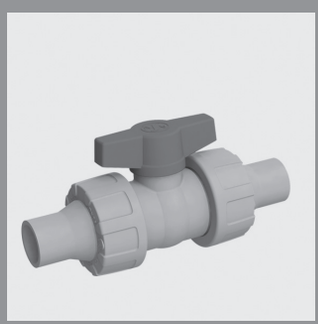
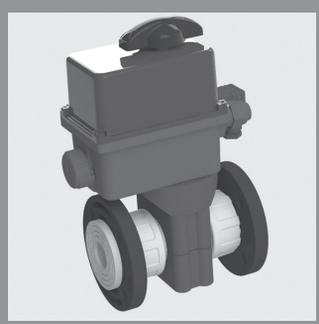
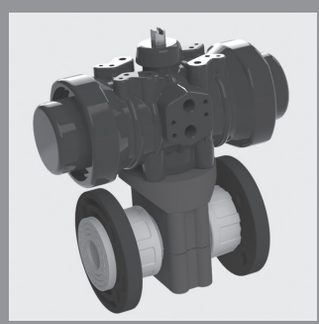
Ball valve C 10

valve ball completely moulded in place , extremely low clearance volume, high k_V value

Advantage
- maximum safety due to valve ball completely moulded in place - ball and ball seat cannot be flushed out
- high operating reliability - high torque transmission due to generously dimensioned stem
- extremely low clearance volume - the body encloses the ball due to the special die casting method
- optimised kv value - for all sizes, the internal ball diameter is constructively adapted to the internal pipe diameter
- one-piece body

Application
- chemical plants
- industrial plants
- water treatment
- electroplating plants

Utilisation
- 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 and 8063. DIN EN 12266, leakage rate A tested.

Nominal Pressure (H_2O, 20°C)
- PN 10

Fluid Temperature
- see pressure/temperature diagram

Operating Pressure
- see pressure/temperature diagram

Size
- DN 15 - DN 50

Body
- PVC-U
- PP

Ball
- PE

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 DIN 8063
- GFR flange DIN 2501, PN 10/16, with DIN face-to-face dimension
- union socket end for solvent welding DIN ISO (PVC-U)
- union socket end for fusion welding DIN ISO (PP)
- union spigot end for fusion welding DIN ISO (PP)

Mounting
- as required

Fastening
- optionally available with bracket

Accessories
- limit switch unit
- bracket

Colour
- body: PVC-U, grey, RAL 7011
- body: PP, grey, RAL 7032
- T-handle: PVC-U, orange, RAL 2004
- GFR Flanges: black, RAL 9011

Stem
- PVC-U
- PVC-C
- PE
- POM

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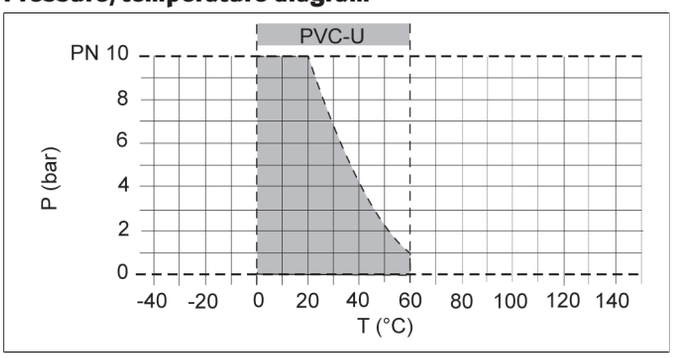
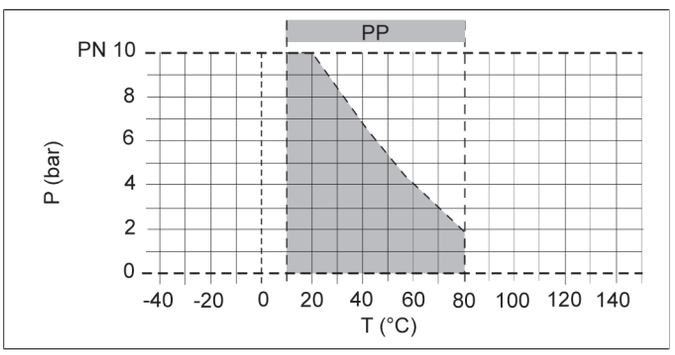
Ball valve C 10

Pressure/temperature diagram

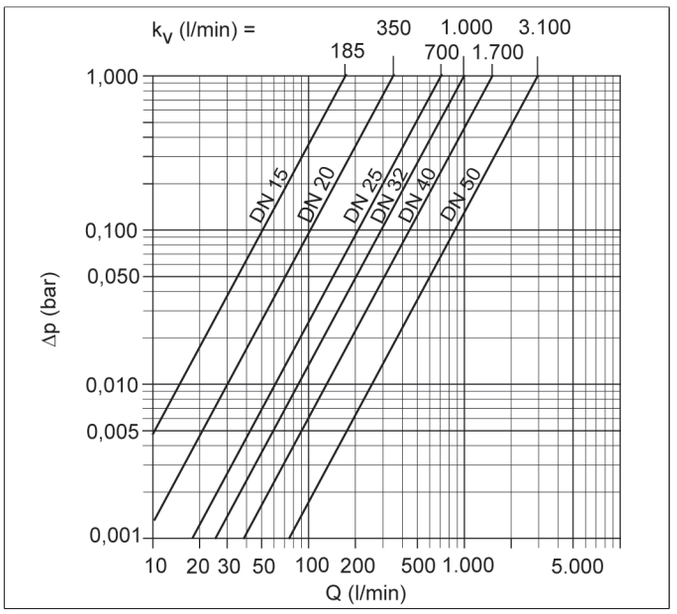




P = operating pressure
T = temperature

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 H_2O, 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.

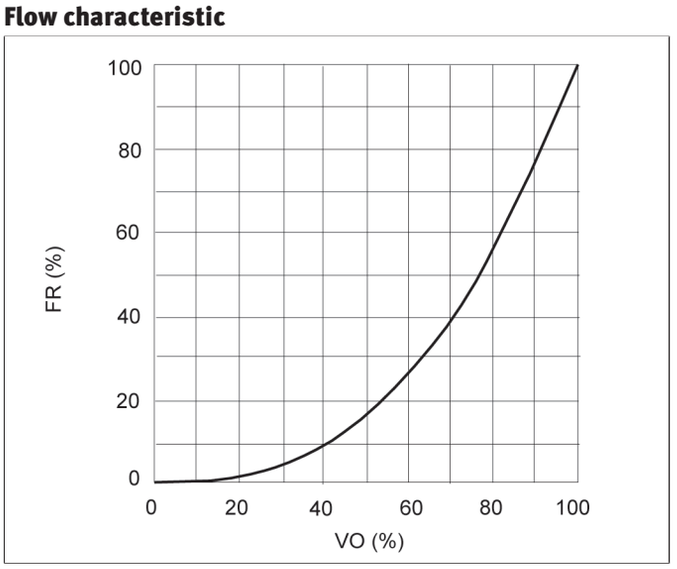
Conversion aid:

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

Units:

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

Flow characteristic



VO = valve opening
FR = $K_v$value

Torque (Nm)

d (mm)	16	20	25	32	40	50	63
PVC-U	-	4	5	6	8	10	16
PP	-	4	5	6	8	10	16

The specified torques are standard values. They were determined at the specified nominal pressures with H_2O, 20°C. These values can be higher or lower, depending on the operating pressure and the medium.

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Ball valve C 10

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.

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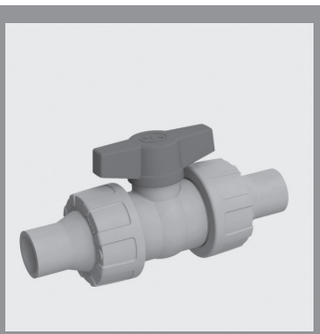
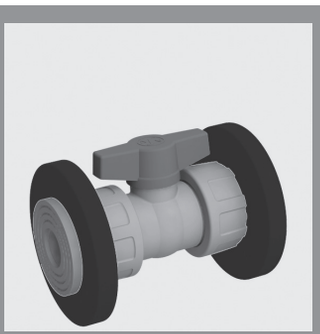
Ball valve C 10, manual

body PVC-U	ball PE									
size	d(mm)			20	25	32	40	50	63
pressure range	DN(mm)			15	20	25	32	40	50
	DN(inch)			1/2	3/4	1	1 1/4	1 1/2	2
	PN(bar)			10	10	10	10	10	10
Connection	*ball seat*	*sealing*	*ident No.*						
PVC-U	PTFE	EPDM		60850	60851	60852	60853	60854	60855
socket end DIN ISO	PTFE	FPM		64680	64681	64682	64683	64684	64685
				0.13 kg	*0.24 kg*	*0.29 kg*	*0.55 kg*	*1.05 kg*	*0.61 kg*
GFR	PTFE	EPDM		44015	44016	44017	44018	44019	44020
flange DIN EN 1092	PTFE	FPM		44021	44022	44023	44024	44025	44026
				0.33 kg	*0.53 kg*	*0.68 kg*	*1.20 kg*	*1.40 kg*	*2.04 kg*

body PP	ball PE									
size	d(mm)			20	25	32	40	50	63
pressure range	DN(mm)			15	20	25	32	40	50
	DN(inch)			1/2	3/4	1	1 1/4	1 1/2	2
	PN(bar)			10	10	10	10	10	10
Connection	*ball seat*	*sealing*	*ident No.*						
PP	PTFE	EPDM		65357	65358	65359	65360	65361	65362
socket end DIN ISO	PTFE	FPM		64686	64687	64688	64689	64690	64691
				0.11 kg	*0.21 kg*	*0.27 kg*	*0.48 kg*	*0.53 kg*	*0.86 kg*
PP	PTFE	EPDM		122790	122791	122792	122793	122794	122795
spigot end DIN ISO	PTFE	FPM		122797	122798	122799	122800	122801	122802
				0.12 kg	*0.22 kg*	*0.28 kg*	*0.49 kg*	*0.54 kg*	*0.87 kg*
GFR	PTFE	EPDM		44027	44028	44029	44030	44031	44032
flange DIN EN 1092	PTFE	FPM		44033	44034	44035	44036	44037	44038
				0.32 kg	*0.53 kg*	*0.69 kg*	*1.19 kg*	*1.37 kg*	*1.90 kg*

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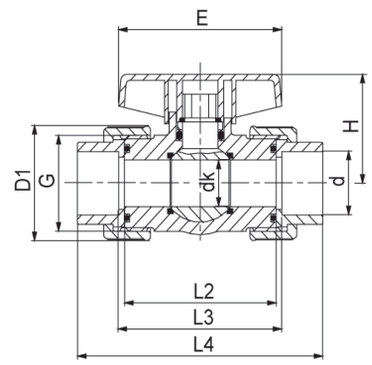
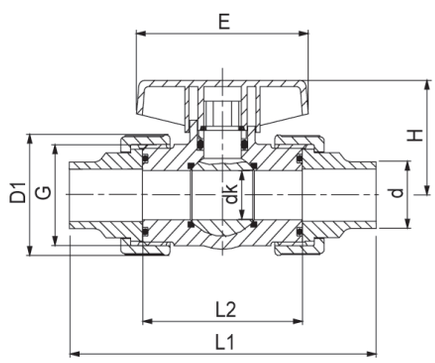
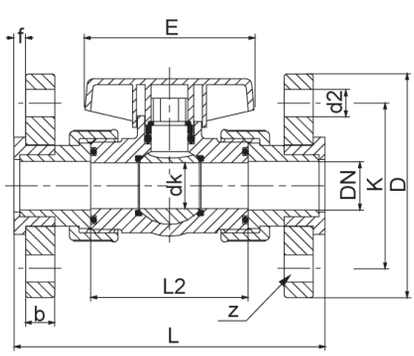
Ball valve C 10, manual







dimensions

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
dimensions(mm)							
	b	12	14	15	17	17	18
	d2	14	14	14	18	18	18
	dk	135	185	235	305	385	485
	D	95	105	115	140	150	165
PP	D1	46	56	66	79	87	107
PVC-U	D1	41	51	58	72	80	100
	E	60	85	85	120	120	145
	f	6	7	7	8	8	9
	G	1	1 1/4	1 1/2	2	2 1/4	2 3/4
	H	42	55	55	70	70	84
	K	65	75	85	100	110	125
	L	130	150	160	180	200	230
	L1	174	186	191	202	205	225
	L2	64	76	81	92	95	115
	L3	70	82	87	98	101	121
PP	L4	99	114	123	139	148	175
PVC-U	L4	102	120	131	150	163	197
	z	4	4	4	4	4	4

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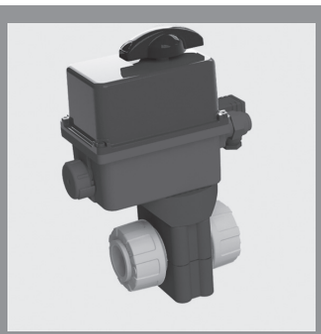
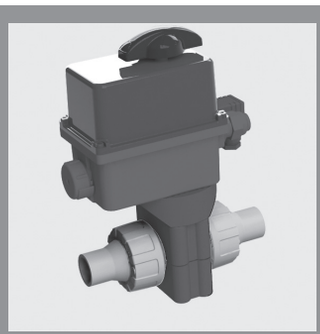
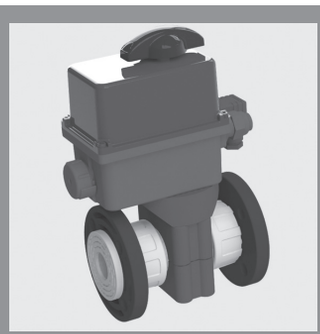
Ball valve C 10, electric

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

Mounting Set
- PVC-U

Coupling
- steel square, galvanised
- adaptor made of PA

Screws
- stainless steel (1.4301)

Actuator variant 230 V			body PVC-U	ball PE					
size	d(mm)			20	25	32	40	50	63
pressure range	DN(mm)			15	20	25	32	40	50
	DN(inch)			1/2	3/4	1	1 1/4	1 1/2	2
	PN(bar)			10	10	10	10	10	10
Connection	*ball seat*	*sealing*	*ident No.*						
PVC-U	PTFE	EPDM		440159030	440169030	440179030	440189030	440199030	440209030
flange DIN EN 1092	PTFE	FPM		440219030	440229030	440239030	440249030	440259030	440269030
				2.03 kg	*2.23 kg*	*2.38 kg*	*4.20 kg*	*4.40 kg*	*5.04 kg*
PVC-U	PTFE	EPDM		608509030	608519030	608529030	608539030	608549030	608559030
socket end DIN ISO	PTFE	FPM		646809030	646819030	646829030	646839030	646849030	646859030
				1.83 kg	*1.94 kg*	*1.99 kg*	*3.55 kg*	*3.61 kg*	*4.05 kg*

Actuator variant 230 V			body PP	ball PE					
size	d(mm)			20	25	32	40	50	63
pressure range	DN(mm)			15	20	25	32	40	50
	DN(inch)			1/2	3/4	1	1 1/4	1 1/2	2
	PN(bar)			10	10	10	10	10	10
Connection	*ball seat*	*sealing*	*ident No.*						
PP	PTFE	EPDM		440279030	440289030	440299030	440309030	440319030	440329030
flange DIN EN 1092	PTFE	FPM		440339030	440349030	440359030	440369030	440379030	440389030
				2.02 kg	*2.23 kg*	*2.39 kg*	*4.19 kg*	*4.37 kg*	*4.90 kg*
PP	PTFE	EPDM		653579030	653589030	653599030	653609030	653619030	653629030
socket end DIN ISO	PTFE	FPM		646869030	646879030	646889030	646899030	646909030	646919030
				1.81 kg	*1.91 kg*	*1.97 kg*	*3.48 kg*	*3.53 kg*	*3.86 kg*
PP	PTFE	EPDM		1227909030	1227919030	1227929030	1227939030	1227949030	1227959030
spigot end DIN ISO	PTFE	FPM		1227979030	1227989030	1227999030	1228009030	1228019030	1228029030
				1.82 kg	*1.92 kg*	*1.98 kg*	*3.49 kg*	*3.54 kg*	*3.87 kg*

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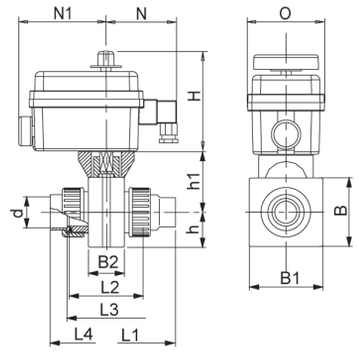
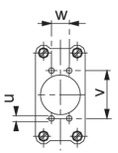
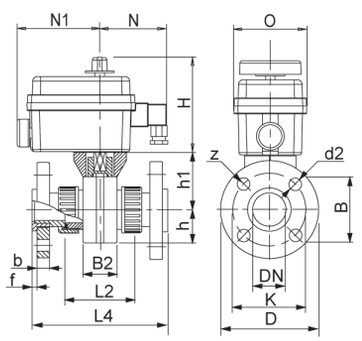
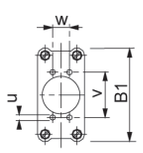
Ball valve C 10, electric









dimensions

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
actuator type		ER Premier 20	ER Premier 20	ER Premier 20	EK35	EK35	EK60
dimensions(mm)							
	b	12	14	15	17	17	18
	B	65	81	81	109	109	129
	B1	84	88	88	112	112	126
	B2	33	42	42	56	56	69
	d2	14	14	14	18	18	18
	D	95	105	115	140	150	165
	f	6	7	7	8	8	9
	h	32.5	40.5	40.5	54.5	54.5	64.5
	h1	63	71	71	90	90	100
	H	118	118	118	176	176	176
	K	65	75	85	100	110	125
	L	130	150	160	180	200	230
	L1	174	186	191	202	205	225
	L2	64	76	81	92	95	115
	L3	70	82	87	98	101	121
PP	L4	99	114	123	139	148	175
PVC-U	L4	102	120	131	150	163	197
	N	84	84	84	92.5	92.5	92.5
	N1	105	105	105	95.5	95.5	95.5
	O	92	92	92	188	189	190
	u	6.5	6.5	6.5	6.5	6.5	6.5
	v	38	48	48	54	54	60
	w	-	-	-	20	20	32
	z	4	4	4	4	4	4

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Ball valve C 10, electric

Technical data

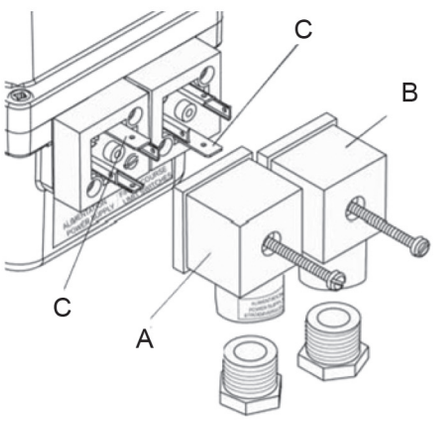
EK-Line

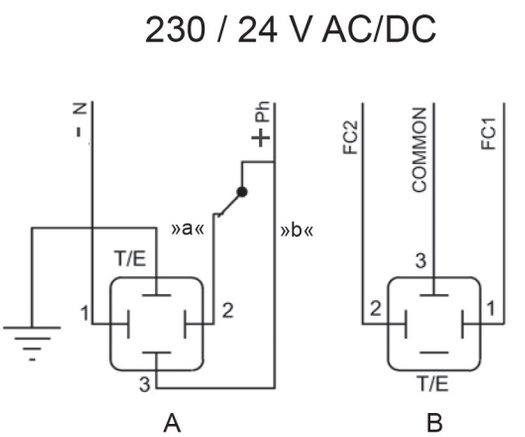
actuator type	EK35	EK60	EK35 (*)	EK60 (*)
Torque	35	60	35	60
Voltage	230 VAC	230 VAC	24 VAC/DC	24 VAC/DC
Manipulating time(s)	7	12	7	12
Power consumption(W)	26	26	26	26
Setting angle(°)	90	90	90	90
Weight(kg)	2.5	2.5	2.5	2.5
Duty cycle(%)	30	30	30	30
Type of protection	IP 65	IP 65	IP 65	IP 65
Temperature(°C)	-10 ... 55	-10 ... 55	-10 ... 55	-10 ... 55

(*) Drive variants: please order separately.

Recommended wiring

EK-Line

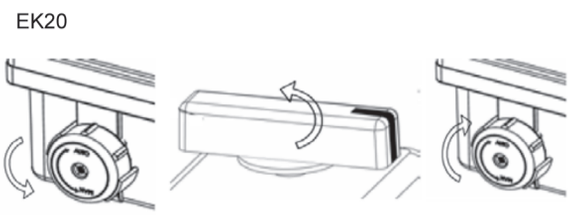


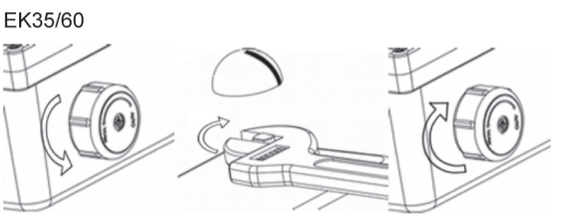


A = power supply
B = additional limit switches
C = earth
FC1 = additional limit switch 1
FC2 = additional limit switch 2
»a« = open
»b« = closed

manual emergency control

EK-Line





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.. EK20 (Use the T-handle to turn the actuator shaft.); EK35-EK60 (Turn the actuator shaft with the aid of an adjustable spanner.) Release the coupling switch to re-engage the gearing.

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Ball valve C 10, electric

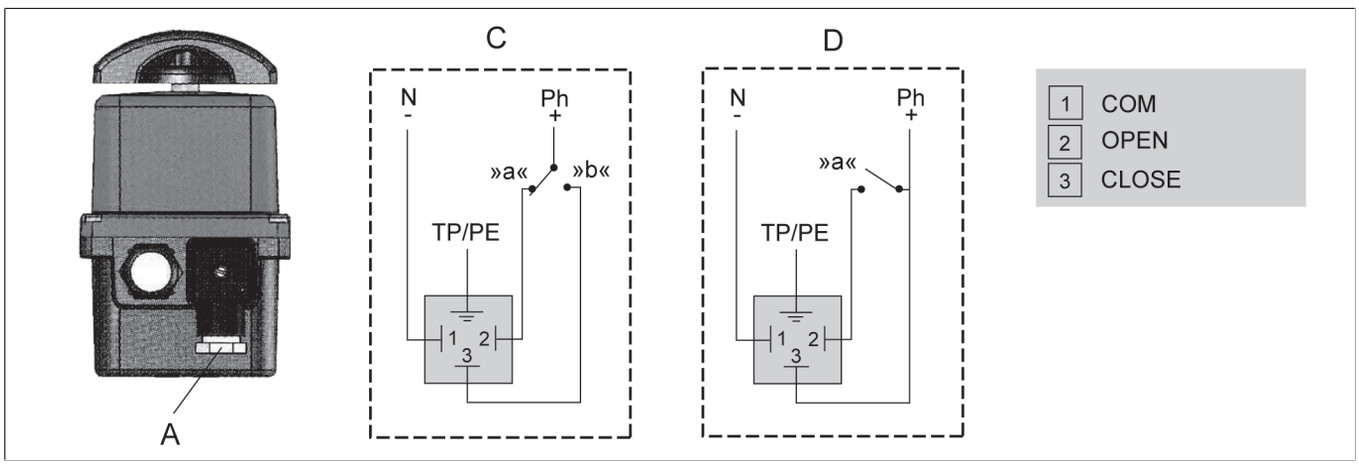
Technical data

actuator type	ER Premier 20	ER Premier 20 (*)
Torque	20	20
Voltage	90-240 VAC - 90-350 VDC	24 VAC/DC
Manipulating time(s)	13	12
Power consumption(W)	11	11
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

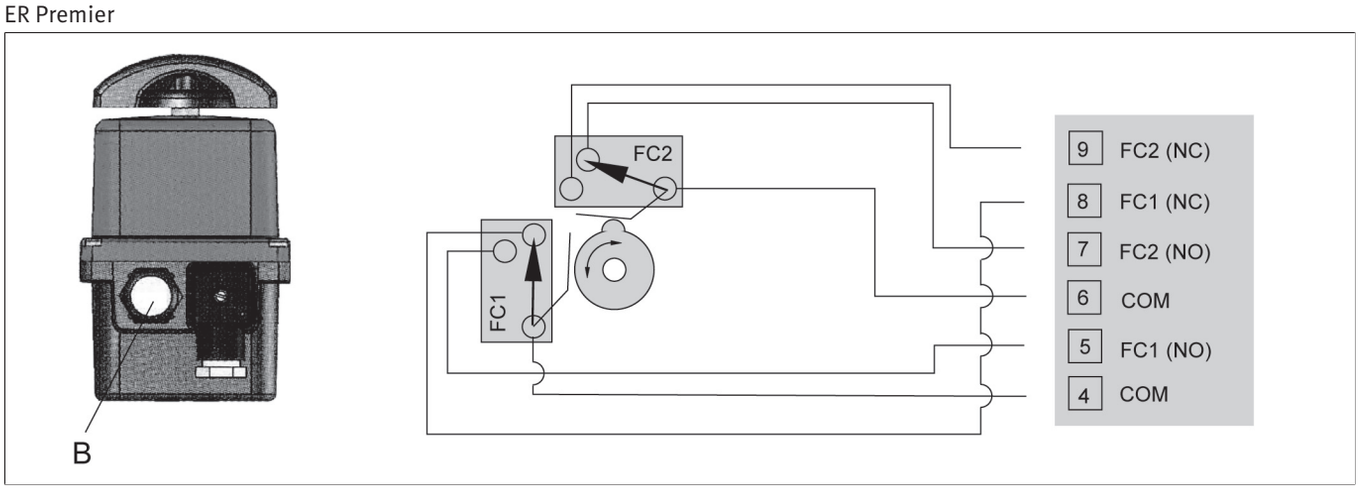
ER Premier



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«

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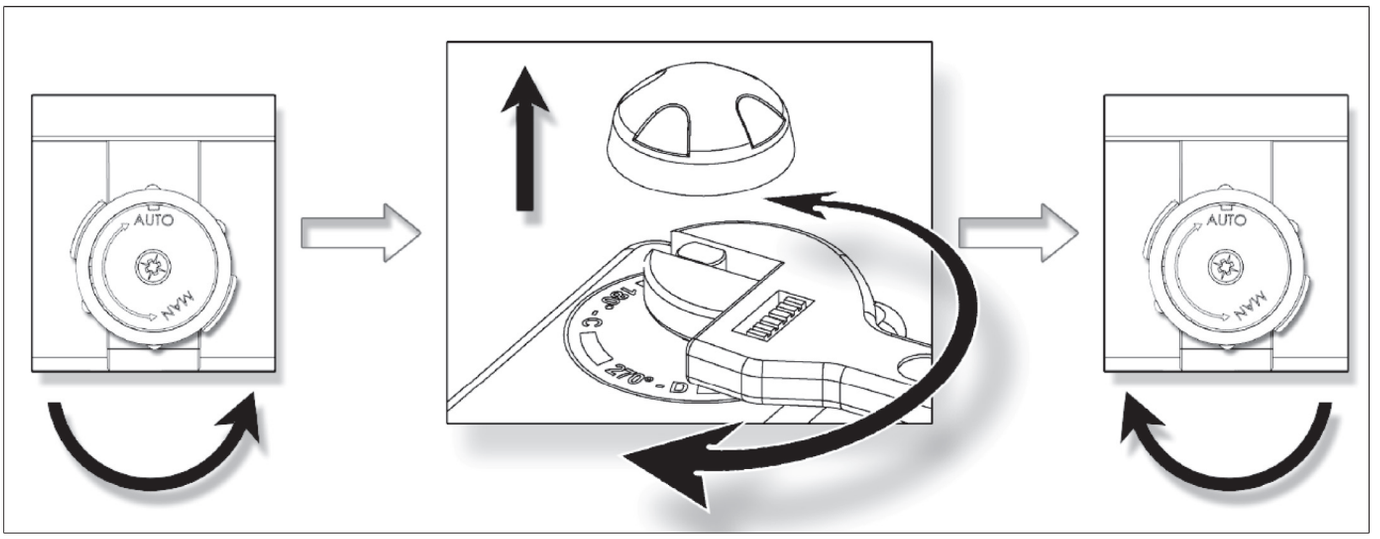
Ball valve C 10, electric

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.

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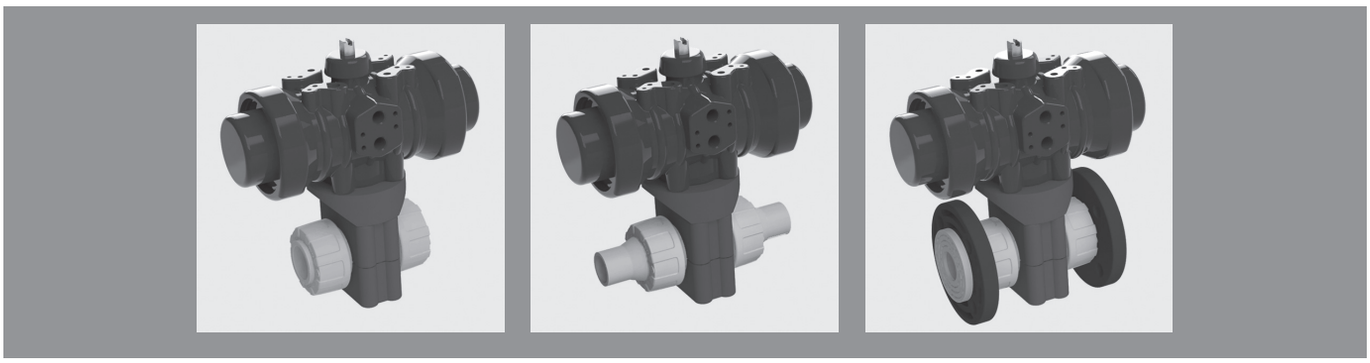
Ball valve C 10, pneumatic



Control Pressure
- 6 bar

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

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

Mounting Set
- PVC-U

Coupling
- steel square, galvanised
- adaptor made of PA

Screws
- stainless steel (1.4301)

Actuator variant NC		**body PVC-U**		**ball PE**					
size	d(mm)			20	25	32	40	50	63
pressure range	DN(mm)			15	20	25	32	40	50
	DN(inch)			1/2	3/4	1	1 1/4	1 1/2	2
	PN(bar)			10	10	10	10	10	10
Connection	*ball seat*	*sealing*	*ident No.*						
PVC-U	PTFE	EPDM		440159560	440169560	440179560	440189560	440199560	440209560
flange DIN EN 1092	PTFE	FPM		440219560	440229560	440239560	440249560	440259560	440269560
				1.86 kg	*3.18 kg*	*3.33 kg*	*3.85 kg*	*4.05 kg*	*7.49 kg*
PVC-U	PTFE	EPDM		608509560	608519560	608529560	608539560	608549560	608559560
socket end DIN ISO	PTFE	FPM		646809560	646819560	646829560	646839560	646849560	646859560
				1.66 kg	*2.89 kg*	*2.94 kg*	*3.20 kg*	*3.26 kg*	*6.50 kg*

Actuator variant NO		**body PVC-U**		**ball PE**					
size	d(mm)			20	25	32	40	50	63
pressure range	DN(mm)			15	20	25	32	40	50
	DN(inch)			1/2	3/4	1	1 1/4	1 1/2	2
	PN(bar)			10	10	10	10	10	10
Connection	*ball seat*	*sealing*	*ident No.*						
PVC-U	PTFE	EPDM		440159570	440169570	440179570	440189570	440199570	440209570
flange DIN EN 1092	PTFE	FPM		440219570	440229570	440239570	440249570	440259570	440269570
				1.86 kg	*3.18 kg*	*3.33 kg*	*3.85 kg*	*4.05 kg*	*7.49 kg*
PVC-U	PTFE	EPDM		608509570	608519570	608529570	608539570	608549570	608559570
socket end DIN ISO	PTFE	FPM		646809570	646819570	646829570	646839570	646849570	646859570
				1.66 kg	*2.89 kg*	*2.94 kg*	*3.20 kg*	*3.26 kg*	*6.50 kg*

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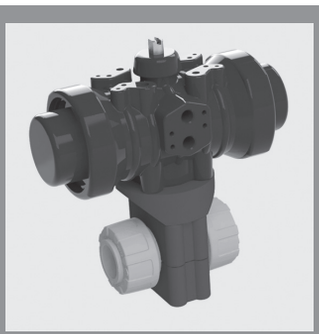
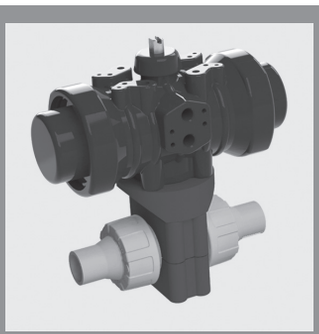
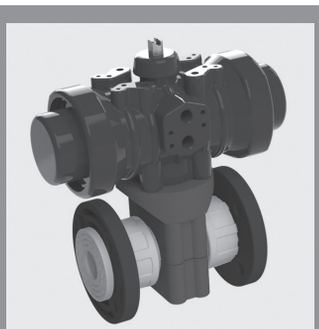
Ball valve C 10, pneumatic

Actuator variant DA			body PVC-U	ball PE					
size	d(mm)			20	25	32	40	50	63
pressure range	DN(mm)			15	20	25	32	40	50
	DN(inch)			1/2	3/4	1	1 1/4	1 1/2	2
	PN(bar)			10	10	10	10	10	10
Connection	*ball seat*	*sealing*	*ident No.*						
PVC-U	PTFE	EPDM		440159580	440169580	440179580	440189580	440199580	440209580
flange DIN EN 1092	PTFE	FPM		440219580	440229580	440239580	440249580	440259580	440269580
				1.59 kg	*1.79 kg*	*1.94 kg*	*2.46 kg*	*2.66 kg*	*4.41 kg*
PVC-U	PTFE	EPDM		608509580	608519580	608529580	608539580	608549580	608559580
socket end DIN ISO	PTFE	FPM		646809580	646819580	646829580	646839580	646849580	646859580
				1.39 kg	*1.50 kg*	*1.55 kg*	*1.81 kg*	*1.87 kg*	*3.42 kg*

Actuator variant NC			body PP	ball PE					
size	d(mm)			20	25	32	40	50	63
pressure range	DN(mm)			15	20	25	32	40	50
	DN(inch)			1/2	3/4	1	1 1/4	1 1/2	2
	PN(bar)			10	10	10	10	10	10
Connection	*ball seat*	*sealing*	*ident No.*						
PP	PTFE	EPDM		440279560	440289560	440299560	440309560	440319560	440329560
flange DIN EN 1092	PTFE	FPM		440339560	440349560	440359560	440369560	440379560	440389560
				1.85 kg	*3.18 kg*	*3.34 kg*	*3.84 kg*	*4.02 kg*	*7.35 kg*
PP	PTFE	EPDM		653579560	653589560	653599560	653609560	653619560	653629560
socket end DIN ISO	PTFE	FPM		646869560	646879560	646889560	646899560	646909560	646919560
				1.64 kg	*2.86 kg*	*2.92 kg*	*3.13 kg*	*3.18 kg*	*6.31 kg*
PP	PTFE	EPDM		1227909560	1227919560	1227929560	1227939560	1227949560	1227959560
spigot end DIN ISO	PTFE	FPM		1227979560	1227989560	1227999560	1228009560	1228019560	1228029560
				1.65 kg	*2.87 kg*	*2.93 kg*	*3.14 kg*	*3.19 kg*	*6.32 kg*

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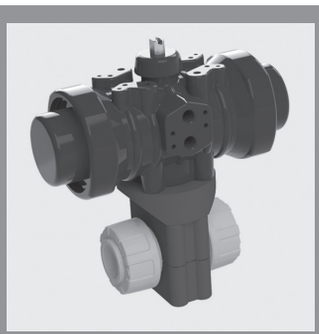
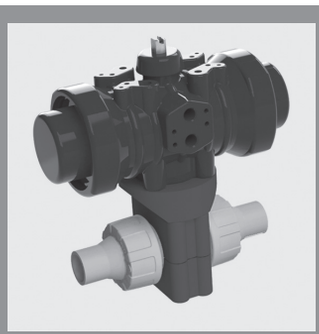
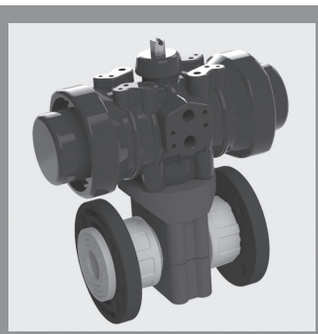
Ball valve C 10, pneumatic

Actuator variant NO			**body PP**	**ball PE**					
size	d(mm)			20	25	32	40	50	63
pressure range	DN(mm)			15	20	25	32	40	50
	DN(inch)			1/2	3/4	1	1 1/4	1 1/2	2
	PN(bar)			10	10	10	10	10	10
Connection	*ball seat*	*sealing*	*ident No.*						
PP	PTFE	EPDM		440279570	440289570	440299570	440309570	440319570	440329570
flange DIN EN 1092	PTFE	FPM		440339570	440349570	440359570	440369570	440379570	440389570
				1.85 kg	*3.18 kg*	*3.34 kg*	*3.84 kg*	*4.02 kg*	*7.35 kg*
PP	PTFE	EPDM		653579570	653589570	653599570	653609570	653619570	653629570
socket end DIN ISO	PTFE	FPM		646869570	646879570	646889570	646899570	646909570	646919570
				1.64 kg	*2.86 kg*	*2.92 kg*	*3.13 kg*	*3.18 kg*	*6.31 kg*
PP	PTFE	EPDM		1227909570	1227919570	1227929570	1227939570	1227949570	1227959570
spigot end DIN ISO	PTFE	FPM		1227979570	1227989570	1227999570	1228009570	1228019570	1228029570
				1.65 kg	*2.87 kg*	*2.93 kg*	*3.14 kg*	*3.19 kg*	*6.32 kg*

Actuator variant DA			**body PP**	**ball PE**					
size	d(mm)			20	25	32	40	50	63
pressure range	DN(mm)			15	20	25	32	40	50
	DN(inch)			1/2	3/4	1	1 1/4	1 1/2	2
	PN(bar)			10	10	10	10	10	10
Connection	*ball seat*	*sealing*	*ident No.*						
PP	PTFE	EPDM		440279580	440289580	440299580	440309580	440319580	440329580
flange DIN EN 1092	PTFE	FPM		440339580	440349580	440359580	440369580	440379580	440389580
				1.58 kg	*1.79 kg*	*1.95 kg*	*2.45 kg*	*2.63 kg*	*4.27 kg*
PP	PTFE	EPDM		653579580	653589580	653599580	653609580	653619580	653629580
socket end DIN ISO	PTFE	FPM		646869580	646879580	646889580	646899580	646909580	646919580
				1.37 kg	*1.47 kg*	*1.53 kg*	*1.74 kg*	*1.79 kg*	*3.23 kg*
PP	PTFE	EPDM		1227909580	1227919580	1227929580	1227939580	1227949580	1227959580
spigot end DIN ISO	PTFE	FPM		1227979580	1227989580	1227999580	1228009580	1228019580	1228029580
				1.38 kg	*1.48 kg*	*1.54 kg*	*1.75 kg*	*1.80 kg*	*3.24 kg*

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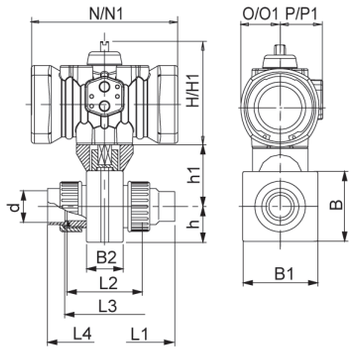
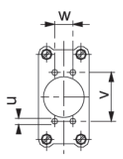
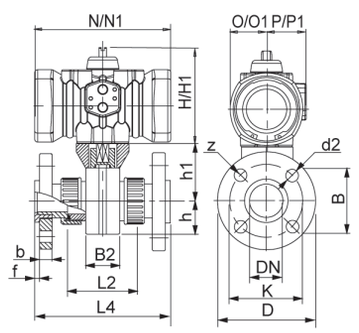
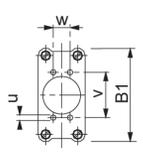
Ball valve C 10, pneumatic









N/O/P/H = NC-NO
N1/O1/P1/H1 = DA

dimensions

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
actuator type		PP00 DA PP00S NC/NO	PP00 DA PP10S NC/NO	PP00 DA PP10S NC/NO	PP00 DA PP10S NC/NO	PP00 DA PP10S NC/NO	PP10 DA PP20S NC/NO
dimensions(mm)							
	b	12	14	15	17	17	18
	B	65	81	81	109	109	129
	B1	84	88	88	112	112	126
	B2	33	42	42	56	56	69
	d2	14	14	14	18	18	18
	D	95	105	115	140	150	165
	f	6	7	7	8	8	9
	h	32.5	40.5	40.5	54.5	54.5	64.5
	h1	63	71	71	90	90	100
	H	110	128	128	128	128	162
	H1	110	110	110	110	110	128
	K	65	75	85	100	110	125
	L	130	150	160	180	200	230
	L1	174	186	191	202	205	225
	L2	64	76	81	92	95	115
	L3	70	82	87	98	101	121
PP	L4	99	114	123	139	148	175
PVC-U	L4	102	120	131	150	163	197
	N	155	230	230	230	230	304
	N1	125	125	125	125	125	182
	O	49	49	49	49	49	60
	O1	36	36	36	36	36	49
	P	44	53	53	53	53	65
	P1	44	44	44	44	44	53
	u	6.5	6.5	6.5	6.5	6.5	6.5
	v	38	48	48	54	54	60
	w	-	-	-	20	20	32
	z	4	4	4	4	4	4

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Ball valve C 10, pneumatic

Technical data

PP-Line

Option (to be ordered additionally if required)

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

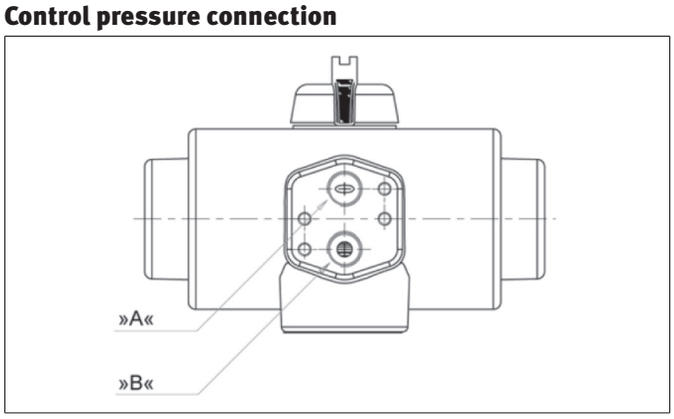
actuator type	PP00S	PP10S	PP20S
Function	NC/NO	NC/NO	NC/NO
Torque (start) at 6 bar(Nm)	15.9	46.6	103.3
Torque (end) at 6 bar(Nm)	11.3	32.3	64.2
Control volume (Opening)(Liter)	0.15	0.35	0.8
Manipulating time (Opening)(s)	0.2	0.3	0.5
Manipulating time (Closing)(s)	0.2	0.3	0.5
Control pressure connection(inch)	1/4	1/4	1/4
Weight(kg)	1.03	2.15	4.95

(*) Drive variants: please order separately.

actuator type	PP00	PP10 (*)
Function	DA	DA
Torque (start) at 6 bar(Nm)	25	71
Control volume (Opening)(Liter)	0.15	0.35
Control volume (Closing)(Liter)	0.1	0.32
Manipulating time (Opening)(s)	0.15	0.25
Manipulating time (Closing)(s)	0.15	0.25
Control pressure connection(inch)	1/4	1/4
Weight(kg)	0.76	1.41

(*) Drive variants: please order separately.

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.

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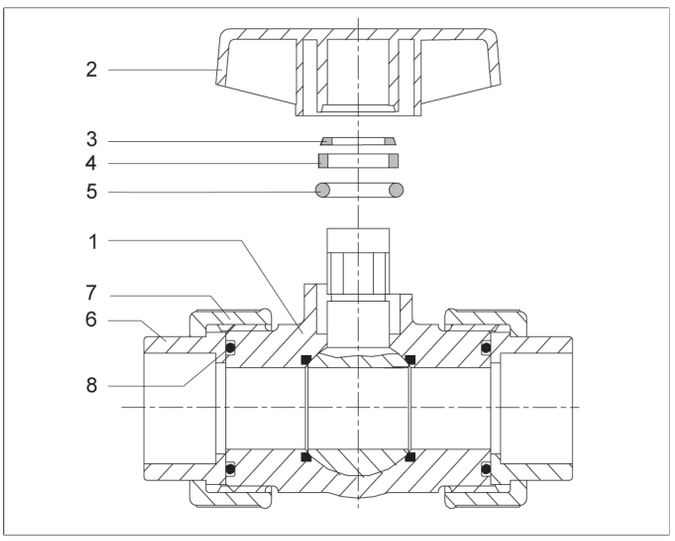
Ball valve C 10

parts lists



position	quantity	designation
1	1	body with ball
2	1	T-handle
3	1	circlip
4	1	pressure piece
5	1	O-ring
6	2	union end
7	2	union nut
8	2	O-ring

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