

Ball valve C 100

multi-part, high k_v value, high stability



Advantage

- optimised k_v value - for all sizes, the internal ball diameter is constructively adapted to the internal pipe diameter
- exchangeable ball seat and ball
- high stability for the entire valve

Application

- chemical plants
- industrial plants

Intended Use

- for shutting off pipeline systems

Flow Media

- Neutral and aggressive fluid or gaseous media free of solid particles, provided that the valve components coming into contact with the media are resistant at the operating temperature in accordance with the ASV-resistance guide.

Testing

- Requirements and tests/inspections according to DIN 3441, 3442, 8063 and 16962. DIN EN 12266, leakage rate A tested.

Nominal Pressure (H_2O , 20°C)

- PN 10 - PN 16

Fluid Temperature

- see pressure-/temperature diagram

Operating Pressure

- see pressure-/temperature diagram

Size

- DN 10 - DN 50

Body

- PVC-U
- PP
- PVDF

Stem

- PVC-U
- PP
- PVDF

Ball

- PVC-U
- PP
- PVDF

Ball Seat

- PTFE

Sealing

- FPM
- EPDM

Actuation

- with T-handle, simultaneously serving as a position indicator
- with electric actuator, DIN EN ISO 5211
- with pneumatic actuator, DIN EN ISO 5211

Connection

- union featuring a connection thread suitable for plastic materials
- GFR flange DIN EN 1092, PN 10/16, face-to-face dimension according to ASV standard
- PP/steel flange DIN EN 1092, PN 10/16, face-to-face dimension according to ASV-Norm
- union socket end for solvent welding DIN ISO (PVC-U)
- union socket end for fusion welding DIN ISO (PP)
- union socket end for fusion welding DIN ISO (PVDF)
- union spigot end for fusion welding DIN ISO (PP)

Mounting Position

- as required

Fastening

- optionally available with bracket

Accessories

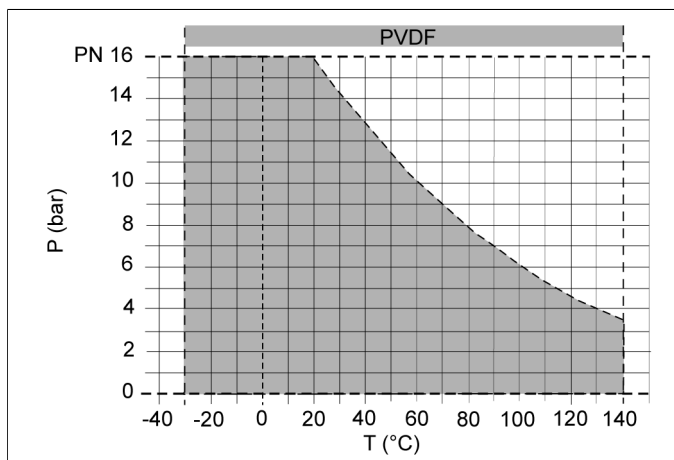
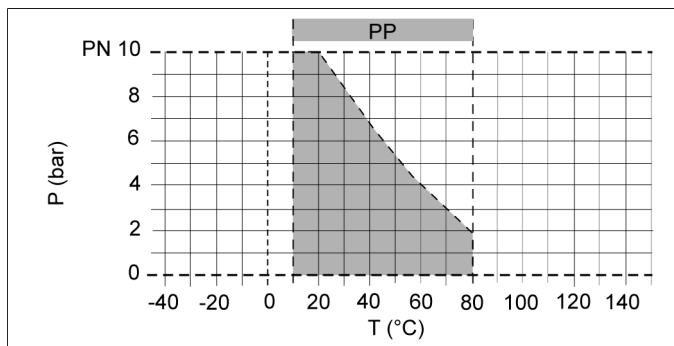
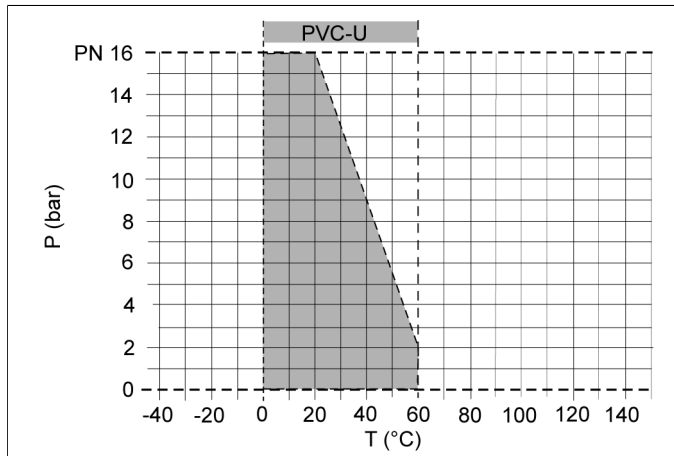
- limit switch unit
- bracket
- union spigot end for fusion welding DIN/ISO (PE)

Colour

- body: PVC-U, grey, RAL 7011
- body: PP, grey, RAL 7032
- body: PVDF, opaque, yellowish-white
- T-handle: PVC-U, orange, RAL 2004
- GFR Flanges: black, RAL 9011
- PP/Steel Flanges: black, RAL 9011

Ball valve C 100

Pressure/temperature diagram



P = operating pressure

T = temperature

The pressure/temperature limits are applicable for the stated nominal pressures and a computed operating life factor of 25 years. These are standard values for harmless media (DIN 2403), to which the valve material is resistant.

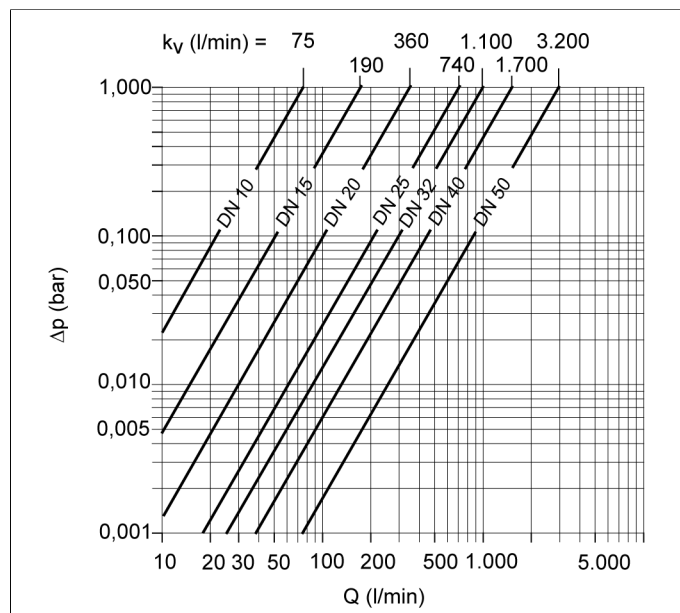
For other media please refer to the ASV resistance guide.

The durability of wear parts depends on the operating conditions of the application.

For temperatures below 0°C (PP < +10°C) please specify the precise operating conditions of the application.

The rated pressure depends on the valve size and material. For the corresponding rated pressure value of the valve, please refer to the »Order table«.

Pressure loss curve (standard values for H₂O, 20°C)



ΔP = pressure loss

Q = flow

pressure loss and *k_v* value

The diagram shows the pressure loss ΔP in relation to the flow *Q*.

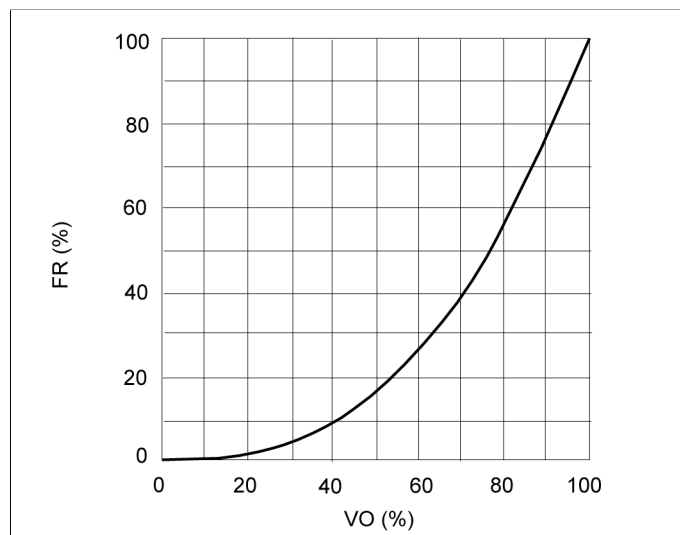
Conversion aid:

$$c_v = k_v \times 0.07; f_v = k_v \times 0.0585$$

Units:

k_v [l/min]; *c_v* [gal/min] US; *f_v* [gal/min] GB

Flow characteristic



VO = valve opening

FR = *K_v* value

Ball valve C 100

Torque (Nm)

d (mm)	16	20	25	32	40	50	63
PVC-U	2,5	2,5	3,6	4,5	6,2	8,5	11,0
PP	2,5	2,5	3,6	4,5	6,2	8,5	11,0
PVDF	2,5	2,5	3,6	4,5	6,2	8,5	11,0

The specified torques apply to manually operated valves and are reference values. They were determined at the specified nominal pressures with H₂O, 20°C. These values can be higher or lower, depending on the operating pressure.

Operating note

Safe operation of the valve can only be ensured if it is properly installed, operated, serviced or repaired by qualified personnel according to its intended use while observing the accident prevention regulations, safety regulations, relevant standards, directives/technical regulations or codes of practice such as e.g. DIN, DIN EN, DIN ISO and DVS*. *DVS = German Welding Society
 The intended use includes adhering to specified limit values for pressure and temperature, as well as checking the resistance. This requires all components coming into contact with the medium to be "resistant" in accordance with the ASV resistance guide.

Ball valve C 100, manual



body PVC-U		ball PVC-U							
size	d(mm)	16	20	25	32	40	50	63	
pressure range	DN(mm)	10	15	20	25	32	40	50	
	DN(inch)	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
	PN(bar)	16	16	16	16	16	16	16	
Connection	Ball seat	sealing	ident No.						
PVC-U socket end DIN ISO	PTFE	EPDM	118627	118628	118629	118630	118631	118632	118633
	PTFE	FPM	118655	118656	118657	118658	118659	118660	118661
	weight		0.16 kg	0.16 kg	0.28 kg	0.40 kg	0.42 kg	1.00 kg	1.70 kg
GFR flange DIN EN 1092	PTFE	EPDM		122211	122212	122213	122214	122215	122216
	PTFE	FPM		122219	122220	122221	122222	122223	122224
	weight			0.42 kg	0.60 kg	0.63 kg	0.79 kg	1.05 kg	1.15 kg

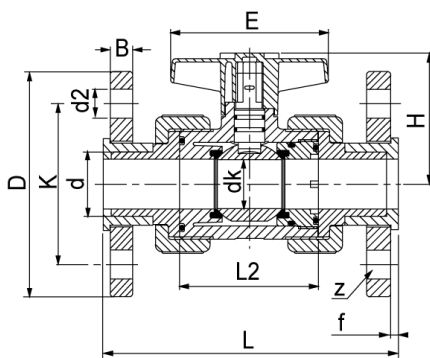
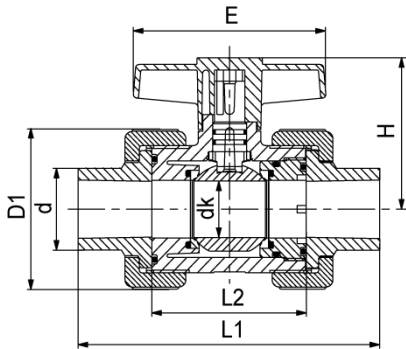
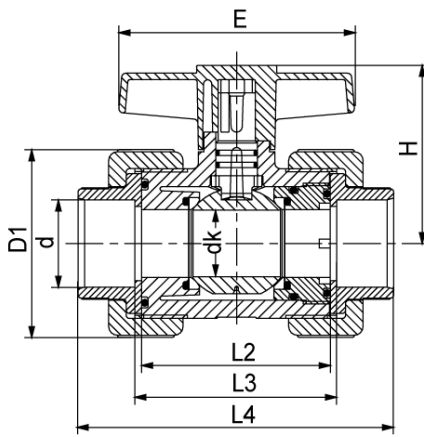
body PP		ball PP							
size	d(mm)	16	20	25	32	40	50	63	
pressure range	DN(mm)	10	15	20	25	32	40	50	
	DN(inch)	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
	PN(bar)	10	10	10	10	10	10	10	
Connection	Ball seat	sealing	ident No.						
PP socket end DIN ISO	PTFE	EPDM	118635	118636	118637	118638	118639	118640	118641
	PTFE	FPM	118663	118664	118665	118666	118667	118668	118669
	weight		0.13 kg	0.13 kg	0.25 kg	0.35 kg	0.57 kg	0.74 kg	0.65 kg
PP spigot end DIN ISO	PTFE	EPDM		122275	122276	122277	122278	122279	122280
	PTFE	FPM		122283	122284	122285	122286	122287	122288
	weight			0.13 kg	0.22 kg	0.32 kg	0.60 kg	0.81 kg	1.28 kg
GFR flange DIN EN 1092	PTFE	EPDM		122227	122228	122229	122230	122231	122232
	PTFE	FPM		122235	122236	122237	122238	122239	122240
	weight			0.30 kg	0.50 kg	0.73 kg	1.20 kg	0.94 kg	2.30 kg

Ball valve C 100, manual



body PVDF		ball PVDF							
<i>size</i>	d(mm)	16	20	25	32	40	50	63	
<i>pressure range</i>	DN(mm)	10	15	20	25	32	40	50	
	DN(inch)	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
	PN(bar)	16	16	16	16	16	16	16	
<i>Connection</i>	<i>Ball seat</i>	<i>sealing</i>	<i>ident No.</i>						
PVDF socket end DIN ISO	PTFE	FPM	118671	118672	118673	118674	118675	118676	118677
	<i>weight</i>		0.21 kg	0.23 kg	0.32 kg	0.48 kg	0.90 kg	1.31 kg	2.06 kg
PP / steel flange DIN EN 1092	PTFE	FPM		122251	122252	122253	122254	122255	122256
	<i>weight</i>			0.76 kg	1.00 kg	1.50 kg	1.83 kg	3.00 kg	4.20 kg

Ball valve C 100, manual



dimensions

d(mm)	16	20	25	32	40	50	63
DN(mm)	10	15	20	25	32	40	50
DN(inch)	3/8	1/2	3/4	1	1 1/4	1 1/2	2

dimensions(mm)

PP/PVC-U	B	-	12	14	15	17	17	18
PVDF	B	-	13	14.5	15.5	17.5	17.5	19
	d2	-	14	14	14	18	18	18
	dk	13.5	13.5	18	23.5	30.5	38.5	49
PP	D	-	94	103	115	138	148	163
PVC-U	D	-	95	105	115	140	150	165
PVDF	D	-	93	103	105	137	147	162
	D1	49	49	59	69	86	101	123
	E	68	68	78	88	98	108	118
	f	-	6	7	7	8	8	9
	H	51	51	61	70	81	90	110
	K	-	65	75	85	100	110	125
	L	-	150	170	180	210	230	278
	L1	-	169	182	186	216	223	243
	L2	59	59	72	76	86	93	113
PP	L3	71	68	84	90	103	114	140
PVC-U	L3	65	65	78	82	92	99	119
PVDF	L3	70	67	83	89	102	112	138
PP	L4	97	97	116	126	144	160	195
PVC-U	L4	97	97	116	126	144	161	197
PVDF	L4	96	96	115	125	143	159	194

Ball valve C 100, electric



Voltage

- please refer to the technical data
- further drive variants and options on request

Mounting Set

- PA, glass fibre reinforced

Coupling

- PA, glass fibre reinforced

Bracket

- PA, glass fibre reinforced

Screws

- stainless steel (1.4301)

Actuator variant 230 V		body PVC-U			ball PVC-U				
<i>size</i> <i>pressure range</i>	d(mm)		16	20	25	32	40	50	63
	DN(mm)		10	15	20	25	32	40	50
	DN(inch)		3/8	1/2	3/4	1	1 1/4	1 1/2	2
	PN(bar)		16	16	16	16	16	16	16
<i>Connection</i>	<i>Ball seat</i>	<i>sealing</i>	<i>ident No.</i>						
PVC-U socket end DIN ISO	PTFE	EPDM	1186279030	1186289030	1186299030	1186309030	1186319030	1186329030	1186339030
	PTFE	FPM	1186559030	1186569030	1186579030	1186589030	1186599030	1186609030	1186619030
	<i>weight</i>		1.86 kg	1.86 kg	1.97 kg	2.08 kg	2.38 kg	2.68 kg	3.40 kg
GFR flange DIN EN 1092	PTFE	EPDM		1222119030	1222129030	1222139030	1222149030	1222159030	1222169030
	PTFE	FPM		1222199030	1222209030	1222219030	1222229030	1222239030	1222249030
	<i>weight</i>			2.11 kg	2.32 kg	2.53 kg	3.13 kg	3.58 kg	4.58 kg

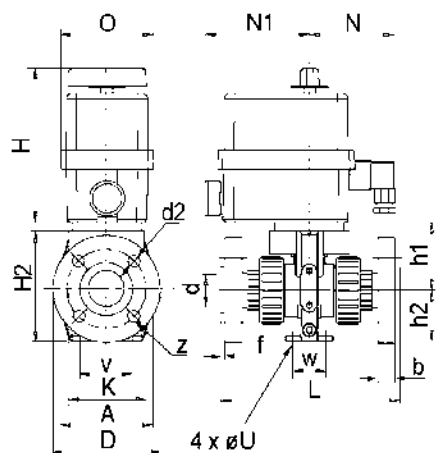
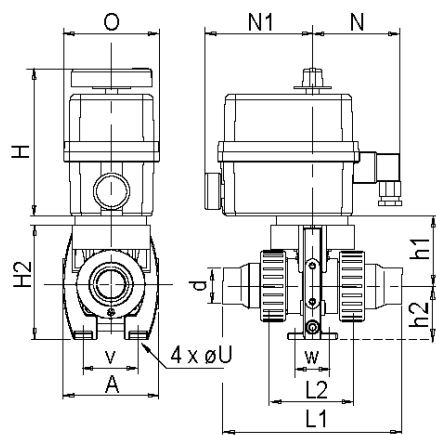
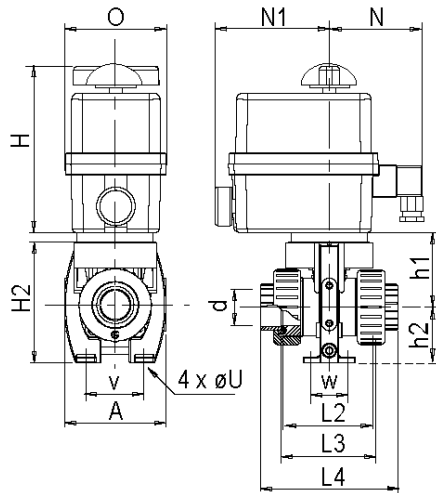
Actuator variant 230 V		body PP			ball PP				
<i>size</i> <i>pressure range</i>	d(mm)		16	20	25	32	40	50	63
	DN(mm)		10	15	20	25	32	40	50
	DN(inch)		3/8	1/2	3/4	1	1 1/4	1 1/2	2
	PN(bar)		10	10	10	10	10	10	10
<i>Connection</i>	<i>Ball seat</i>	<i>sealing</i>	<i>ident No.</i>						
PP socket end DIN ISO	PTFE	EPDM	1186359030	1186369030	1186379030	1186389030	1186399030	1186409030	1186419030
	PTFE	FPM	1186639030	1186649030	1186659030	1186669030	1186679030	1186689030	1186699030
	<i>weight</i>		1.83 kg	1.83 kg	1.90 kg	1.72 kg	2.17 kg	2.44 kg	2.92 kg
PP spigot end DIN ISO	PTFE	EPDM		1222759030	1222769030	1222779030	1222789030	1222799030	1222809030
	PTFE	FPM		1222839030	1222849030	1222859030	1222869030	1222879030	1222889030
	<i>weight</i>			1.83 kg	1.92 kg	2.00 kg	2.23 kg	2.47 kg	2.91 kg
GFR flange DIN EN 1092	PTFE	EPDM		1222279030	1222289030	1222299030	1222309030	1222319030	1222329030
	PTFE	FPM		1222359030	1222369030	1222379030	1222389030	1222399030	1222409030
	<i>weight</i>			2.08 kg	2.25 kg	2.44 kg	2.92 kg	3.34 kg	4.07 kg

Ball valve C 100, electric



Actuator variant 230 V		body PVDF		ball PVDF						
size pressure range	d(mm)		16	20	25	32	40	50	63	
	DN(mm)		10	15	20	25	32	40	50	
	DN(inch)		3/8	1/2	3/4	1	1 1/4	1 1/2	2	
	PN(bar)		16	16	16	16	16	16	16	
Connection	Ball seat	sealing	ident No.							
	PVDF socket end DIN ISO	PTFE	FPM	1186719030	1186729030	1186739030	1186749030	1186759030	1186769030	1186779030
	weight			1.91 kg	1.91 kg	2.05 kg	2.20 kg	2.59 kg	2.97 kg	3.74 kg
PP / steel flange DIN EN 1092	PTFE	FPM		1222519030	1222529030	1222539030	1222549030	1222559030	1222569030	
	weight			2.16 kg	2.40 kg	2.65 kg	3.34 kg	3.87 kg	5.09 kg	

Ball valve C 100, electric



dimensions

d(mm)	16	20	25	32	40	50	63
DN(mm)	10	15	20	25	32	40	50
DN(inch)	3/8	1/2	3/4	1	1 1/4	1 1/2	2
V(mm)	44	44	47	58	51	90	88
actuator type	ER	ER	ER	ER	ER	ER	ER
	Premier	Premier	Premier	Premier	Premier	Premier	Premier
	20	20	20	20	20	20	20

dimensions(mm)

PP	A	78	78	82	104	102	130	134
PVC-U	b	-	12	12	15	17	17	18
PVDF	b	-	12	14	15	17	17	18
	d2	-	14	14	14	18	18	18
PP/PVC-U	D	-	95	105	115	140	150	165
PVDF	D	-	95	106	116	141	151	166
	h1	50	50	60	66	74	95.5	104
	h2	47	47	45	62	54	94.5	88
	H	152	152	152	152	152	152	152
	H2	97	97	97	120	120	163	163
	K	-	65	75	85	100	110	125
	L	-	150	170	180	210	230	278
	L1	-	169	182	186	216	223	243
	L2	59	59	72	76	86	93	113
PP	L3	71	68	84	90	103	114	140
PVC-U	L3	65	65	78	82	92	99	119
PVDF	L3	70	67	83	89	102	112	138
PP	L4	97	97	116	126	144	160	195
PVC-U	L4	97	97	116	126	144	161	197
PVDF	L4	96	96	115	125	143	159	194
	N	87	87	87	87	87	87	87
	N1	105	105	105	105	105	105	105
	O	92	92	92	92	92	92	92
	u	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	V	44	44	47	58	51	90	88
	w	30	30	30	30	30	30	30
	z	-	4	4	4	4	4	4

Ball valve C 100, electric

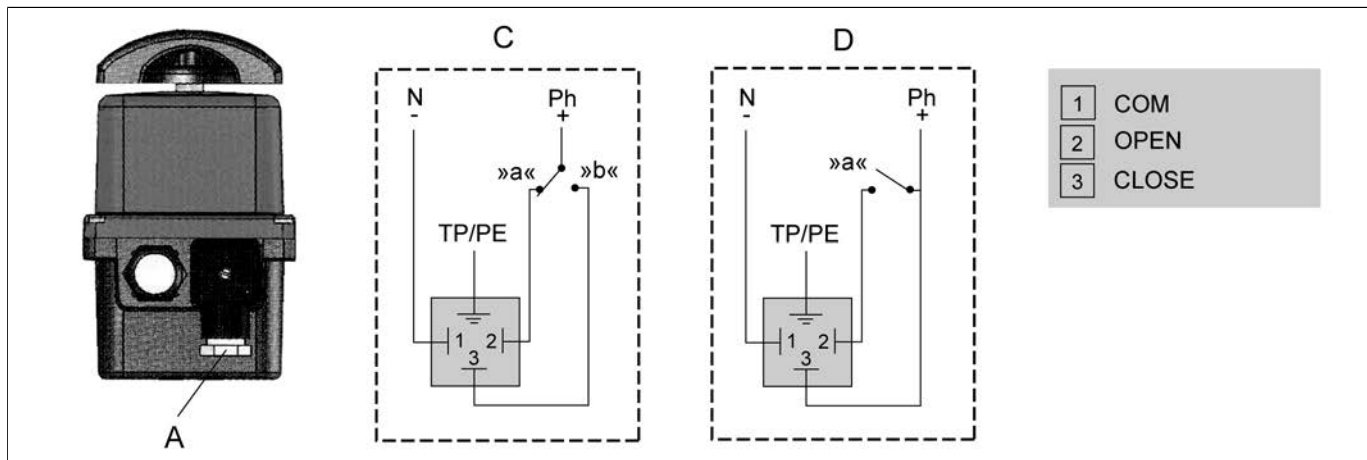
Technical data

actuator type	ER Premier 20	ER Premier 20 (*)
Torque	20	20
Voltage	100-240 VAC - 100-350 VDC	24 VAC/DC
Manipulating time(s)	10	10
Power consumption(W)	15	15
Setting angle(°)	90	90
Weight(kg)	1	1
Duty cycle(%)	30	30
Type of protection	IP 65	IP 65
Temperature(°C)	-10 ... 55	-10 ... 55

(*) Drive variants: please order separately.

Power supply

ER Premier



A = power supply

C = 3-switch-point-modus

D = open/closed-switch-point-modus

»a« = valve open

»b« = valve closed

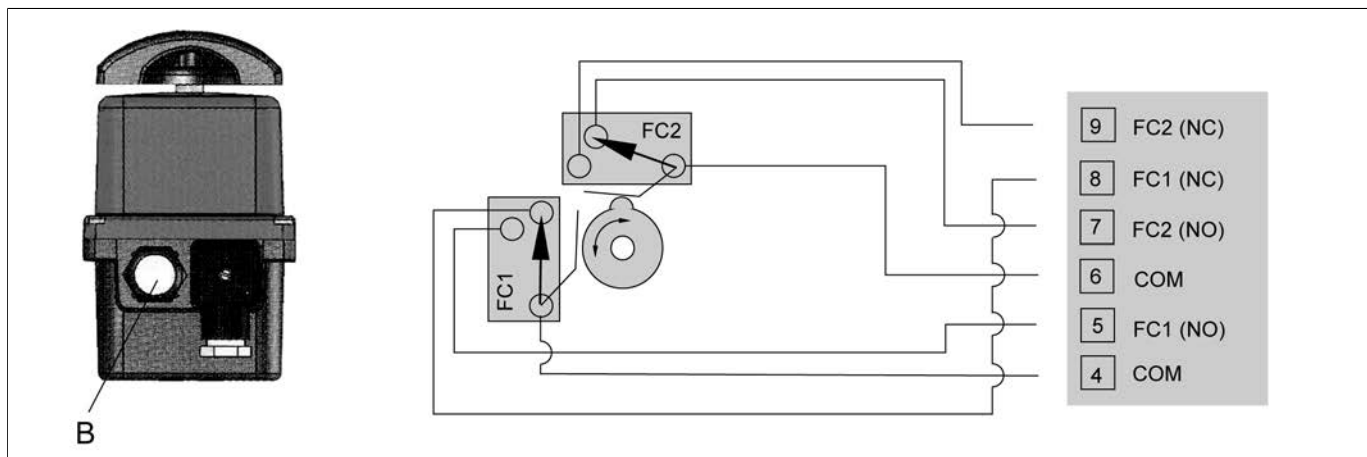
1 = COM

2 = valve »OPEN«

3 = valve »CLOSED«

Feedback

ER Premier



B = Feedback

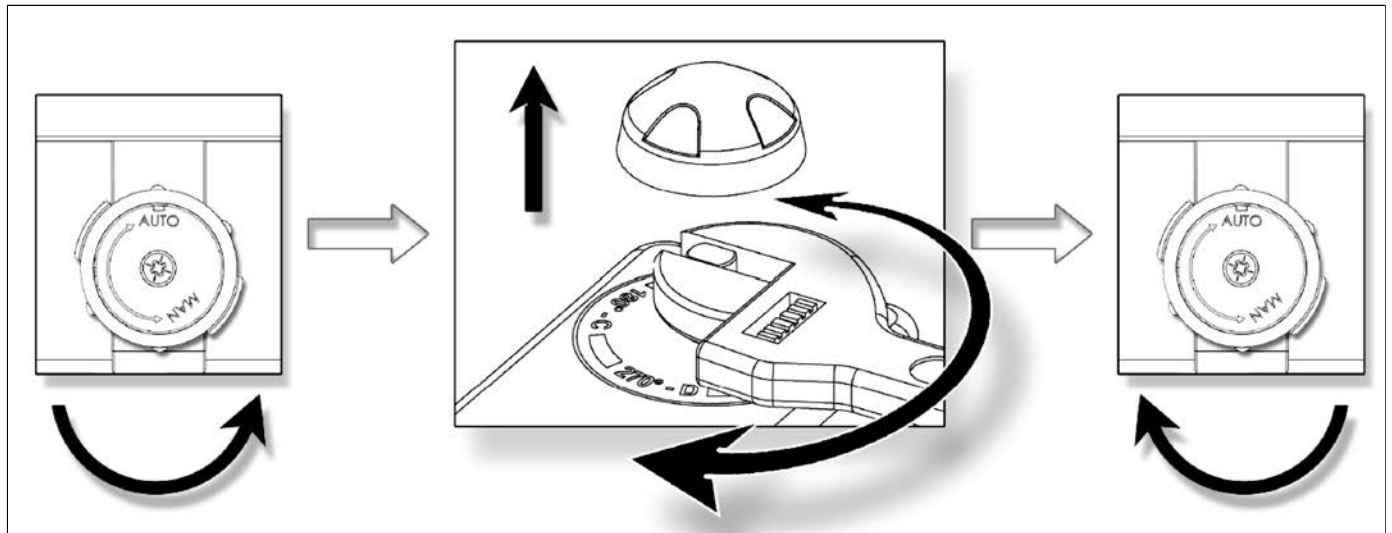
FC1 = limit switches valve »OPEN«

FC2 = limit switche valve »CLOSED«

Ball valve C 100, electric

Manual emergency control

ER Premier



The valve can be manually operated in the event of an interruption of the power supply. To allow manual emergency control, turn the coupling switch from "AUTO" to "MAN" and hold in the "MAN" position. Turn the actuator shaft with the aid of an adjustable spanner. Release the coupling switch to re-engage the gearing.

Ball valve C 100, pneumatic



Control Pressure

- 6 bar

Control Function

- NC (normally closed)
- NO (normally open)
- DA (double acting)

Coupling

- PA, glass fibre reinforced

Mounting Set

- PA, glass fibre reinforced

Bracket

- PA, glass fibre reinforced

Screws

- stainless steel (1.4301)

Standard

- visual position indicator
- further options such as limit switch unit, positioner or pilot valves on request

Actuator variant NC		body PVC-U			ball PVC-U				
size pressure range	d(mm)			20	25	32	40	50	63
	DN(mm)			15	20	25	32	40	50
	DN(inch)			1/2	3/4	1	1 1/4	1 1/2	2
	PN(bar)			16	16	16	16	16	16
Connection	Ball seat	sealing	ident No.						
	GFR flange DIN EN 1092	PTFE PTFE weight	EPDM FPM	1222119560 1222199560 1.38 kg	1222129560 1222209560 2.15 kg	1222139560 1222219560 2.36 kg	1222149560 1222229560 2.96 kg	1222159560 1222239560 4.53 kg	1222169560 1222249560 5.53 kg

Actuator variant NO		body PVC-U			ball PVC-U				
size pressure range	d(mm)		16	20	25	32	40	50	63
	DN(mm)		10	15	20	25	32	40	50
	DN(inch)		3/8	1/2	3/4	1	1 1/4	1 1/2	2
	PN(bar)		16	16	16	16	16	16	16
Connection	Ball seat	sealing	ident No.						
	PVC-U socket end DIN ISO	PTFE PTFE weight	EPDM FPM	1186279570 1186559570 1.13 kg	1186289570 1186569570 1.13 kg	1186299570 1186579570 1.80 kg	1186309570 1186589570 1.91 kg	1186319570 1186599570 2.21 kg	1186329570 1186609570 3.63 kg
GFR flange DIN EN 1092	PTFE	EPDM	1222119570	1222129570	1222139570	1222149570	1222159570	1222169570	
	PTFE	FPM	1222199570	1222209570	1222219570	1222229570	1222239570	1222249570	
weight			1.38 kg	2.15 kg	2.36 kg	2.96 kg	4.53 kg	5.53 kg	

Ball valve C 100, pneumatic



Actuator variant DA		body PVC-U			ball PVC-U					
<i>size</i>	d(mm)		16	20	25	32	40	50	63	
	<i>pressure range</i>	DN(mm)		10	15	20	25	32	40	50
		DN(inch)		3/8	1/2	3/4	1	1 1/4	1 1/2	2
		PN(bar)		16	16	16	16	16	16	16
<i>Connection</i>	<i>Ball seat</i>	<i>sealing</i>	<i>ident No.</i>							
	PVC-U socket end DIN ISO	PTFE PTFE	EPDM FPM	1186279580 1186559580	1186289580 1186569580	1186299580 1186579580	1186309580 1186589580	1186319580 1186599580	1186329580 1186609580	1186339580 1186619580
	<i>weight</i>		0.99 kg	0.99 kg	1.10 kg	1.21 kg	1.94 kg	2.89 kg	3.59 kg	
GFR flange DIN EN 1092	PTFE	EPDM		1222119580	1222129580	1222139580	1222149580	1222159580	1222169580	
	PTFE	FPM		1222199580	1222209580	1222219580	1222229580	1222239580	1222249580	
	<i>weight</i>			1.24 kg	1.45 kg	1.66 kg	2.69 kg	3.79 kg	4.79 kg	

Actuator variant NC		body PP			ball PP					
<i>size</i>	d(mm)		16	20	25	32	40	50	63	
	<i>pressure range</i>	DN(mm)		10	15	20	25	32	40	50
		DN(inch)		3/8	1/2	3/4	1	1 1/4	1 1/2	2
		PN(bar)		10	10	10	10	10	10	10
<i>Connection</i>	<i>Ball seat</i>	<i>sealing</i>	<i>ident No.</i>							
	PP socket end DIN ISO	PTFE PTFE	EPDM FPM	1186359560 1186639560	1186369560 1186649560	1186379560 1186659560	1186389560 1186669560	1186399560 1186679560	1186409560 1186689560	1186419560 1186699560
	<i>weight</i>		1.10 kg	1.10 kg	1.73 kg	1.82 kg	2.00 kg	3.39 kg	3.82 kg	
PP spigot end DIN ISO	PTFE	EPDM		1222759560	1222769560	1222779560	1222789560	1222799560	1222809560	
	PTFE	FPM		1222839560	1222849560	1222859560	1222869560	1222879560	1222889560	
	<i>weight</i>			1.10 kg	1.75 kg	1.83 kg	2.06 kg	3.42 kg	3.86 kg	
GFR flange DIN EN 1092	PTFE	EPDM		1222279560	1222289560	1222299560	1222309560	1222319560	1222329560	
	PTFE	FPM		1222359560	1222369560	1222379560	1222389560	1222399560	1222409560	
	<i>weight</i>			1.35 kg	2.08 kg	2.27 kg	2.75 kg	4.29 kg	5.02 kg	

Ball valve C 100, pneumatic



Actuator variant NO		body PP		ball PP					
size pressure range	d(mm)		16	20	25	32	40	50	63
	DN(mm)		10	15	20	25	32	40	50
	DN(inch)		3/8	1/2	3/4	1	1 1/4	1 1/2	2
	PN(bar)		10	10	10	10	10	10	10
Connection	Ball seat	sealing	ident No.						
PP socket end DIN ISO	PTFE	EPDM	1186359570	1186369570	1186379570	1186389570	1186399570	1186409570	1186419570
	PTFE	FPM	1186639570	1186649570	1186659570	1186669570	1186679570	1186689570	1186699570
	weight		1.10 kg	1.10 kg	1.73 kg	1.82 kg	2.00 kg	3.39 kg	3.82 kg
PP spigot end DIN ISO	PTFE	EPDM		1222759570	1222769570	1222779570	1222789570	1222799570	1222809570
	PTFE	FPM		1222839570	1222849570	1222859570	1222869570	1222879570	1222889570
	weight			1.10 kg	1.75 kg	1.83 kg	2.06 kg	3.42 kg	3.86 kg
GFR flange DIN EN 1092	PTFE	EPDM		1222279570	1222289570	1222299570	1222309570	1222319570	1222329570
	PTFE	FPM		1222359570	1222369570	1222379570	1222389570	1222399570	1222409570
	weight			1.35 kg	2.08 kg	2.27 kg	2.75 kg	4.29 kg	5.02 kg

Actuator variant DA		body PP		ball PP					
size pressure range	d(mm)		16	20	25	32	40	50	63
	DN(mm)		10	15	20	25	32	40	50
	DN(inch)		3/8	1/2	3/4	1	1 1/4	1 1/2	2
	PN(bar)		10	10	10	10	10	10	10
Connection	Ball seat	sealing	ident No.						
PP socket end DIN ISO	PTFE	EPDM	1186359580	1186369580	1186379580	1186389580	1186399580	1186409580	1186419580
	PTFE	FPM	1186639580	1186649580	1186659580	1186669580	1186679580	1186689580	1186699580
	weight		0.96 kg	0.96 kg	1.03 kg	1.12 kg	1.73 kg	2.65 kg	3.08 kg
PP spigot end DIN ISO	PTFE	EPDM		1222759580	1222769580	1222779580	1222789580	1222799580	1222809580
	PTFE	FPM		1222839580	1222849580	1222859580	1222869580	1222879580	1222889580
	weight			0.96 kg	1.05 kg	1.13 kg	1.79 kg	2.68 kg	3.12 kg
GFR flange DIN EN 1092	PTFE	EPDM		1222279580	1222289580	1222299580	1222309580	1222319580	1222329580
	PTFE	FPM		1222359580	1222369580	1222379580	1222389580	1222399580	1222409580
	weight			1.21 kg	1.38 kg	1.57 kg	2.48 kg	3.55 kg	4.28 kg

Ball valve C 100, pneumatic



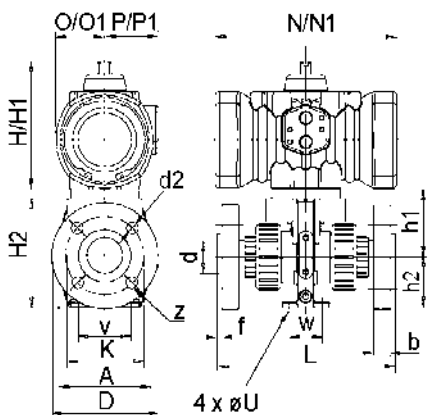
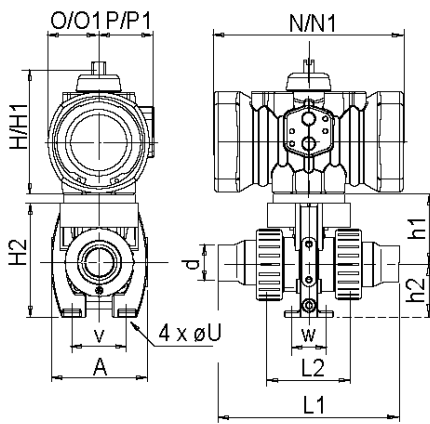
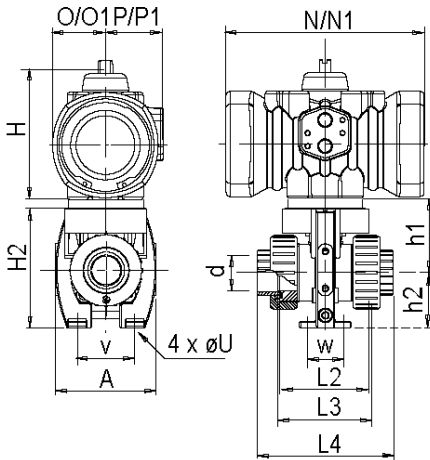
Actuator variant NC		body PVDF				ball PVDF			
size pressure range	d(mm)	16	20	25	32	40	50	63	
	DN(mm)	10	15	20	25	32	40	50	
	DN(inch)	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
	PN(bar)	16	16	16	16	16	16	16	
Connection	Ball seat	sealing	ident No.						
PVDF socket end DIN ISO	PTFE	FPM	1186719560	1186729560	1186739560	1186749560	1186759560	1186769560	1186779560
	weight		1.18 kg	1.18 kg	1.88 kg	2.03 kg	2.42 kg	3.92 kg	4.84 kg
PP / steel flange DIN EN 1092	PTFE	FPM		1222519560	1222529560	1222539560	1222549560	1222559560	1222569560
	weight			1.43 kg	2.23 kg	2.84 kg	3.17 kg	4.82 kg	6.04 kg

Actuator variant NO		body PVDF				ball PVDF			
size pressure range	d(mm)	16	20	25	32	40	50	63	
	DN(mm)	10	15	20	25	32	40	50	
	DN(inch)	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
	PN(bar)	16	16	16	16	16	16	16	
Connection	Ball seat	sealing	ident No.						
PVDF socket end DIN ISO	PTFE	FPM	1186719570	1186729570	1186739570	1186749570	1186759570	1186769570	1186779570
	weight		1.18 kg	1.18 kg	1.88 kg	2.03 kg	2.42 kg	3.92 kg	4.84 kg
PP / steel flange DIN EN 1092	PTFE	FPM		1222519570	1222529570	1222539570	1222549570	1222559570	1222569570
	weight			1.43 kg	2.23 kg	2.48 kg	3.17 kg	4.82 kg	6.04 kg

Actuator variant DA		body PVDF				ball PVDF			
size pressure range	d(mm)	16	20	25	32	40	50	63	
	DN(mm)	10	15	20	25	32	40	50	
	DN(inch)	3/8	1/2	3/4	1	1 1/4	1 1/2	2	
	PN(bar)	16	16	16	16	16	16	16	
Connection	Ball seat	sealing	ident No.						
PVDF socket end DIN ISO	PTFE	FPM	1186719580	1186729580	1186739580	1186749580	1186759580	1186769580	1186779580
	weight		1.04 kg	1.04 kg	1.18 kg	1.33 kg	2.15 kg	3.18 kg	4.10 kg
PP / steel flange DIN EN 1092	PTFE	FPM		1222519580	1222529580	1222539580	1222549580	1222559580	1222569580
	weight			1.29 kg	1.53 kg	1.78 kg	2.90 kg	4.08 kg	5.30 kg

Ball valve C 100, pneumatic

dimensions



d(mm)	16	20	25	32	40	50	63
DN(mm)	10	15	20	25	32	40	50
DN(inch)	3/8	1/2	3/4	1	1 1/4	1 1/2	2
V(mm)	44	44	47	58	51	90	88
actuator type	PPW DA PPWS NC/NO	PPW DA PPWS NC/NO	PPW DA PPWS NC/NO	PPW DA PPWS NC/NO	PPoo DA PPooS NC/NO	PP10 DA PP10S NC/NO	PP10 DA PP10S NC/NO

dimensions(mm)

PP/PVC-U	A	78	78	82	104	102	130	134
PVDF	b	-	12	14	15	17	17	18
PP/PVC-U	b	-	13	14.5	15.5	17.5	17.5	19
PVDF	D	-	95	105	115	140	150	165
	D	-	95	106	116	141	151	166
	h1	50	50	60	66	74	95.5	104
	h2	47	47	45	62	54	94.5	88
	H	85	85	110	110	110	128	128
	H1	85	85	85	85	110	128	128
	H2	97	97	97	120	120	163	163
	K	-	65	75	85	100	110	125
	L	-	150	170	180	210	230	278
	L1	-	169	182	186	216	223	243
	L2	59	59	72	76	86	93	113
PP	L3	71	68	84	90	103	114	140
PVC-U	L3	65	65	78	82	92	99	119
PVDF	L3	70	67	83	89	102	112	138
PP	L4	97	97	116	126	144	160	195
PVC-U	L4	97	97	116	126	144	161	197
PVDF	L4	96	96	115	125	143	159	194
	N	142	142	155	155	155	230	230
	N1	107	107	107	107	125	182	182
	O	31	31	36	36	49	49	49
	O1	31	31	31	31	36	53	53
	P	37.5	37.5	44	44	44	53	53
	P1	37.5	37.5	37.5	37.5	44	44	44
	u	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	V	44	44	47	58	51	90	88
	w	30	30	30	30	30	30	30
	z	-	4	4	4	4	4	4

Ball valve C 100, pneumatic

Technical data

PP-Line

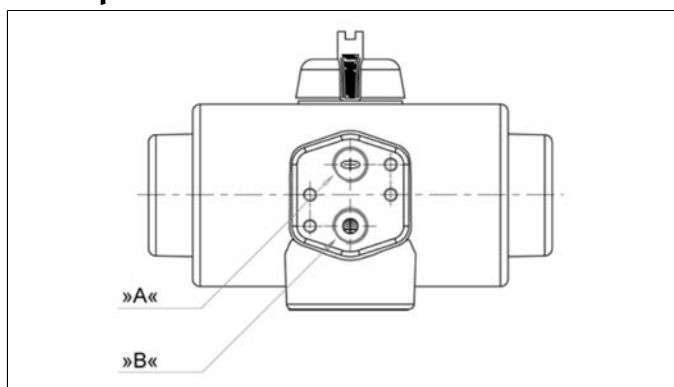
Option (to be ordered additionally if required)

limit switch unit; positioner; handwheel; pilot solenoid valve; AS Interface connection

actuator type	PPWS	PPooS	PP1oS
Function	NC/NO	NC/NO	NC/NO
Torque (start) at 6 bar(Nm)	10.4	15.9	46.6
Torque (end) at 6 bar(Nm)	6.5	11.3	32.3
Control volume (Opening)(Liter)	0.08	0.15	0.35
Manipulating time (Opening)(s)	0.15	0.2	0.3
Manipulating time (Closing)(s)	0.15	0.2	0.3
Control pressure connection(inch)	1/4	1/4	1/4
Weight(kg)	0.47	1.03	2.15

actuator type	PPW	PPoo	PP1o
Function	DA	DA	DA
Torque (start) at 6 bar(Nm)	17	25	71
Control volume (Opening)(Liter)	0.08	0.15	0.35
Control volume (Closing)(Liter)	0.05	0.1	0.32
Manipulating time (Opening)(s)	0.1	0.15	0.25
Manipulating time (Closing)(s)	0.1	0.15	0.25
Control pressure connection(inch)	1/4	1/4	1/4
Weight(kg)	0.33	0.76	1.41

Control pressure connection



Normally closed NC: control pressure to connection »B«, valve opens

Normally open NO: control pressure to connection »B«, valve closes

Double acting DA: control pressure to connection »A«, valve closes control pressure to connection »B«, valve opens

Control:

3/2-way solenoid valves for NC/NO actuators

5/2-way solenoid valves for DA actuators

Note:

The drives require a control pressure of 6 bar for optimum function. Malfunctions may occur, if the control pressure deviates. In this case, a new drive configuration is necessary.

Ball valve C 100, pneumatic