

P130 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
- Shaft driven
- Good graduality

Adjustments

- None required, automatic wear compensation by piston movement

Maintenance Manual

- SM 302

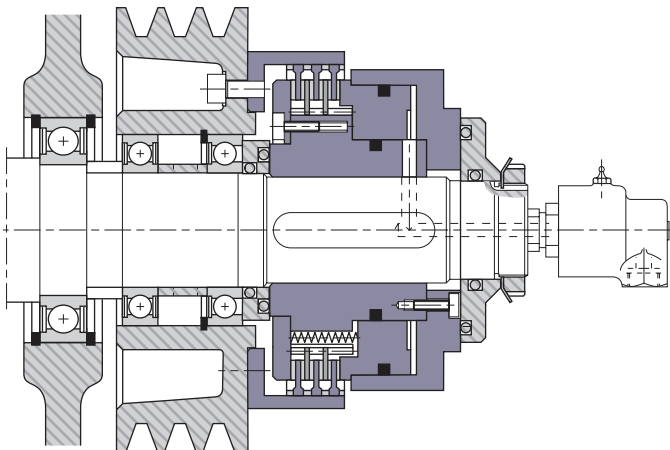
Mounting Precautions

- Provide shaft seals in order to avoid loss of pressure (see ST 0119-01)
- Device intended for horizontal use, for vertical use please consult the factory

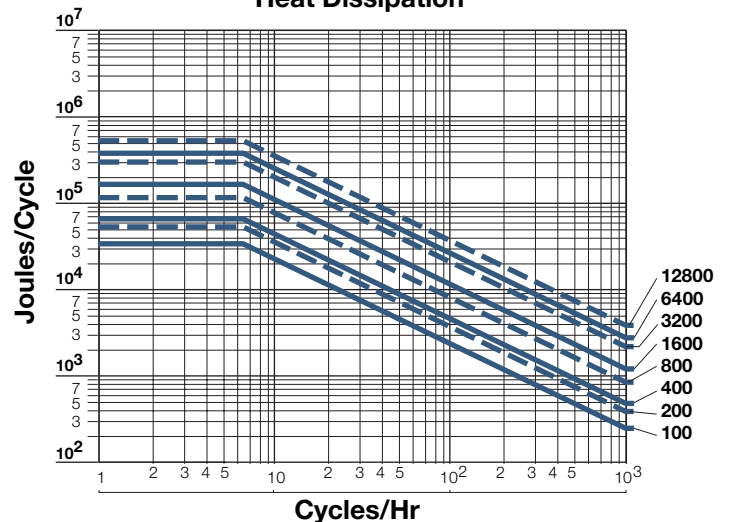
Power Supply

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

Mounting Example

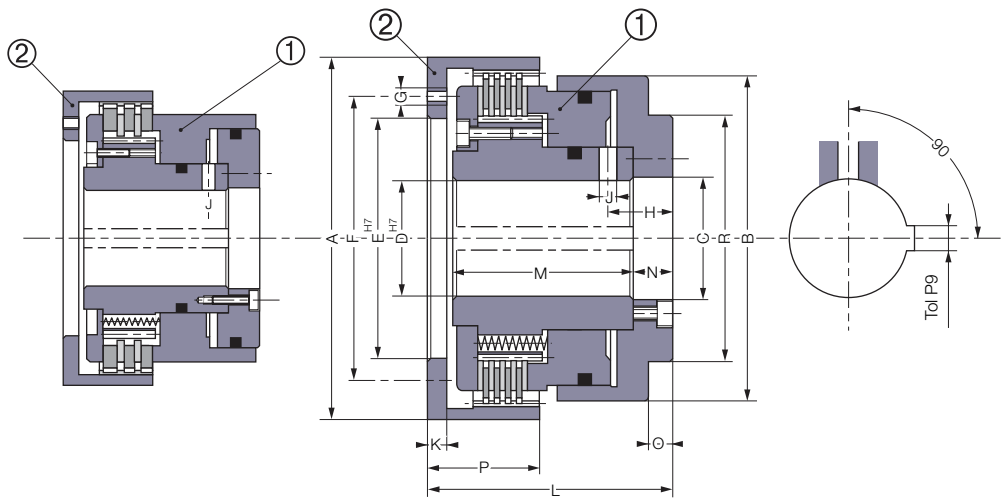


Heat Dissipation



P130 VAR 00 / VAR 02

Pneumatic Multi Disc Clutch



Size 100 - 1600

Size 3200 - 12800

**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	1,200
Operating Pressure		[bar]	5	5	5	5	5	5	5	5
	A		132	162	180	222	255	290	335	390
	B		110	135	150	189	220	262	315	380
	C		41	51	59	86	101	106	111	132
	D* min		24	34	34	39	39	50	60	70
	D* max		40	50	58	85	100	105	110	130
	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	8xM16	12xM16
	H		19	23	23	26	30,5	60	31	39
	J		5	6	6	6	8	8	10	12
	K		6	9	8	11	10	14	16	18
	L		81	89	96	118	135	155	170	190
	M		63,5	68	75	92	105	120	130	145
	N		9,5	11	11	13	16	18	21	23
	O		-	-	-	-	-	8	8	-
	P		39	41	46	58	70	82	95	108
	R		-	-	-	-	-	200	220	-
Stroke Volume	new	[cm ³]	5,2	12	20	22	32	80	207	958
Stroke Volume	max	[cm ³]	22	43,8	59	81	150	320	650	1760
Inertia	①	[kgm ²]	0,0061	0,0122	0,0253	0,0835	0,1818	0,3900	0,7700	1,47
Inertia	VAR 00	[kgm ²]	0,0046	0,0126	0,0219	0,0598	0,1090	0,1828	0,3557	0,93
Inertia	VAR 02	[kgm ²]	0,0046	0,0133	0,0215	0,0598	0,1090	-	-	-
Weight		[kg]	6	9,5	13	25	39	55	87	125
Connection	Via Shaft									

Keyways according to
ISO R773 / BS 4235 / DIN 6885-1 / NF E 22-175, tolerance P9

*Drive sup is supplied undrilled. Fixing holes are shown for information only

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

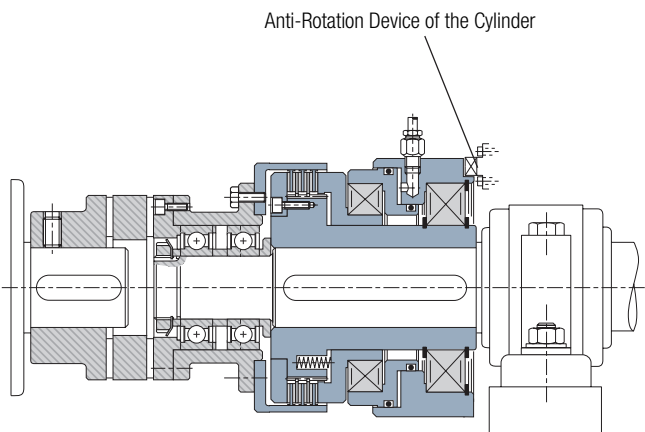
- SM 303

Mounting Precautions

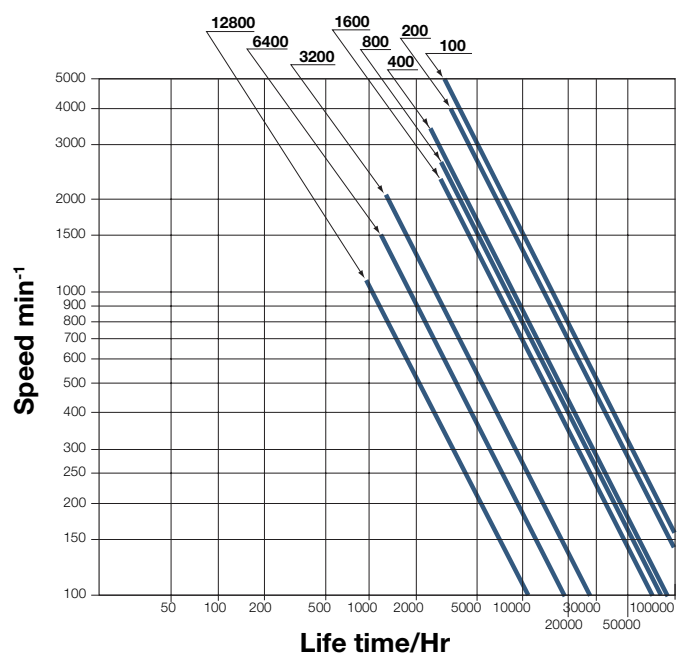
- The ball bearing life is a function of the speed and pressure, refer to curve shown on page 56
- The anti-rotation device of the cylinder shall be inserted in anti rotation slot, with a side play of 0,5 mm and a 1 mm play to the bottom. This avoids a normal stress on the ball-bearings.
- We strongly 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



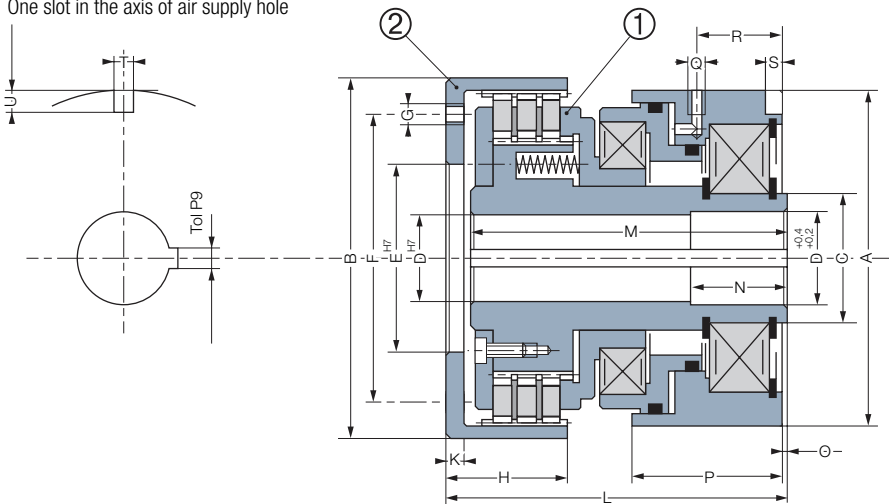
P140 VAR 00 / VAR 02

Pneumatic Multi Disc Clutch

**VAR 00 =
STANDARD
VAR 02 for
Diesel Engines
VAR 02**

Indirect Drive

One slot in the axis of air supply hole



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	8xM16	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	①	[kgm ²]	0,0048	0,0116	0,0204	0,0564	0,1248	0,2697	0,516	1,166
Inertia	VAR 00	[kgm ²]	0,0046	0,0126	0,0219	0,0598	0,1165	0,2263	0,4320	0,950
Inertia	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.