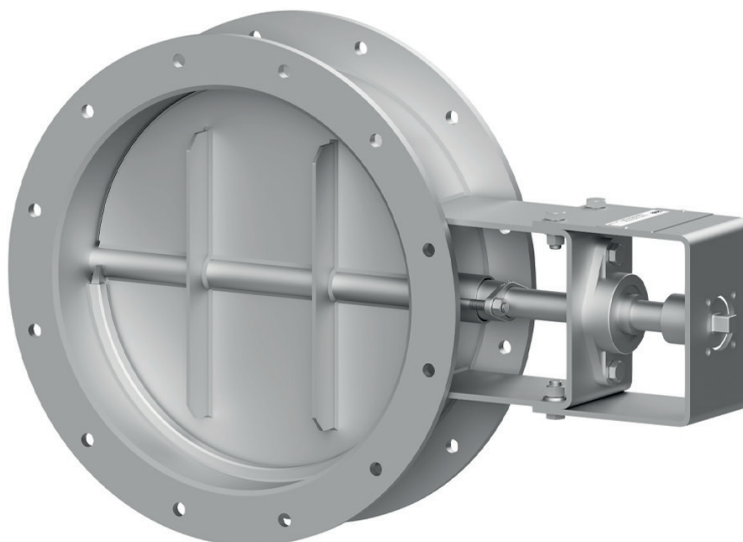


Butterfly Damper S150

APPLICATIONS

Used in an industrial system to control the flow within a duct or chimney. It regulates and controls the volume of flue gases passing through the system, such as in a combustion furnace, heating plant, or smelting plant.

Suitable for both clean gases and gases with a high particulate content. For temperature regulation and emission control. To optimize and ensure combustion. To meet environmental standards.



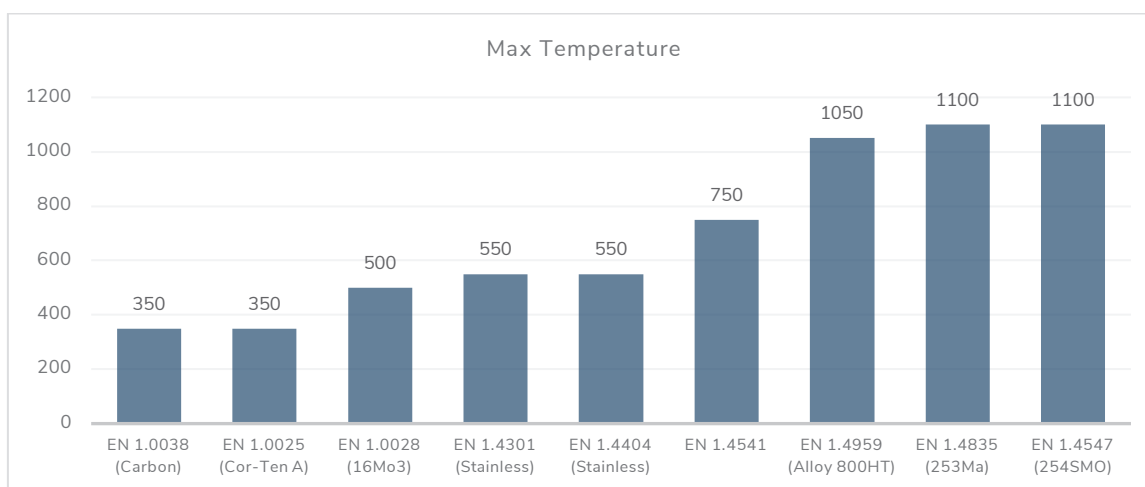
TECHNICAL DESCRIPTION

Durable and reliable structure. A solid through-shaft with the blade securely welded throughout its length and reinforced by blade stiffeners. No threaded components within the duct to prevent potential issues over time. With a fixed plain bearing on one side, this model optimizes space utilization to the fullest.

- Stainless steel stuffing box and ball bearings in S235 as standard.
- The choice of materials for the housing, blades, and flanges depends on several factors, such as temperature, corrosive environments, or wear.
- Materials can be mixed, for example, different materials for the housing and blades.
- Blade sealing available in, for example, steel vs steel, PTFE, Fiberglass, Silicone.
- Flanges are manufactured according to your specifications or using known standards in the market.
- We design according to your needs, in almost all alloys.

Customizations		Capacity	
-M (Marine)	Customization for marine use	Temperature	< 1100°C
-D (Double)	Air sealing, see datasheet "Damper Air Sealing"	Size	DN100 - 3000
-DT (Double Tandem)	Air sealing, see datasheet "Damper Air Sealing"		
-HT (High Temp)	Adapted for high temperatures		
-R (Refractory / Lined)	Lined internally for high temperatures		
-T (Tee)	Two dampers built into a diverter		

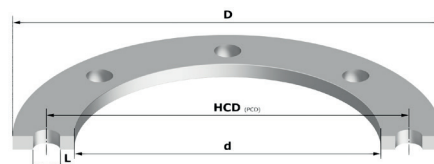
MAX TEMPERATURE – A selection of our material



SEALING MATERIALS

Material	Chemical properties			Physical properties		Temp. Range	
	Weather & Ozone	Hot water, steam, weak acid, Alkalies	Strong acids & Oxidizing acids	Wear resistance	Tensile strength Kp/cm ²	Highest °C dry	Lowest °C
Nitrile / NBR	Fair	Good	Fair	Good	100-250	+140	-60
Rubber / EPDM	Excellent	Excellent	Good	Good	70-180	+150	-50
Fluorine / VITON	Excellent	Excellent	Good	Good	150-200	+240	-45
Silicone / SI	Excellent	Fair	Poor	Poor	40-100	+275	-100
Fluorine / PTFE	Excellent	Excellent	Good	Good		+260	-200
Butyl / IIR	Good	Excellent	Good	Fair	100-180	+140	-50
E-glass	Excellent	Excellent	Excellent	Excellent		+550	-50
Ceramic fibre / Inconel	Excellent	Excellent	Excellent	Excellent		+1250	-50

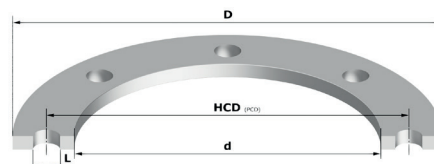




FLANGE S235

Material: Carbon (SS1312). EN standard = SS-EN 10 025 - S235JRG2 (1.0038)

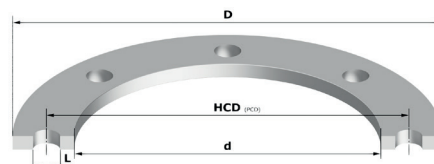
DN	Flat iron	Ring	d	PCD	D	No. Holes (N)	Hole diam. (L)
100	30 x 6	30 x 6	110	142	170	4	12
125	30 x 6	30 x 6	135	167	195	4	12
150	40 x 6	40 x 6	160	202	240	8	12
175	40 x 6	40 x 6	185	227	265	8	12
200	40 x 6	40 x 6	210	252	290	8	12
250	40 x 6	40 x 6	260	302	340	8	12
300	40 x 6	40 x 6	310	352	390	12	14
350	40 x 6	40 x 6	360	402	440	12	14
400	50 x 10	50 x 10	410	465	510	12	14
450	50 x 10	50 x 10	460	515	560	12	14
500	50 x 10	50 x 10	510	565	610	12	14
550	50 x 10	50 x 10	564	615	664	16	18
600	50 x 10	50 x 10	614	665	714	16	18
650	50 x 10	50 x 10	664	715	764	16	18
700	60 x 12	50 x 10	714	778	834	16	18
750	60 x 12	50 x 10	764	828	884	16	18
800	60 x 12	50 x 10	814	880	934	20	18
850	60 x 12	50 x 10	864	930	984	20	18
900	60 x 12	50 x 10	914	980	1034	20	18
950	60 x 12	50 x 10	964	1030	1084	20	18
1000	60 x 12	50 x 10	1014	1080	1134	24	18
1050	60 x 12	50 x 10	1068	1130	1188	24	18
1100	60 x 12	50 x 10	1118	1180	1238	24	18
1150	60 x 12	50 x 10	1168	1230	1288	24	18
1200	60 x 12	50 x 10	1218	1280	1338	28	18
1250	60 x 12	50 x 10	1268	1330	1388	32	18
1300	60 x 12	50 x 10	1318	1380	1438	32	18
1350	60 x 12	50 x 10	1368	1430	1488	32	18
1400	60 x 12	50 x 10	1418	1480	1538	36	18
1450	60 x 12	50 x 10	1468	1530	1588	36	18
1500	60 x 15	60 x 12	1518	1580	1638	40	18
1550	60 x 15	60 x 12	1568	1630	1688	40	18
1600	60 x 15	60 x 12	1618	1680	1738	40	18
1650	60 x 15	60 x 12	1668	1730	1788	40	18
1700	60 x 15	60 x 12	1718	1780	1838	44	18
1750	60 x 15	60 x 12	1768	1830	1888	44	18
1800	60 x 15	60 x 12	1818	1880	1938	44	18
1850	60 x 15	60 x 12	1868	1930	1988	44	18
1900	60 x 15	60 x 12	1918	1980	2038	48	18
1950	60 x 15	60 x 12	1968	2030	2088	48	18
2000	60 x 15	60 x 12	2018	2080	2138	52	18



FLANGE STAINLESS

Material: Stainless (SS2333). EN standard = SS-EN 10 0250-4 - EN 1,4301

DN	Flat iron	Ring	d	PCD	D	No. Holes (N)	Hole diam. (L)
100	30 x 6	30 x 6	110	142	170	4	12
125	30 x 6	30 x 6	135	167	195	4	12
150	40 x 6	40 x 6	160	202	240	8	12
175	40 x 6	40 x 6	185	227	265	8	12
200	40 x 6	40 x 6	210	252	290	8	12
250	40 x 6	40 x 6	260	302	340	8	12
300	40 x 6	40 x 6	310	352	390	12	14
350	40 x 6	40 x 6	360	402	440	12	14
400	50 x 8	50 x 8	410	465	510	12	14
450	50 x 8	50 x 8	460	515	560	12	14
500	50 x 8	50 x 8	510	565	610	12	14
550	50 x 8	50 x 8	562	615	662	16	18
600	50 x 8	50 x 8	612	665	712	16	18
650	50 x 8	50 x 8	662	715	762	16	18
700	60 x 10	50 x 8	712	778	832	16	18
750	60 x 10	50 x 8	762	828	882	16	18
800	60 x 10	50 x 8	812	880	932	20	18
850	60 x 10	50 x 8	862	930	982	20	18
900	60 x 10	50 x 8	912	980	1032	20	18
950	60 x 10	50 x 8	962	1030	1082	20	18
1000	60 x 10	50 x 8	1012	1080	1132	24	18
1050	60 x 10	50 x 8	1064	1130	1184	24	18
1100	60 x 10	50 x 8	1114	1180	1234	24	18
1150	60 x 10	50 x 8	1164	1230	1284	24	18
1200	60 x 10	50 x 8	1214	1280	1334	28	18
1250	60 x 10	50 x 8	1264	1330	1384	32	18
1300	60 x 10	50 x 8	1314	1380	1434	32	18
1350	60 x 10	50 x 8	1364	1430	1484	32	18
1400	60 x 10	50 x 8	1414	1480	1534	36	18
1450	60 x 10	50 x 8	1464	1530	1584	36	18
1500	60 x 12	60 x 10	1514	1580	1634	40	18
1550	60 x 12	60 x 10	1464	1630	1684	40	18
1600	60 x 12	60 x 10	1614	1680	1734	40	18
1650	60 x 12	60 x 10	1664	1730	1784	40	18
1700	60 x 12	60 x 10	1714	1780	1834	44	18
1750	60 x 12	60 x 10	1764	1830	1884	44	18
1800	60 x 12	60 x 10	1814	1880	1934	44	18
1850	60 x 12	60 x 10	1864	1930	1984	44	18
1900	60 x 12	60 x 10	1914	1980	2034	48	18
1950	60 x 12	60 x 10	1964	2030	2084	48	18
2000	60 x 12	60 x 10	2014	2080	2134	52	18



FLANGE ACID RESISTANT

Material: Stainless (SS2348). EN standard = SS-EN 10 088-2,-3 - EN 1,4404

DN	Flat iron	Ring	d	PCD	D	No. Holes (N)	Hole diam. (L)
100	30 x 6	30 x 6	110	142	170	4	12
125	30 x 6	30 x 6	135	167	195	4	12
150	40 x 6	40 x 6	160	202	240	8	12
175	40 x 6	40 x 6	185	227	265	8	12
200	40 x 6	40 x 6	210	252	290	8	12
250	40 x 6	40 x 6	260	302	340	8	12
300	40 x 6	40 x 6	310	352	390	12	14
350	40 x 6	40 x 6	360	402	440	12	14
400	50 x 8	50 x 8	410	465	510	12	14
450	50 x 8	50 x 8	460	515	560	12	14
500	50 x 8	50 x 8	510	565	610	12	14
550	50 x 8	50 x 8	562	615	662	16	18
600	50 x 8	50 x 8	612	665	712	16	18
650	50 x 8	50 x 8	662	715	762	16	18
700	60 x 10	50 x 8	712	778	832	16	18
750	60 x 10	50 x 8	762	828	882	16	18
800	60 x 10	50 x 8	812	880	932	20	18
850	60 x 10	50 x 8	862	930	982	20	18
900	60 x 10	50 x 8	912	980	1032	20	18
950	60 x 10	50 x 8	962	1030	1082	20	18
1000	60 x 10	50 x 8	1012	1080	1132	24	18
1050	60 x 10	50 x 8	1064	1130	1184	24	18
1100	60 x 10	50 x 8	1114	1180	1234	24	18
1150	60 x 10	50 x 8	1164	1230	1284	24	18
1200	60 x 10	50 x 8	1214	1280	1334	28	18
1250	60 x 10	50 x 8	1264	1330	1384	32	18
1300	60 x 10	50 x 8	1314	1380	1434	32	18
1350	60 x 10	50 x 8	1364	1430	1484	32	18
1400	60 x 10	50 x 8	1414	1480	1534	36	18
1450	60 x 10	50 x 8	1464	1530	1584	36	18
1500	60 x 12	60 x 10	1514	1580	1634	40	18
1550	60 x 12	60 x 10	1464	1630	1684	40	18
1600	60 x 12	60 x 10	1614	1680	1734	40	18
1650	60 x 12	60 x 10	1664	1730	1784	40	18
1700	60 x 12	60 x 10	1714	1780	1834	44	18
1750	60 x 12	60 x 10	1764	1830	1884	44	18
1800	60 x 12	60 x 10	1814	1880	1934	44	18
1850	60 x 12	60 x 10	1864	1930	1984	44	18
1900	60 x 12	60 x 10	1914	1980	2034	48	18
1950	60 x 12	60 x 10	1964	2030	2084	48	18
2000	60 x 12	60 x 10	2014	2080	2134	52	18