

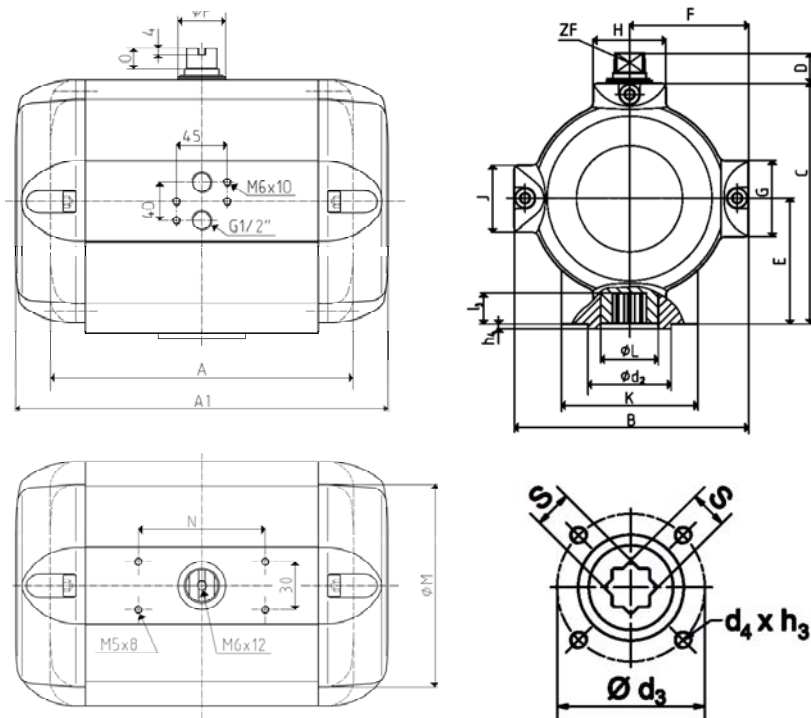
DOUBLE-PISTON QUARTER TURN ACTUATORS

TYPE SAD / SAF BR03 90°

Size	45
Weight [kg]	
Type SAD	75,0
Type SAF	102
Stroke volume [dm³]	
Type SAD	25,6
Type SAF	14,7
Operating times [sec.] ¹⁾	
Type SAD OPEN	4,0
Type SAD CLOSE	4,0
Type SAF ²⁾ OPEN	7,0
Type SAF ²⁾ CLOSE	3,0

1) operating times at 4,5 bar air pressure supply without load (standard values)

2) Type SAF with 9 springs



Design	SAD / SAF
Size	45
A (double-acting)	475
A1 (single-acting)	695
B	330
C	337
D	30
E	175
F	165
G	84
H	125
K	150
Ø L	106
J	84
Ø M	292
N	130
O	18
Ø P	90
ZF	46
Connection ISO 5211	F16
Ø d2	130
Ø d3	165
d4 x h3	M20x32
number of bolts	4
h4	5
l3	50
s	46

Type	number of springs n	spring-torque		air torque Ma [Nm] at operating pressure pe [bar]																												
				2 bar		2,5 bar		3 bar		3,5 bar		4 bar		4,5 bar		5 bar		5,5 bar		6 bar		6,5 bar		7 bar		7,5 bar		8 bar				
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX			
SAD 45	-	-		893		1156		1419		1674		1934		2199		2457		2717		2980		3245		3495		3744		3994				
SAF 45	4	352	585	308	541	571	804	834	1067	1089	1322	1349	1582	1614	1847	1872	2105	2132	2365	2395	2628	2660	2893	2910	3143	3159	3392	3409	3642			
	5	440	732	161	453	424	716	687	979	942	1234	1202	1494	1467	1759	1725	2017	1985	2277	2248	2540	2513	2805	2763	3055	3012	3304	3262	3554			
	6	528	878			278	628	541	891	796	1146	1056	1406	1321	1671	1579	1929	1839	2189	2102	2452	2367	2717	2617	2967	2866	3216	3116	3466			
	7	616	1025			131	540	394	803	649	1058	909	1318	1174	1583	1432	1841	1692	2101	1955	2364	2220	2629	2470	2879	2719	3128	2969	3378			
	8	705	1171					248	714	503	969	763	1229	1028	1494	1286	1752	1546	2012	1809	2275	2074	2540	2324	2790	2573	3039	2823	3289			
	9	793	1317					102	626	357	881	617	1141	882	1406	1140	1664	1400	1924	1663	2187	1928	2452	2178	2702	2427	2951	2677	3201			
	10	881	1464							210	793	470	1053	735	1318	993	1576	1253	1836	1516	2099	1781	2364	2031	2614	2280	2863	2530	3113			
	11	969	1610							64	705	324	965	589	1230	847	1488	1107	1748	1370	2011	1635	2276	1885	2526	2134	2775	2384	3025			
	12	1057	1756									178	877	443	1142	701	1400	961	1660	1224	1923	1489	2188	1739	2438	1988	2687	2238	2937			
	Sonderausführung																															
	13	1145	1908												291	1054	549	1312	809	1572	1072	1835	1337	2100	1587	2350	1836	2599	2086	2849		
	14	1233	2049												150	966	408	1224	668	1484	931	1747	1196	2012	1446	2262	1695	2511	1945	2761		

SUBJECT TO TECHNICAL MODIFICATION



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