09/06/2026
VPPCV21SPD400

Pressure reducing valve type E2115-00

DN (mm)	PN	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Mass (kg)	References
50	10 - 25	230	148	246	165	85	17.00	RCA50DBCHA
60	10 - 16	290	148	246	185	95	23.00	RCA60DBCHA
60	25	290	148	246	185	95	27.00	200850
65	10 - 16	290	148	246	185	95	23.00	RCA65DBCHA
65	25	290	148	246	185	95	23.00	RCA65DBDHA
80	10 - 16	310	148	246	200	100	23.00	RCA80DBCHA
80	25	310	148	246	200	100	25.00	RCA80DBDHA
100	10 - 16	350	206	272	220	110	33.00	RCB10DBCHA
100	25	350	206	272	220	110	40.00	200873
125	10 - 16	400	267	330	250	125	51.00	RCB12DBCHA
125	25	400	267	330	250	125	51.00	RCB12DBDHA
150	10 - 16	480	267	330	285	145	62.00	RCB15DBCHA
150	25	480	267	330	285	145	62.00	RCB15DBDHA
200	10	600	356	402	340	170	110.00	RCB20DBBHA
200	16	600	356	402	340	170	110.00	RCB20DBAHA
200	25	600	356	402	402	180	110.00	RCB20DBDHA
250	10	730	445	569	400	200	191.00	RCB25DBBHA
250	16	730	445	569	400	200	239.00	RCB25DBAHA
250	25	730	445	569	425	215	191.00	RCB25DBDHA
300	10	850	597	649	455	230	320.00	RCB30DBBHA

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DN (mm)	PN	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Mass (kg)	References
300	16	850	597	649	455	230	257.00	RCB30DBAHA
300	25	850	597	649	485	245	320.00	RCB30DBDHA
350	10	980	597	649	520	255	382.00	RCB35DBBHA
350	16	980	597	649	520	255	469.00	200899
350	25	980	597	649	555	280	489.00	200900
400	10	1100	750	786	565	285	603.00	RCB40DBBHA
400	16	1100	750	786	565	285	603.00	RCB40DBAHA
400	25	1100	750	786	620	310	640.00	RCB40DBDHA
500	10	1250	842	840	670	335	935.00	RCB50DBBHA
500	16	1250	842	840	670	335	865.00	200905
500	25	1250	842	840	730	365	980.00	RCB50DBDHA
600	10	1450	905	956	780	390	1280.00	RCB60DBBHA
600	16	1450	905	956	780	390	1280.00	RCB60DBAHA
600	25	1450	905	956	845	425	1330.00	RCB60DBDHA
700	10	1650	1110	1080	910	460	2148.00	RCB70DBBHA
700	16	1650	1110	1080	910	460	2250.00	200908
700	25	1650	1110	1080	960	485	2210.00	RCB70DBDHA

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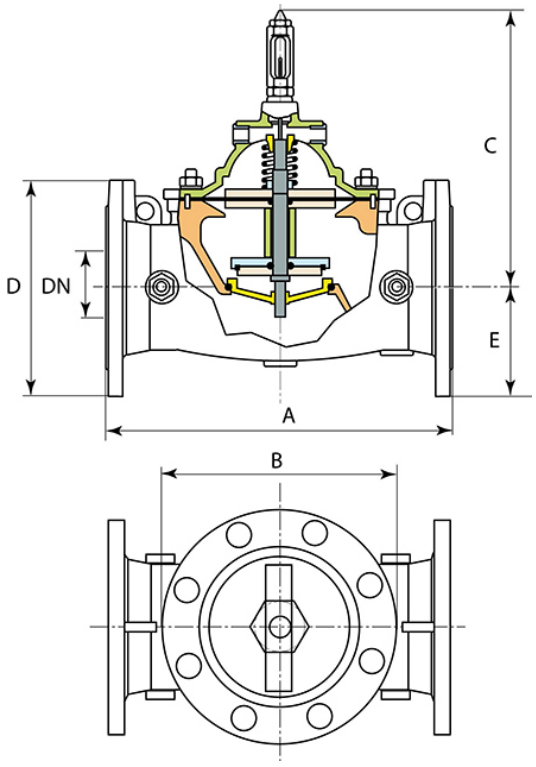

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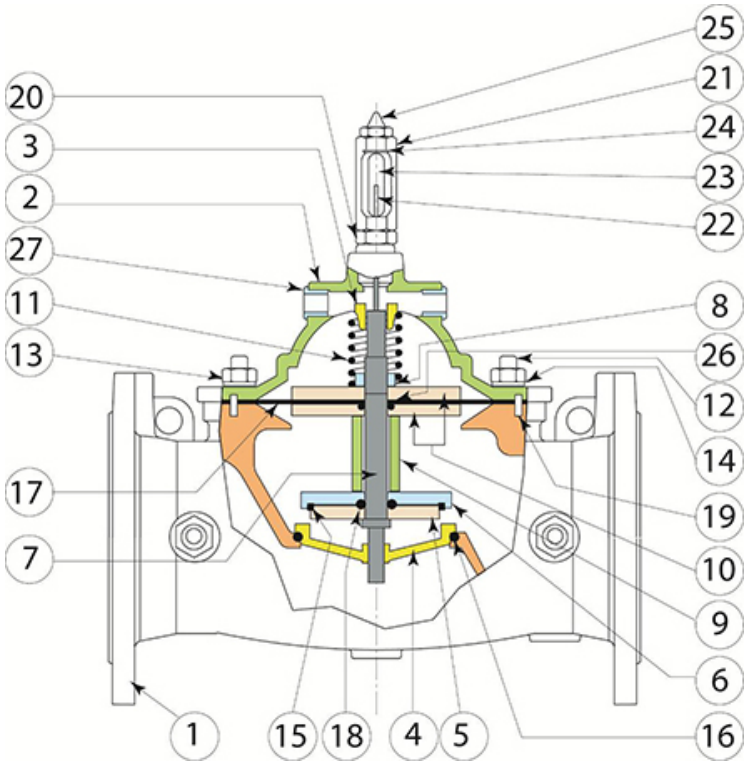
Material and coating



Item	Quantity	Description	Material
01	01	Body	FGS 400-15 (coating BFE epoxy 250µm mini)
02	01	Cover	FGS 400-15 (coating BFE epoxy 250µm mini)
03	01	Cover bearing	Bronze
04	01	Seat	AISI 316
05	01	Quad-ring retainer plate	AISI 316
06	01	Quad-ring retainer size 50-200	AISI 316
07	01	Stem	AISI 303
08	02	Stem nuts	AISI 303
09	01	Spacer	AISI 303
10	02	Diaphragm washers epoxy coated	Steel
11	01	Spring	AISI 302
12	*	Stud	AISI 303
13	*	Nut	AISI 303

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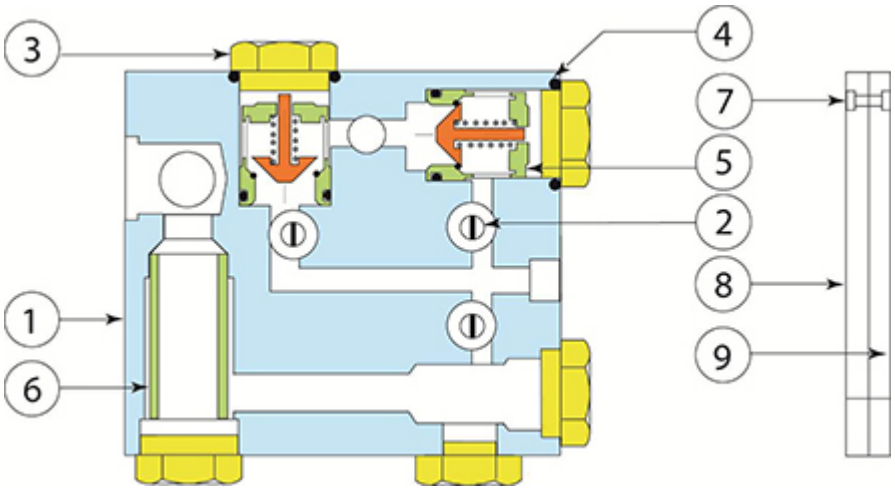
Item	Quantity	Description	Material
14	*	Washer	AISI 303
15	01	Quad-ring	NBR (KTW-WRC)
16	01	Seat O-ring	Viton
17	01	Diaphragm	NBR nylon reinforced (KTW-WRC)
18	01	O-ring	NBR
19	02	Centring taper pin	AISI 303
20	01	Base position indicator	Brass Ni-plated
21	01	Position indicator housing	Brass Ni-plated
22	01	Position indicator stem	AISI 303
23	01	Position indicator	Glass
24	02	O-ring	NBR
25	01	Brass Ni-plated	Brass Ni-plated
26	01	O-ring	NBR
27	01	Reduction	AISI 304

Central Control Unit TUP 93



Item	Quantity	Description	Material (type)
01	01	Body	AISI 303
02	03	Cock	AISI 303
03	03	Plug	AISI 303

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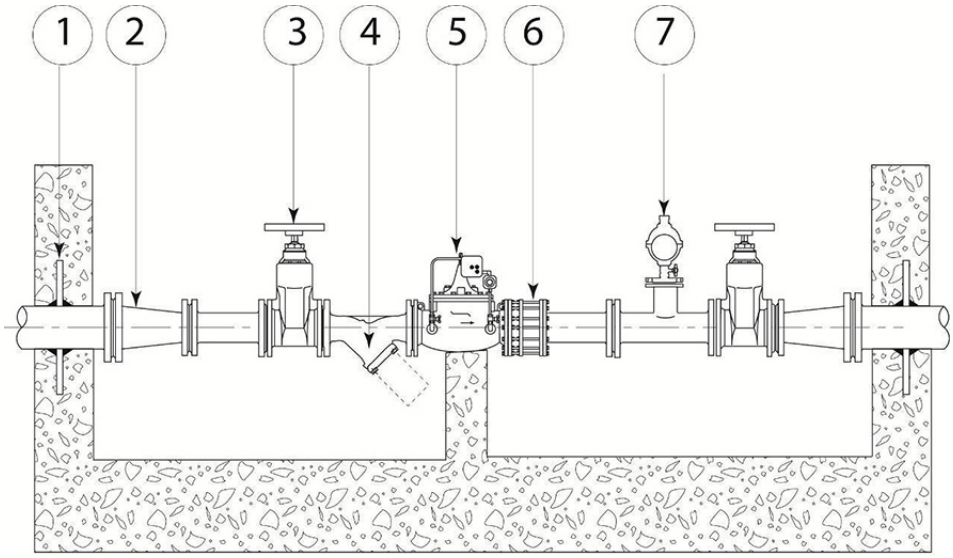
Item	Quantity	Description	Material (type)
04	03	O-ring	NBR
05	02	Non return valve (WRC)	
06	01	Screen	AISI 316
07	01	Rivet	Brass
08	01	Bottom label	Polycarbonate makrolon
09	01	Top label	Polycarbonate makrolon

Mounting scheme (I)



Item	Quantity	Description
01	2	Attachment flange
02	2	Flanged taper
03	3	Isolating valve
04	1	Strainer with drain cock
05	1	Automatic control valve E2001
06	1	Dismantling joint
07	1	Air release / vacuum breaker valve

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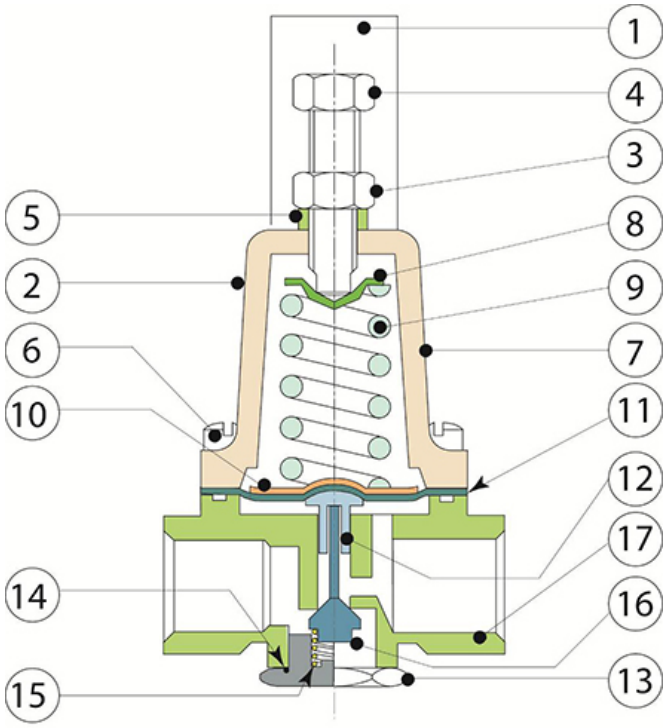
Pilot 263 SS



Item	Number	Description	Material
01	01	Protection cap (lockable)	PVC
02	01	Plastic label (identity card)	
03	01	Nut-adj-screw	AISI 302
04	01	Setting screw	AISI 302
05	01	Cap adaptor	Brass
06	04	Cover screw	AISI 302
07	01	Pilot cover	AISI 303
08	01	Top spring guide	AISI 303
09	01	Spring	AISI 302
10	01	Diaphragm washer	AISI 304
11	01	Diaphragm	NBR nylon reinforced
12	01	Diaphragm button	AISI 303
13	01	Bottom obturator plug	AISI 303

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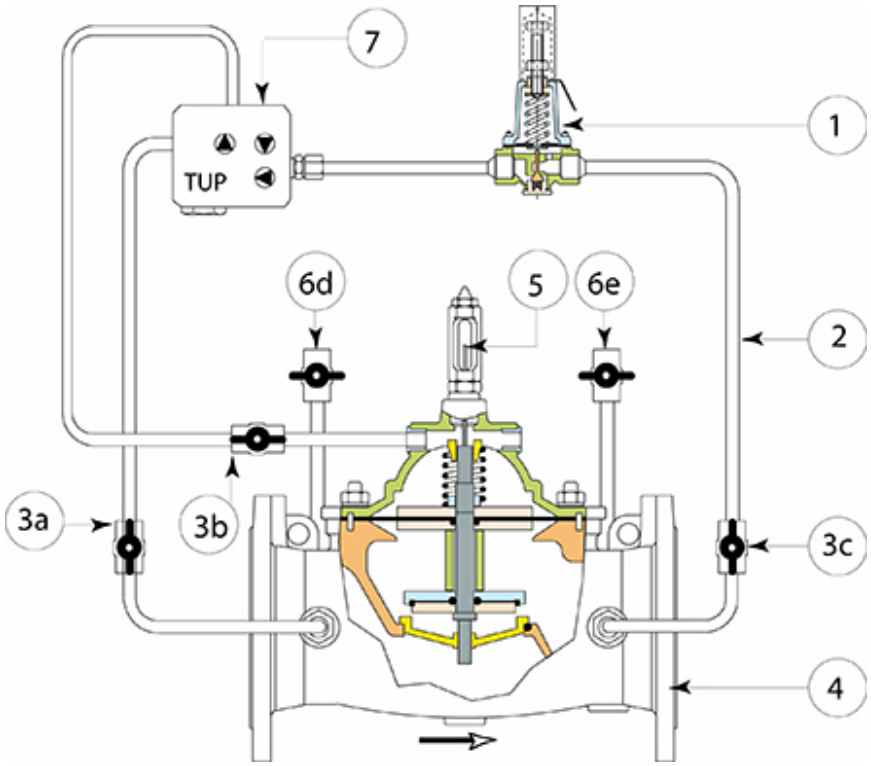
Item	Number	Description	Material
14	01	O'ring	NBR
15	01	Obturator - spring - button	AISI 302
16	01	Obturator (Y-poppet)	AISI 303
17	01	Body	AISI 303

Hydraulic scheme



Item	Description	Material
1	Pressure reducer pilot 263 SS or AP	AISI 304
2	Tube	AISI 304
3a 3b 3c	Ball valve	Brass Ni-plated
4	Main valve E2001	
5	Position indicator with manual venting cock E50	
6d 6e	Gauge holder ball valve (manometer)	Brass Ni-plated
7	Centralized control unit TUP-93	

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Installation

Packing and storage

The valves are packed in special cardboard boxes. Outside the carton are clearly pointed out:

- The arrow indicating the position of the valve
- The name of the customer
- The code of the valve
- The number of order confirmation

The valve is protected by two hardening foam cushions, carefully coated by a thermal plate.

This kind of packing if properly stored avoids all the damages originated from transport, unloading, and handling before installation. Avoid storing it under the rain for more than 24 hours!

Open the upper side of the carton and remove the upper cushion. Do not lift the valve by utilizing the pilot, the pilot circuit, or the position indicator.
For any kind of handling we recommend to utilize proper eyebolts.

Installation

The mounting scheme of the valve is shown on the drawing.

If the valve is working as pressure sustaining device in a transport line, it may be recommended to install a by-pass around it, which will allow to put it out of service during some hours for maintenance purpose, without generating problem for the exploitation of the system.

The choice of the proper "by-pass" alternative must be taken considering the following points:

1. Can the main transport/feeding line be put out of service during some hours (corresponding to the requested time for maintaining the MAIN VALVE), without generating problem for the exploitation of the system? In particular, it must be considered that an empty system may require several hours to be vented properly.
2. Pressure relief: Has the downstream or upstream zone of the system to be protected against any risk of pressure surge (quick closing of heavy demands, closing time) ?

Should installation require the main valve stem to be horizontal (cover pointed sideways), manufacturer should be consulted concerning valves of DN200 mm and larger.

Note: All sizes on request are available with an additional venting cover device (venting cock installed at the top of the cover) to permit a simple escaping of air during the first commissioning.

- Before control valve assembly, make sure that pipeline it is free from foreign matters or any other obstacle. (note: pipeline must be cleaned, possibly, before assembly. For an ideal pipeline cleaning we suggest a 1.5 m/sec speed during several hours!).
- In presence of foreign matters into the fluid it is indispensable to adopt a strainer on valve upstream side.
- Keep free around the valve space enough for operations as maintenance and calibration.

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- Set up the valve according to main valve cast arrow indicating flow sense.
- Install the valve so that the FLOW ARROW marked on the valve body matches flow through the line: UPSTREAM → DOWNSTREAM

Start up of an automatic control valve requires that proper procedures be followed. Time must be allowed for the valve to react to adjustments and the system to stabilize. The objective of the following procedure is to bring the valve into service in a controlled manner.

Maintenance

Recommended spare parts:
- 1 pilot
- Set of joints for pilot 263
- Set of joint for E2001

The quality of the material used in the manufacture of our valves should produce no wear of the internal components.

However we are recommending:
After 6 months of service:
- Control and clean eventually the TUP - 93 screen

Note: an obstructed screen due progressively the valve out of order.

After 12/18 months of service:
- Control and clean the TUP - 93 screen.
- Take the main valve apart, by removing first the complete pilot circuit.
- Unscrew the stud nuts and remove the cover and internal diaphragm assembly.
- Check for any eventual damage of the QUAD-RING and the diaphragm.
- Clean thoroughly the internal part of the valve, grease slightly the stem at both guided locations (water grease, non-toxic!!).
- Assemble the main valve and the pilot circuit.
- Put the valve back into service.

This control should then allow to determine the cycle of the requested maintenance, since it is taking into consideration the true service conditions of the valve.

For any further information contact our Customer Service, indicating all data as per plastic label on main valve body. Give full detailed information's about working conditions, the type of problem, and report the adjusting values (OS-CS-RS).

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