

VU120 Smoke Dampers with Multiple Compartment



Description

Smoke dampers with single blade made according to the European Standard EN 12101-8 and tested according to the EN 1366-10 Standard. VU 120 has a fire resistance up to 120 minutes. EI 120 (ved i ↔ o) S 1500 AA Multi, EI 120 (hod i ↔ o) S 1500 AA Multi.

Characteristics

Pressure tested up to 1500 Pa 30 mm thick refractory blade. Heat-expanding perimeter seal. Standard connection on both sides with 30 mm flanges. 350 mm case. Intermediate dimensions on request. Optimised free surface and minimal pressure drop. Does not require maintenance. For indoor use. Operating temperature: max 50°C. 2 microswitches (one start and one end switch) already installed.

Use

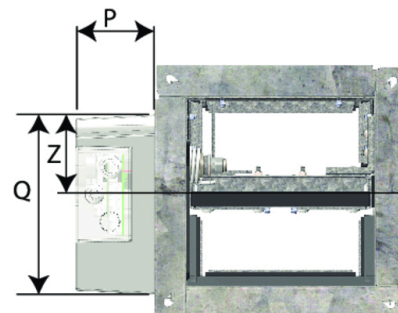
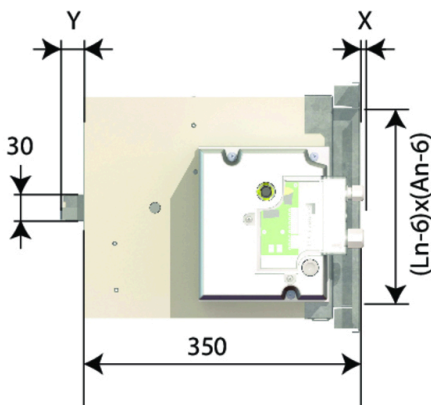
It is normally called a smoke control damper and it is an integral part of the smoke and heat evacuation system. It is used in ventilation systems to prevent the propagation of smoke through the ventilation system and/or to convey smoke produced by a fire outside the building. In fact, in the event of a fire, it must ensure the proper evacuation of smoke so that the escape routes are clear and personnel can evacuate the building. In the event of an emergency, the smoke damper can open to let the smoke out or close to prevent the propagation of smoke through the ventilation system.

Standard Version

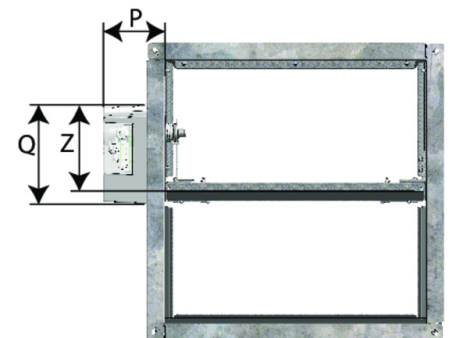
- With Belimo servomotor drive with spring return: code VU120 + NF/SF 24V.
- With Belimo servomotor drive without spring return: code VU120 + BEN 24V.

Versions on Request

- With electromagnet drive normally energised: code VU120 + MANF 24/48V VM FDCU.
- With electromagnet drive normally de-energised: code VU120 + MANF 24/48V VD FDCU.



$A_n < 300\text{mm}$



$A_n \geq 300\text{mm}$

Dimensions

x: blade coming out on servomotor side.
y: blade coming out on wall side.

An(mm)	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
x (mm)								9	34	59	84	109	134	159	184	209	234
y (mm)	4	29	54	79	104	129	154	179	204	229	254	279	304	329	354	379	404

	An < 300mm (mm)				An ≥ 300mm (mm)			
	MANF	NF	SF	BLE	MANF	NF	SF	BLE
P (mm)	115	85	85	110	115	85	85	110
Q (mm)	190	100	100	110	190	100	100	110
Z (mm)	85	105	105	85	180	105	105	180

VU120 + NF / SF 24V Price List

a.r. : price on request

	base (mm)										
Height	200	250	300	350	400	450	500	550	600	650	700
mm	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur
200	916,90	925,51	934,18	942,82	951,45	960,09	968,72	977,45	986,08	994,71	1.003,28
250	926,15	935,49	944,66	953,98	963,13	972,49	981,65	990,91	1.000,25	1.009,51	1.018,76
300	935,49	945,33	955,28	965,06	974,99	984,77	994,79	1.004,47	1.014,40	1.024,32	1.034,25
350	944,77	955,34	967,19	976,24	986,59	997,17	1.007,65	1.018,14	1.028,63	1.039,12	1.049,61
400	954,06	965,10	976,30	987,31	998,45	1.009,53	1.020,61	1.031,70	1.042,79	1.053,88	1.064,97
450	963,32	975,14	986,73	998,51	1.010,17	1.021,99	1.033,81	1.045,63	1.057,45	1.069,27	1.081,09
500	972,67	984,87	997,42	1.009,67	1.021,99	1.034,31	1.046,63	1.058,95	1.071,27	1.083,59	1.095,91
550	981,91	994,98	1.007,79	1.020,71	1.033,63	1.046,55	1.059,47	1.072,39	1.085,31	1.098,23	1.111,15
600	991,39	1.004,81	1.018,31	1.031,81	1.045,31	1.058,81	1.072,31	1.085,81	1.099,31	1.112,81	1.126,31
650	1.000,69	1.014,81	1.028,89	1.042,97	1.057,05	1.071,13	1.085,21	1.099,29	1.113,37	1.127,45	1.141,53
700	1.009,82	1.024,61	1.039,40	1.054,19	1.068,98	1.083,77	1.098,56	1.113,35	1.128,14	1.142,93	1.157,72
750	1.019,16	1.034,66	1.049,16	1.064,66	1.079,16	1.094,66	1.109,16	1.124,66	1.139,16	1.154,66	1.169,16

	base (mm)									
Height	750	800	850	900	950	1000	1050	1100	1150	1200
mm	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur
200	1.011,99	1.020,69	1.029,23	1.037,92	1.046,68	1.078,36	1.086,95	1.095,66	1.104,33	1.112,87
250	1.028,00	1.060,38	1.069,58	1.078,92	1.088,13	1.097,44	1.106,67	1.115,97	1.125,12	1.134,40
300	1.067,11	1.076,98	1.086,95	1.096,76	1.106,57	1.116,47	1.126,41	1.136,18	1.146,06	1.156,04
350	1.083,16	1.093,67	1.104,13	1.114,61	1.125,06	1.135,69	1.145,96	1.156,49	1.190,09	1.200,62
400	1.099,19	1.110,26	1.121,36	1.132,48	1.143,57	1.177,72	1.188,86	1.199,89	1.211,05	1.222,02
450	1.115,21	1.126,84	1.138,60	1.173,39	1.185,07	1.196,84	1.208,48	1.220,26	1.231,88	1.243,58
500	1.131,21	1.166,62	1.179,02	1.191,20	1.203,58	1.215,85	1.228,18	1.357,91	1.370,23	1.405,70
550	1.170,34	1.183,21	1.196,17	1.326,52	1.339,45	1.352,51	1.365,34	1.401,31	1.414,23	1.427,21
600	1.186,33	1.317,24	1.330,83	1.344,53	1.357,99	1.394,60	1.408,04	1.421,62	1.435,24	1.448,70
650	1.319,75	1.333,94	1.348,12	1.362,21	1.399,40	1.218,90	1.427,83	1.441,97	1.456,07	1.470,26
700	1.335,84	1.350,67	1.365,41	1.403,21	1.417,96	1.432,71	1.447,52			
750	1.351,93	1.390,38	1.405,59	1.421,08	1.436,49					

Price List VU120 + BEN 24V

a.r. : price on request

	base (mm)										
Height	200	250	300	350	400	450	500	550	600	650	700
mm	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur
200	881,04	889,65	898,30	906,94	915,57	924,21	932,84	941,57	950,19	958,83	967,40
250	890,27	899,63	908,80	918,10	927,27	936,62	945,76	955,05	964,39	973,63	982,88
300	899,63	909,44	919,42	929,18	939,13	948,91	958,91	968,61	978,52	988,46	1.021,39
350	908,91	919,48	929,90	940,38	950,73	961,29	971,77	982,26	1.015,86	1.026,37	1.036,73
400	918,18	929,22	940,42	951,45	962,59	973,65	1.007,85	1.018,97	1.030,05	1.041,08	1.052,22
450	927,43	939,30	950,85	962,66	974,29	1.009,11	1.020,90	1.032,57	1.044,21	1.055,87	1.067,61
500	936,81	949,01	961,53	973,81	1.009,22	1.021,50	1.033,83	1.046,09	1.058,34	1.070,75	1.083,04
550	946,05	959,11	971,91	984,83	1.020,94	1.033,83	1.046,68	1.059,70	1.072,70	1.085,52	1.098,46
600	955,53	968,95	982,45	1.019,14	1.032,70	1.046,16	1.059,70	1.073,18	1.086,88	1.100,36	1.136,95
650	964,81	978,95	993,02	1.030,28	1.044,38	1.058,46	1.072,78	1.086,88	1.101,03	1.138,23	1.152,81
700	973,96	988,74	1.026,68	1.041,35	1.056,18	1.070,92	1.085,71	1.100,40	1.138,29	1.153,08	1.140,71
750	983,30	998,81	1.037,19	1.052,49	1.067,89	1.083,31	1.098,67	1.137,12	1.152,43	1.167,73	1.183,21
800	992,68	1.031,64	1.047,71	1.063,73	1.079,55	1.095,64	1.134,75	1.150,28	1.166,66	1.182,65	1.198,59
850	1.001,94	1.041,66	1.058,21	1.074,81	1.091,29	1.107,98	1.147,73	1.164,24	1.180,81	1.197,42	1.214,01
900	1.011,26	1.051,54	1.068,75	1.085,95	1.103,24	1.143,49	1.160,61	1.177,88	1.194,96	1.212,26	1.252,54
950	1.020,65	1.061,39	1.079,20	1.097,03	1.114,94	1.155,77	1.173,58	1.191,40	1.209,33	1.250,10	1.267,97
1000	1.052,95	1.071,46	1.089,87	1.108,28	1.149,72	1.168,15	1.186,54	1.205,03	1.246,46	1.264,92	1.283,31

	base (mm)									
Height	750	800	850	900	950	1000	1050	1100	1150	1200
mm	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur	Eur
200	976,11	984,81	993,34	1.002,04	1.010,80	1.042,50	1.051,09	1.059,80	1.068,48	1.077,00
250	992,14	1.024,50	1.033,72	1.043,05	1.052,26	1.061,58	1.070,82	1.080,09	1.089,26	1.098,54
300	1.031,25	1.041,10	1.051,09	1.060,88	1.089,22	1.080,61	1.090,52	1.100,32	1.110,18	1.120,17
350	1.047,30	1.057,82	1.068,27	1.078,75	1.089,22	1.099,80	1.110,10	1.120,61	1.154,23	1.164,74
400	1.063,32	1.074,40	1.085,50	1.096,62	1.107,69	1.141,86	1.153,00	1.164,01	1.175,17	1.186,16
450	1.079,34	1.090,98	1.102,74	1.137,53	1.149,19	1.160,98	1.172,60	1.184,40	1.196,00	1.207,72
500	1.095,35	1.130,76	1.143,14	1.155,32	1.167,71	1.179,99	1.192,31	1.204,59	1.216,89	1.252,38
550	1.134,46	1.147,34	1.160,31	1.173,20	1.186,12	1.199,18	1.212,03	1.247,99	1.260,91	1.273,86
600	1.150,49	1.163,93	1.177,51	1.191,22	1.204,67	1.241,28	1.254,72	1.268,30	1.281,90	1.295,38
650	1.166,43	1.180,60	1.194,77	1.208,90	1.246,09	1.260,41	1.274,51	1.288,63	1.302,76	1.316,93
700	1.182,52	1.197,34	1.212,09	1.249,87	1.264,64	1.279,40	1.294,21	1.308,92	1.346,77	1.361,50
750	1.198,61	1.237,06	1.252,27	1.267,76	1.283,16	1.298,53	1.313,81	1.352,36	1.367,68	1.383,06
800	1.237,74	1.253,60	1.269,56	1.285,65	1.301,57	1.340,60	1.356,65	1.372,55	1.388,62	1.404,58
850	1.253,66	1.270,20	1.286,85	1.303,43	1.343,09	1.359,72	1.376,27	1.392,97	1.409,47	
900	1.269,66	1.286,90	1.304,14	1.344,35	1.361,60	1.378,76	1.395,97	1.413,19		
950	1.285,75	1.303,62	1.344,43	1.362,21	1.380,03	1.397,92	1.415,70			
1000	1.301,78	1.343,25	1.361,79	1.380,17	1.398,55	1.416,96				