.260.7420
25	20	10	PTFE	200.250.7425	200.260.7425
32	25	10	PTFE	200.250.7432	200.260.7432
40	32	10	PTFE	200.250.7440	200.260.7440
50	40	10	PTFE	200.250.7450	200.260.7450
63	50	10	PTFE	200.250.7463	200.260.7463
75	65	10	PTFE	200.250.7475	200.260.7475
90	80	10	PTFE	200.250.7490	200.260.7490
110	100	10	PTFE	200.250.7411	200.260.7411

PP-H Manual ball valves

Union Socket-end

DIN



<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.450.1020	200.460.1020
25	20	10	PTFE	200.450.1025	200.460.1025
32	25	10	PTFE	200.450.1032	200.460.1032
40	32	10	PTFE	200.450.1040	200.460.1040
50	40	10	PTFE	200.450.1050	200.460.1050
63	50	10	PTFE	200.450.1063	200.460.1063
75	65	10	PTFE	200.450.1075	200.460.1075
90	80	10	PTFE	200.450.1090	200.460.1090
110	100	10	PTFE	200.450.1011	200.460.1011

PP-H Manual ball valves

Union Spigot Butt+IR

DIN

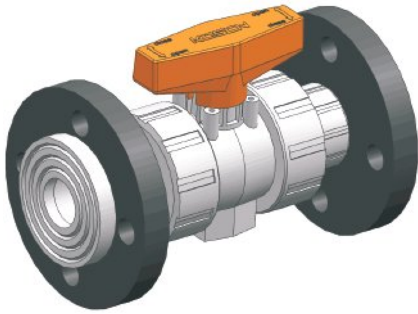
<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.450.3020	200.460.3020
25	20	10	PTFE	200.450.3025	200.460.3025
32	25	10	PTFE	200.450.3032	200.460.3032
40	32	10	PTFE	200.450.3040	200.460.3040
50	40	10	PTFE	200.450.3050	200.460.3050
63	50	10	PTFE	200.450.3063	200.460.3063
75	65	10	PTFE	200.450.3075	200.460.3075
90	80	10	PTFE	200.450.3090	200.460.3090
110	100	10	PTFE	200.450.3011	200.460.3011



PP-H Manual ball valves

Union Flange

DIN



<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.450.7020	200.460.7020
25	20	10	PTFE	200.450.7025	200.460.7025
32	25	10	PTFE	200.450.7032	200.460.7032
40	32	10	PTFE	200.450.7040	200.460.7040
50	40	10	PTFE	200.450.7050	200.460.7050
63	50	10	PTFE	200.450.7063	200.460.7063
75	65	10	PTFE	200.450.7075	200.460.7075
90	80	10	PTFE	200.450.7090	200.460.7090
110	100	10	PTFE	200.450.7011	200.460.7011

PP-H Manual ball valves

Union Flange

JIS

<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.450.7220	200.460.7220
25	20	10	PTFE	200.450.7225	200.460.7225
32	25	10	PTFE	200.450.7232	200.460.7232
40	32	10	PTFE	200.450.7240	200.460.7240
50	40	10	PTFE	200.450.7250	200.460.7250
63	50	10	PTFE	200.450.7263	200.460.7263
75	65	10	PTFE	200.450.7275	200.460.7275
90	80	10	PTFE	200.450.7290	200.460.7290
110	100	10	PTFE	200.450.7211	200.460.7211

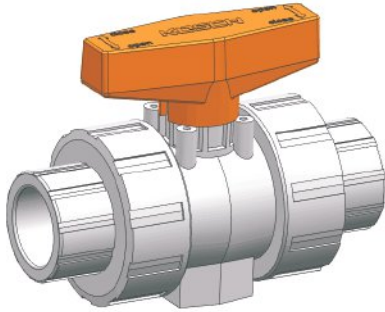
PP-H Manual ball valves

Union Flange

ANSI

<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.450.7420	200.460.7420
25	20	10	PTFE	200.450.7425	200.460.7425
32	25	10	PTFE	200.450.7432	200.460.7432
40	32	10	PTFE	200.450.7440	200.460.7440
50	40	10	PTFE	200.450.7450	200.460.7450
63	50	10	PTFE	200.450.7463	200.460.7463
75	65	10	PTFE	200.450.7475	200.460.7475
90	80	10	PTFE	200.450.7490	200.460.7490
110	100	10	PTFE	200.450.7411	200.460.7411

PVDF Manual ball valves  
Union Socket-end  
DIN



<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	16	PTFE	200.650.1020	200.660.1020
25	20	16	PTFE	200.650.1025	200.660.1025
32	25	16	PTFE	200.650.1032	200.660.1032
40	32	16	PTFE	200.650.1040	200.660.1040
50	40	16	PTFE	200.650.1050	200.660.1050
63	50	16	PTFE	200.650.1063	200.660.1063
75	65	16	PTFE	200.650.1075	200.660.1075
90	80	16	PTFE	200.650.1090	200.660.1090
110	100	16	PTFE	200.650.1011	200.660.1011

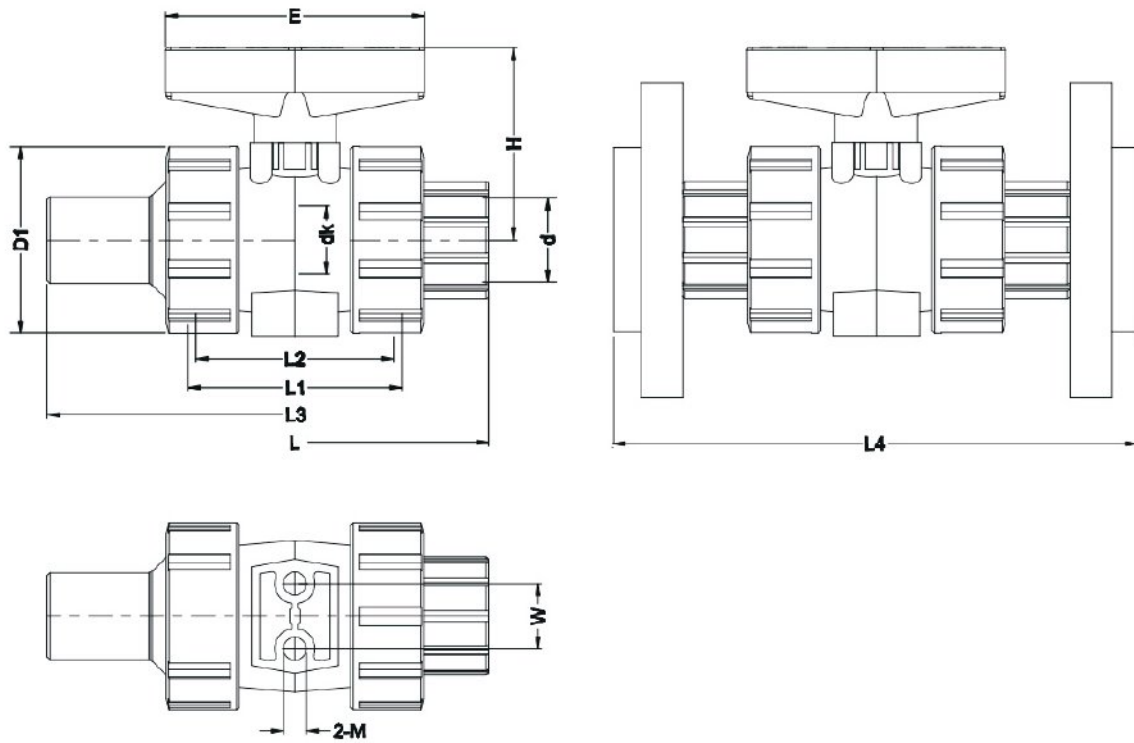
PVDF Manual ball valves  
Union Spigot Butt+IR  
DIN

<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	16	PTFE	200.650.3020	200.660.3020
25	20	16	PTFE	200.650.3025	200.660.3025
32	25	16	PTFE	200.650.3032	200.660.3032
40	32	16	PTFE	200.650.3040	200.660.3040
50	40	16	PTFE	200.650.3050	200.660.3050
63	50	16	PTFE	200.650.3063	200.660.3063
75	65	16	PTFE	200.650.3075	200.660.3075
90	80	16	PTFE	200.650.3090	200.660.3090
110	100	16	PTFE	200.650.3011	200.660.3011

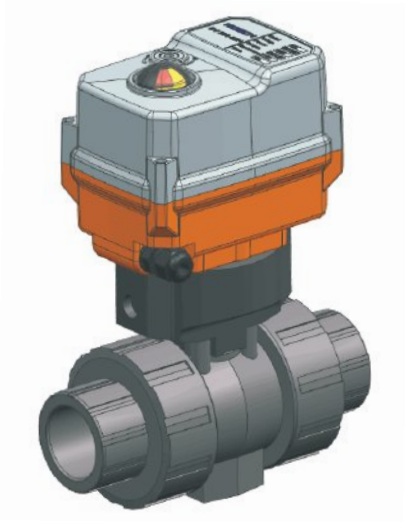
PVDF Manual ball valves , Oil-free  
Union Spigot Butt+IR  
DIN

<i>d</i> (mm)	<i>DN</i> (mm)	<i>PN</i> (bar)	<i>Ball seat</i>	<i>EPDM</i>	<i>FPM</i>
20	15	10	PTFE	200.650.3020.N	200.660.3020.N
25	20	10	PTFE	200.650.3025.N	200.660.3025.N
32	25	10	PTFE	200.650.3032.N	200.660.3032.N
40	32	10	PTFE	200.650.3040.N	200.660.3040.N
50	40	10	PTFE	200.650.3050.N	200.660.3050.N
63	50	10	PTFE	200.650.3063.N	200.660.3063.N
75	65	10	PTFE	200.650.3075.N	200.660.3075.N
90	80	10	PTFE	200.650.3090.N	200.660.3090.N
110	100	10	PTFE	200.650.3011.N	200.660.3011.N

Size data



$d$	$DN$	$D1$	$Dk$	$H$	$L$	$L1$	$L2$	$L3$	$L4$	$E$	$W$	$M$
20	15	51	13,5	55	120	72	64	170	161	68	19,0	6
25	20	61	18,0	70	126	74	65	177	171	88	24,5	6
32	25	69	23,5	71	147	87	77	195	196	88	24,5	6
40	32	85	30,5	90	166	100	85	209	220	108	34,5	8
50	40	98	38,5	94	172	100	90	220	232	108	44,5	8
63	50	125	49,0	116	197	121	112	249	259	118	44,5	8
75	65	158	65,0	133	234	145	136	386	290	190	60,0	8
90	80	192	77,0	154	255	151	141	421	310	230	60,0	8
110	100	223	98,0	175	297	173	163	483	372	270	80,0	8



**BV201 electric ball valve**

Valve Body material of BV201 and the all basis data are basically the same as BV200 manual valve

Electric valves are coded extensions based on manual valves

Example: 200.050.1020 → 201.050.1020.XXX

**Standard**

KOSCN-02N Normal On/Off Actuator

KOSCN-02T Intelligent Modulating Actuator

KOSCN-02B Intelligent Bus Actuator

**Optional**

KOSCN-02C Intelligent On/Off Actuator

KOSCN-02R Intelligent Wireless Actuator

KOSCN-02D Intelligent Timer Actuator

Please consult KOSCN or agency for non-standard functions and parameters

TYPE	FUNCTION	V	d20	d25	d32	d40	d50	d63	d75	d90	d110
On/Off	Normal	DC 24V	...010	...010	...010	...010	...010	...010	...010	...010	...010
		AC 230V	...011	...011	...011	...011	...011	...011	...011	...011	...011
	High speed	DC 24V	...020	...020	...020	...020	...020	...020	...020	...020	...020
		Failsafe	DC 24V	...030	...030	...030	...030	...030	...030	...030	...030
			AC 230V	...031	...031	...031	...031	...031	...031	...031	...031
	Intelligent Modulating	Normal	DC 24V	...110	...110	...110	...110	...110	...110	...110	...110
AC 95-265V			...111	...111	...111	...111	...111	...111	...111	...111	...111
High speed		DC 24V	...120	...120	...120	...120	...120	...120	...120	...120	...120
		Failsafe	DC 24V	...130	...130	...130	...130	...130	...130	...130	...130
			AC 95-265V	...131	...131	...131	...131	...131	...131	...131	...131
Intelligent Bus		Normal	DC 24V	...210	...210	...210	...210	...210	...210	...210	...210
	AC 95-265V		...211	...211	...211	...211	...211	...211	...211	...211	...211
	High speed	DC24V	...220	...220	...220	...220	...220	...220	...220	...220	...220
		Failsafe	DC 24V	...230	...230	...230	...230	...230	...230	...230	...230
			AC 95-265V	...231	...231	...231	...231	...231	...231	...231	...231

## Overview of optional functions of electric actuator

### KOSCN-02N Normal On/Off Actuator

- \* Matched valves: 2-way,3-way ball valve and butterfly valve
- \* Rated voltage: DC12V,DC24V,AC24V/110V/230V
- \* Control feedback mode: B3S,B3P,B3R,BD3S
- \* High performance brushless motor,overheat/overload protection
- \* It can be used up to 20,000 times
- \* For AC series,it is forbidden to use two or more actuators in parallel

### KOSCN-02R Intelligent Wireless Actuator

- \* Matched valves: 2-way,3-way ball valve and butterfly valve
- \* Rated voltage: AC/DC95V-265V, AC/DC24V
- \* Communication Mode: RF433/868/915MHZ,FSK,LORA,RF Ocean (single control)
- \* Communication protocol: Compatible Modbus
- \* Wireless Module: SX1278/SX1276/A7108
- \* Communication distance: The maximum is 3Km
- \* Achievable mode: 2 way/3 way
- \* High performance brushless motor,overload or overheated protection of internal motor
- \* It can be used up to 20,000 times

### KOSCN-02D Intelligent Timer Actuator

- \* Matched valves: 2-way,3-way ball valve and butterfly valve
- \* Rated voltage: AC/DC95V-265V, AC/DC24V
- \* Timer mode: pulse mode , time mode
- \* Loop mode : loop by days , loop by weeks
- \* Adopted high-performance brushless motor, Overload protection of internal motor
- \* It can be used up to 20,000 times.

### KOSCN-02C Intelligent On/Off Actuator

- \* Matched valves: 2-way, 3-way ball valve and butterfly valve
- \* Rated voltage: AC/DC95V-265V, AC/DC24V
- \* Control feedback mode: BD3J,B3J,B33J,B43J(feedback synchronous with arrival)
- \* Alarm output: A(Relay contact feedback)
- \* Achievable mode: 2 way /3 way
- \* High performance brushless motor,overload or overheated protection of internal motor
- \* It can be used up to 20,000 times
- \* Two or more actuators can be used in parallel

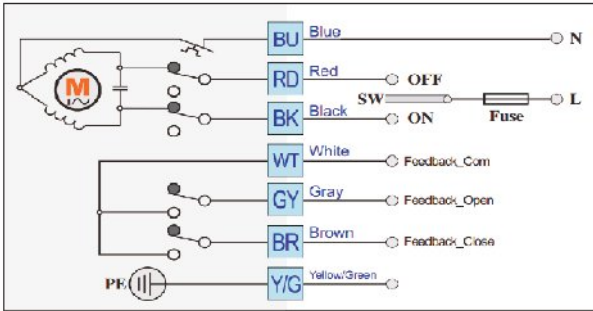
### KOSCN-02T Intelligent Modulating Actuator

- \* Matched valves: 2-way,3-way ball valve and butterfly valve
- \* Rated voltage: AC/DC95V-265V, AC/DC24V
- \* Control signal: 4-20mA,0-20mA,0-10V,0-5V,1-5V,2-10V
- \* Position feedback: 4-20mA
- \* Position accuracy: 1%
- \* Alarm output: A(Relay contact feedback)
- \* High performance brushless motor,overload or overheated protection of internal motor
- \* It can be used up to 20,000 times

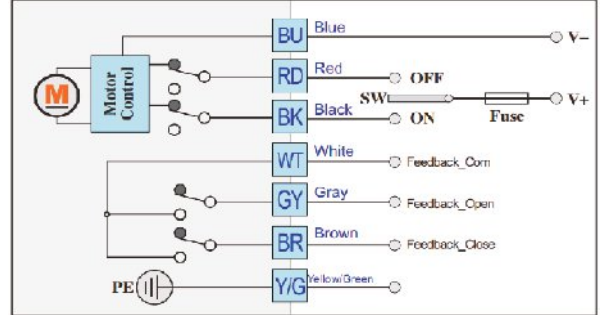
### KOSCN-02B Intelligent Bus Actuator

- \* Matched valves: 2-way,3-way ball valve and butterfly valve
- \* Rated voltage:AC/DC95V-265V, AC/DC24V
- \* Control feedback mode: RS485(Modbus), CANBus 2.0B/Mbus(customized)
- \* Achievable mode: 2 way /3 way
- \* High performance brushless motor,overload or overheated protection of internal motor
- \* It can be used up to 20,000 times
- \* Tow or more actuators can be used in parallel (RS485 could parallel maximum 32/64/256 actuators, while CANBus parallels 110 actuators)

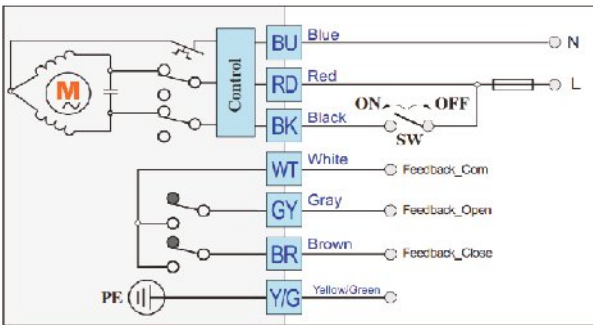
Normal on/off model-wiring diagrams  
B3S



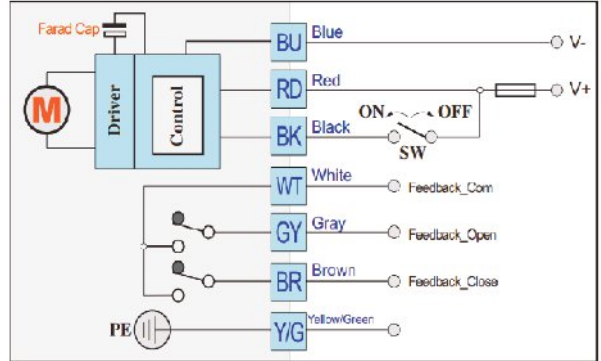
Normal on/off model-wiring diagrams  
B3S- (DC series)



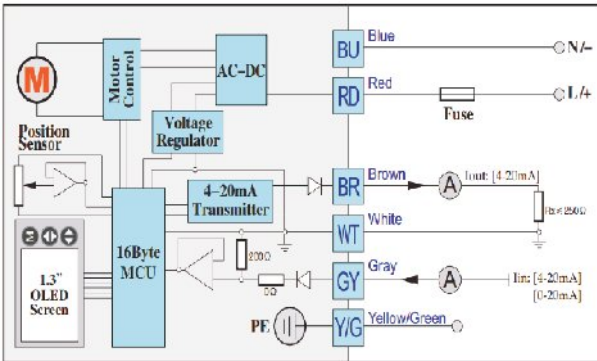
Normal on/off model-wiring diagrams  
BD3S



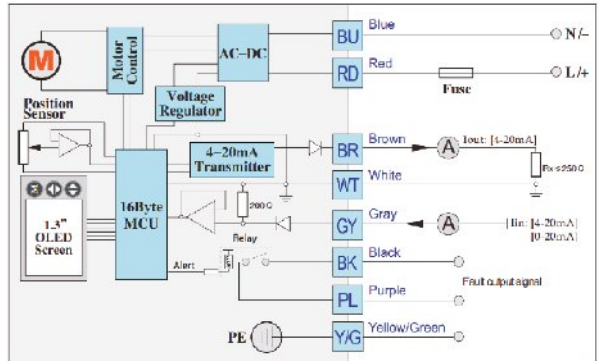
Normal on/off model-wiring diagrams  
KT32S/BD3S ( DC series )



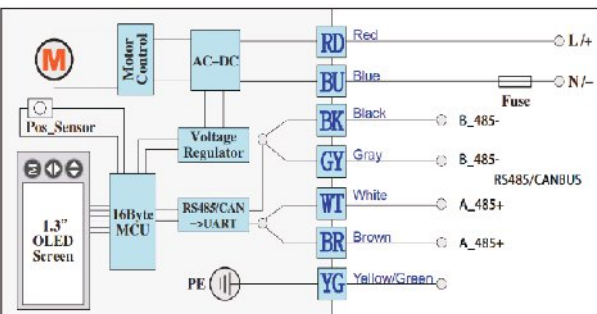
Intelligent modulating model-wiring diagrams  
4-20mA / 0-20mA



Intelligent modulating model-wiring diagrams  
4-20mA-A / 0-20mA-A (Alarm)



Intelligent Bus model -Wiring Diagram  
RS485 / CANBUS (02B-KT)

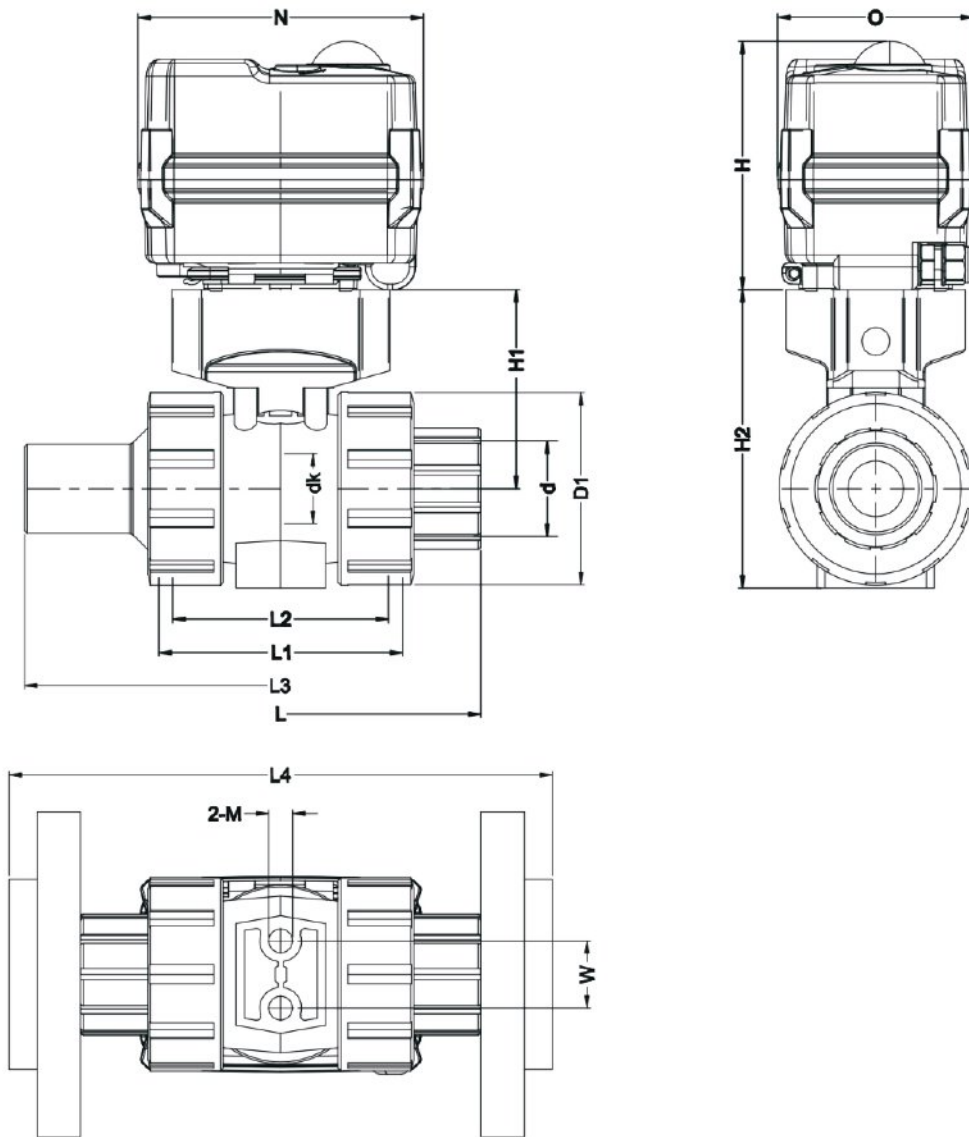


Interface

- Intelligent modulating model
- Intelligent Bus model interface



Size data



<i>d</i>	<i>DN</i>	<i>D1</i>	<i>Dk</i>	<i>H</i>	<i>H1</i>	<i>H2</i>	<i>L</i>	<i>L1</i>	<i>L2</i>	<i>L3</i>	<i>L4</i>	<i>N</i>	<i>O</i>	<i>W</i>	<i>M</i>
20	15	51	13,5	90	57	65	120	72	64	170	161	102	70	19,0	6
25	20	61	18,0	90	68	65	126	74	65	177	171	102	70	24,5	6
32	25	69	23,5	90	71	77	147	87	77	195	196	102	70	24,5	6
40	32	85	30,5	90	95	85	166	100	85	209	220	102	70	34,5	8
50	40	98	38,5	90	84	90	172	100	90	220	232	102	70	44,5	8
63	50	125	49,0	90	114	112	197	121	112	249	259	102	70	44,5	8

**BV202 Pneumatic ball valve**



Valve Body material of BV202 and the all basis data are basically the same as BV200 manual valve

Pneumatic valves are coded extensions based on manual valves  
 Example: 200.050.1020 → 202.050.1020.XXX

Working pressure:

Input pressure of full plastic actuator: Pmax = 7 bar

Input pressure of aluminum body actuator: Pmax = 8 bar

Mechanical limit:

Full plastic actuator is standard, Aluminum body actuators are optional, please contact with KOSCN or agency for selection and ordering

Position feedback:

All actuators can be extended with position feedback modules,  
 Feedback signal voltage : AC/DC 12-265V

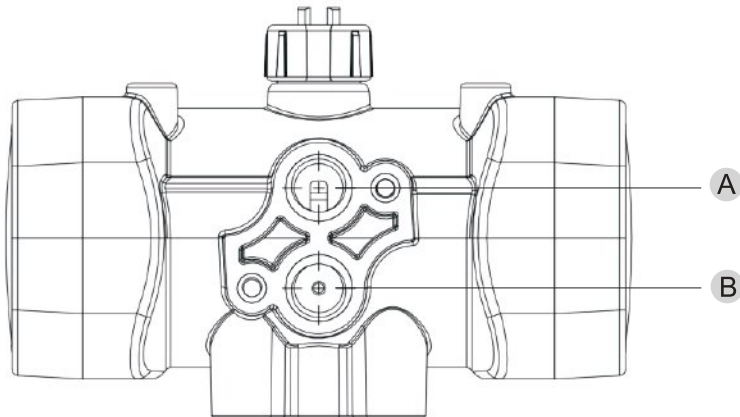
Mounting brackets:

Full-plastic closure with sealing of installation connector  
 ISO 5211 connection standard

Material	Control	Type	d20	d25	d32	d40	d50	d63	d75	d90	d110
Full plastic	NC	Standard	...010	...010	...010	...010	...010	...010	...010	...010	...010
		Micro switch	.....	.....	.....	.....	.....	.....	.....	.....	.....
	NO	Standard	...020	...020	...020	...020	...020	...020	...020	...020	...020
		Micro switch	.....	.....	.....	.....	.....	.....	.....	.....	.....
	DA	Standard	...030	...030	...030	...030	...030	...030	...030	...030	...030
		Micro switch	.....	.....	.....	.....	.....	.....	.....	.....	.....
Aluminum	NC	Standard	...110	...110	...110	...110	...110	...110	...110	...110	...110
		Micro switch	.....	.....	.....	.....	.....	.....	.....	.....	.....
	NO	Standard	...120	...120	...120	...120	...120	...120	...120	...120	...120
		Micro switch	.....	.....	.....	.....	.....	.....	.....	.....	.....
	DA	Standard	...130	...130	...130	...130	...130	...130	...130	...130	...130
		Micro switch	.....	.....	.....	.....	.....	.....	.....	.....	.....



Driving work instructions



Air source interface size: A air inlet G1/4 or 1/8 threaded  
B air inlet G1/4 Or 1/8 threaded

NC: control pressure connects air inlet B, valves open

NO: control pressure connects air inlet B, valves close

DA: control pressure connects air inlet A, valves close; control pressure connects air inlet B, valves open

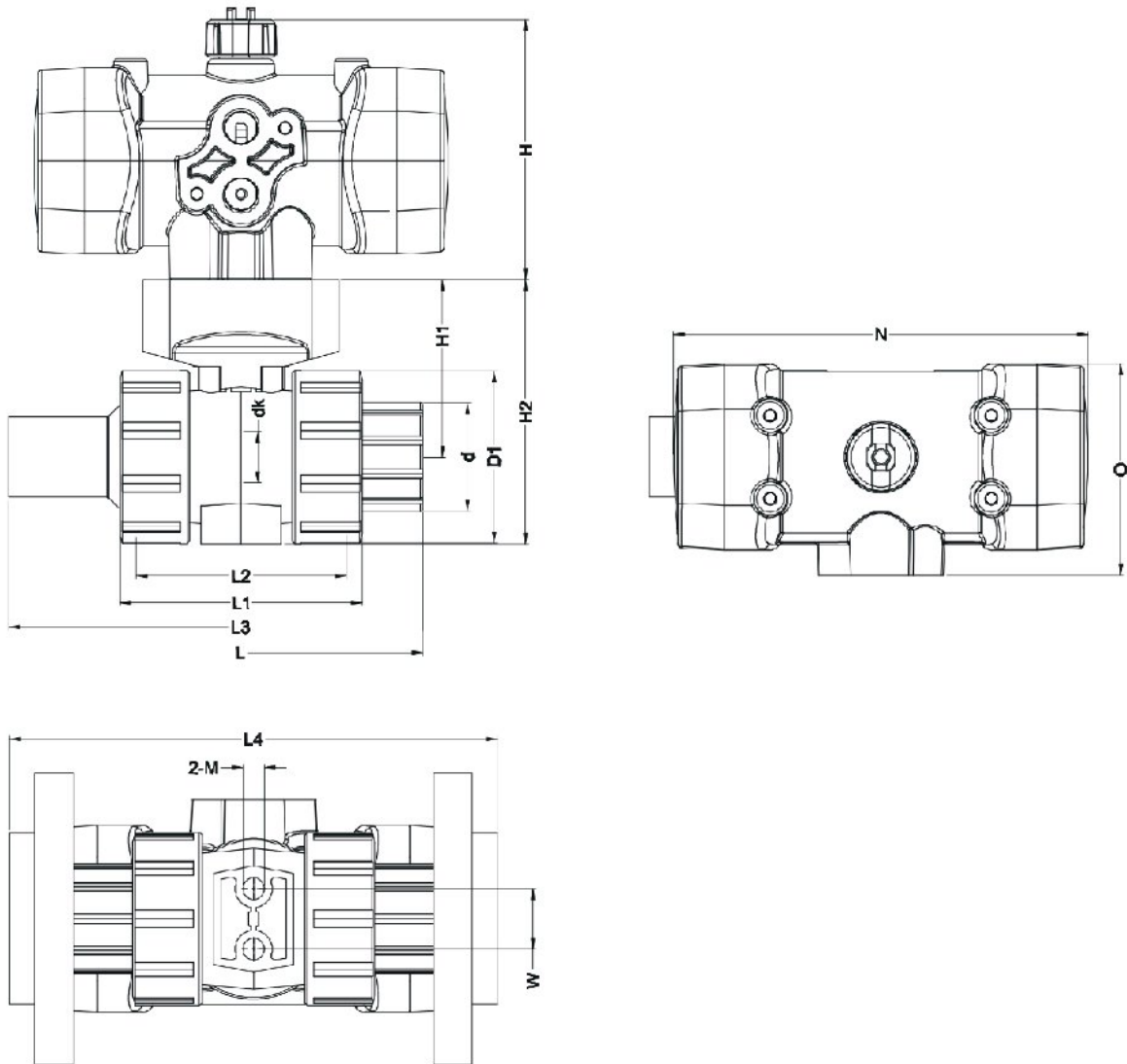
NC/NO pilot-operated valve: with 3/2 solenoid valve

DA pilot-operated valve: with 5/2 solenoid valve

Note:

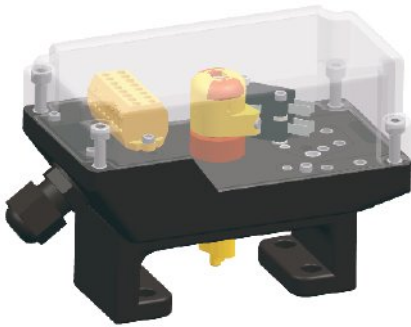
The driving pressure of all actuators cannot be higher than the upper limit to ensure safe use and achieve optimal functions. If the control pressure exceeds the limits, a malfunction may occur. In this case, a new actuator configuration is required.

Size data



$d$	$DN$	$D1$	$Dk$	$H$	$H1$	$H2$	$L$	$L1$	$L2$	$L3$	$L4$	$N$	$O$	$W$	$M$
20	15	51	13,5	85	57	84	120	72	64	170	161	142	69	19,0	6
25	20	61	18,0	85	68	101	126	74	65	177	171	142	69	24,5	6
32	25	69	23,5	102	71	107	147	87	77	195	196	158	78	24,5	6
40	32	85	30,5	102	95	135	166	100	85	209	220	158	78	34,5	8
50	40	98	38,5	123	84	139	172	100	90	220	232	230	97	44,5	8
63	50	125	49,0	123	114	178	197	121	112	249	259	230	97	44,5	8

Plastic limit switch MA620



- Easy installation and maintenance, cylinder top base directly installed.
- Unlimited caliber.
- 0~90° or 0~180° stroke, adjustable.
- Using imported mechanical micro switch, long life, high reliability.
- Standard configuration of silver alloy contacts, other silver and gold materials can be selected.
- Optional reply and proximity switches. Optional PNP or NPN mode.
- It has explosion-proof configuration

Power voltage	24V/DC , Single loop current 2.5A*2 230V/DC , Single loop current 2.5A*2
Power consumption	24V/DC , 10W*2 230V/DC , 15W*2
Electrical connections	M12 Waterproof Conn
The input signal	Switch quantity
Protection grade	IP 65
Shell material	PA6 , PC
Environment temperature	-20℃ ~ +80℃

Optional: metal limit switch MA620 , please consult KOSCN or local agent for details.

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