

Air through perfection

Shut-off damper for actuator

RD-5



ACP
Airflow regulation dampers

Shut-off damper for actuator RD-S



Description

RD-S is a circular adjusting damper with sealing gasket and mechanism for actuator.

The circular damper is used to regulate the air flow on the branches of ventilation and air conditioning systems.

Technical specifications

Characteristics

The damper is equipped with an inner blade, a sealing gasket and a mechanism for connecting the servomotor.

For a good seal the damper is equipped with a rubber gasket at both ends and on the inner blade.

The positioning of the servomotor on the damper body is longitudinal.

Mounting the servomotor on the support plate is easy.

When the air pressure exceeds 2000Pa the damper closure can be deflected by up to 2cm.

For outdoor installations, the servomotor must be protected from UV light and weather.

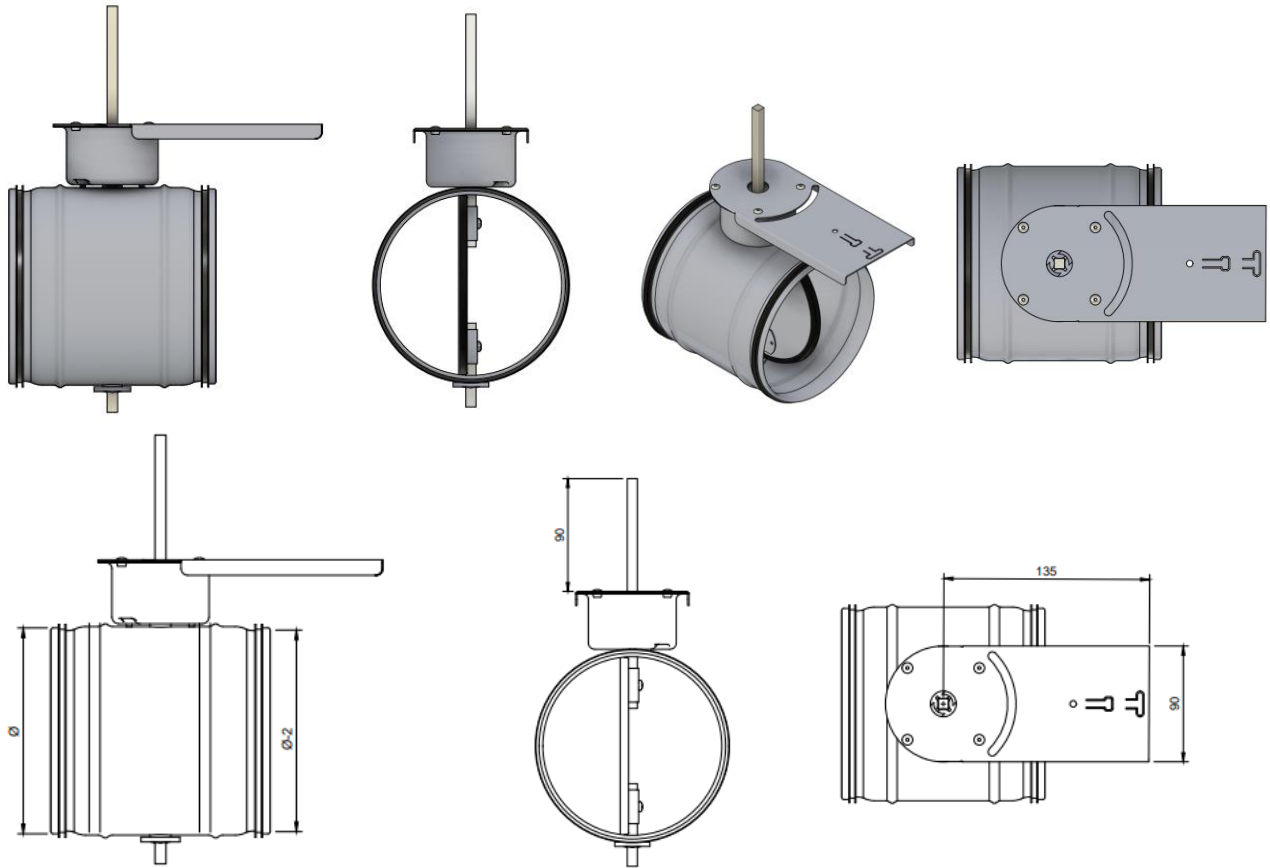
The actuator mounted on the damper allows the application of insulation with thickness of up to 50 mm.

Dimensional range: $\varnothing 100$, $\varnothing 125$, $\varnothing 160$, $\varnothing 200$, $\varnothing 250$, $\varnothing 315$, $\varnothing 355$, $\varnothing 400$, $\varnothing 450$, $\varnothing 500$, $\varnothing 560$, $\varnothing 630$.

Materials

The product is made of galvanized steel sheet (housing, mechanism and blade) and rubber gasket.

Technical drawing



Belimo servomotor

The product can be delivered with Belimo servomotor. The servomotor is selected according to the damper size, supply voltage, safety function and other technical specifications mentioned in the project.



Functional parameters

Ø [mm]	Air flow [m ³ /h]	Veff [m/s]	α = 15°		α = 30°		α = 45°		α = 60°	
			ΔPt [Pa]	NR [db(A)]	ΔPt [Pa]	NR [db(A)]	ΔPt [Pa]	NR [db(A)]	ΔPt [Pa]	NR [db(A)]
100	53	2	3	6	8	14	36	25	194	41
	105	4	12	25	34	33	145	44	774	59
	158	6	26	36	76	39	327	55	1742	62
	211	8	46	43	136	52	581	63	3098	78
	263	10	73	49	212	58	908	69	4840	84
	316	12	105	54	305	63	1307	73	6970	88
125	83	2	3	7	8	16	36	27	194	42
	167	4	12	26	34	35	145	46	774	61
	250	6	26	37	76	46	327	57	1742	72
	334	8	46	45	136	46	581	64	3098	72
	417	10	73	51	212	60	908	71	4840	85
	501	12	105	56	305	65	1307	75	6970	90
160	139	2	3	9	8	18	36	29	194	44
	277	4	12	28	34	37	145	48	774	63
	416	6	26	39	76	48	327	59	1742	74
	554	8	46	47	136	56	581	66	3098	82
	693	10	73	53	212	62	908	72	4840	88
	831	12	105	58	305	67	1307	77	6970	92
200	218	2	3	11	8	19	36	31	194	46
	436	4	12	30	34	38	145	50	774	65
	654	6	26	41	76	50	327	60	1742	76
	872	8	46	49	136	57	581	68	3098	84
	1091	10	73	55	212	63	908	74	4840	89
	1309	12	105	60	305	68	1307	79	6970	94
250	342	2	3	12	8	21	36	32	194	48
	684	4	12	31	34	40	145	51	774	66
	1027	6	26	43	76	51	327	62	1742	78
	1369	8	46	50	136	59	581	70	3098	85
	1711	10	73	57	212	65	908	76	4840	91
	2053	12	105	61	305	70	1307	81	6970	96
315	546	2	3	14	8	23	36	34	194	49
	1092	4	12	33	34	42	145	53	774	68
	1639	6	26	44	76	53	327	64	1742	79
	2185	8	46	52	136	61	581	72	3098	87
	2731	10	73	58	212	67	908	78	4840	93
	3277	12	105	63	305	72	1307	83	6970	98
400	884	2	3	16	8	24	36	36	194	51
	1768	4	12	35	34	44	145	55	774	70
	2652	6	26	46	76	55	327	66	1742	81
	3536	8	46	54	136	63	581	74	3098	89
	4420	10	73	60	212	69	908	80	4840	95
	5305	12	105	65	305	74	1307	85	6970	100

The legend

Veff [m/s] - The speed of the air through the damper

α [°] - The opening angle of the damper

NR [dB (A)] - Noise level without room attenuation

ΔPt [Pa] - Pressure loss

Order code

Example on how to place an order

Type	Dimensions	Accessories
RD-S	Ø100 ... Ø630 mm	Servomotor BELIMO