



**FLUCON 200** is a pilot operated single seated, hydraulically operated, diaphragm type globe valve. The diaphragm assembly containing a resilient rubber valve is the only moving part. Stem is fully guided on removable seat and cover. The diaphragm assembly forms a sealed chamber, separating operating pressure from line pressure.

### Operation

Regardless of variations in flow rate or inlet pressure FLUCON 200.02 automatically reduces high inlet pressures to a lower stable value downstream. The system consists of a FLUCON valve 200 and a pressure reducing pilot system FLUCON 02.

**I** – The pressure reducing pilot (5) normally opened is sensitive to slight changes in pressure P2. If the downstream pressure increases the pilot (5) modulates to control the main valve (1) and maintains the desired downstream pressure.

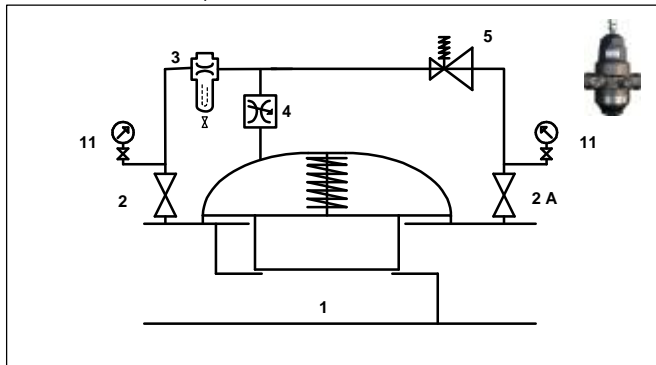
**II** - Ball Valves (2) isolate the pilot system from the main valve. When in operation these valves must be opened. By closing only the downstream valve the main valve closes (1).

**III** - OCS / OSCS (4) adjusts the opening and closing speed of the main valve.

**IV**- The high capacity filter (3) protects the pilot system from particles and dirt.

**V** – The desired pressure adjustment is made with a single screw at the top of the pressure reducing pilot (5). By screwing clockwise downstream pressure increases, by screwing counterclockwise downstream pressure decreases.

Note: For correct start up use the instruction / maintenance manual.



STANDARD CONSTRUCTION			
Nº	Description	Qt.	Type
1	Main Valve	1	200
2	Isolation ball valve	2	VS
3	High capacity filter + orifice	1	FAC
4	Opening/ closing speed control	1	OCS
5	Pressure reducing pilot	1	02
Optional Accessories			
11	Pressure gauge	1	M
	Separated opening/ closing speed control	1	OSCS
	Anti cavitation system	1	ACCS
	Parabolic plug	1	P

### Characteristics

- Hydraulic control valve pilot operated, globe type, controlled by its own medium, no external energy needed
- High capacity filter with inspection glass, including ball valve for manual flushing
- Controller for adjustment of opening and closing speed
- Face-to-face length acc. to EN558-1 (DN50 – DN250)
- Flanged ends acc. to EN1092-2
- Final inspection test acc. to EN 12266 (DIN 3230 Part 4)

### Materials

Main valve:

- Body and bonnet: Ductile Iron EN-JS 1030 (GGG-40)
- Seat and control device: Stainless steel 1.4404
- Seal: EPDM
- Diaphragm: EPDM
- Corrosion protection: Fusion bonded epoxy 250 µm, RAL 5005 blue

Pilot System:

- All functional parts: Stainless steel 1.4404
- Rubber parts: EPDM
- Heavy-duty filter: Stainless steel 1.4404
- Sight glass: Pressure resistant polypropylene

### Operation ranges

Standard (downstream pressure):	02R1(0,4-2 bar)
	02R2(1-5,5 bar)
	02R3(2-12 bar)
	02R4(5-21 bar)

PN40 valves under request.

### Operation data

- Static pressure upstream of the valve
- Dynamic pressure upstream of the valve
- Dynamic pressure downstream of the valve
- Maximum flow rate
- Minimum flow rate

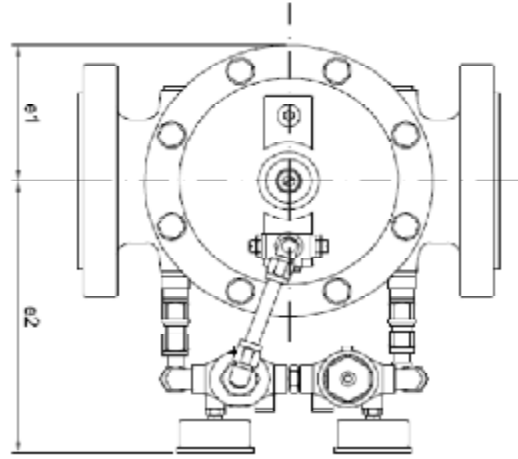
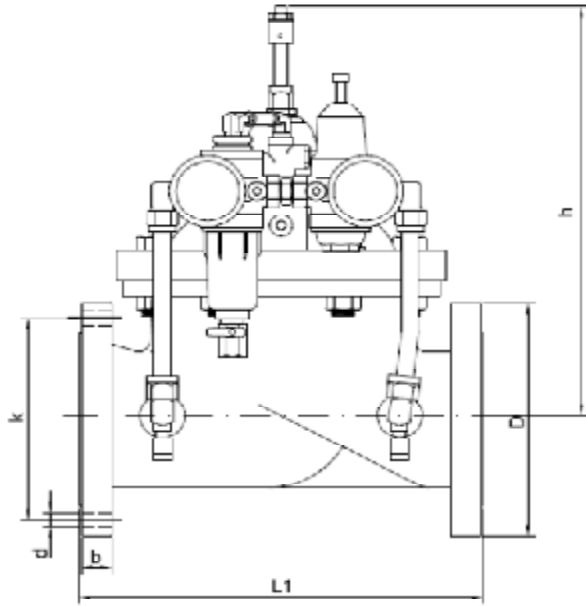
### Note

The diaphragm valve is preferably installed between two shut-off valves and dirt trap on inlet pressure side. For pressure reducing valves we recommend the additional installation of a safety valve.

For proper installation and safe operation please follow the installation and operation instructions.

### Field of application

Water transport and distribution networks.



Dimensions in mm															
Nominal diameter	DN	50	65	80	100	125	150	200	250	300	350	400	500	600	
Constructive dimensions	L1	230	290	310	350	400	480	600	730	710	800	845	1060	1300	
acc. to EN 558-1															
Dimension	PN10	D						345	410	464	520	580	715	840	
Flanges		k						295	350	400	460	515	620	725	
		Holes	see PN16					8	12	12	16	16	20	20	
		d						23	23	23	23	28	28	31	
		b						28	28	32	32	32	33	33	
		L2*						36	38	38	40	44	50	50	
	PN16	D	167	189	200	220	250	294	345	410	464	520	580	715	840
		k	125	145	160	180	210	240	295	355	410	470	525	650	770
		Holes	4	4	8	8	8	8	12	12	12	16	16	20	20
		d	19	19	19	19	19	23	23	28	28	28	31	34	37
		b	17	23	23	25	26	28	28	28	32	32	32	33	36
		L2*	29	29	31	31	33	33	37	43	43	47	50	54	54
	PN25	D	167	189	200	235	270	300	360	425	485	555	620	730	845
		k	125	145	160	190	220	250	310	370	430	490	550	660	770
		Holes	4	8	8	8	8	8	12	12	16	16	16	20	20
		d	19	19	19	23	28	28	28	31	31	34	37	37	41
		b	20	23	23	25	26	28	30	32	34	38	40	37	42
		L2*	31	35	37	37	39	41	43	47	51	55	61	68	68
Length		e1	90	120	120	150	150	150	200	250	280	280	340	445	445
		e2	310	340	340	370	370	370	425	470	500	500	510	530	530
		e3	190	220	230	260	260	270	310	335	390	390	400	510	510
		h	280	380	380	440	440	440	530	580	720	720	850	930	930
Net weight		Kg	19	36	38	50	65	75	160	232	380	440	580	875	945
Volume		m3	0,043	0,076	0,082	0,117	0,137	0,169	0,304	0,481	0,548	0,633	0,833	123	129

(\*) Only for flow rate valves