

P520 VAR 00

Pneumatic Single Disc Brake

Characteristics

- Pneumatically released
- Single disc
- Activated by spring pressure

Utilisation

- Braking a shaft
- Holding a load

Particularities

- For dry use
- No residual torque in disengaged position
- Fast response time

Adjustments

- Airgap "T" should be adjusted at installation
- Requires wear compensation for dynamic applications

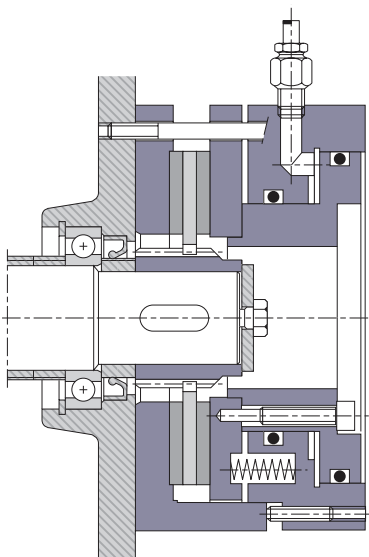
Maintenance Manual

- SM 318

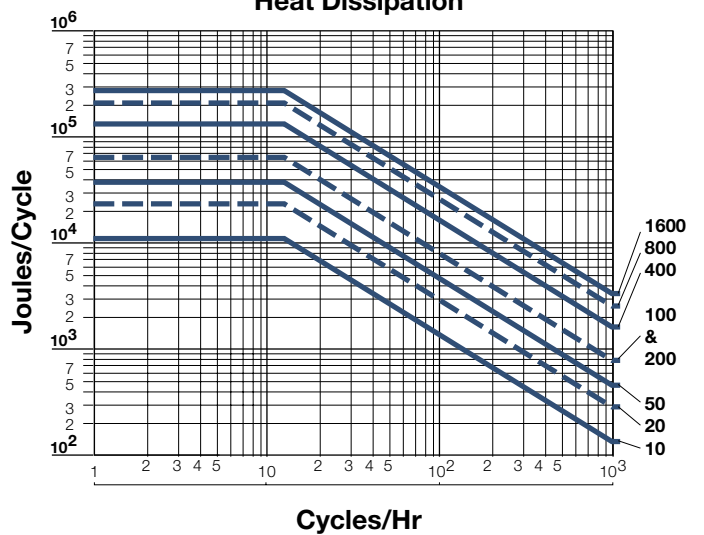
Mounting Precautions

- Device intended for horizontal use. For vertical use, please consult the factory.

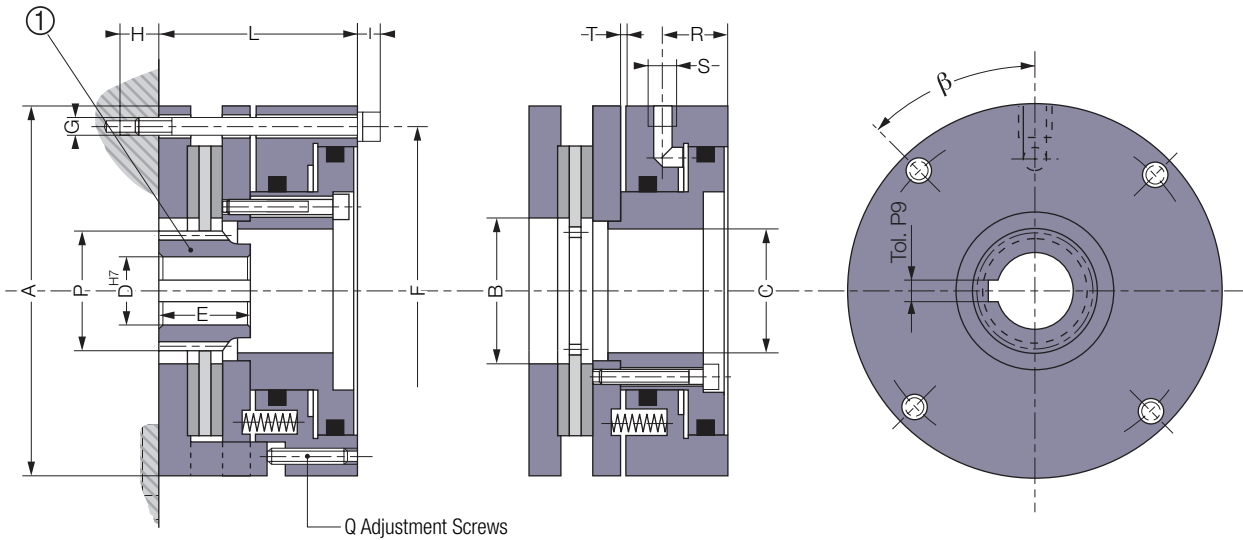
Mounting Example



Heat Dissipation



Pneumatic Single Disc Brake



Sizes		10	20	50	100	200	400	800	1600
Nom. Torque	[Nm]	10	20	50	100	200	400	800	1600
Max. Speed	[min ⁻¹]	6800	5000	4150	3200	2600	22000	1700	1500
Operating Pressure	[bar]	6	6	6	6	6	5	5	5
	A	90	120	150	190	220	265	320	395
	B	46	52	60	80	95	120	155	210
	C	32	40	54	70	82	98	124	168
	D min	10	14	18	22	28	30	35	50
	D max	22	25	35	40	55	65	80	110
	E	20	25	35	40	55	60	70	100
	F	80	105	130	165	200	240	294	360
	G	4xM6	4xM6	4xM8	4xM10	4xM10	4xM12	4xM12	4xM16
	H min	11	16	16	17	20	23	28	24
	I	8	8	10,5	13	13	15,5	15,5	20
	L	50	67	85	95	102	110	126	160
	Q	3xM6	4xM6	4xM8	4xM8	4xM10	4xM12	4xM16	4xM16
	R	18	24	29	28	35	37	42	50
	S	Rp 1/8"	Rp 1/8"	Rp 1/4"	Rp 1/4"	Rp 1/4"	Rp 3/8"	Rp 3/8"	Rp 3/8"
	β	45°	45°	45°	45°	80°	80°	80°	80°
Airgap	[T] min	0,2	0,2	0,3	0,3	0,3	0,4	0,4	0,5
Pressure Angle	[α]	20°	20°	20°	20°	20°	20°	20°	20°
Number of Teeth	[Z]	19	25	34	33	31	37	39	53
Module	[m]	1,667	1,5	1,5	2	2,5	2,5	3	3
Pitch	[Dp]	31,667	37,5	51	66	77,5	95,5	117	159
Outside Diameter	[P]	34,7	39	52,5	68	80	95	120	162
Dimension on K teeth		13,49	11,595	16,21	21,59	26,92	34,38	41,34	50,786
K Teeth	[K]	3	3	4	4	4	5	5	6
Stroke Volume	[cm ³]	8	13	19	31	59	91	143	266
Inertia	① [kgm ²]	0,0002	0,0003	0,0011	0,0033	0,0073	0,0165	0,0461	0,1255
Weight	[kg]	2,1	4,2	8,5	15,5	22,5	36	58	110
Connection		Radiale							

Keyways according to
ISO/R 773 / BS 4235 / DIN 6885-1 / NF E 22-175, tolerance P9