

Technical Data Sheet

BIOVENT[®] Hygienic Control Valve



TD_391

General data

Series	391		
Nominal diameter (DN)	15 – 150		
Nominal pressure (PN)	10 – 25		
Housing designs	Angle type	L	Parabolic plug
	Globe style	BO	Parabolic plug
	Globe style	BM	Parabolic plug, double guiding
	3-step	BM	3-step plug (P3)
	3-way	M-WM	Flow mixer
	3-way	T-WM	Flow divider
Body material	Material no. 1.4404 (all body components blasted and post-treated) Thread connection 1.4301		
Body connections	Thread connections, welded ends, flanged connections, clamp connections, aseptic flange connections (other connections available on request)		
Piping classes	Metric in accordance with DIN 11850 Inch OD in accordance with ISO2037/BS 4825 Part 1 Inch IPS in accordance with Schedule 5		
Surfaces	Wetted Surfaces $R_a \leq 0.8 \mu\text{m}$; matt-blasted outer surface		
Plug characteristic	Standard: equal percentage or linear		
Rangeability	40:1		
Seat leakage	Metal sealing: class IV (0.01% of kvs) Soft sealing: class VI		
Plug	Material no. 1.4571 (superfinished; guide surfaces also finish rolled)		
Seat	Material no. 1.4404		
Stem seal	EPDM sealing rings; temperature range: -30 to +135°C; FDA compliant Resistance: 2 to 5% resistance to alkaline solutions and acids up to +85°C Other materials (FPM, HNBR etc.) available on request.		
Options	Sterile lock, diaphragm seal Optimum CIP conditions		
Material certificates	Manufacturers final test certificate in accordance with EN 10204-3.1, factory certificate in accordance with EN 10204-2.2		

TD-391-gb 2009-07

- Subject to technical modifications -

JOHANNESBURG

Tel : 011 397-2833
 Fax : 011 397-4700
 E-mail : sales.jhb@valve.co.za

TECHNICAL SALES & SUPPORT

Richards Bay : 083 320-0393
 Rustenburg : 083 227-7722
 Sasolburg : 083 321-4960
 Secunda : 083 656-4254 /
 082 495 3751

DURBAN

Tel : 031 579-2593
 Fax : 031 579-2562
 E-mail : sales@valve.co.za



www.valve.co.za

Technical Data Sheet

BIOVENT® Hygienic Control Valve



TD_391

Weight and dimensions

Type: 391-...-L (RG)	Type: 391-...-L (SS)	Type: 391-...-B (RG)	Type: 391-...-B (SS)
Type: 391-P3-B...(RG)	Type: 391-P3-B...(SS)	Type: 391-...-W...(RG)	Type: 391-...-W...(SS)

SS = welded ends for piping compliant to DIN 11850 / RG = round thread connections compliant to DIN 11851

With integrated ARCA positioners type 824 and 827 (standard); other positioners available on request.

DN	Actuator	Stroke	ØD	H	HV	R	B	F	F1	F2	F3	A	A1	A2	AM ¹⁾	C	C1	Weight
25	MFI-20	20	270	325	530	270	25	90	119	58	87	87	102	137	30	50	65	13.5
40	MFI-20	20	270	325	530	270	31	90	123	64	97	109	157	171	30	62	114	23.0
50	MFI-20	20	270	325	530	270	37	90	125	70	105	126	186	200	30	74	134	23.0
65	MFI-30 MFIII-30	30	270 400	355 387	573 651	270 400	48	125	165	83	123	154	234	250	40	96	171	23.0 38.0
80	MFI-30 MFIII-30	30	270 400	355 387	573 651	270 400	55.5	125	170	90.5	135.5	175	251	286	40	111	186	24.0 39.0
100	MFI-30 MFIII-30	30	270 400	355 387	573 651	270 400	65	125	179	100	154	205	295	335	40	130	215	27.0 42.0
125	MFIII-60	60	400	510	888	400	77.5	150	--	112.5	---	245	415	400	70	155	325	61.0

1) Dimension AM with double guide only.

2) Weights refer to 391-P1-L angle valves with round thread connections (excluding DN 125 with welded ends) and actuator without positioner.

Maximum permissible differential pressures Δp (bar), flow against the closing direction of the plug.

The differential pressures listed do not apply to valves with V-ring sealing element.

DN	25	to	DN	50	=	25	bar
DN	65	to	DN	100	=	20	bar
DN	125	to	DN	150	=	10	bar

Technical Data Sheet BIOVENT® Hygienic Control Valve



TD_391

Type codes

	39	1	-P L M T	1 3	-L B W T E	M O
Series						
1 = hygienic design						
P = parabolic plug						
L = perforated plug						
M = mixer						
T = divider						
1 = 1-stage						
3 = 3-stage						
Does not apply to mixer and divider						
Housing design L						
Housing design B						
Housing design W						
Housing design T						
Housing design E						
M = removable floor panel with guide						
O = removable floor panel without guide						

Possible housing designs

