LUXOR S.P.A.	**TECHNICAL DATA SHEET**	**VB**

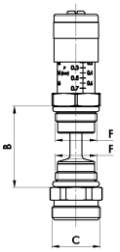
The by-pass valve is an overpressure valve and prevents the overload of the differential pressure value between two points of the circuit. Inside the valve there is an obturator which in normal working functions remains closed thanks to the thrust of a spring. In case of a pressure increase, with consequent thrust higher than the one on the spring, the obturator will open allowing an overpressure discharge and the circulation of the water through the by-pass circuit. The use of a bypass valve is necessary in all the distribution systems specially when there are 2 ways zone valves or heating bodies with regulation valves which can allow, in certain conditions, the complete exclusion of the circuit. The valve guarantees a recirculation so the pump is safe from being used in conditions different from the project avoiding the displacement of the circuits functioning in parallel and noises due to the speed increase of the liquid through the regulation elements..

TECHNICAL FEATURES:	Max working pressure:	10 bar
	Max working temperature:	120 °C
	Max differential pressure:	1 bar
	Regulation range:	0.2 ÷ 0.7 bar
	Thermometer range:	0 ÷ 80 °C

CONSTRUCTION FEATURES:	**VALVE**	
	Valve Material:	CW 614 N UNI-EN 12164-98
	Seat material:	CW 617 N UNI-EN 12165-98
	Gasket material:	EPDMM peroxide
	Steel material:	Stainless steel AISI 302
	ACCESSORIES	
	Brass parts:	CW 617 N UNI-EN 12165-98
		CW 614 N UNI-EN 12164-98
	Pipe:	Medium hard nickel plated copper
	Gasket material :	EPDMM peroxide
	THERMOMETERS	
	Thermometer case and stem:	Galvanized steel
	Covering:	Plastic transparent material
	Thermometric element::	Bi-metal spiral spring
GALVANIC TREATMENT:	Nickel plating finishing	

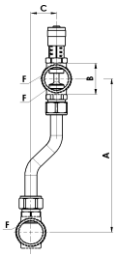
DIMENSIONAL DRAWINGS

Article:	**VB 755**
Description:	Bypass valve.
Connection:	-



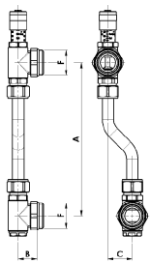
Code	Size	A	B	C	D	E	F	G	H	L
68512109	CD G1”	-	41	M24x19	-	-	G1/2	-	-	-
68512110	CD G1”1/4	-	51	M24x19	-	-	G1/2	-	-	-
-	-	-	-	-	-	-	-	-	-	-

Article:	**VB 750**
Description:	Bypass valve for manifolds series CD.
Connection:	-



Code	Size	A	B	C	D	E	F	G	H	L
68512101	CD G1”	200	41	32	-	-	G1/2	-	-	-
68512115	CD G1”	250	41	32	-	-	G1/2	-	-	-
68512102	CD G1”1/4	200	51	32	-	-	G1/2	-	-	-

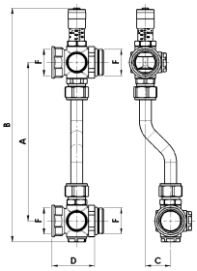
Article:	**VB 751**
Description:	Bypass valve for manifolds terminals series CD.
Connection:	-



Code	Size	A	B	C	D	E	F	G	H	L
68512103	G1”	200	25	32	-	-	G1”	-	-	-
68512116	G1”	250	25	32	-	-	G1”	-	-	-
-	-	-	-	-	-	-	-	-	-	-

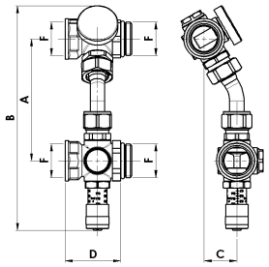
LUXOR S.P.A.	**TECHNICAL DATA SHEET**	**VB**

Article:	**VB 752**
Description:	By-pass valve with connection filler for ball valve
Connection:	-



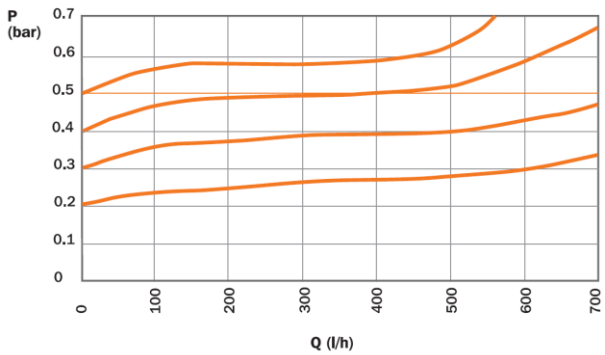
Code	Size	A	B	C	D	E	F	G	H	L
68512105	G1”	200	295	32	54	-	G1”	-	-	-
68512117	G1”	250	295	32	54	-	G1”	-	-	-
-	-	-	-	-	-	-	-	-	-	-

Article:	**VB 753**
Description:	By-pass valve kit high temperature for mixing group GM1192.
Connection:	-



Code	Size	A	B	C	D	E	F	G	H	L
68512108	G1”	120	223	32	54	-	G1”	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

FLOW RATE CHART



LUXOR S.P.A.	**TECHNICAL DATA SHEET**	**VB**

OPERATING INSTRUCTIONS	
	Insert the bypass valve between the inlet pipe and the back flow below the circulation pump. the valve is made of two parts as shown in the drawing: • Valve seat with connection for the fluid inlet • Regulation elements with range from 0.2 to 0.7 bar. **NOTE:** The fitting must be assembled only on the side of the liquid inlet
	Regulation: • Rotate the handle until its edge matches with the value requested which is given on the graduated scale placed on the valve body: clockwise to increase the differential pressure of the opening; counter-clockwise to diminish it

TENDER SPECIFICATIONS		
Article code:	68512109 – 68512110	**VB 755**
Differential by-pass valve. Connection to manifold G1/2 M. Code. 68512109 wheelbase 41 mm; Code. 68512110 wheelbase 51 mm. Range of regulation from 0.2 to 0.7 bar. CW614N and CW617N brass parts. EPDM, peroxide hydraulic sealing. Stainless steel parts. Connection M24x19 fil". Max working temperature 120 °C, max working pressure 10 bar, differential pressure 1 bar.		
Article code:	68512101 – 68512115 – 68512102	**VB 750**
Differential by-pass valve. Connection to manifold G1/2 M. Code. 68512101 and 68512102 wheelbase 200 mm; Code 68512115 wheelbase 250 mm. Offset 32 mm. Range of regulation from 0.2 to 0.7 bar. CW614N and CW617N brass parts. EPDM, peroxide hydraulic sealing. Stainless steel parts. Nickel plated copper pipe Ø15 mm. Max working temperature120 °C, max working pressure 10 bar, differential pressure 1 bar.		
Article code:	68512103 – 68512116	**VB 751**
Differential by-pass valve with terminal for manifolds G1" M. Code 68512103 wheelbase 200 mm; Code 68512116 wheelbase 250 mm. Offset 32 mm. Range of regulation from 0.2 to 0.7 bar. CW614N and CW617N brass parts. EPDM, peroxide hydraulic sealing. Stainless steel parts. Nickel plated copper pipe Ø15 mm. Max working temperature120 °C, max working pressure 10 bar, differential pressure 1 bar.		
Article code:	68512105 – 68512117	**VB 752**
Differential by-pass valve with connection filler with counter nut for manifolds G1" M. Code 68512105 wheelbase 200 mm; Code 68512117 wheelbase 250 mm. Offset 32 mm. CW614N and CW617N brass parts. EPDM, peroxide hydraulic sealing. Stainless steel parts. Nickel plated copper pipe Ø15 mm. Max working temperature120 °C, max working pressure 10 bar, differential pressure 1 bar.		
Article code:	68512108	**VB 753**
Differential by-pass valve with connection filler with counter nut for manifolds G1" M. Wheelbase 120 mm. Offset 32 mm. Range of regulation from 0.2 to 0.7 bar. CW614N and CW617N brass parts. EPDM, peroxide hydraulic sealing. Stainless steel parts. Nickel plated copper pipe Ø15 mm. Thermometer range 0 ÷ 80 °C. Max working temperature120 °C, max working pressure 10 bar, differential pressure 1 bar.		