P520 VAR 00

Pneumatic Single Disc Brake

Characteristics
- Pneumatically released
- Single disc
- Activated by spring pressure

Utilisation
- Braking a shaft
- Holding a load

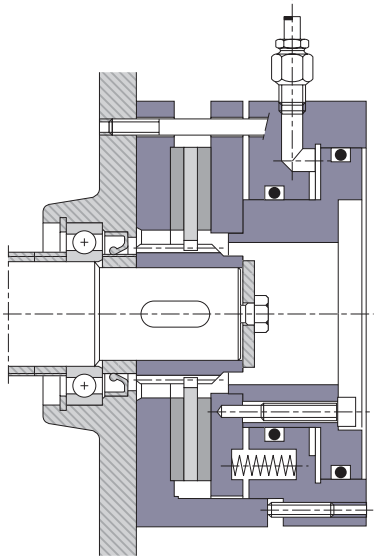
Particularities
- For dry use
- No residual torque in disengaged position
- Fast response time

Adjustments
- Airgap “T” should be adjusted at installation
- Requires wear compensation for dynamic applications

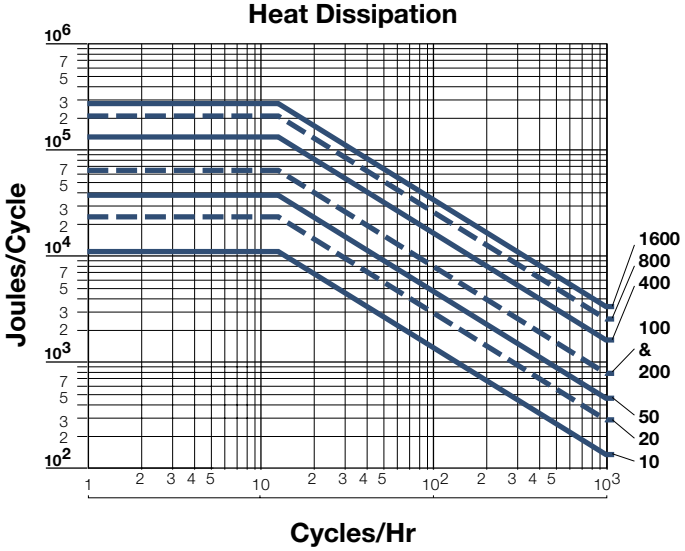
Maintenance Manual
- SM 318

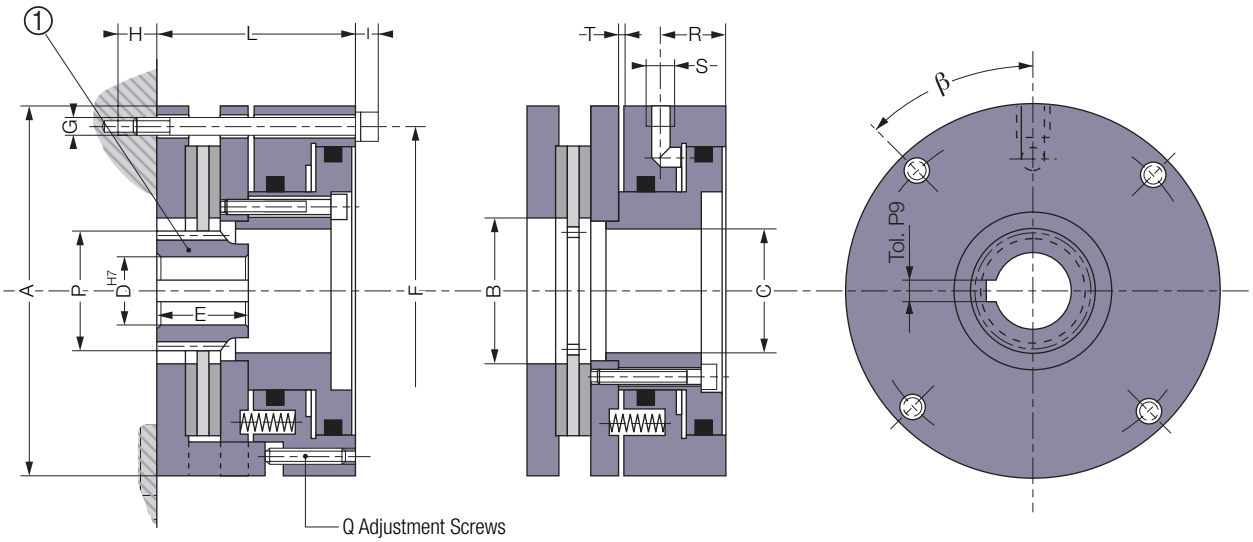
Mounting Precautions
- Device intended for horizontal use. For vertical use, please consult the factory.

Mounting Example



Heat Dissipation





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"
	ß		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	[cm3]		8	13	19	31	59	91	143	266
Inertia	❶	[kgm2]	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