P140 VAR 00 / VAR 02

Pneumatic Multi Disc Clutch

Characteristics
- Pneumatically operated
- Multi disc
- Function under pressure

Utilisation
- Coupling of a pulley or a hub
- Device destined for industrial applications
- VAR 02 designed for use on diesel engines. Friction discs are of solid construction

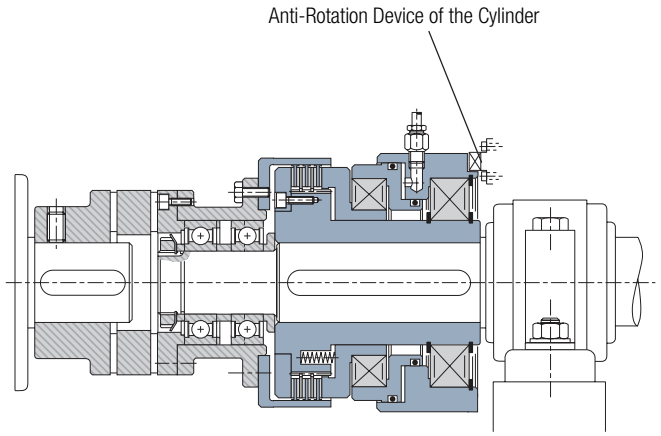
Particularities
- For dry use
- Low residual torque
- Stationary compressed air distribution included
- Good graduality

Adjustments
- None required, automatic wear compensation by piston movement

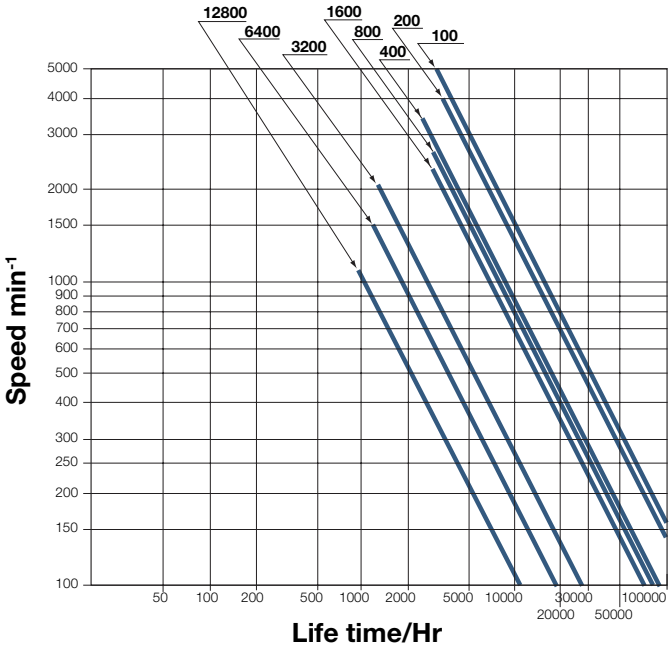
Maintenance Manual
- SM 303

Mounting Precautions
- The ball bearing life is a function of the speed and pressure, refer to curve shown on page 56
- The anti-rotation device of the cylinder shall be inserted in anti rotation slot, with a side play of 0,5 mm and a 1 mm play to the bottom. This avoids a normal stress on the ball-bearings.
- We strongly recommend to mount a damping elastic slot in the anti-rotation device in case of vibrations
- Device intended for horizontal use, for vertical use please consult the factory

Power Supply
- Oiled compressed air. For dry air please consult factory
- Can be operated with hydraulic oil. In that case, please consult the factory



Ball Bearing Life for Nominal Pressure



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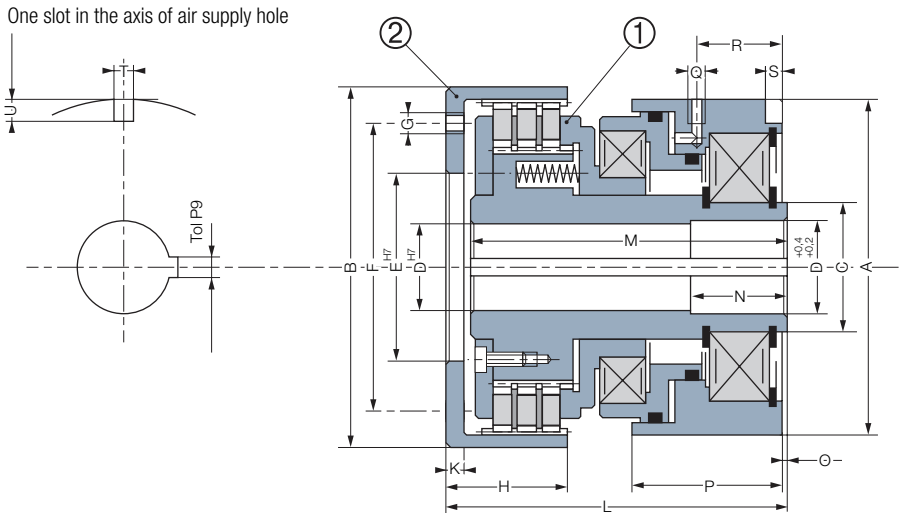

VAR 00 = STANDARD
VAR 02 for Diesel Engines
VAR 02

Indirect Drive

Sizes			100	200	400	800	1600	3200	6400	12800
Nom. Torque		[Nm]	100	200	400	800	1600	3200	6400	12800
Max. Speed		[min^{-1}]	4800	3900	3500	2700	2400	2000	1500	1200
Operating Pressure		[bar]	4,5	5	5	5	5	5	5	5
	A		132	149	166	198	234	270	324	398
	B		132	162	180	222	255	290	335	390
	C		55	65	80	95	110	130	150	180
	D* min		24	35	35	40	40	50	65	80
	D* max		40	50	60	75	90	105	120	140
	E min		50	64	69	85	101	120	130	180
	E max		85	105	115	150	175	220	260	280
	F**		100	122	135	170	200	250	290	320
	G**		6xM6	6xM8	6xM8	6xM10	6xM12	6xM16	8xM161	2xM16
	H		39	41	46	58	70	82	95	108
	K		6	9	8	11	10	14	16	18
	L		125	134	148	185	215	260	290	335
	M		117	124	138	172	202	243	271	313
	N		30	35	38	52	62	80	80	92
	O		-	-	0,5	3	5	5	5	10
	P		62	64	69,5	86	104	118	129	144
	Q		Rp1/8	Rp1/8	Rp1/4	Rp1/4	Rp1/4	Rp3/8	Rp3/8	Rp3/8
	R		35	37	41	52	63	70	77	83
	S		5,5	4,5	6	7,5	8,5	8,5	9	12
	T		8	8	10	12	12	16	16	20
	U		12	12,5	11	11	14	17	23	22
Stroke Volume	new	[cm^3]	7,5	10,5	20	26	34	85	210	260
Stroke Volume	max	[cm^3]	37	40	60	115	170	360	690	1080
Inertia ❶		[kgm^2]	0,0048	0,0116	0,0204	0,0564	0,1248	0,2697	0,516	1,166
Inertia ❷	VAR 00	[kgm^2]	0,0046	0,0126	0,0219	0,0598	0,1165	0,2263	0,4320	0,950
	VAR 02	[kgm^2]	0,0046	0,0133	0,0215	0,0598	0,1165	0,2263	0,4320	0,950
Weight		[kg]	9	14	19,5	34,8	57	95	140	240
Connection			**Radial**							

Keyways according to
ISO R773 / BS 4235 / DIN 6885-1 / NF E 22-175, tolerance P9
* Mandatory delivered with finished bores
**Drive cup is supplied undrilled. Fixing holes are shown for information only.