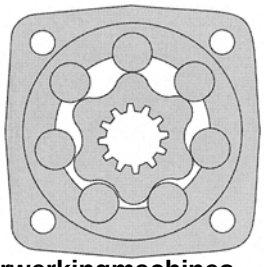
MS
Orbitmotoren



De MS motoren zijn met 7 rollen in tandkransen 6 tanden in een sterwiel uitgerust. Deze rollen en de effectieve hydraulische smering van de lagerset beperken de wrijving bij de tandwieldraaiing tot een minimum.

De MS motoren worden toegepast op Conveyors, metaal verwerkingmachines, Landbouwmachines etc.

De MS motor is met de volgende opties verkrijgbaar ; standaard, wielflens, korte uitvoering, motor met rem, tacho aansluiting, speed sensor, poorten achter en zijaansluiting, as recht, splined en taps.

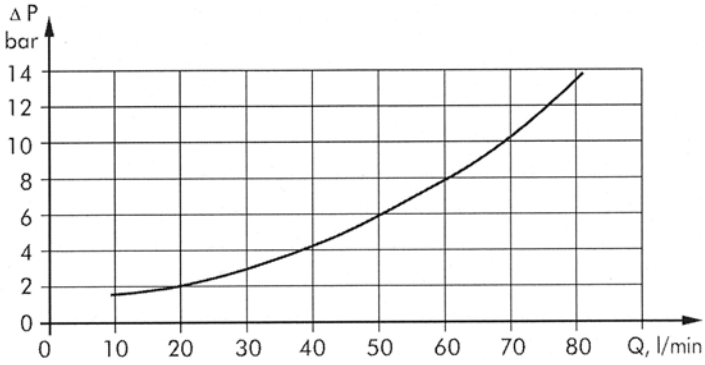
Algemene informatie

Displacement, [cm^3/rev.]	80,5÷564,9
Max. Speed, [RPM]	130÷810
Max. Torque, [daNm]	23÷85
Max. Output, [kW]	18÷6,9
Max. Pressure Drop, [bar]	105÷210
Max. Oil Flow, [l/min]	75
Min. Speed, [RPM]	5÷10
Permissible Shaft Loads, [daN]	P_a=500
Pressure fluid	Mineral based- HLP(DIN 51524) or HM(ISO 6743/4)
Temperature range, [°C]	-30÷90
Optimal Viscosity range, [mm^2/s]	20÷75
Filtration	ISO code 20/16 (Min. recommended fluid filtration of 25 micron)

Oil flow in drain line

Pressure drop (bar)	Viscosity (mm^2/s)	Oil flow in drain line (l/min)
140	20	1,5
	35	1
210	20	3
	35	2

Pressure Losses



MS
Orbitmotoren

Technische informatie

Type		MS 80	MS 100	MS 125	MS 160	MS 200
Displacement [cm³/rev.]		80,5	100	125,7	159,7	200
Max. Speed,	cont.	810	750	600	470	375
[RPM]	Int.*	1000	900	720	560	450
Max. Torque	cont.	24	30,5	37,5	49	61
[daNm]	Int.*	31	39	49	60	72
Max. Output	cont.	15,5	18	18	16,5	16,5
[kW]	int.*	19,5	22,5	22,5	23	22
Max. Pressure Drop	cont.	210	210	210	210	210
[bar]	Int.*	275	275	275	260	250
	peak**	295	295	295	280	270
Max. Oil Flow	cont.	65	75	75	75	75
[l/min]	Int.*	80	90	90	90	90
Max. Inlet Pressure	cont.	230	230	230	230	230
[bar]	Int.*	295	295	295	295	295
	peak**	300	300	300	300	300
Max. Return Pressure	cont.	140	140	140	140	140
with Drain Line	Int.*	175	175	175	175	175
[bar]	peak**	210	210	210	210	210
Max. Starting Pressure with Unloaded Shaft, [bar]		12	10	10	8	8
Min. Starting Torque	at max. press. drop cont.	18	23	29	37	47
[daNm]	at max. press. drop Int.*	23,5	30	38	46	56
Min. Speed***, [RPM]		10	10	8	8	6
Weight, [kg]	MS(F)	9,9	10,1	10,4	10,8	11,2
	MSW	10,4	10,6	10,9	11,3	11,7
For Rear Ports	MSS	7,9	8,1	8,4	8,8	9,2
+0,4 kg	MSV	5,8	6	6,3	6,7	7,1
	MSQ	10,3	10,5	10,8	11,2	11,6
	MSB	16,9	17,1	17,4	17,8	18,2

* Tijdelijk gebruik: gebruik gedurende max. 10% per minuut.
** Piekbelasting maximaal 1% per minuut
*** Voor toerentallen van 5 RPM of minder dan opgegeven, neem contact op met M+S of onze medewerkers.

1 tijdelijke hoge drukvallen en hoge oliestromen mogen niet gelijktijdig voorkomen
2 Filtering dient plaats te vinden volgens ISO vervuilingsgraad 20/16. Nominale filtering van 25 micron of beter.
3 Er wordt aanbevolen een hydraulische olie te gebruiken op basis van minerale olie type HPL (DIN51524) of HM (ISO 6743/4) Voordat U alternatieve smeermiddelen gebruikt, zoals syntetische olieën dient er overlegt te worden.
4 Aanbevolen minerale viscositeit is 13mm² bij 50Cº.
5 Aanbevolen maximum olietemperatuur tijdens gebruik is 85 Cº.
6 De levensduur van de motoren kan men verhogen als men de aandrijfas 15 tot 30 minuten onbelast laat draaien voor de motor volledig te belasten.

MS
Orbitmotoren

Technische informatie

Type		MS 250	MS 315	MS 400	MS 475	MS 525	MS 565
Displacement [cm³/rev.]		250	314,9	397	474,6	522,7	564,9
Max. Speed,	cont.	300	240	190	160	145	130
[RPM]	Int.*	360	290	230	190	175	160
Max. Torque	cont.	72	82,5	86,5	85	85	85
[daNm]	Int.*	87	100	99	99	99	99
Max. Output	cont.	15,5	15	11	8,4	7,6	6,9
[kW]	int.*	18	17	12,5	11,3	10,4	9,6
Max. Pressure Drop	cont.	200	200	160	130	115	105
[bar]	Int.*	250	240	190	150	135	125
	peak**	270	260	210	170	155	145
Max. Oil Flow	cont.	75	75	75	75	75	75
[l/min]	Int.*	90	90	90	90	90	90
Max. Inlet Pressure	cont.	230	230	230	230	230	230
[bar]	Int.*	295	295	295	295	295	295
	peak**	300	300	300	300	300	300
Max. Return Pressure	cont.	140	140	140	140	140	140
with Drain Line	Int.*	175	175	175	175	175	175
[bar]	peak**	210	210	210	210	210	210
Max. Starting Pressure with Unloaded Shaft, [bar]		8	8	8	8	8	8
Min. Starting Torque	at max. press. drop cont.	56	71	71	71	71	71
[daNm]	at max. press. drop Int.*	70	85	84	84	84	84
Min. Speed***, [RPM]		6	5	5	5	5	5
Weight, [kg]	MS(F)	11,7	12,4	13,3	14,4	14,6	15
	MSW	12,2	12,9	13,8	14,6	15,1	15,5
For Rear Ports	MSS	9,7	10,4	11,3	12,1	12,6	13
+0,4 kg	MSV	7,6	8,3	9,2	10	10,5	10,9
	MSQ	12,1	12,8	13,7	14,5	15,0	15,4
	MSB	18,7	19,4	20,3	21,1	21,6	23

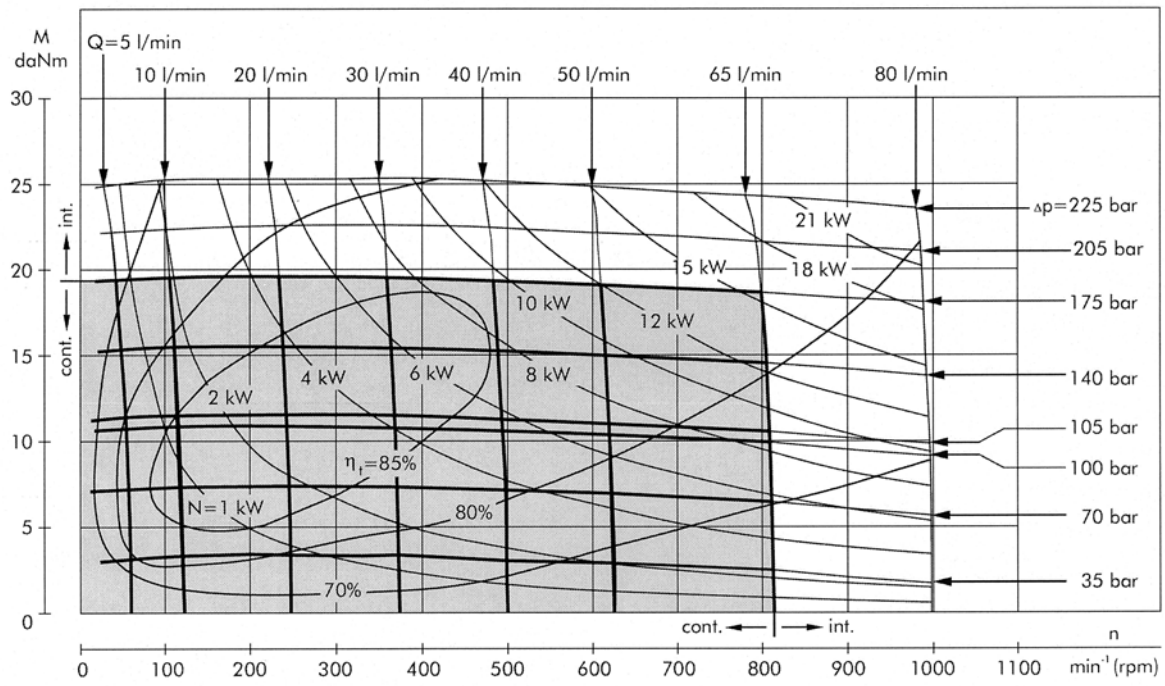
* Tijdelijk gebruik: gebruik gedurende max. 10% per minuut.
** Piekbelasting maximaal 1% per minuut
*** Voor toerentallen van 5 RPM of minder dan opgegeven, neem contact op met M+S of onze medewerkers.

1 tijdelijke hoge drukvallen en hoge oliestromen mogen niet gelijktijdig voorkomen
2 Filtering dient plaats te vinden volgens ISO vervuilingsgraad 20/16. Nominale filtering van 25 micron of beter.
3 Er wordt aanbevolen een hydraulische olie te gebruiken op basis van minerale olie type HPL (DIN51524) of HM (ISO 6743/4) Voordat U alternatieve smeermiddelen gebruikt, zoals syntetische olieën dient er overlegt te worden.
4 Aanbevolen minerale viscositeit is 13mm² bij 50Cº.
5 Aanbevolen maximum olietemperatuur tijdens gebruik is 85 Cº.
6 De levensduur van de motoren kan men verhogen als men de aandrijfas 15 tot 30 minuten onbelast laat draaien voor de motor volledig te belasten.

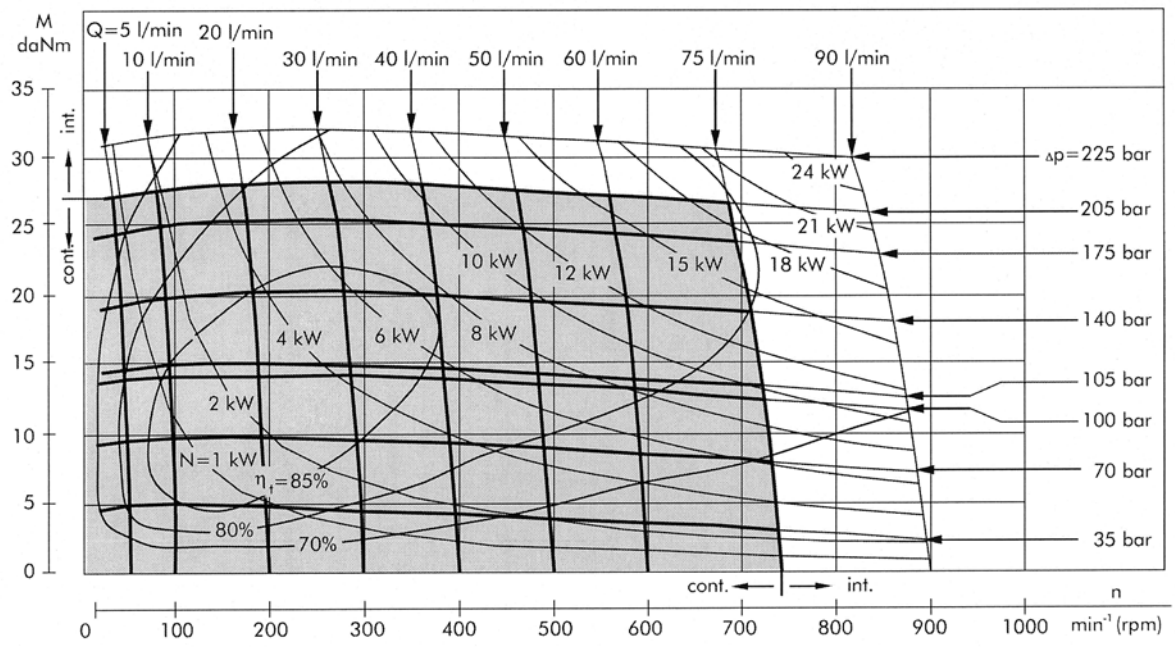
MS
Orbitmotoren

Functiediagrammen

MS 80



MS 100



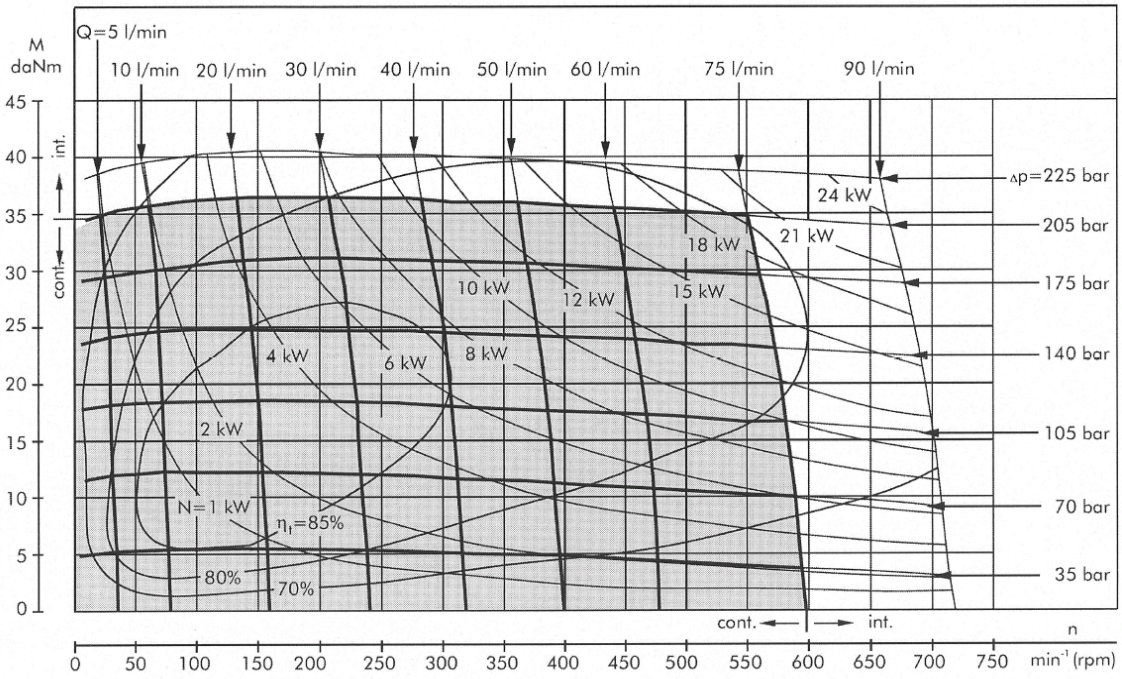
The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MS

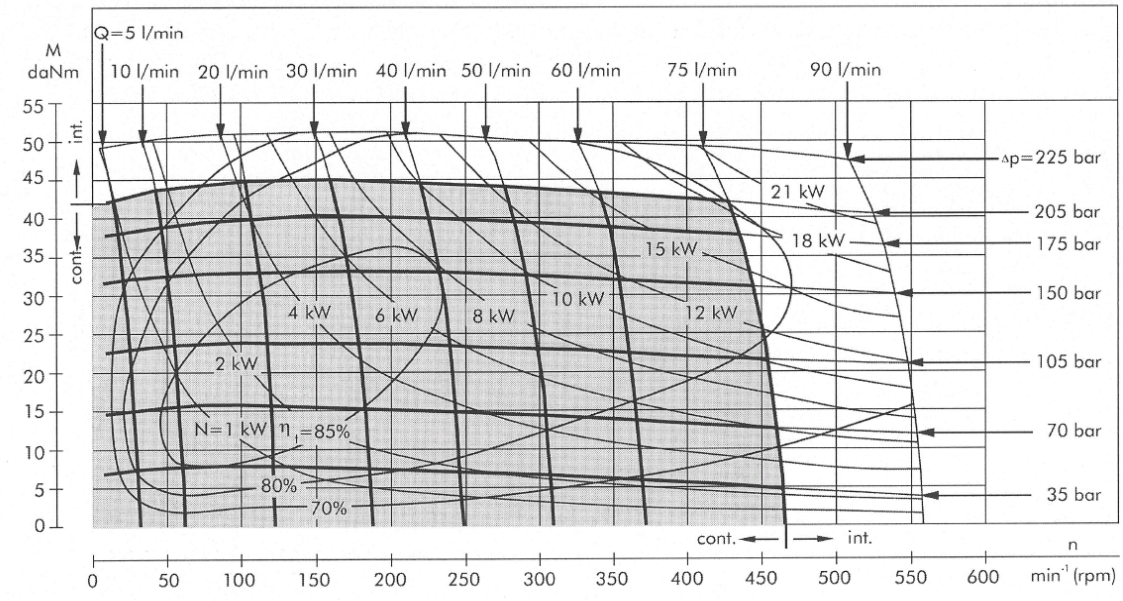
Orbitmotoren

Functiediagrammen

MS 125



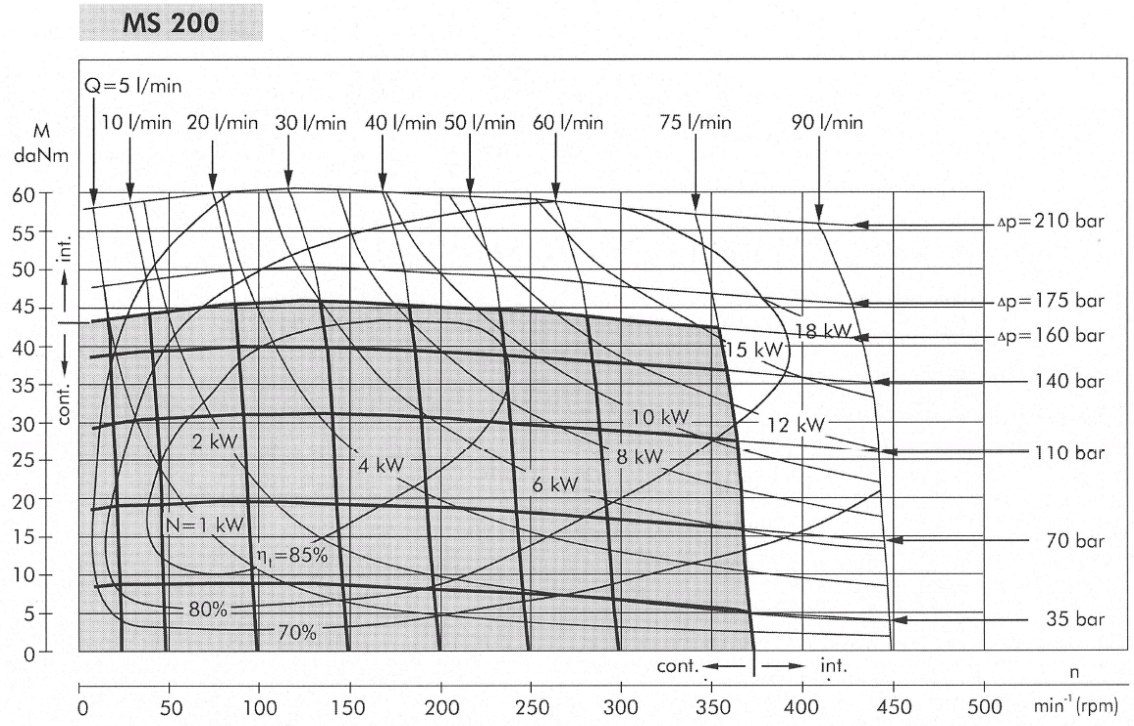
MS 160

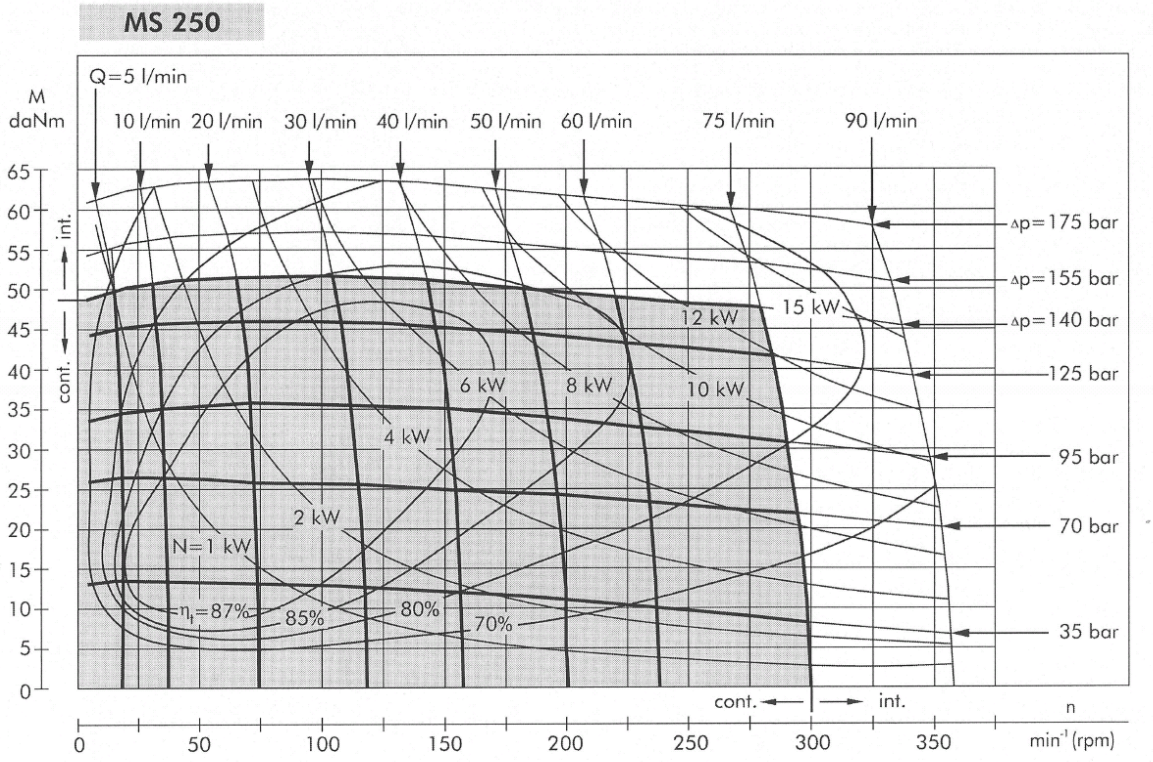


The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MS
Orbitmotoren

Functiediagrammen



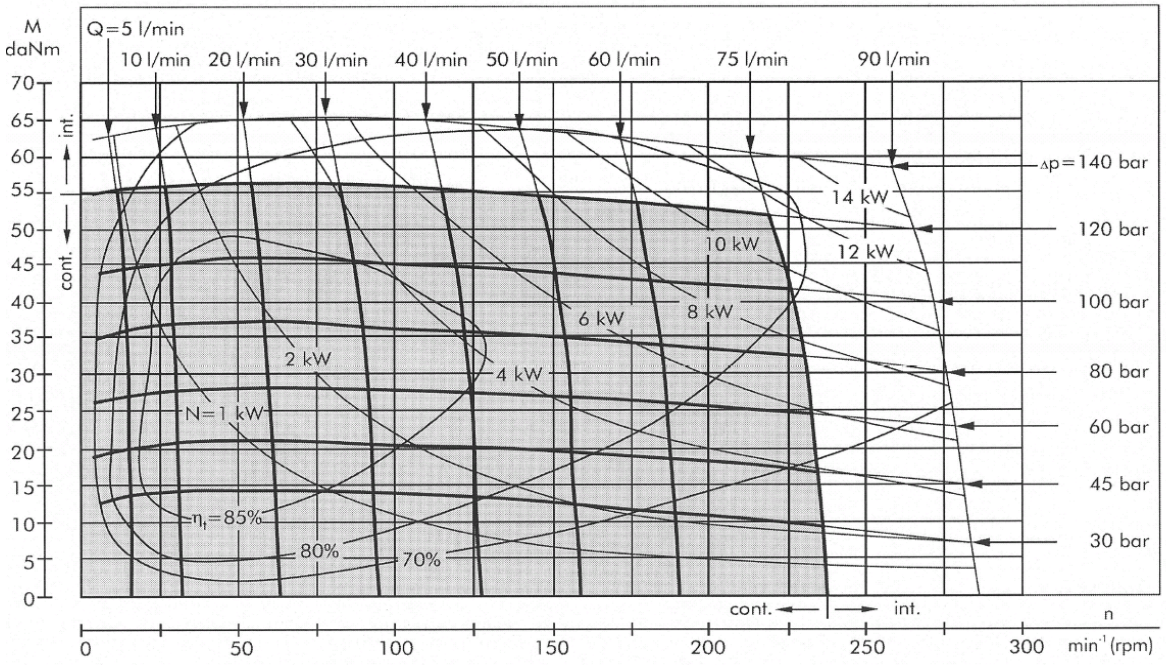


The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

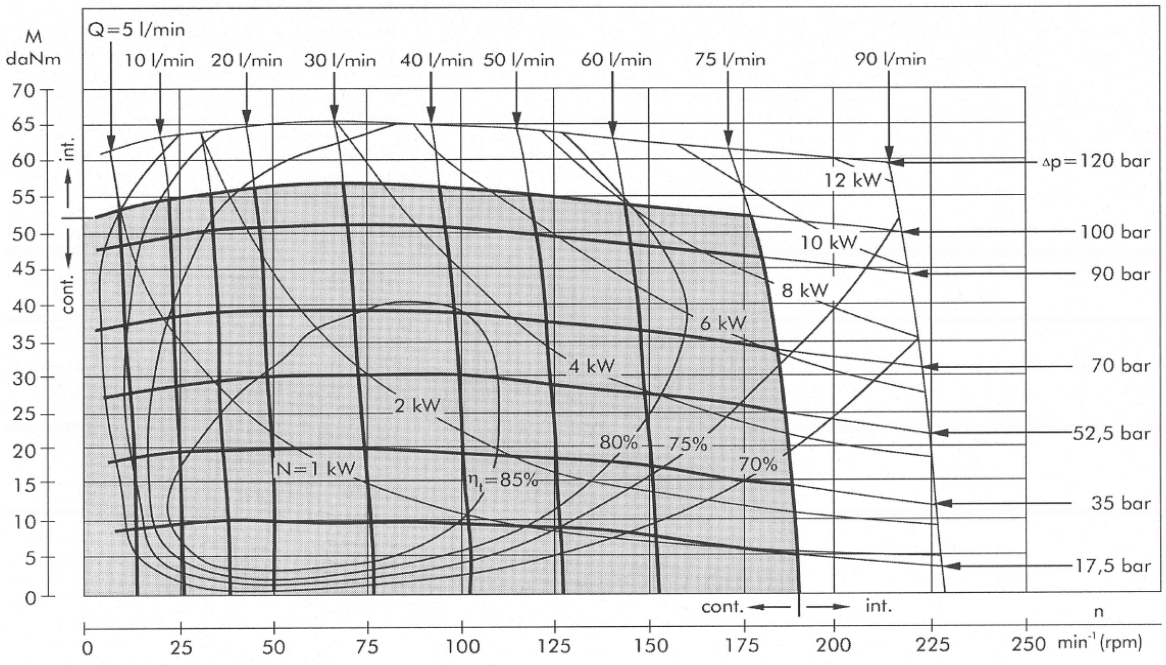
MS
Orbitmotoren

Functiediagrammen

MS 315



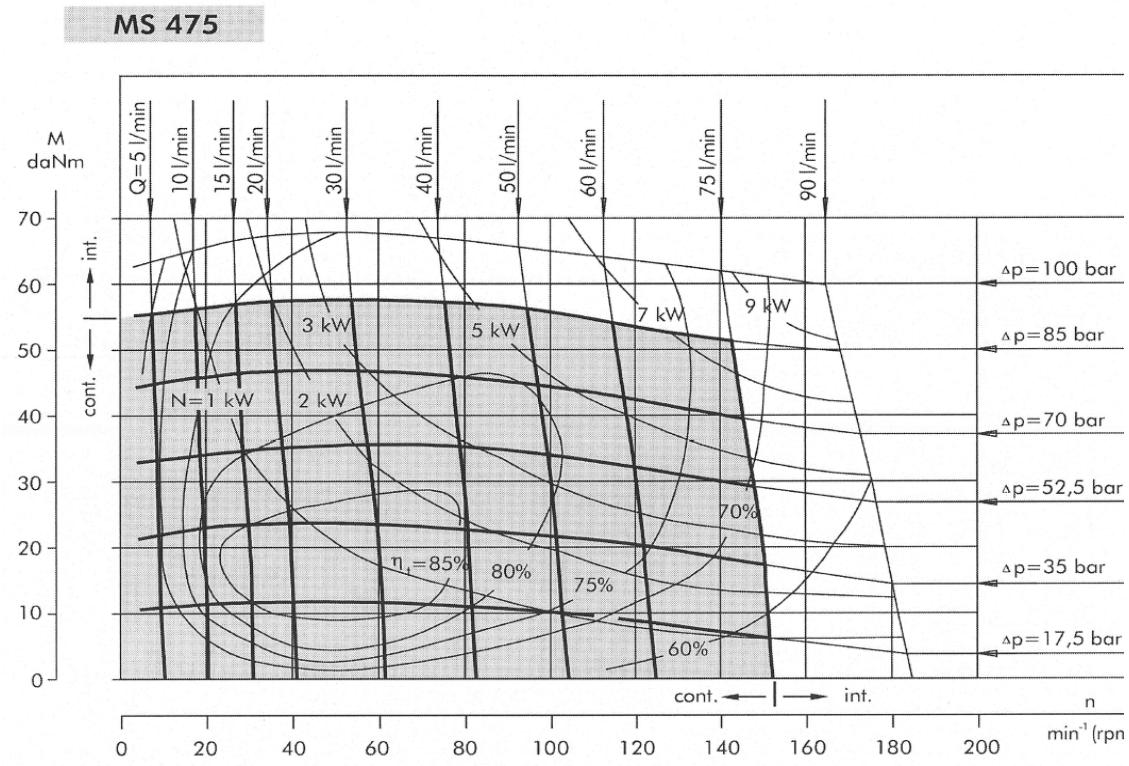
MS 400

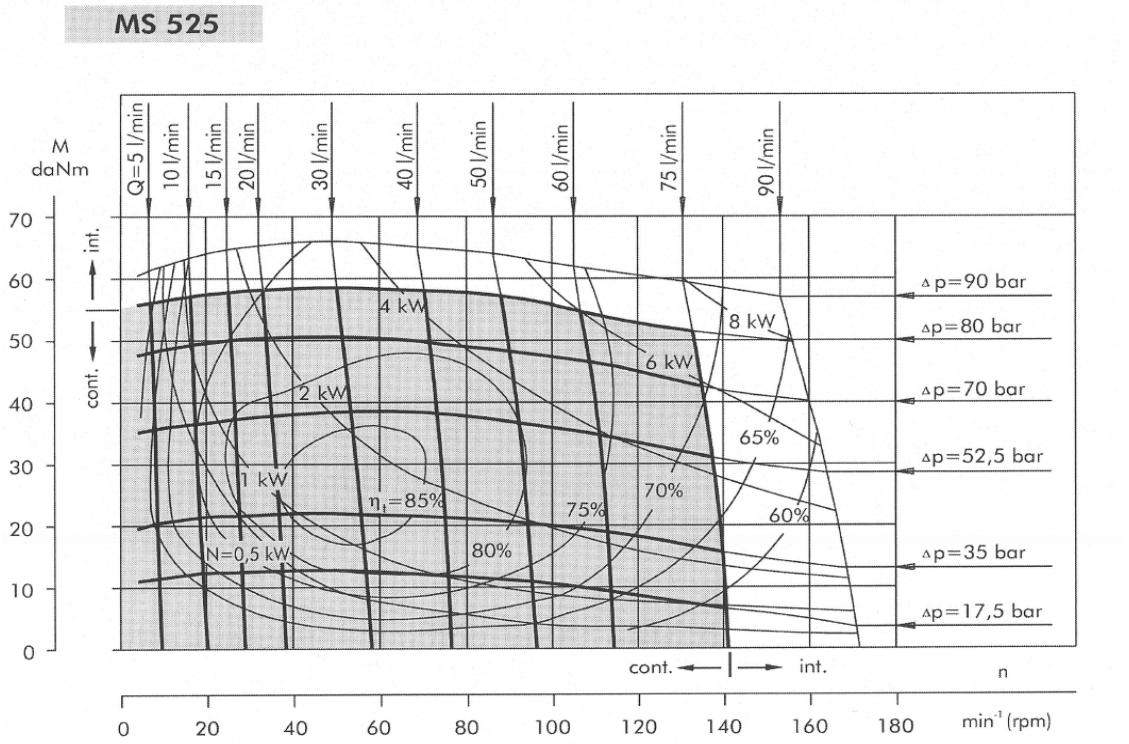


The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MS
Orbitmotoren

Functiediagrammen



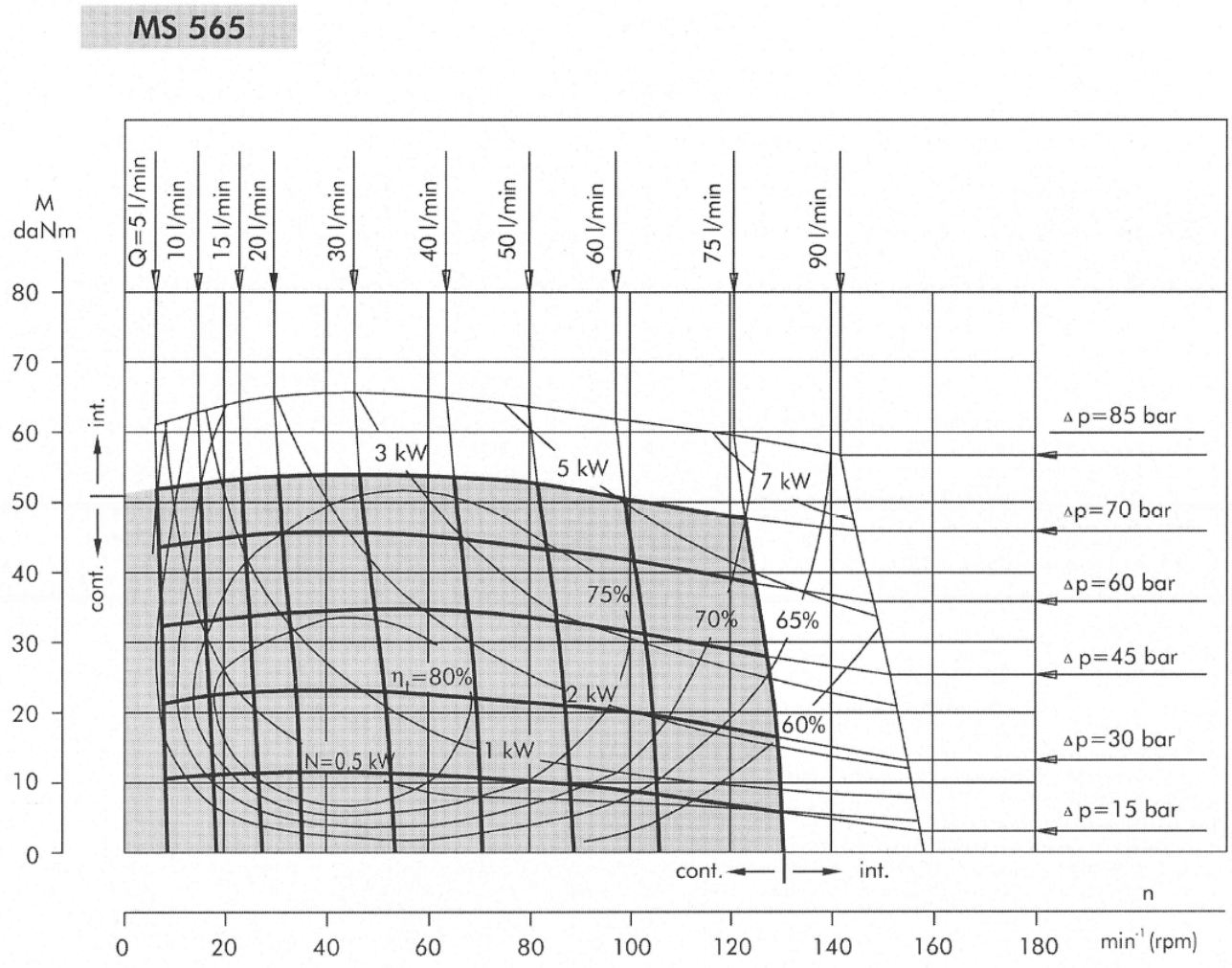


The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MS

Orbitmotoren

Functiediagrammen

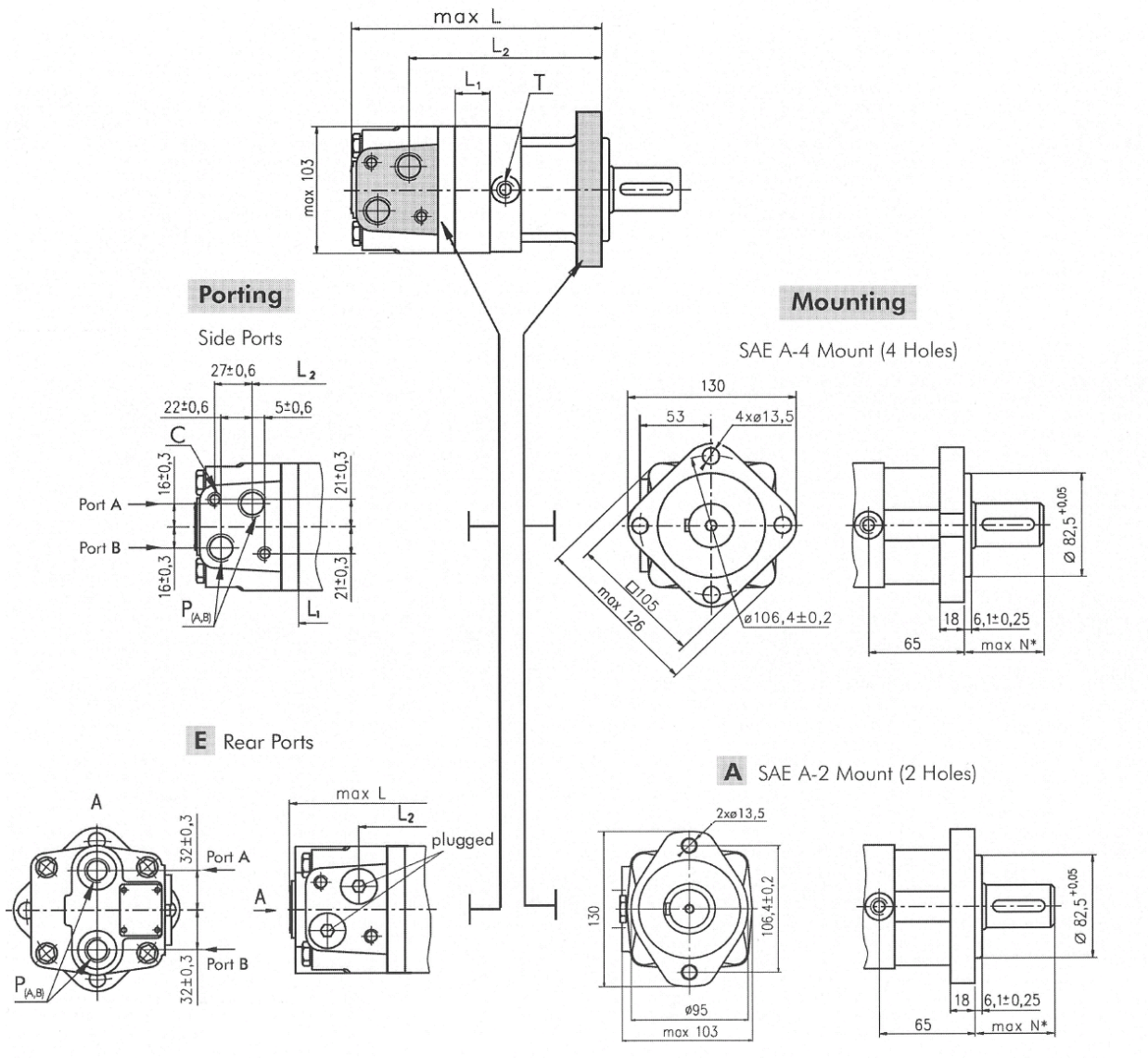


The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MS

Orbitmotoren

Afmetingen en uitvoeringen



*For **N** see page 17

C: 2xM10-12 mm depth
P$_{(A,B)}$: 2xG1/2 or 2xM22x1,5-15 mm depth
T: G ¼ or M14x1,5- 12 mm depth (plugged)

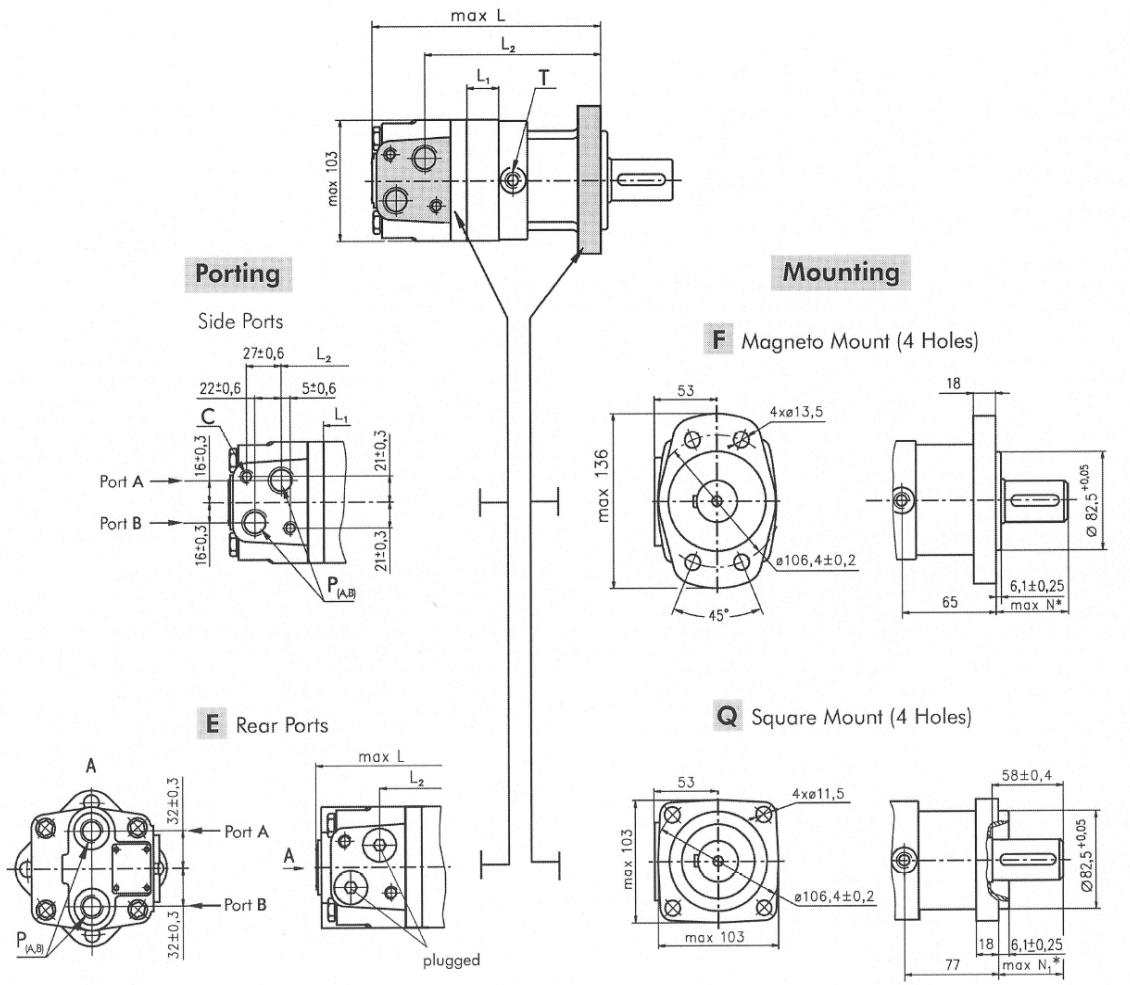
Standard Rotation
Viewed from Shaft End
Port A Pressurized - CW
Port B Pressurized - CCW

Reverse Rotation
Viewed from Shaft End
Port A Pressurized - CCW
Port B Pressurized - CW

Type	L, mm	L$_2$, mm	Type	L, mm	L$_1$, mm
MS(A) 80	168	124	MS(A)E 80	173	14
MS(A) 100	171	129	MS(A)E 100	177	17,4
MS(A) 125	176	132	MS(A)E 125	181	21,8
MS(A) 160	182	138	MS(A)E 160	187	27,8
MS(A) 200	189	145	MS(A)E 200	194	34,8
MS(A) 250	197	154	MS(A)E 250	203	43,5
MS(A) 315	209	165	MS(A)E 315	214	54,8
MS(A) 400	223	179	MS(A)E 400	228	69,4
MS(A) 475	237	193	MS(A)E 475	242	82,6
MS(A) 525	229	185	MS(A)E 525	234	74,5
MS(A) 565	235	191	MS(A)E 565	240	80,2

MS
Orbitmotoren

Afmetingen en uitvoeringen



*For **N** and **N**$_1$ see page 17

C: 2xM10-12 mm depth
P$_{(A,B)}$: 2xG1/2 or 2xM22x1,5-15 mm depth
T: G ¼ or M14x1,5- 12 mm depth (plugged)

Standard Rotation
Viewed from Shaft End
Port A Pressurized - CW
Port B Pressurized - CCW

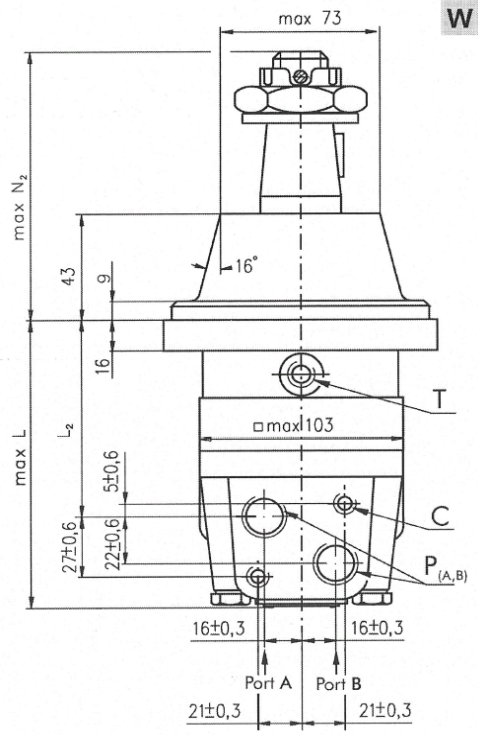
Reverse Rotation
Viewed from Shaft End
Port A Pressurized - CCW
Port B Pressurized - CW

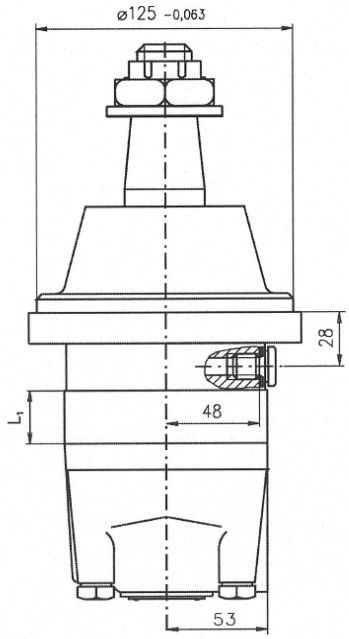
Type	L, mm	L$_2$, mm	Type	L, mm	L$_2$, mm	Type	L, mm	Type	L, mm	L$_1$, mm
MSF 80	168	124	MSQ 80	179	136	MSFE 80	173	MSQE 80	185	14
MSF 100	171	129	MSQ 100	183	140	MSFE 100	177	MSQE 100	189	17,4
MSF 125	176	132	MSQ 125	187	144	MSFE 125	181	MSQE 125	193	21,8
MSF 160	182	138	MSQ 160	193	150	MSFE 160	187	MSQE 160	199	27,8
MSF 200	189	145	MSQ 200	200	157	MSFE 200	194	MSQE 200	206	34,8
MSF 250	197	154	MSQ 250	209	166	MSFE 250	203	MSQE 250	215	43,5
MSF 315	209	165	MSQ 315	220	177	MSFE 315	214	MSQE 315	226	54,8
MSF 400	223	179	MSQ 400	235	192	MSFE 400	228	MSQE 400	241	69,4
MSF 475	237	193	MSQ 475	247	205	MSFE 475	242	MSQE 475	254	82,6
MSF 525	229	185	MSQ 525	240	197	MSFE 525	234	MSQE 525	246	74,5
MSF 565	235	191	MSQ 565	246	203	MSFE 565	240	MSQE 565	252	80,2

MS
Orbitmotoren

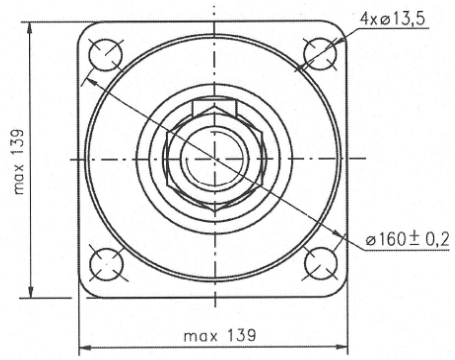
Afmetingen en uitvoeringen MSW

W Wheel Mount



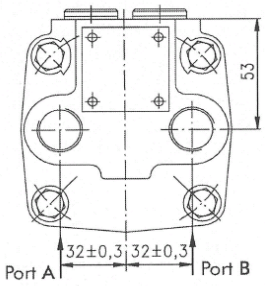


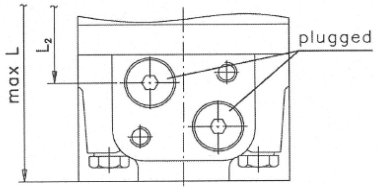
C: 2xM10-12 mm depth
P(A,B): 2xG1/2 or 2xM22x1,5-15 mm depth
T: G ¼ or M14x1,5 - 12 mm depth(plugged)



*For **N2** see page 17

E Rear Port





Type	L, mm	L_1, mm	L_2, mm	Type	L, mm
MSW 80	129	14	87	MSWE 80	138
MSW100	133	17,4	91	MSWE 100	142
MSW 125	137	21,8	95	MSWE 125	146
MSW 160	143	27,8	101	MSWE 160	152
MSW 200	150	34,8	108	MSWE 200	159
MSW 250	159	43,5	117	MSWE 250	168
MSW 315	170	54,8	128	MSWE 315	179
MSW 400	184	69,4	143	MSWE 400	194
MSW 475	198	82,6	156	MSWE 475	207
MSW 525	190	74,5	148	MSWE 525	199
MSW 565	196	80,2	154	MSWE 565	205

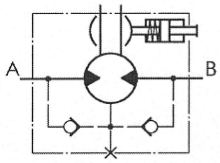
Standard Rotation
Viewed from Shaft End
Port A Pressurized - CW
Port B Pressurized - CCW

Reverse Rotation
Viewed from Shaft End
Port A Pressurized - CCW
Port B Pressurized - CW

MS
Orbitmotoren

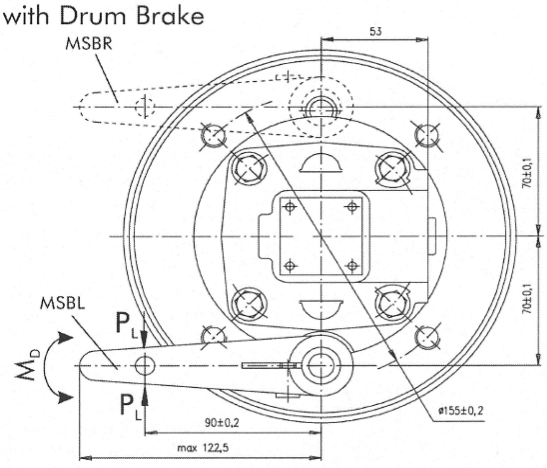
Afmetingen en uitvoeringen MSB

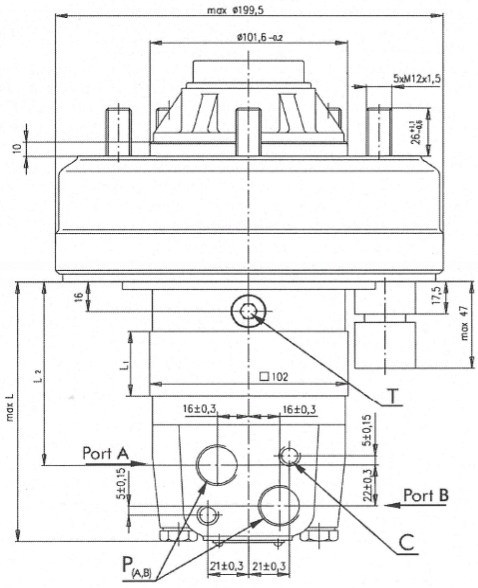
B Motor with Drum Brake

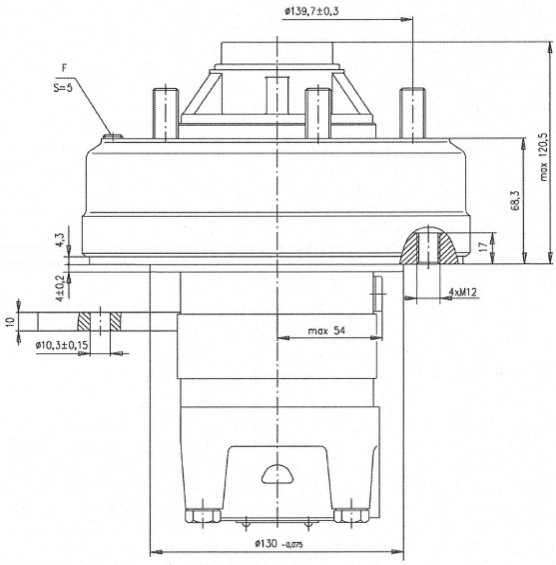


Actuating the brake level, the brake shaft is turned. The rectangular shape of the inner part of this shaft forces the brake pads to be pressed against the brake drum. This brakes the wheel or the winch drum.

Releasing the level, the springs pull it and the brake pads back to the initial position. The motor output shaft is released. Minimum angle adjustment is 10°. It can be adjusted by dismounting the level. Depending on the application You can choose the actuating direction of the brake level. The rod connection actuating the brake should be capable of moving at last 25 mm from neutral to extreme position.

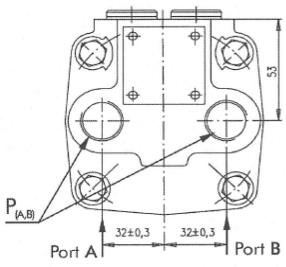






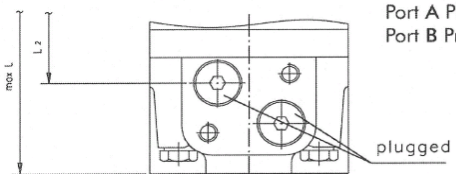
C: 2xM10-12 mm depth
F: Inspection hole for checking brake lining
T: G 1/4 or M14x1,5 - 12 mm depth (plugged)
$P_{(A,B)}$: 2xG1/2 or 2xM22x1,5-15 mm depth

E Rear Port



Standard Rotation
Viewed from Shaft End
Port A Pressurized - CW
Port B Pressurized - CCW

Reverse Rotation
Viewed from Shaft End
Port A Pressurized - CCW
Port B Pressurized - CW

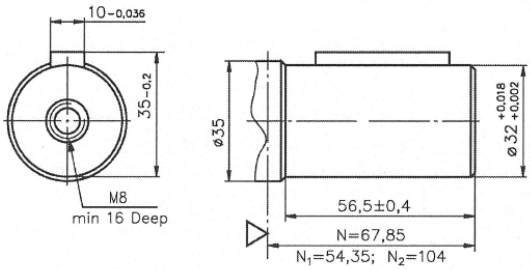


Type	L, mm	L_1, mm	L_2, mm	Type	L, mm
MSB 80	119	14	74	MSBE 80	127
MSB100	122	17,4	77	MSBE 100	130
MSB 125	126	21,8	82	MSBE 125	134
MSB 160	132	27,8	88	MSBE 160	140
MSB 200	139	34,8	95	MSBE 200	147
MSB 250	148	43,5	110	MSBE 250	156
MSB 315	159	54,8	115	MSBE 315	167
MSB 400	174	69,4	130	MSBE 400	182
MSB 475	188	82,6	143	MSBE 475	196
MSB 525	180	74,5	135	MSBE 525	188
MSB 565	186	80,2	141	MSBE 565	192

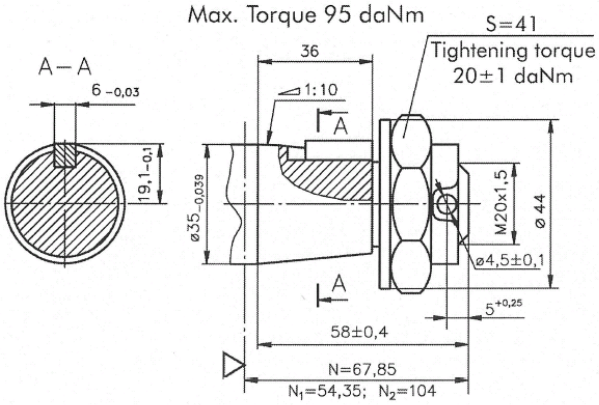
MS
Orbitmotoren

Mogelijke assen

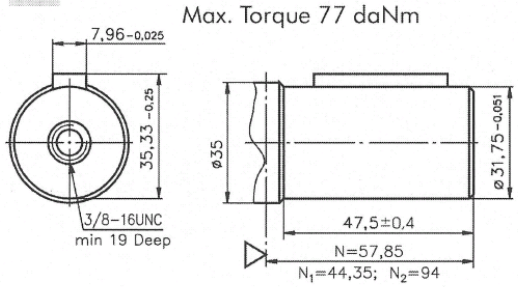
C - ø32 straight, Parallel key A10x8x45 DIN 6885
Max. Torque 77 daNm



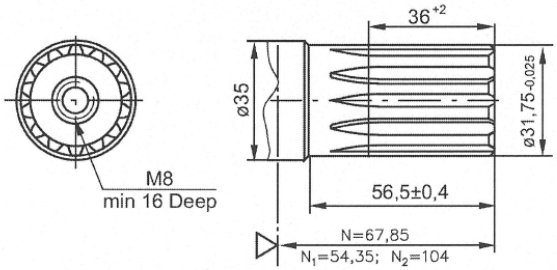
K - tapered 1:10, Parallel key B6x6x20 DIN 6885
Max. Torque 95 daNm



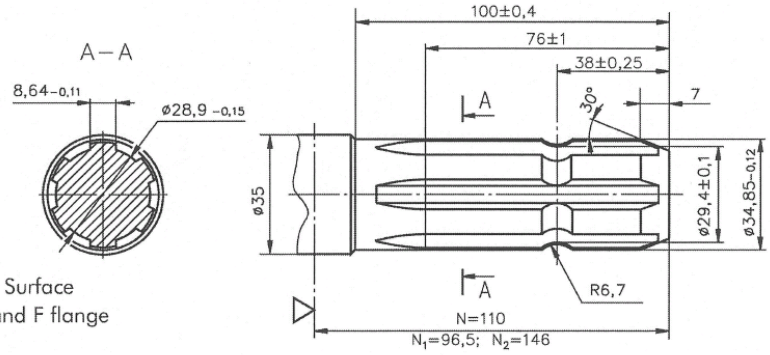
CO - ø1¼" straight, Parallel key 5/16"x 5/16"x 1¼"BS46
Max. Torque 77 daNm



SH - ø1¼" splined 14T, DP12/24 ANSI B92.1-1976
Max. Torque 95 daNm



SL - ø34,85 p.t.o. DIN 9611 Form 1
Max. Torque 77 daNm



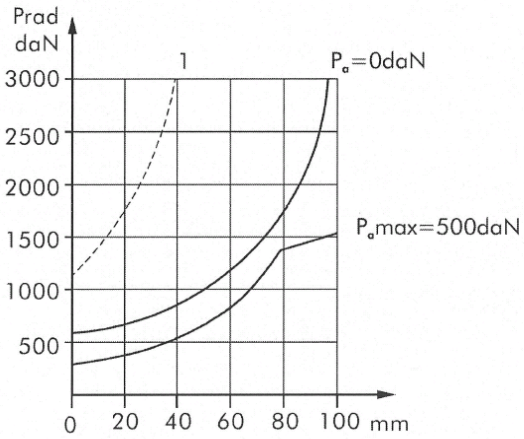
▽ - Motor Mounting Surface
N - for standart,A and F flange
N_1 - for Q flange
N_2 - for W flange

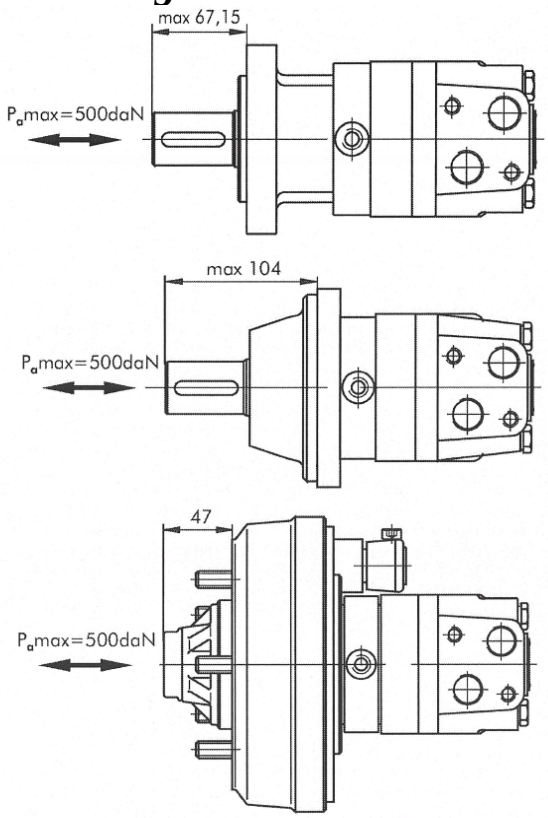
MS

Orbitmotoren

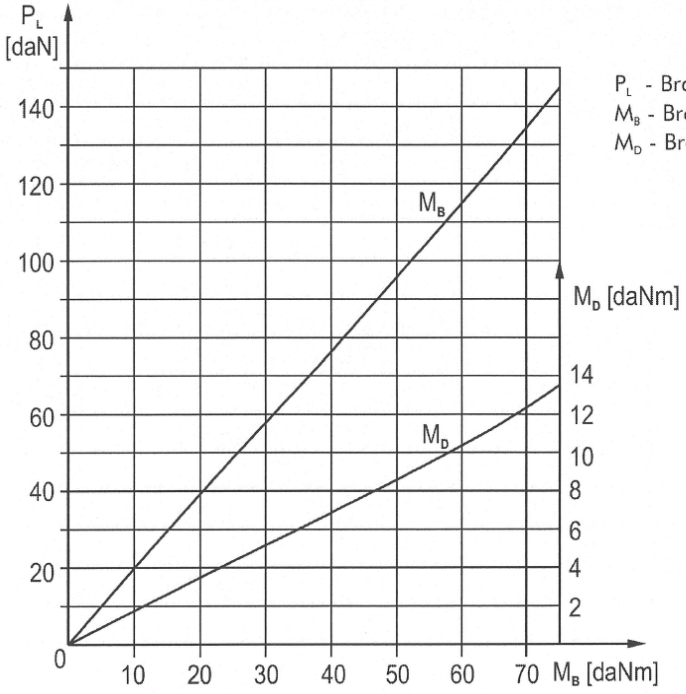
Mogelijke as belasting

The output shaft runs in tapered bearings that permit high axial and radial forces.
Curve "1" shows max. radial shaft load. Any shaft load exceeding the values quoted in the curve will seriously reduce motor life. The two other curves apply to a B10 bearing life of 3000 hours at 200 RPM.





FUNCTION DIAGRAM MSB

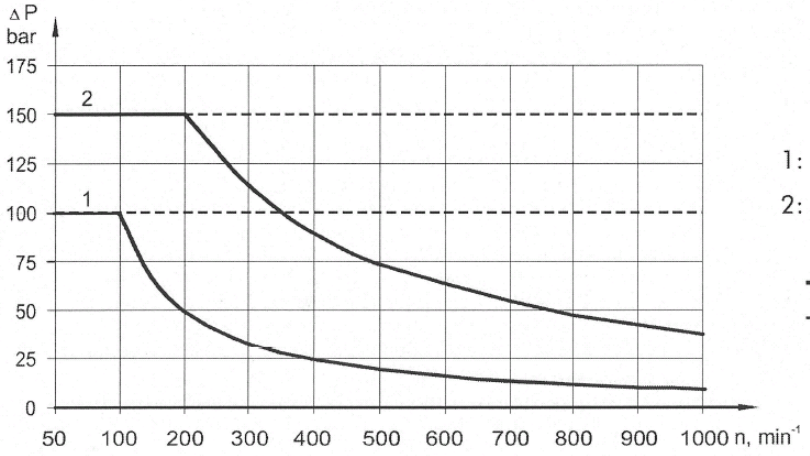


P_L - Brake Lever Load
M_B - Brake Torque
M_D - Brake Lever Torque

MS
Orbitmotoren

Maximale druk asafdichting

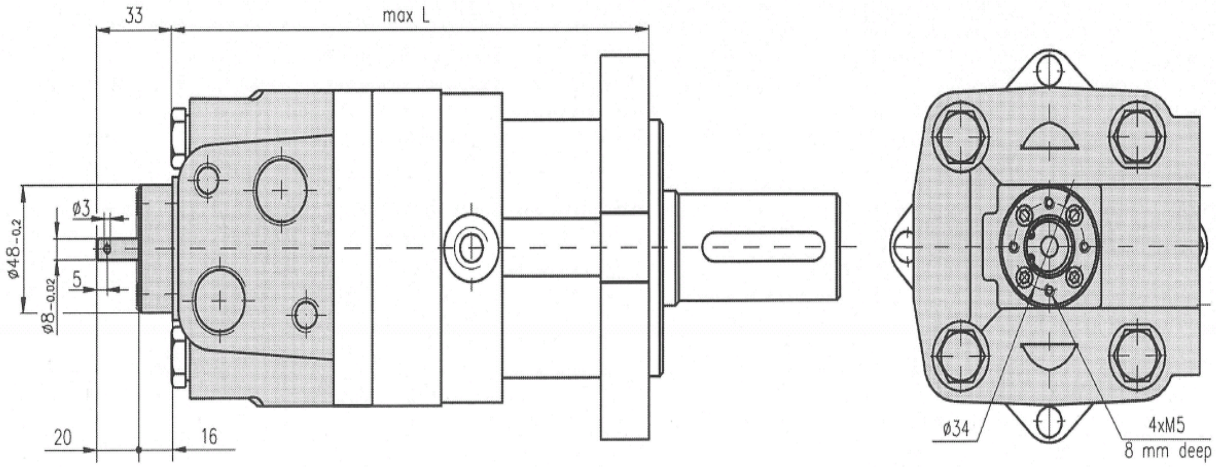
Max. return pressure without drain line or max. pressure in the drain line



1: Drawing for Standard Shaft Seal
2: Drawing for High Pressure Seal ("**U**" Seal)

——— - continuous operations
----- - intermittent operations

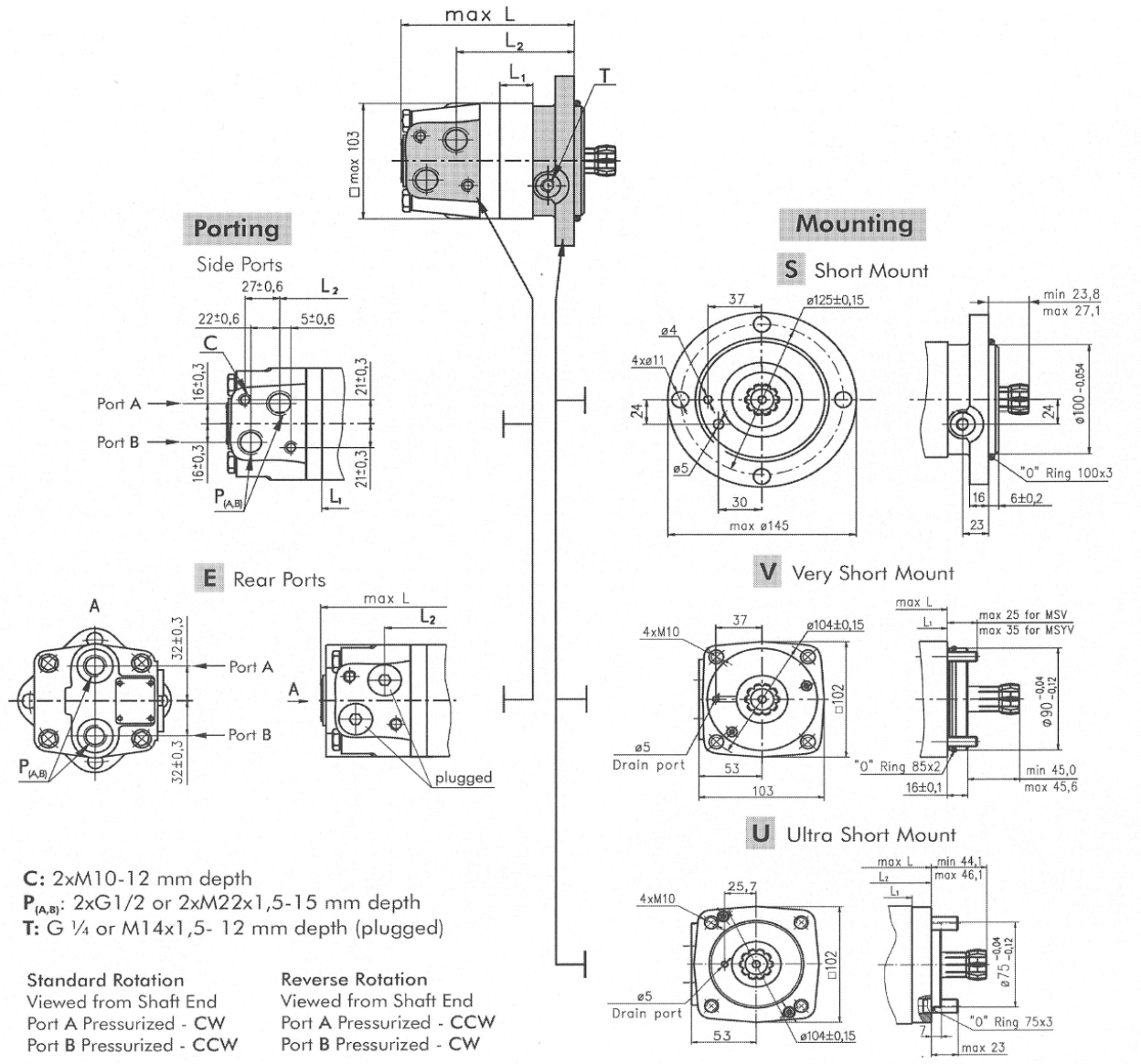
Motor met tachoaansluiting



MS

Orbitmotoren

Afmetingen en uitvoeringen MSS, MSV en MSU



C: 2xM10-12 mm depth
P(A,B): 2xG1/2 or 2xM22x1,5-15 mm depth
T: G ¼ or M14x1,5- 12 mm depth (plugged)

Standard Rotation
Viewed from Shaft End
Port A Pressurized - CW
Port B Pressurized - CCW

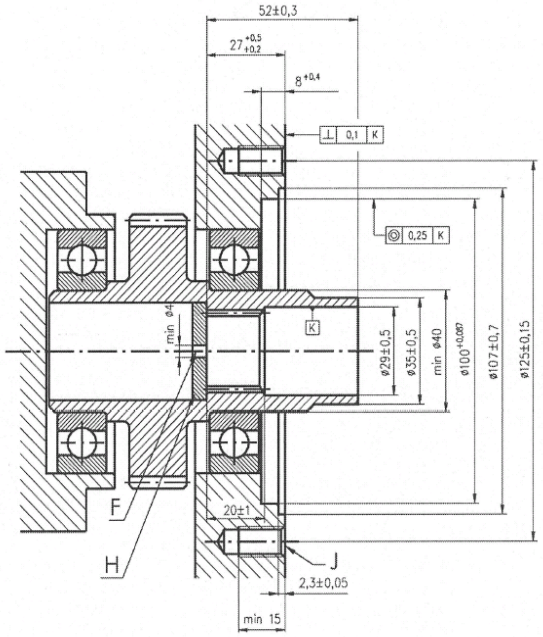
Reverse Rotation
Viewed from Shaft End
Port A Pressurized - CCW
Port B Pressurized - CW

Type	L, mm	L2, mm	Type	L, mm	Type	L, mm	L2, mm	Type	L, mm	Type	L, mm	L2, mm	Type	L, mm	L1, mm
MSS 80	125	83	MSSE 80	134	MSV 80	91	47	MSVE 80	97	MSU 80	105,5	63	MSUE 80	111,5	14
MSS 100	129	87	MSSE 100	138	MSV 100	94	50,5	MSVE 100	100	MSU 100	109	66,5	MSUE 100	115	17,4
MSS 125	133	90	MSSE 125	141	MSV 125	100	55	MSVE 125	105	MSU 125	113	71	MSUE 125	119	21,8
MSS 160	139	96	MSSE 160	147	MSV 160	106	61	MSVE 160	111	MSU 160	119	77	MSUE 160	125	27,8
MSS 200	146	103	MSSE 200	154	MSV 200	113	68	MSVE 200	118	MSU 200	126	84	MSUE 200	132	34,8
MSS 250	155	112	MSSE 250	163	MSV 250	121	76,5	MSVE 250	126	MSU 250	135	92,5	MSUE 250	141	43,5
MSS 315	166	123	MSSE 315	174	MSV 315	133	88	MSVE 315	138	MSU 315	146	104	MSUE 315	152	54,8
MSS 400	181	138	MSSE 400	189	MSV 400	147	103	MSVE 400	153	MSU 400	160	119	MSUE 400	167	69,4
MSS 475	194	152	MSSE 475	203	MSV 475	161	116	MSVE 475	166	MSU 475	174	132	MSUE 475	180	82,6
MSS 525	186	144	MSSE 525	195	MSV 525	153	108	MSVE 525	158	MSU 525	166	124	MSUE 525	172	74,5
MSS 565	192	150	MSSE 565	201	MSV 565	159	114	MSVE 565	164	MSU 565	172	130	MSUE 565	178	80,2

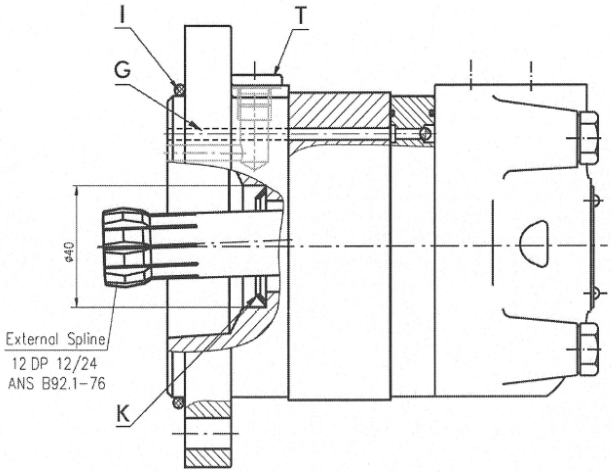
MS
Orbitmotoren

Afmetingen

For MSS

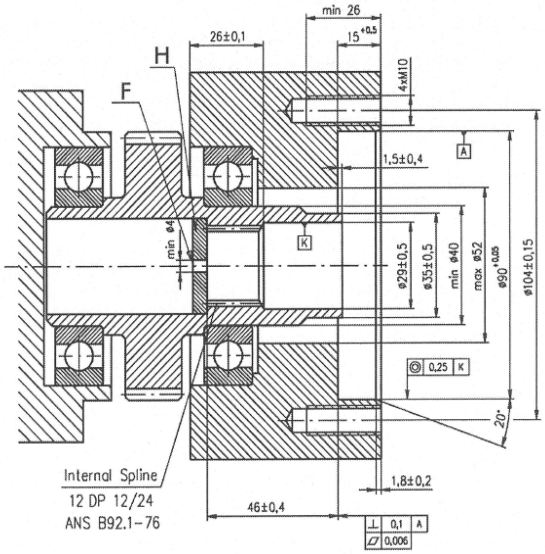


F: Oil circulation hole
H: Hardened stop plate
J: 4xM10-16 mm depth, 90°

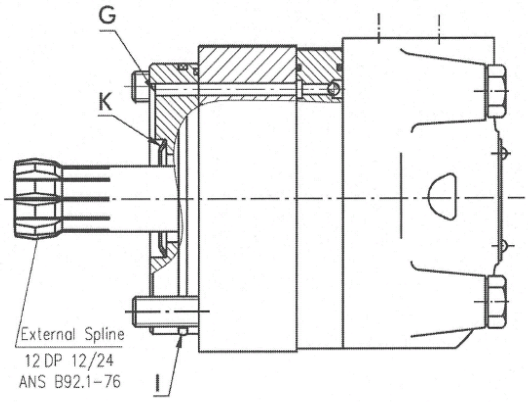


G: Internal drain channel
I : O- Ring 100x3mm
K: Conical seal ring
T: Drain connection G1/4 or M14x1,5

For MSV



F: Oil circulation hole
H: Hardened stop plate

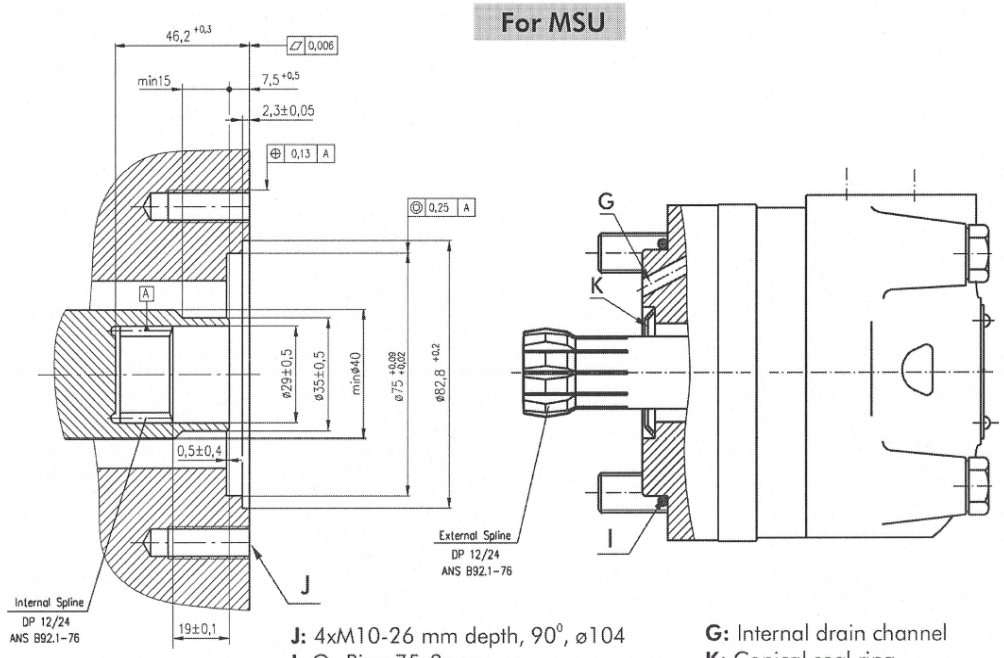


G: Internal drain channel
I: O- Ring 85x2 mm
K: Conical seal ring

MS
Orbitmotoren

Afmetingen

For MSU



J: 4xM10-26 mm depth, 90°, ø104
I: O- Ring 75x3 mm

G: Internal drain channel
K: Conical seal ring

DRAIN CONNECTION

A drain line ought to be used when pressure in the return line can exceed the permissible pressure. It can be connected:

- For MSS at the drain port of the motor;
- For MSV and MSU at the drain connection of the attached component. The maximum pressure in the drain line is limited by the attached component and its shaft seal.

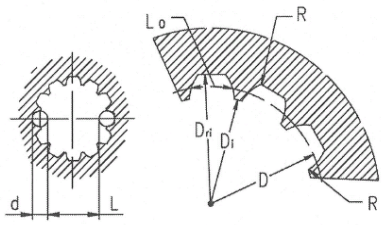
The drain line must be possible for oil to flow freely between motor and attached component and must be led to the tank. The maximum pressure in the drain line is limited by the attached component and its seal.

INTERNAL SPLINE DATA FOR THE ATTACHED COMPONENT

Standard ANS B92.1-1976, class 5
[m=2.1166; corrected x.m=+0,8]

Fillet Root Side Fit		mm
Number of Teeth	z	12
Diametral Pitch	DP	12/24
Pressure Angle		30°
Pitch Dia.	D	25,4
Major Dia.	Dri	$28,0_{-0,1}$
Minor Dia.	Di	$23,0^{+0,033}$
Space Width [Circular]	Lo	4,308±0,020
Fillet Radius	R	0,2
Max. Measurement between Pin	L	$17,62^{+0,15}$
Pin Dia.	d	4,835±0,001

Above are when hardened



Hardening Specification:
HV=750±50 on the surface
HV=560 at 0,7±0,2 mm case depth
Material 20 MoCr4 EN 10084 or better

MS
Orbitmotoren

Bestelcode

	1	2	3	4	5	6	7	8	9
MS									

Pos.1 - Mounting Flange

omit - SAE A-4 mount, four holes
A - SAE A-2 mount, two holes
F - Magneto mount, four holes
Q - Square mount, four holes
B - Motor with drum brake
S - Short mount
V - Very short mount
U - Ultra short mount
W - Wheel mount

Pos.2 - Port type

omit - Side ports
E - Rear ports

Pos.3 - Displacement code

80 - 80,5 [cm³/rev]
100 - 100,0 [cm³/rev]
125 - 125,7 [cm³/rev]
160 - 159,7 [cm³/rev]
200 - 200,0 [cm³/rev]
250 - 250,0 [cm³/rev]
315 - 314,9 [cm³/rev]
400 - 397,0 [cm³/rev]
475 - 474,6 [cm³/rev]
525 - 522,7 [cm³/rev]
565 - 564,9 [cm³/rev]

Pos.4 - Shaft Extensions*

omit - for **B**, **S**, **U** and **V** mounting flange
C - ø32 straight, Parallel key A10x8x45 DIN6885
CO - ø1¼" straight, Parallel key $^{5}/_{16}$"x$^{5}/_{16}$"x1¼" BS46
K - ø35 tapered 1:10, Parallel key B6x6x20 DIN6885
SL - ø34,85 p.t.o. DIN 9611 Form 1
SH - ø1¼" splined 14T ANSI B92.1-1976

Pos. 5 - Shaft Seal Version (see page 19)

omit - Low pressure seal
U - High pressure seal

Pos. 6 - Ports

omit - BSPP (ISO 228)
M - Metric (ISO 262)

Pos. 7 - Actuating Direction**

/R - Right
/L - Left

Pos. 8 - Special Features (see page 65)

Pos. 9 - Design Series

omit - Factory specified

NOTES:
* The permissible output torque for shafts must not be exceeded!
** Only for MSB

The hydraulic motors are mangano-phosphatized as standard.

MSY

Orbitmotoren

De MSY motor is een motor vergelijkbaar met de MS motoren maar met een hogere drukval en grotere maximale torque, dus groter vermogen

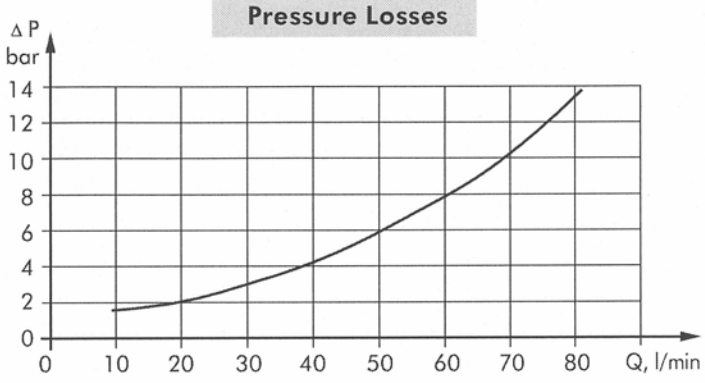
Algemene informatie

Displacement, [cm^3/rev.]	200÷474,6
Max. Speed, [RPM]	155÷375
Max. Torque, [daNm]	56,6÷91
Max. Output, [kW]	9÷18,1
Max. Pressure Drop, [bar]	140÷200
Max. Oil Flow, [l/min]	75
Min. Speed, [RPM]	5÷8
Permissible Shaft Loads, [daN]	P_a=500
Pressure fluid	Mineral based- HLP(DIN 51524) or HM(ISO 6743/4)
Temperature range, [°C]	-30÷90
Optimal Viscosity range, [mm^2/s]	20÷75
Filtration	ISO code 20/16 (Min. recommended fluid filtration of 25 micron)

Oil flow in drain line

Pressure drop (bar)	Viscosity (mm^2/s)	Oil flow in drain line (l/min)
140	20	1,5
	35	1
210	20	3
	35	2

Pressure Losses



MSY

Orbitmotoren

Technische Informatie

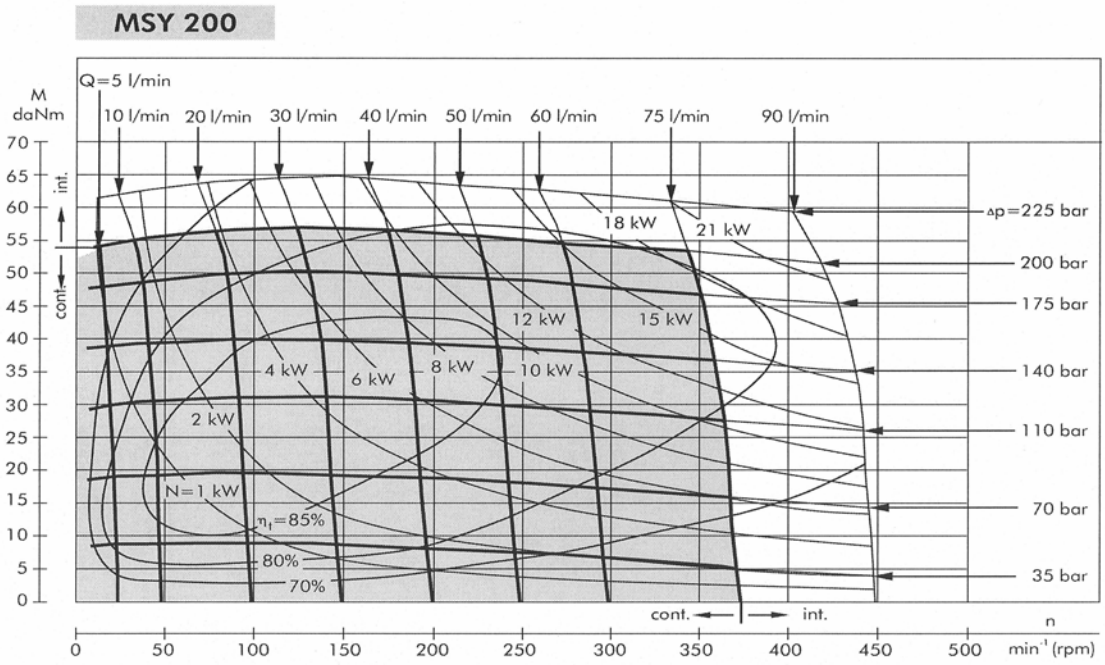
Type		MSY 200	MSY 250	MSY 315	MSY 400	MSY 475
Displacement [cm³/rev.]		200	250	314,9	397	474,6
Max. Speed,	cont.	375	300	240	185	155
[RPM]	Int.*	450	360	285	225	185
Max. Torque	cont.	56,6	70,8	90,0	90,0	91
[daNm]	Int.*	64,5	80,6	96,0	97,0	96
	peak**	65	80,6	108	110	100
Max. Output	cont.	18,1	18,0	17	11,0	9,0
[kW]	int.*	24,0	23,8	20,2	12	11,0
Max. Pressure Drop	cont.	200	200	200	160	140
[bar]	Int.*	225	225	220	175	150
	peak**	225	225	225	200	175
Max. Oil Flow	cont.	75	75	75	75	75
[l/min]	Int.*	90	90	90	90	90
Max. Inlet Pressure	cont.	210	210	210	210	210
[bar]	Int.*	250	250	250	250	250
	peak**	300	300	300	300	300
Max. Return Pressure	cont.	140	140	140	140	140
with Drain Line	Int.*	175	175	175	175	175
[bar]	peak**	210	210	210	210	210
Max. Starting Pressure with Unloaded Shaft, [bar]		8	8	8	8	8
Min. Starting Torque	at max. press. drop cont.	46,2	58,0	73,8	72,0	47
[daNm]	at max. press. drop Int.*	50,7	63,6	79,2	78,7	55
Min. Speed***, [RPM]		6	6	5	5	5
Weight, [kg]	MSY (F)	11,2	11,7	12,4	13,3	14,4
For Rear Ports	MSYW	11,7	12,2	12,9	13,8	15,0
+0,4 kg	MSYQ	11,6	12,1	12,8	13,7	14,9

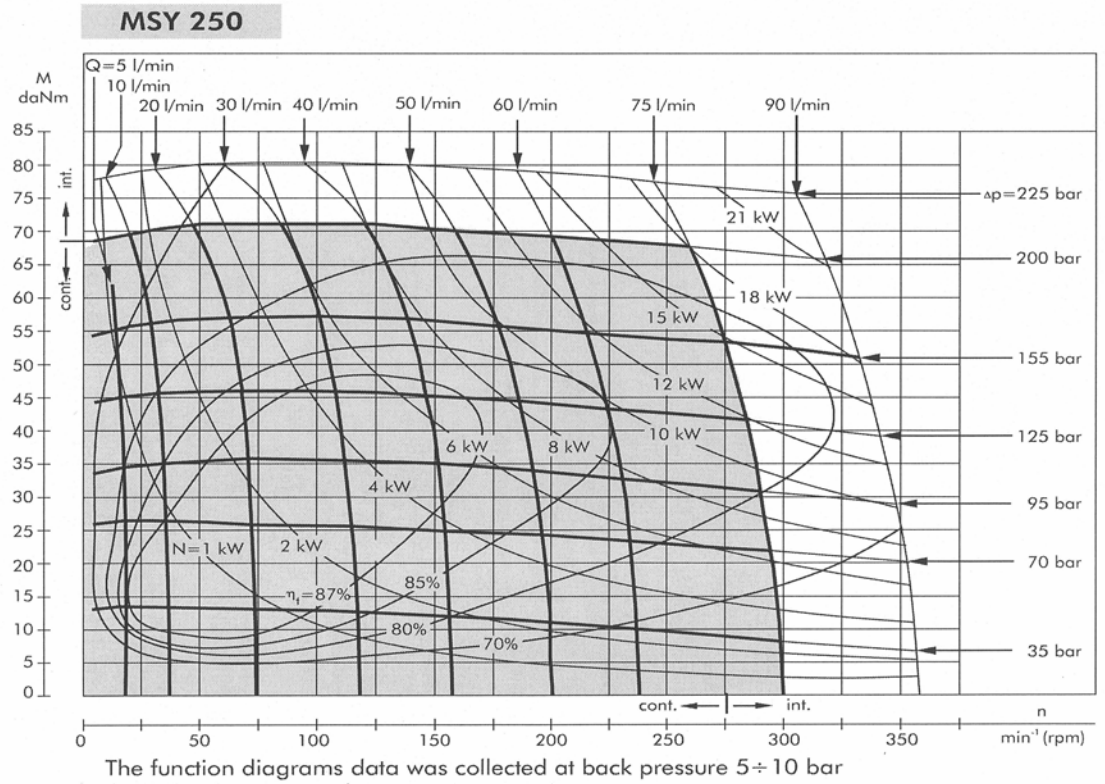
* Tijdelijk gebruik: gebruik gedurende max. 10% per minuut.
** Piekbelasting maximaal 1% per minuut
*** Voor toerentallen van 5 RPM of minder dan opgegeven, neem contact op met M+S of onze medewerkers.
1 tijdelijke hoge drukvallen en hoge oliestromen mogen niet gelijktijdig voorkomen
2 Filtering dient plaats te vinden volgens ISO vervuilingsgraad 20/16. Nominale filtering van 25 micron of beter.
3 Er wordt aanbevolen een hydraulische olie te gebruiken op basis van minerale olie type HPL (DIN51524) of HM (ISO 6743/4) Voordat U alternatieve smeermiddelen gebruikt, zoals syntetische olieën dient er overlegt te worden.
4 Aanbevolen minerale viscositeit is 13mm² bij 50Cº.
5 Aanbevolen maximum olietemperatuur tijdens gebruik is 85 Cº.
6 De levensduur van de motoren kan men verhogen als men de aandrijfas 10 tot 15 minuten onbelast laat draaien voor de motor volledig te belasten.

MSY

Orbitmotoren

Functiediagrammen



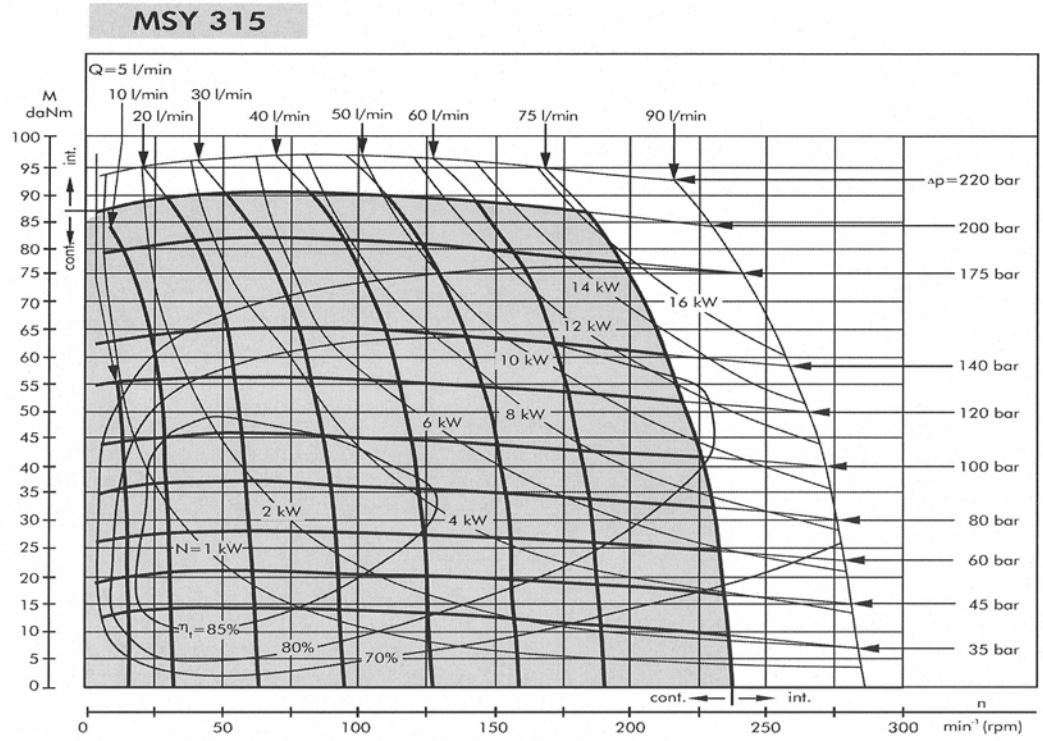


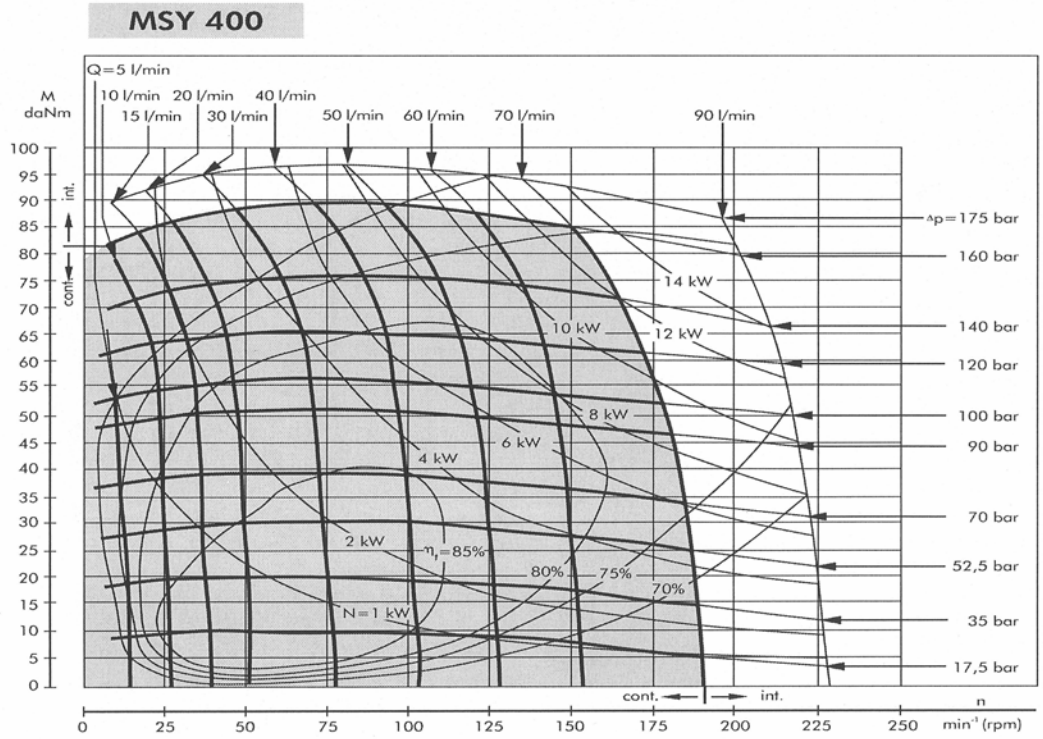
The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MSY

Orbitmotoren

Functiediagrammen



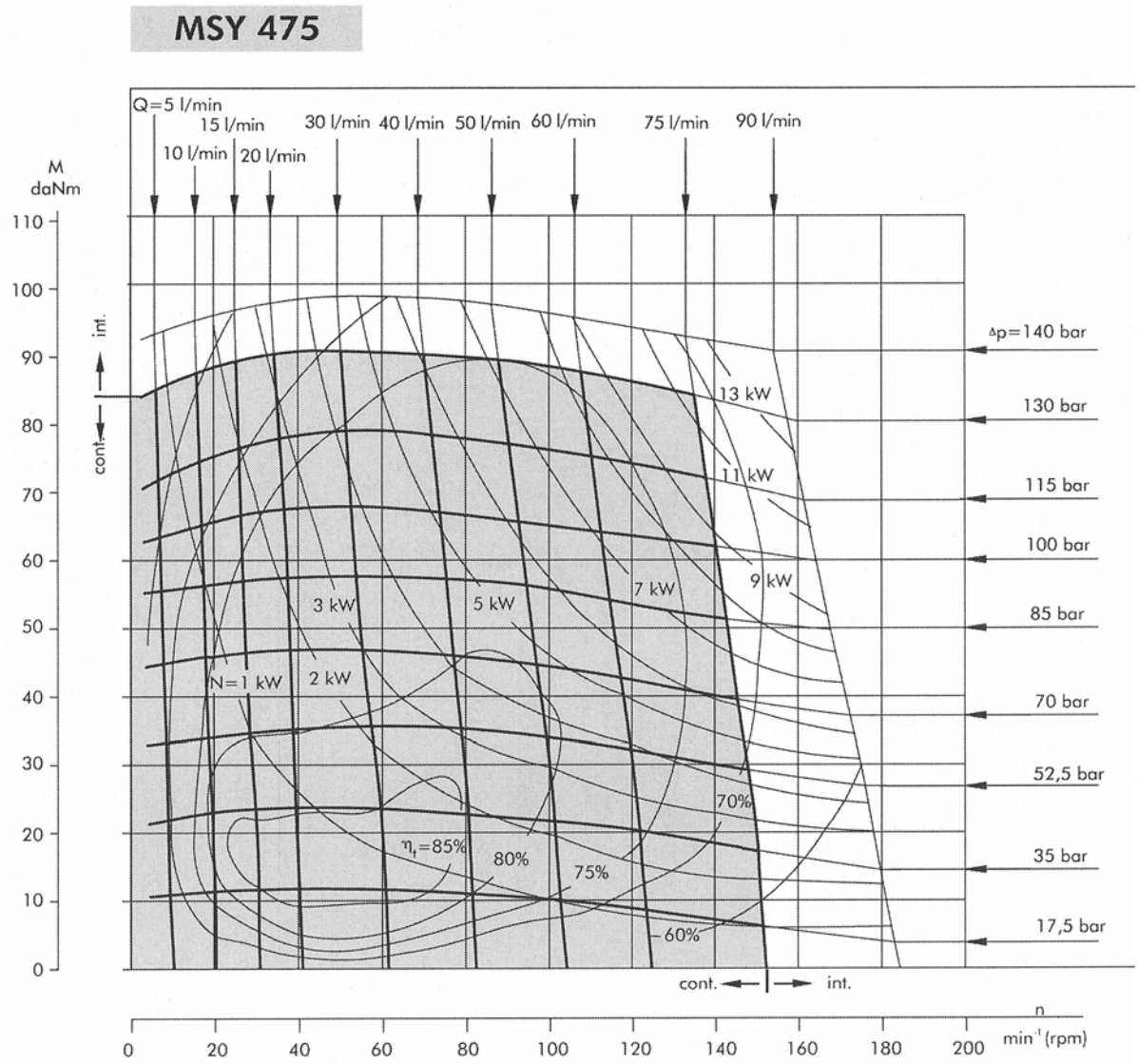


The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MSY

Orbitmotoren

Functiediagrammen



The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MSY

Orbitmotoren

Bestelgegevens

	1	2	3	4	5	6	7	8	9
MSY									

Pos.1 - Mounting Flange

omit - SAE A-4 mount, four holes
A - SAE A-2 mount, two holes
F - Magneto mount, four holes
Q - Square mount, four holes
B - Motor with drum brake
S - Short mount
V - Very short mount
W - Wheel mount

Pos.2 - Port type

omit - Side ports
E - Rear ports

Pos.3 - Displacement code

200 - 200,0 [cm^3/rev]
250 - 250,0 [cm^3/rev]
315 - 314,9 [cm^3/rev]
400 - 397,0 [cm^3/rev]
475 - 474,5 [cm^3/rev]

Pos. 4 - Shaft Extensions*

omit - for **B**, **S** and **V** mounting flange
C - ø32 straight, Parallel key A10x8x45 DIN6885
K - ø35 tapered 1:10, Parallel key B6x6x20 DIN6885
SL - ø34,85 p.t.o. DIN 9611 Form 1
SH - ø1¼" splined 14T ANS B92.1-1976

Pos. 5 - Shaft Seal Version (see page 19)

omit - Low pressure seal
U - High pressure seal

Pos. 6 - Ports

omit - BSPP (ISO 228)
M - Metric (ISO 262)

Pos. 7 - Actuating Direction**

/R - Right
/L - Left

Pos. 8 - Special Features (see page 65)

Pos. 9 - Design Series

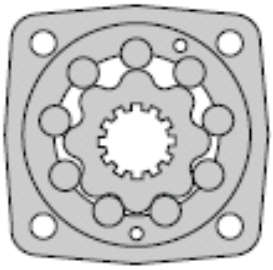
omit - Factory specified

NOTES:

* The permissible output torque for shafts must not be exceeded!
** Only for MSYB

The hydraulic motors are mangano-phosphatized as standard.

MT
Orbitmotoren



De krachtige MT motoren worden geleverd in de bouwgrote van 160 tot 725 cm³ en biedt een vermogen tot 40kW.

De MT is zeer geschikt in systemen met een piekdruk tot 250 bar.

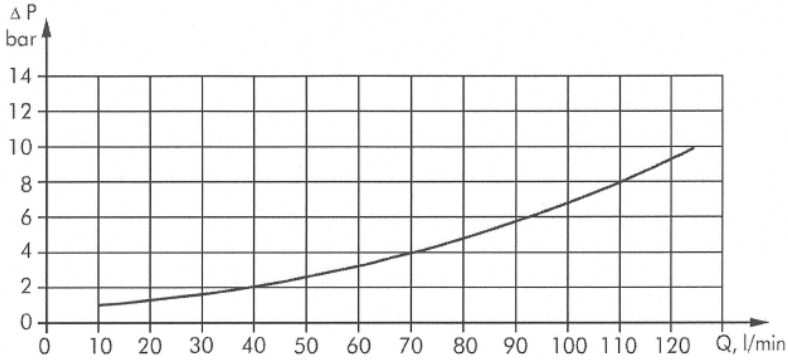
Algemene informatie

Displacement, [cm³/rev.]	161,1÷724,3
Max. Speed, [RPM]	172÷625
Max. Torque, [daNm]	47÷122
Max. Output, [kW]	20,2÷33,5
Max. Pressure Drop, [bar]	120÷200
Max. Oil Flow, [l/min]	100÷125
Min. Speed, [RPM]	5÷10
Permissible Shaft Loads, [daN]	P_a=1000
Pressure fluid	Mineral based- HLP(DIN 51524) or HM(ISO 6743/4)
Temperature range, [°C]	-30÷90
Optimal Viscosity range, [mm²/s]	20÷75
Filtration	ISO code 20/16 (Min. recommended fluid filtration of 25 micron)

Oil flow in drain line

Pressure drop (bar)	Viscosity (mm²/s)	Oil flow in drain line (l/min)
140	20	2,5
	35	1,5
210	20	5
	35	3

Pressure Losses



MT
Orbitmotoren

Technische informatie

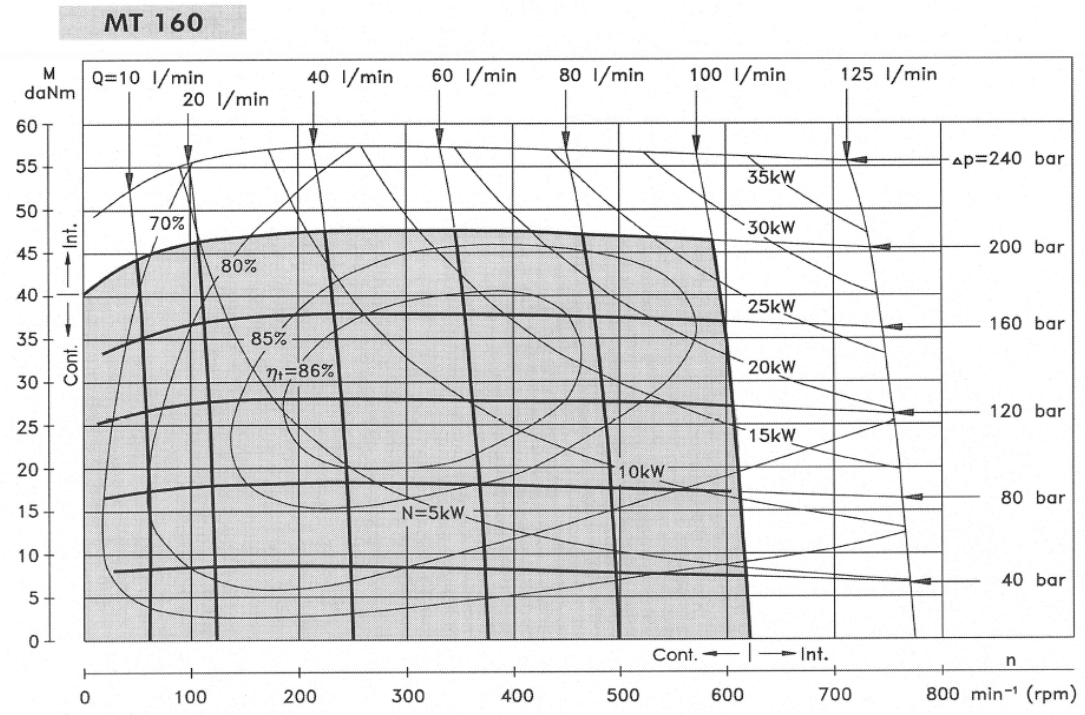
Type		MT 160	MT 200	MT 250	MT 315	MT 400	MT 500	MT 630	MT 725
Displacement [cm³/rev.]		161,1	201,4	251,8	326,3	410,9	523,6	631,2	724,3
Max. Speed,	cont.	625	625	500	380	305	240	197	172
[RPM]	Int.*	780	750	600	460	365	285	240	210
Max. Torque	cont.	47	59	73	95	108	122	122	120
[daNm]	Int.*	56	71	88	114	126	137	140	140
	peak**	66	82	102	133	144	160	165	165
Max. Output	cont.	26,5	33,5	33,5	33,5	30	26,5	24,3	20,2
[kW]	int.*	32	40	40	40	35	30	27,5	26,8
Max. Pressure Drop	cont.	200	200	200	200	180	160	140	120
[bar]	Int.*	240	240	240	240	210	180	160	140
	peak**	280	280	280	280	240	210	190	165
Max. Oil Flow	cont.	100	125	125	125	125	125	125	125
[l/min]	Int.*	125	150	150	150	150	150	151,4	151,4
Max. Inlet Pressure	cont.	210	210	210	210	210	210	210	210
[bar]	Int.*	250	250	250	250	250	250	250	250
	peak**	300	300	300	300	300	300	300	300
Max. Return Pressure	cont.	140	140	140	140	140	140	140	140
with Drain Line	Int.*	175	175	175	175	175	175	175	175
[bar]	peak**	210	210	210	210	210	210	210	210
Max. Starting Pressure with Unloaded Shaft, [bar]		10	10	10	10	10	10	10	10
Min. Starting Torque	at max. press. drop cont.	34	43	53	74	84	95	95	95
[daNm]	at max. press. drop Int.*	41	52	63	89	97	106	110	115
Min. Speed***, [RPM]		10	9	8	7	6	5	5	5
Weight, [kg]	MT	20	20,5	21	22	23	24	23,5	24,5
For Rear Ports	MTW	22	22,5	23	24	25	26	25,5	26,5
+0,45 kg	MTS	15	15,5	16	17	18	19	18,5	19,5
	MTV	11	11,5	12	13	14	15	14,5	15,5

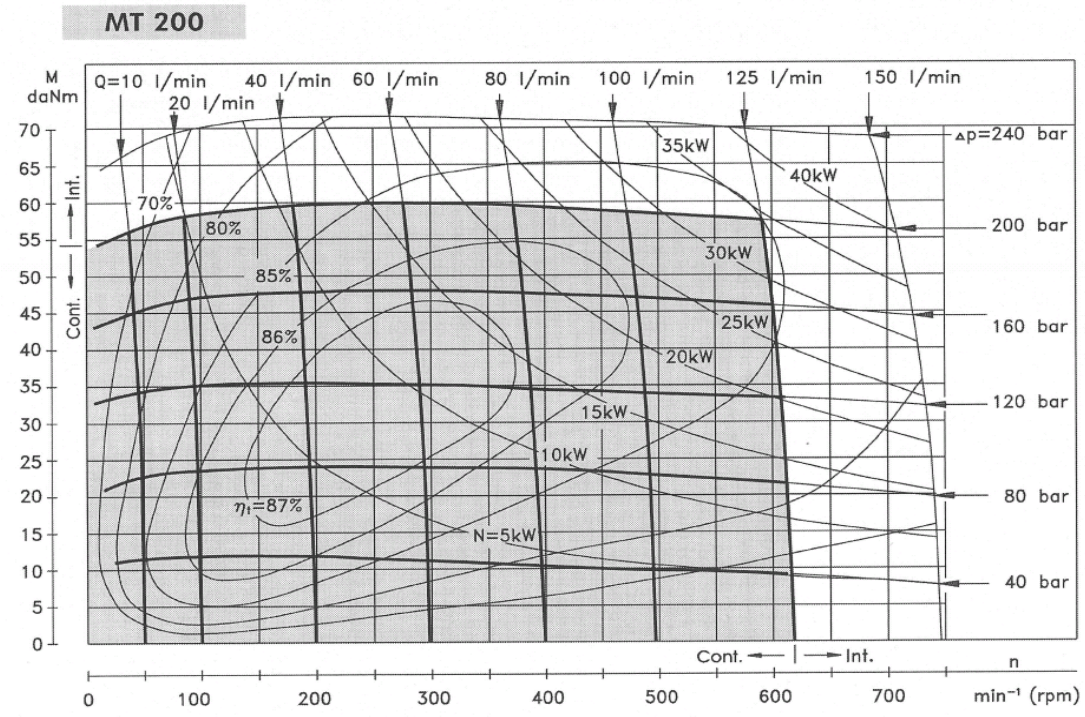
* Tijdelijk gebruik: gebruik gedurende max. 10% per minuut.
** Piekbelasting maximaal 1% per minuut
*** Voor toerentallen van 5 RPM of minder dan opgegeven, neem contact op met M+S of onze medewerkers.
1 tijdelijke hoge drukvallen en hoge oliestromen mogen niet gelijktijdig voorkomen
2 Filtering dient plaats te vinden volgens ISO vervuilingsgraad 20/16. Nominale filtering van 25 micron of beter.
3 Er wordt aanbevolen een hydraulische olie te gebruiken op basis van minerale olie type HPL (DIN51524) of HM (ISO 6743/4) Voordat U alternatieve smeermiddelen gebruikt, zoals syntetische olieën dient er overlegt te worden.
4 Aanbevolen minerale viscositeit is 13mm² bij 50Cº.
5 Aanbevolen maximum olietemperatuur tijdens gebruik is 85 Cº.
6 De levensduur van de motoren kan men verhogen als men de aandrijfas 10 tot 15 minuten onbelast laat draaien voor de motor volledig te belasten.

MT

Orbitmotoren

Functiediagrammen





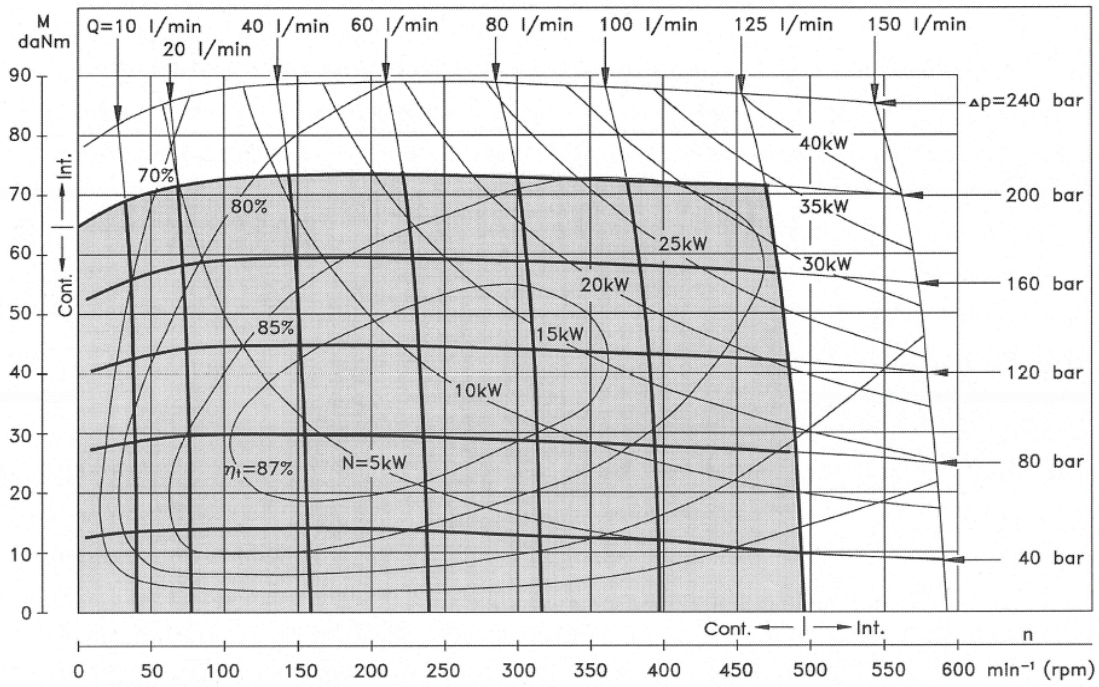
The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MT

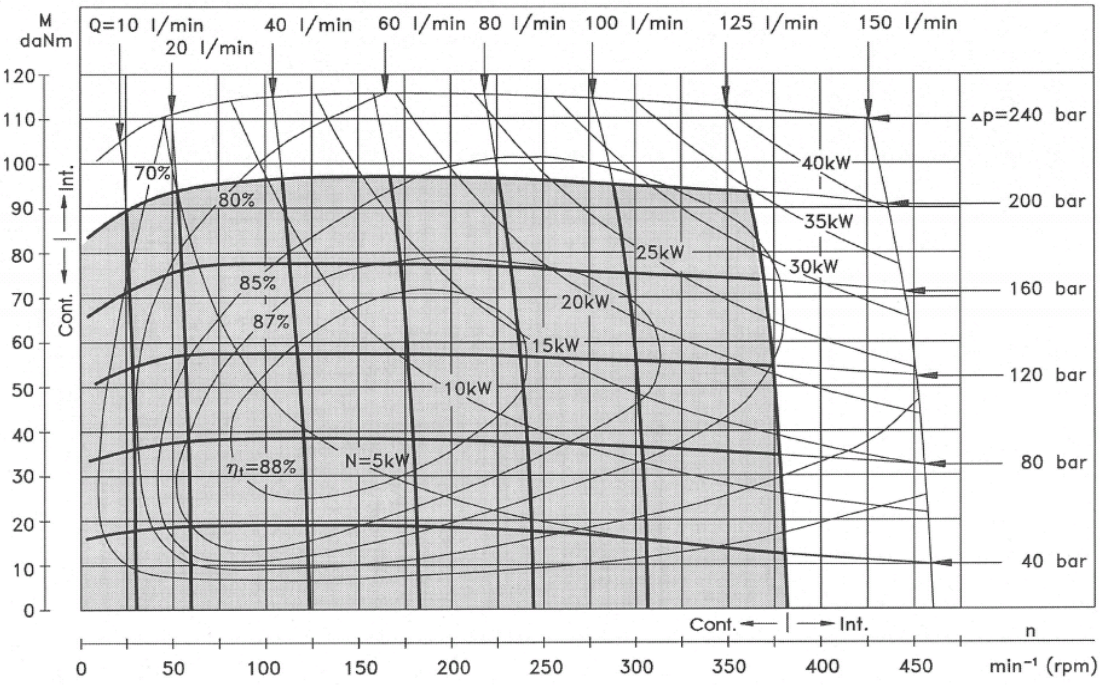
Orbitmotoren

Functiediagrammen

MT 250



MT 315

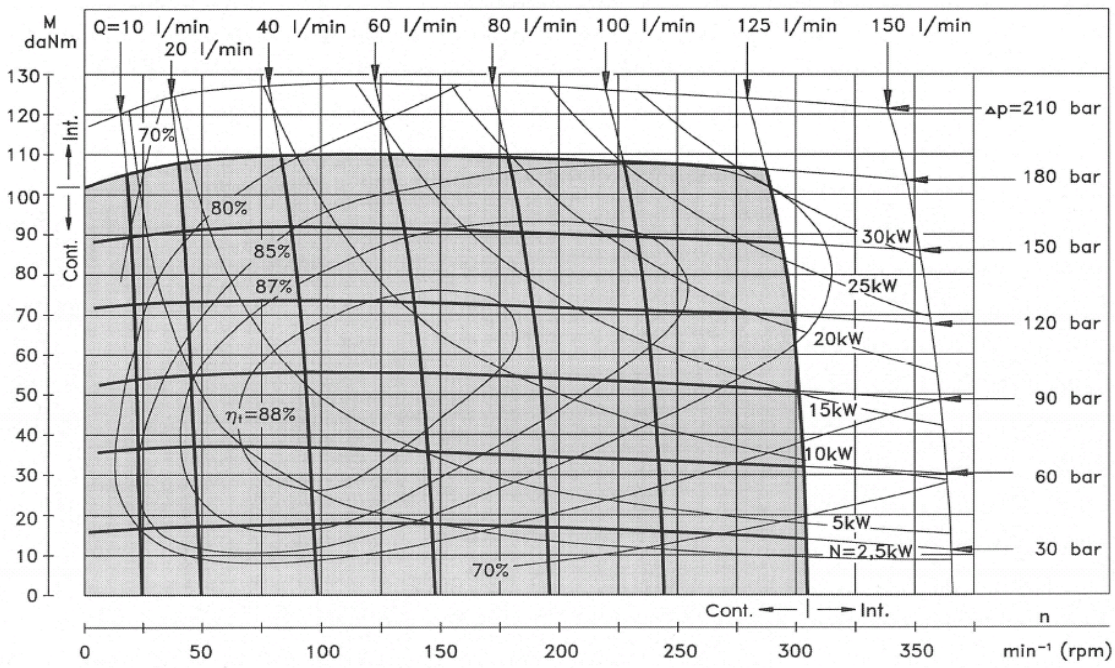


MT

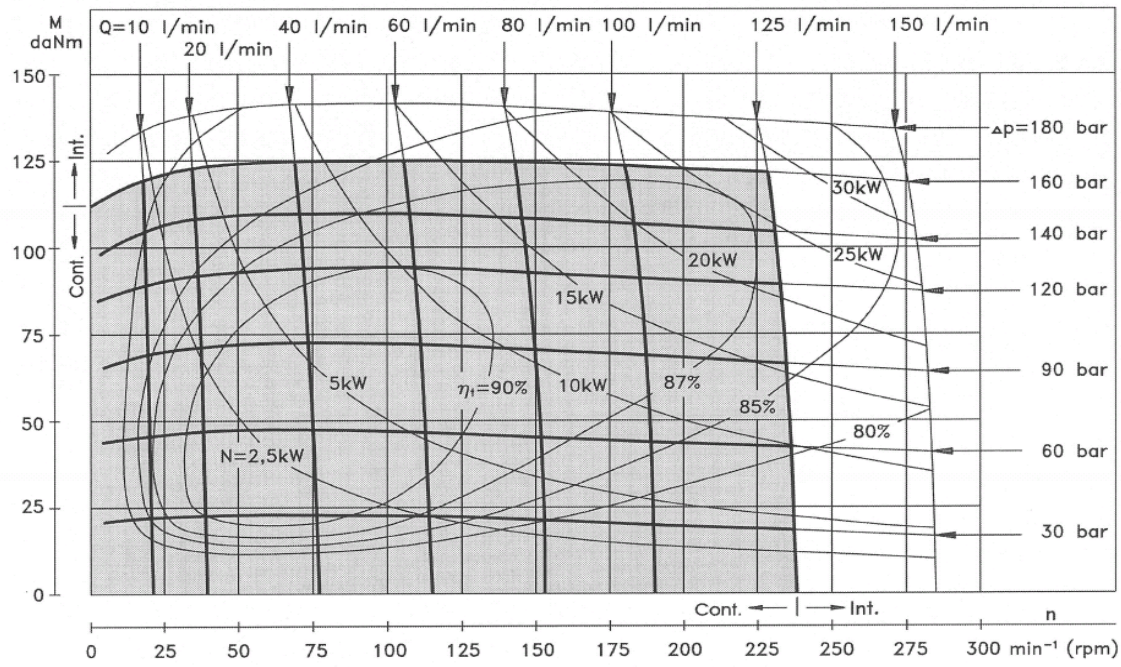
Orbitmotoren

Functiediagrammen

MT 400



MT 500

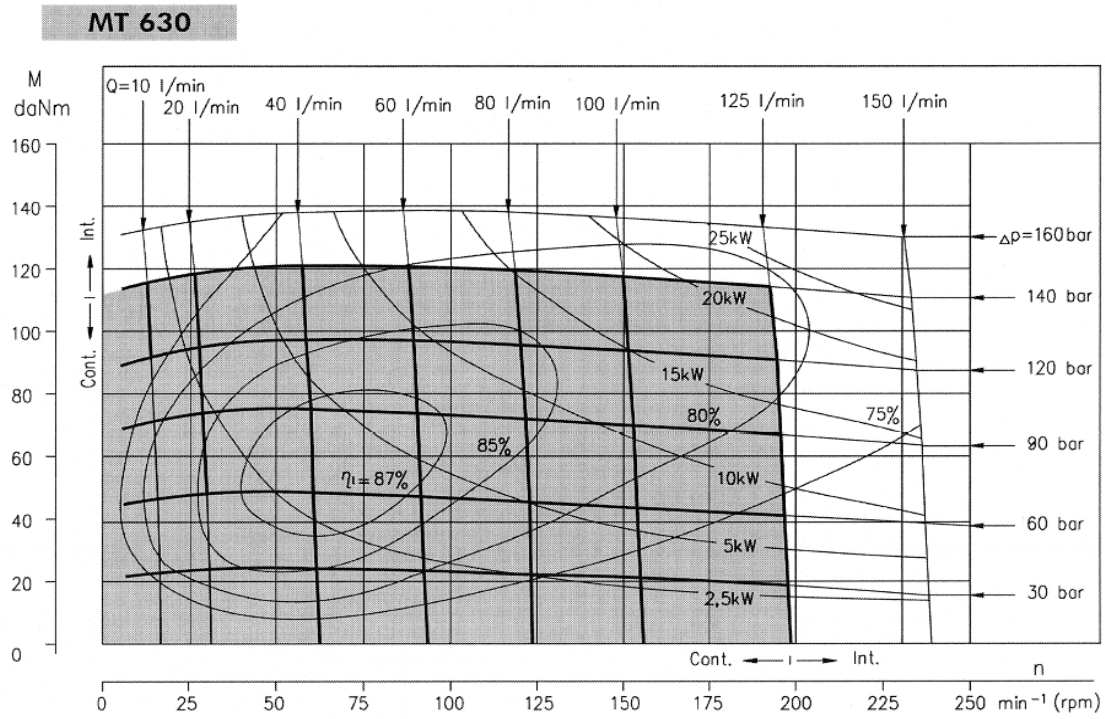


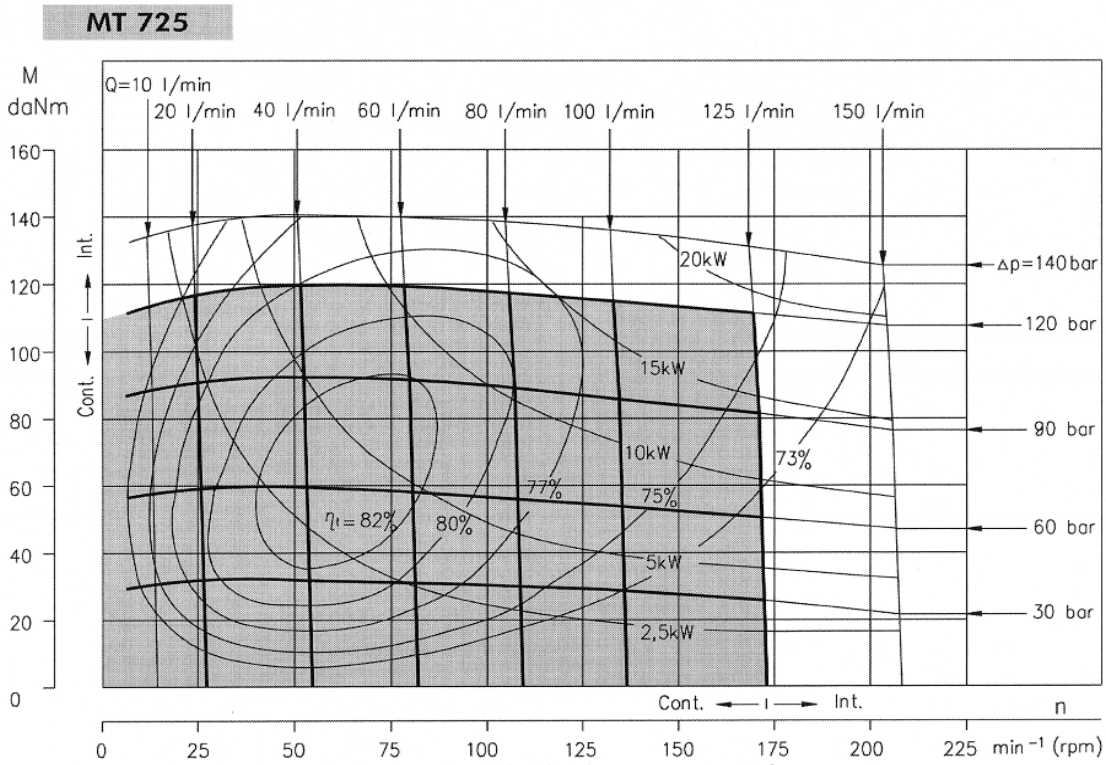
The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MT

Orbitmotoren

Functiediagrammen



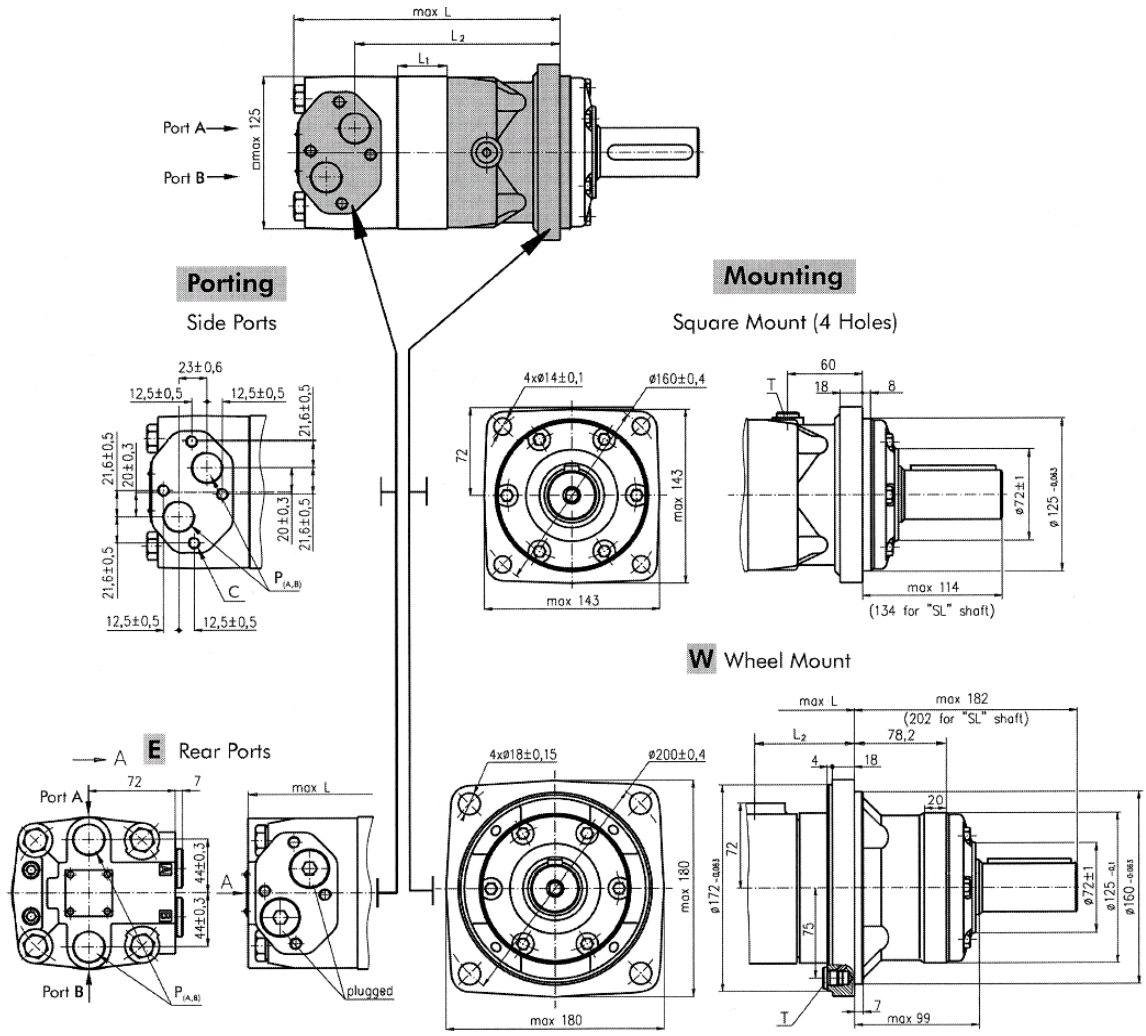


The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MT

Orbitmotoren

Afmetingen en uitvoeringen



Standard Rotation
Viewed from Shaft End
Port A Pressurized - CW
Port B Pressurized - CCW

Reverse Rotation
Viewed from Shaft End
Port A Pressurized - CCW
Port B Pressurized - CW

C: 4xM10-10 mm depth
$P_{(A,B)}$: 2xG3/4 or 2xM27x2-17 mm depth
T: G 1/4 or M14x1,5 - 12 mm depth (plugged)

Type	L, mm	Type	L, mm	L_2, mm	Type	L, mm	Type	L, mm	L_2, mm	*L_1, mm
MT 160	190	MTE 160	200	140	MTW 160	123	MTWE 160	133	73	16,5
MT 200	195	MTE 200	205	145	MTW 200	128	MTWE 200	138	78	21,5
MT 250	201	MTE 250	211	151	MTW 250	134	MTWE 250	144	84	27,8
MT 315	211	MTE 315	221	161	MTW 315	144	MTWE 315	154	94	37,0
MT 400	221	MTE 400	231	171	MTW 400	154	MTWE 400	164	104	47,5
MT 500	235	MTE 500	245	185	MTW 500	168	MTWE 500	178	118	61,5
MT 630	231	MTE 630	241	181	MTW 630	164	MTWE 630	174	114	57,5
MT 725	240	MTE 725	250	190	MTW 725	173	MTWE 725	183	123	66,5

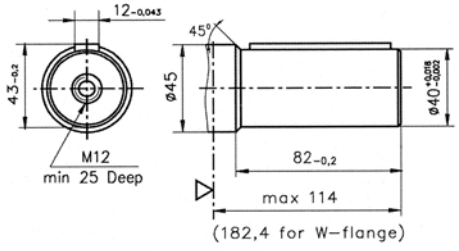
* The width of the roll-gerotor is 3,5 mm greater than L_1.

MT

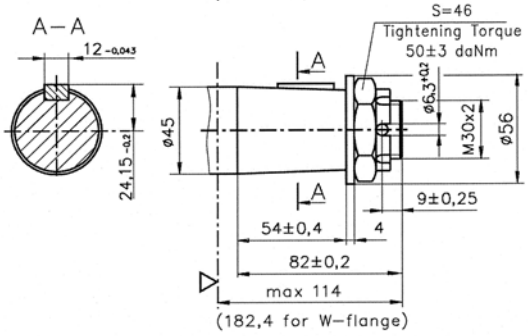
Orbitmotoren

Mogelijke assen

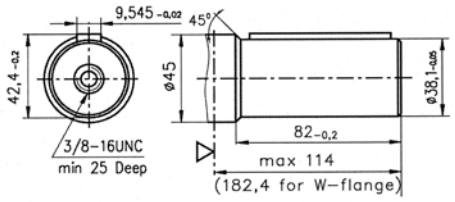
C -ø40 straight, Parallel key A12x8x70 DIN 6885
Max. Torque 132,8 daNm



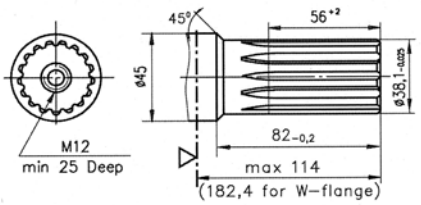
K -tapered 1:10, Parallel key B12x8x28 DIN 6885
Max. Torque 210,7 daNm



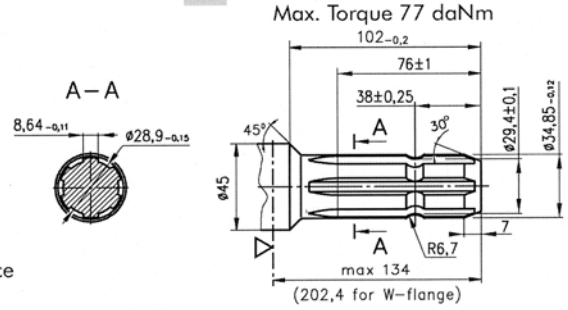
CO -ø1½" straight, Parallel key ⅜"x ⅜"x 2¼" BS46
Max. Torque 132,8 daNm



SH -ø1½" splined 17T, DP 12/24 ANSI B92.1-1976
Max. Torque 132,8 daNm



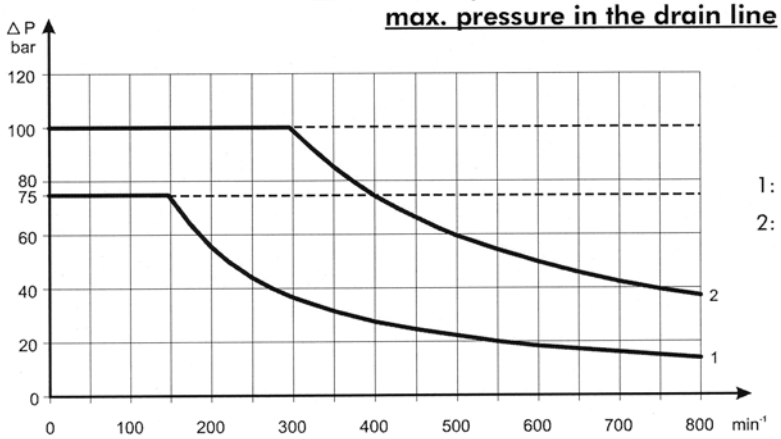
SL -ø34,85 p.t.o. DIN 9611 Form 1
Max. Torque 77 daNm



▽ - Motor Mounting Surface

MAX. PERMISSIBLE SHAFT SEAL PRESSURE for MT motors

Max. return pressure without drain line or max. pressure in the drain line



1: Drawing for Standard Shaft Seal
2: Drawing for High Pressure Seal ("**U**" Seal)

——— - continuous operations
- - - - - - intermittent operations

MT

Orbitmotoren

Bestelgegevens

ORDER CODE

	1	2	3	4	5	6	7	8
M T								

Pos.1 - Mounting Flange

omit - Square mount, four holes
S - Short mount
V - Very short mount
W - Wheel mount

Pos.2 - Port type

omit - Side ports
E - Rear ports

Pos.3 - Displacement code

160 - 161,1 [cm³/rev]
200 - 201,4 [cm³/rev]
250 - 251,8 [cm³/rev]
315 - 326,3 [cm³/rev]
400 - 410,9 [cm³/rev]
500 - 523,6 [cm³/rev]
630 - 631,2 [cm³/rev]
725 - 724,3 [cm³/rev]

Pos.4 - Shaft Extensions*

omit - for **S** and **V** mounting flange
C - ø40 straight, Parallel key A12x8x70 DIN6885
CO - ø1½ " straight, Parallel key $^{3}/_{8}$"x$^{3}/_{8}$"x2¼" BS46
K - ø45 tapered 1:10, Parallel key B12x8x28 DIN6885
SL - ø34,85 p.t.o. DIN 9611 Form 1
SH - ø1½" splined 17T ANS B92.1-1976

Pos.5 - Shaft Seal Version (see page 38)

omit - Low pressure seal
U - High pressure seal

Pos.6 - Ports

omit - BSPP (ISO 228)
M - Metric (ISO 262)

Pos.7 - Special Features (see page 65)

Pos.8 - Design Series

omit - Factory specified

NOTES:

* The permissible output torque for shafts must not be exceeded!

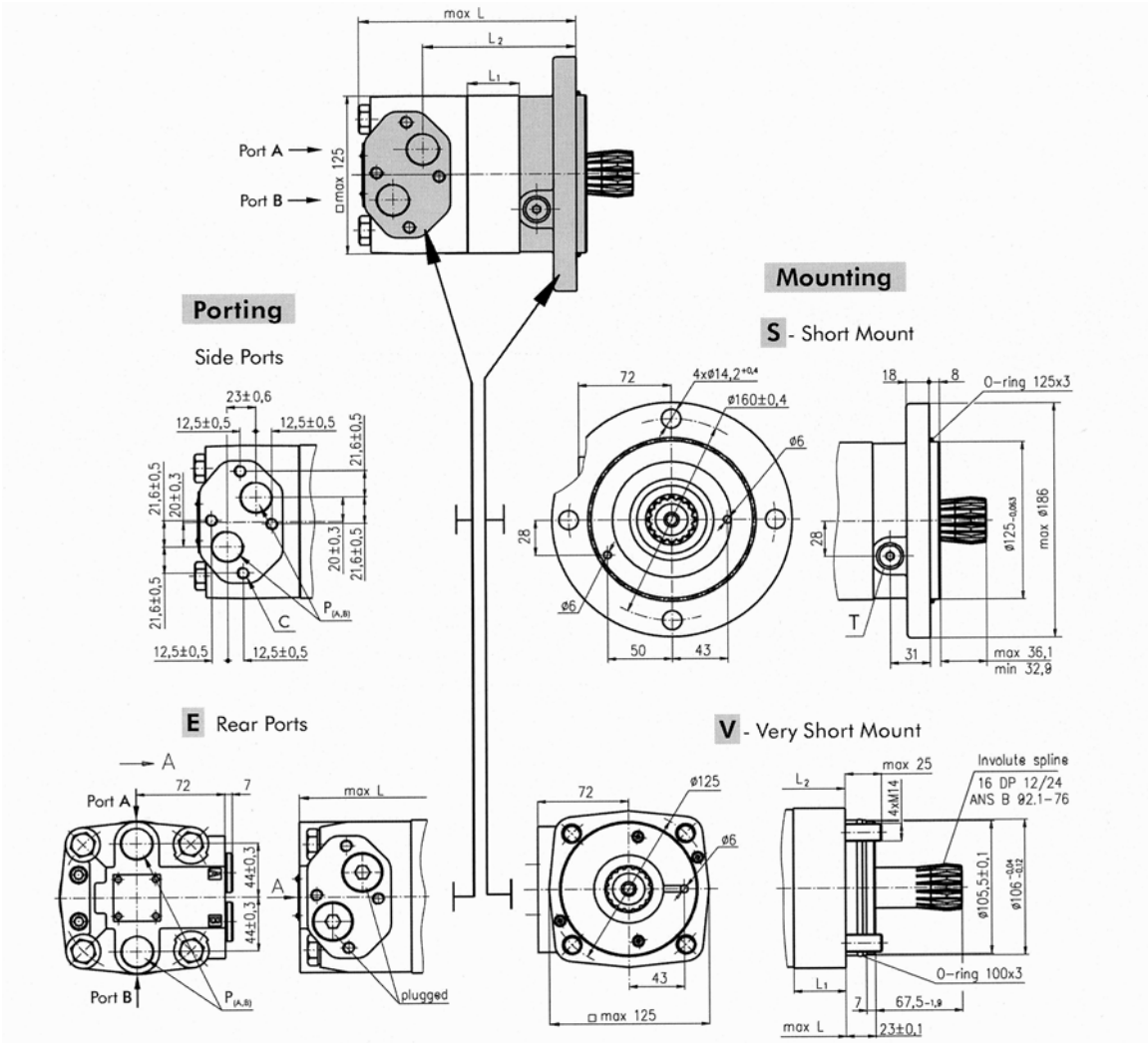
The hydraulic motors are mangano-phosphatized as standard.

Overige gegevens op aanvraag leverbaar

MTS, MTV

Orbitmotoren

Afmetingen en uitvoeringen MTS, MTV



Standard Rotation
Viewed from Shaft End
Port A Pressurized - CW
Port B Pressurized - CCW

Reverse Rotation
Viewed from Shaft End
Port A Pressurized - CCW
Port B Pressurized - CW

C: 4xM10-10 mm depth
$P_{(A,B)}$: 2xG3/4 or 2xM27x2-17 mm depth
T: G ¼ or M14x1,5 - 12 mm depth (plugged)

Type	L, mm	Type	L, mm	L_2, mm	Type	L, mm	Type	L, mm	L_2, mm	*L_1, mm
MTS 160	146	MTSE 160	156	96	MTV 160	101	MTVE 160	111	51,5	16,5
MTS 200	151	MTSE 200	161	101	MTV 200	106	MTVE 200	116	56,5	21,5
MTS 250	157	MTSE 250	167	107	MTV 250	112	MTVE 250	122	62,8	27,8
MTS 315	166	MTSE 315	176	116	MTV 315	121	MTVE 315	131	72	37,0
MTS 400	177	MTSE 400	187	127	MTV 400	132	MTVE 400	142	82,5	47,5
MTS 500	191	MTSE 500	201	142	MTV 500	146	MTVE 500	156	96,5	61,5
MTS 630	187	MTSE 630	197	138	MTV 630	142	MTVE 630	152	92,5	57,5
MTS 725	196	MTSE 725	206	147	MTV 725	151	MTVE 725	161	101,5	66,5

* The width of the roll-gerotor is 3,5 mm greater than L_1.

Overige gegevens op aanvraag verkrijgbaar

MTM
Orbitmotoren

De krachtige nieuwe MTM motoren worden geleverd
in de bouwgrote van 200 tot 725 cm³ en
biedt een vermogen tot 41kW.
De MTM is zeer geschikt in een systeem met drukken tot 420 bar.

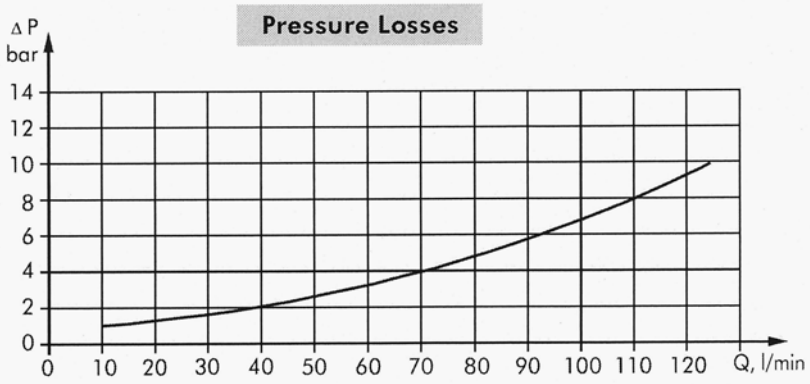
Algemene informatie

Displacement, [cm³/rev.]	201,4÷724,3
Max. Speed, [RPM]	625÷170
Max. Torque, [daNm]	72÷175
Max. Output, [kW]	28÷41
Max. Pressure Drop, [bar]	250÷160
Max. Oil Flow, [l/min]	125
Min. Speed, [RPM]	5
Permissible Shaft Loads, [daN]	P_a=1000
Pressure fluid	Mineral based- HLP(DIN 51524) or HM(ISO 6743/4)
Temperature range, [°C]	-30÷90
Optimal Viscosity range, [mm²/s]	20÷75
Filtration	ISO code 20/16 (Min. recommended fluid filtration of 25 micron)

Oil flow in drain line

Pressure drop (bar)	Viscosity (mm²/s)	Oil flow in drain line (l/min)
140	20	2,5
	35	1,5
210	20	5
	35	3

Pressure Losses



MTM

Orbitmotoren

Technische informatie

Type		MTM 200	MTM 250	MTM 315	MTM 400	MTM 470	MTM 500	MTM 630	MTM 725
Displacement [cm³/rev.]		201,4	251,8	326,3	410,9	475	523,6	631,2	724
Max. Speed, [RPM]	cont.	625	500	380	305	260	240	185	170
	Int.*	750	600	460	365	315	285	225	215
Max. Torque [daNm]	cont.	72	90	116	147	171	172	175	160
	Int.*	102	128	163	206	215	215	215	192
	peak**	115	144	186	235	240	240	250	240
Max. Output [kW]	cont.	41	41	41	41	41	37,5	28	26
	int.*	65	70	70	75	55	51	42	40
Max. Pressure Drop [bar]	cont.	250	250	250	250	250	230	185	160
	Int.*	350	350	350	350	315	280	225	210
	peak**	400	400	400	400	350	320	270	260
Max. Oil Flow [l/min]	cont.	125	125	125	125	125	125	125	125
	Int.*	150	150	150	150	150	150	150	150
Max. Inlet Pressure [bar]	cont.	270	270	270	270	270	270	270	270
	Int.*	370	370	370	370	370	370	370	370
	peak**	420	420	420	420	420	420	420	420
Max. Return Pressure without Drain Line or Max. Pressure in Drain Line , [bar]	cont. 0-100 RPM	75	75	75	75	75	75	75	75
	cont. 100-300 RPM	40	40	40	40	40	40	40	40
	cont. >300 RPM	20	20	20	20	20	-	-	-
	Int.* 0-max. RPM	75	75	75	75	75	75	75	75
Max. Return Pressure with Drain Line [bar]	cont.	270	270	270	270	270	270	270	270
	Int.*	370	370	370	370	370	370	370	370
	Peak**	420	420	420	420	420	420	420	420
Max. Starting Pressure with Unloaded Shaft, [bar]		6	6	6	6	6	6	6	6
Min. Starting Torque [daNm]		60	75	97	122	142	143	145	148
Min. Speed***, [RPM]		5	5	5	5	5	5	5	5
Weight, [kg]	MTM	26,9	27,3	28,1	29	29,7	30,2	29,7	31
	MTMW	27,4	27,8	28,6	29,5	30,2	30,7	30,2	31,5
	MTMV	15,7	16,1	16,9	17,8	18,5	19	18,5	19,8

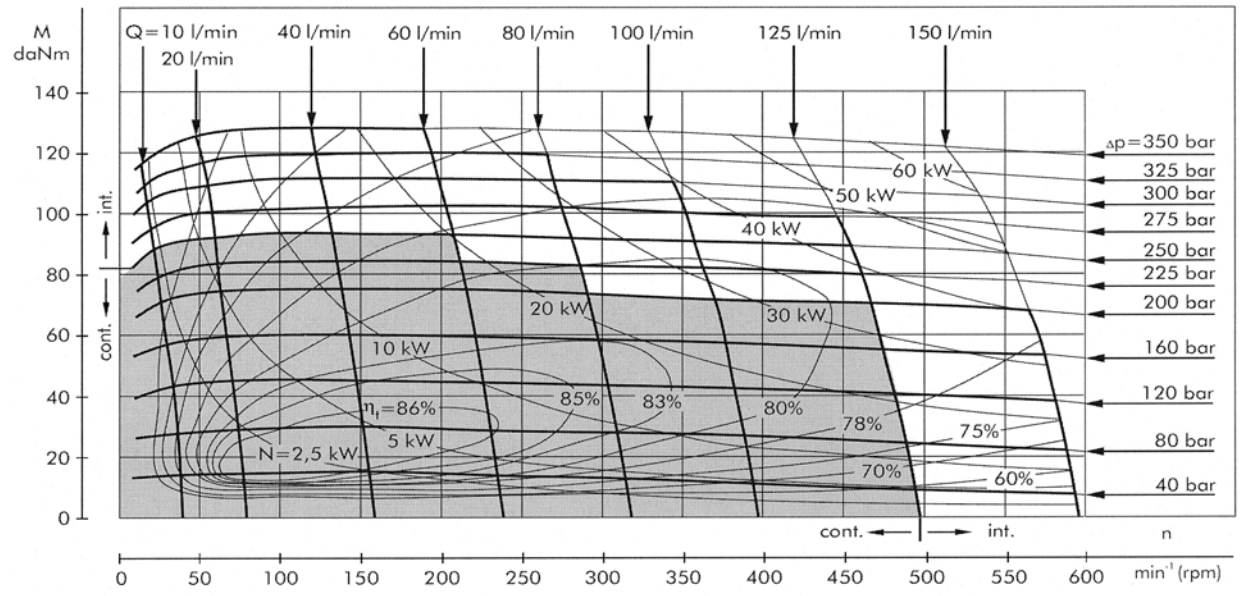
* Tijdelijk gebruik: gebruik gedurende max. 10% per minuut.
** Piekbelasting maximaal 1% per minuut
*** Voor toerentallen van 5 RPM of minder dan opgegeven, neem contact op met M+S of onze medewerkers.

1 tijdelijke hoge drukvallen en hoge oliestromen mogen niet gelijktijdig voorkomen
2 Filtering dient plaats te vinden volgens ISO vervuilingsgraad 20/16. Nominale filtering van 25 micron of beter.
3 Er wordt aanbevolen een hydraulische olie te gebruiken op basis van minerale olie type HPL (DIN51524) of HM (ISO 6743/4) Voordat U alternatieve smeermiddelen gebruikt, zoals syntetische olieën dient er overlegt te worden.
4 Aanbevolen minerale viscositeit is 13mm² bij 50Cº.
5 Aanbevolen maximum olietemperatuur tijdens gebruik is 85 Cº.
6 De levensduur van de motoren kan men verhogen als men de aandrijfas 10 tot 15 minuten onbelast laat draaien voor de motor volledig te belasten.

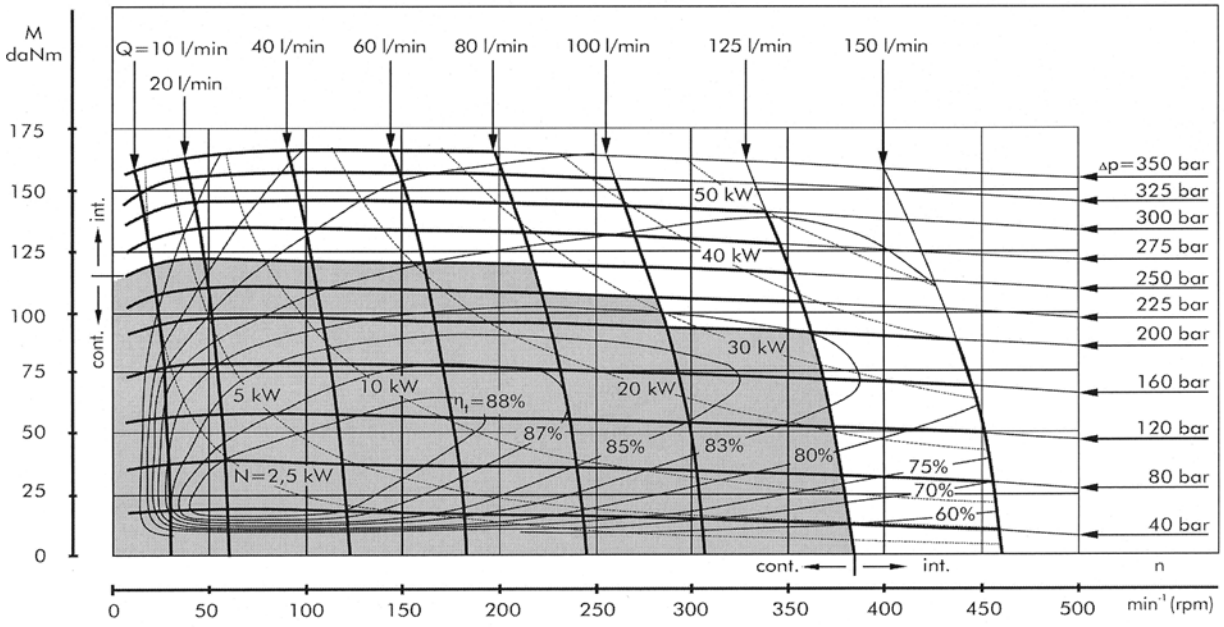
MTM
Orbitmotoren

Functiediagrammen

MTM 250



MTM 315

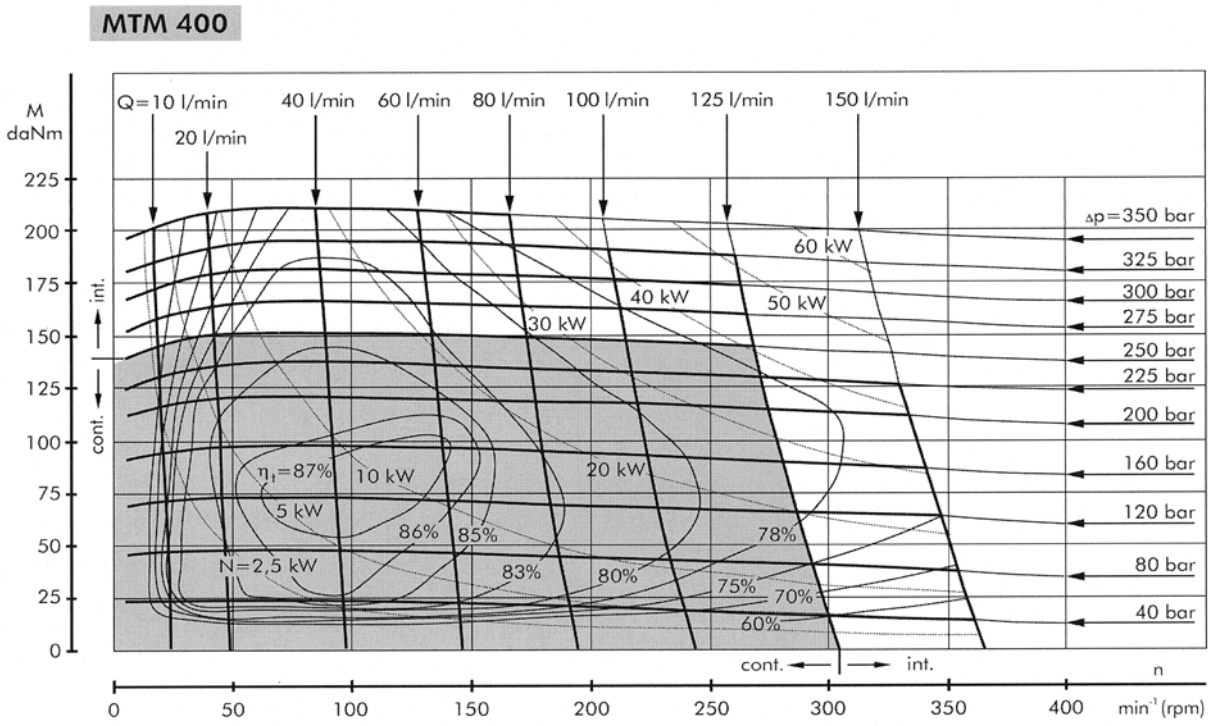


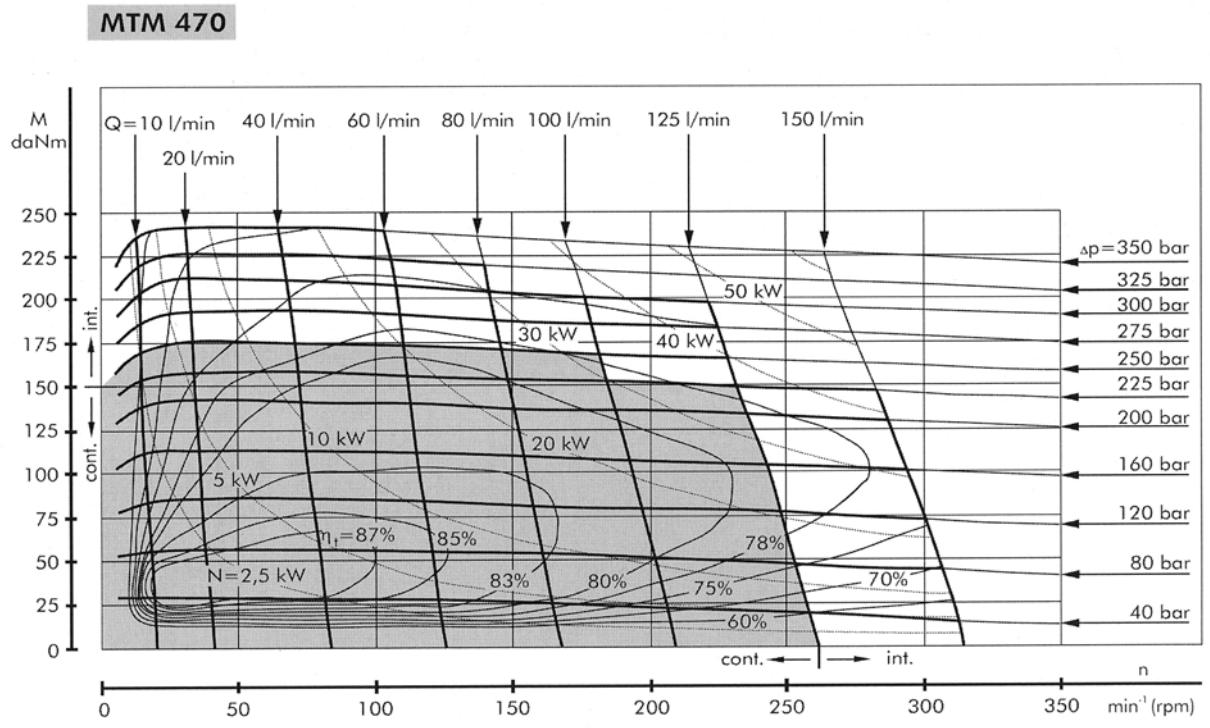
The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MTM

Orbitmotoren

Functiediagrammen





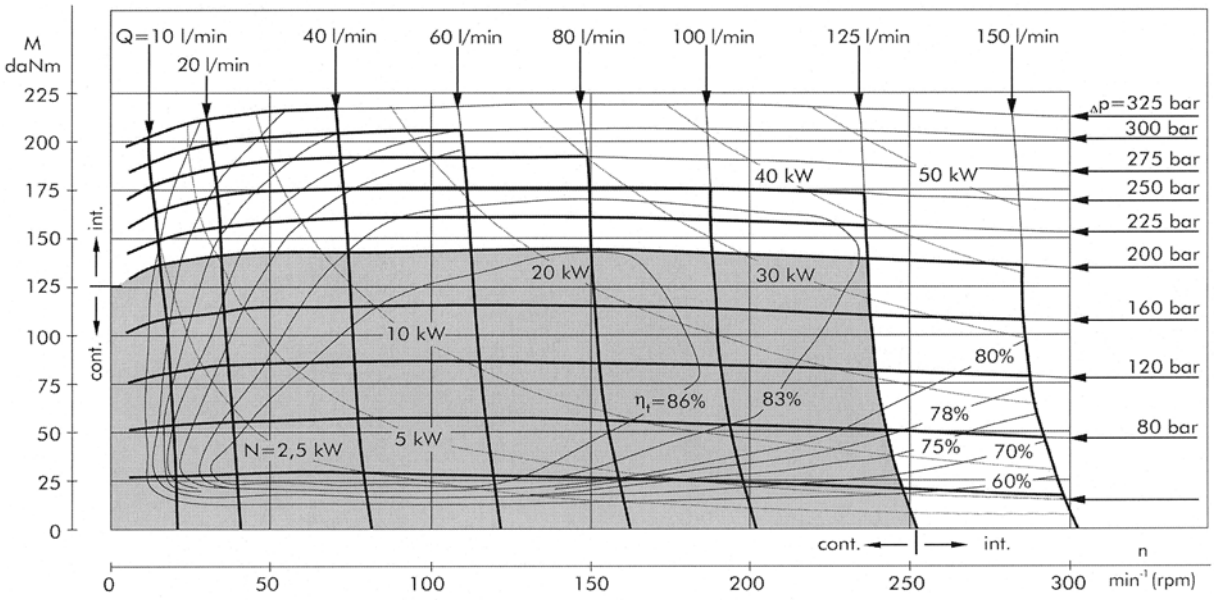
The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MTM

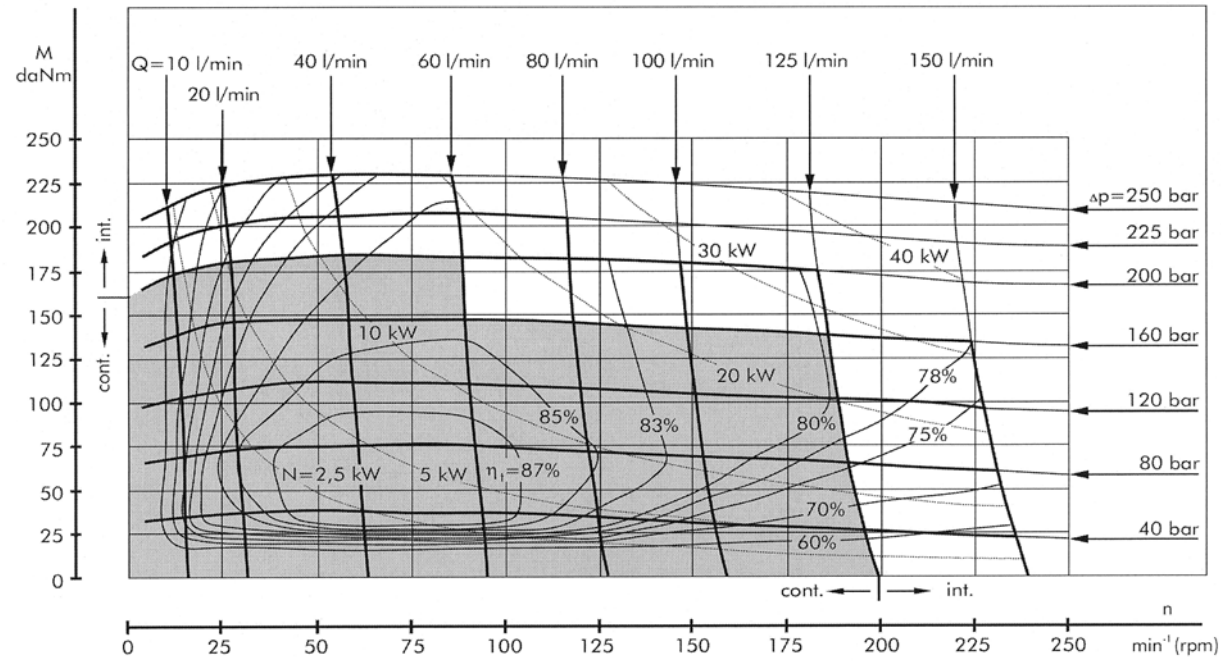
Orbitmotoren

Functiediagrammen

MTM 500



MTM 630



The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MTM

Orbitmotoren

Bestelgegevens

ORDER CODE

	1	2	3	4	5	6
MTM						

Pos.1 - Mounting Flange

omit - 4-Bolt flange, spigot dia. ø160, BC ø200
C - 4-Bolt flange, spigot dia. ø125, BC ø160
W - Wheel motor
V - Very short mount, 9xM12 mounting bolts
6V - Very short mount, 6xM12 mounting bolts

Pos.2 - Displacement code

200 - 201,4 [cm³/rev]
250 - 251,8 [cm³/rev]
315 - 326,3 [cm³/rev]
400 - 410,9 [cm³/rev]
470 - 475,0 [cm³/rev]
500 - 523,6 [cm³/rev]
630 - 631,2 [cm³/rev]
725 - 724,3 [cm³/rev]

Pos. 3 - Shaft Extensions*

C - ø40 straight, Parallel key A12x8x70 DIN6885
K - ø45 tapered 1:10, Parallel key B12x8x28 DIN6885
SH - ø1½" splined 17T ANSI B92.1-1976

Pos. 4 - Ports

omit - BSPP (ISO 228)

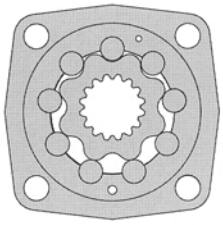
Pos. 5 - Special Features (see page 65)

Pos. 6 - Design Series

omit - Factory specified

Overige gegevens op aanvraag beschikbaar

MV
Orbitmotoren



De MV motor is een zeer krachtige motor van
315 tot 800 cm³ en is verkrijgbaar tot 64KW

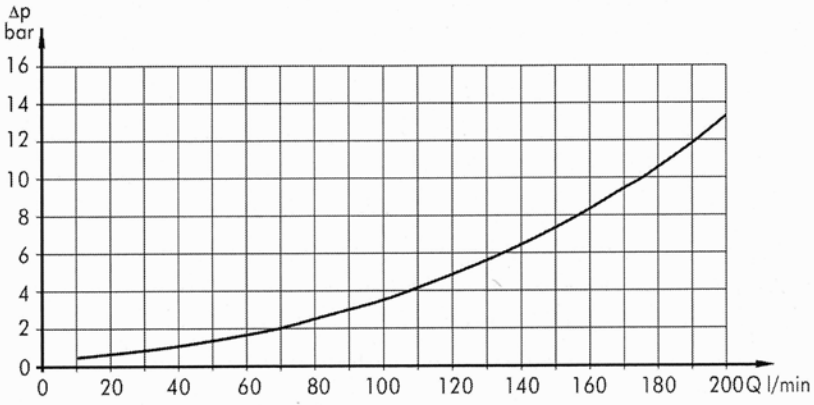
Algemene informatie

Displacement, [cm³/rev.]	314,5÷801,8
Max. Speed, [RPM]	250÷510
Max. Torque, [daNm]	92÷188
Max. Output, [kW]	42,5÷53,5
Max. Pressure Drop, [bar]	160÷200
Max. Oil Flow, [l/min]	160÷200
Min. Speed, [RPM]	5÷10
Permissible Shaft Loads, [daN]	P_a=1500
Pressure fluid	Mineral based- HLP(DIN 51524) or HM(ISO 6743/4)
Temperature range, [°C]	-30÷90
Optimal Viscosity range, [mm²/s]	20÷75
Filtration	ISO code 20/16 (Min. recommended fluid filtration of 25 micron)

Oil flow in drain line

Pressure drop (bar)	Viscosity (mm²/s)	Oil flow in drain line (l/min)
140	20	3
	35	2
210	20	6
	35	4

Pressure Losses



MV

Orbitmotoren

Technische Informatie

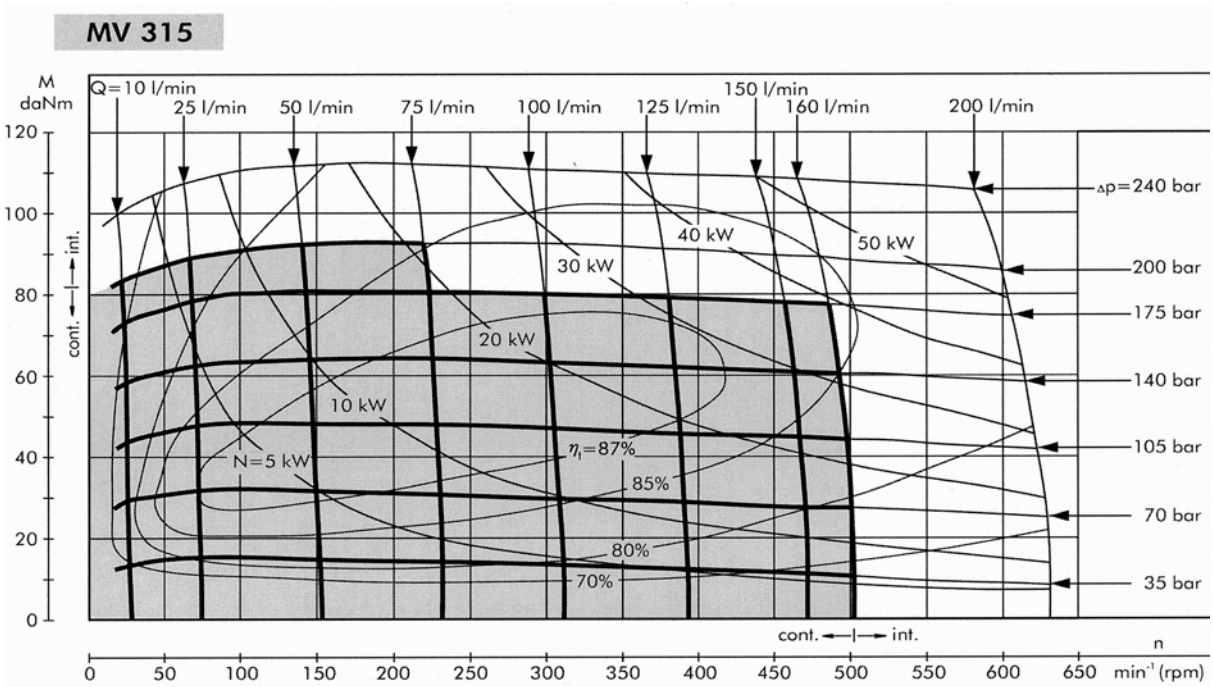
Type		MV 315	MV 400	MV 500	MV 630	MV 800
Displacement [cm³/rev.]		314.5	400,9	499,6	629,1	801,8
Max. Speed, [RPM]	cont.	510	500	400	315	250
	Int.*	630	600	480	380	300
Max. Torque [daNm]	cont.	92	118	146	166	188
	Int.*	111	141	176	194	211
	peak**	129	164	205	221	247
Max. Output [kW]	cont.	42,5	53,5	53,5	48	42,5
	int.*	51	64	64	56	48
Max. Pressure Drop [bar]	cont.	200	200	200	180	160
	Int.*	240	240	240	210	180
	peak**	280	280	280	240	210
Max. Oil Flow [l/min]	cont.	160	200	200	200	200
	Int.*	200	240	240	240	240
Max. Inlet Pressure [bar]	cont.	210	210	210	210	210
	Int.*	250	250	250	250	250
	peak**	300	300	300	300	300
Max. Return Pressure without Drain Line or Max. Pressure in Drain Line , [bar]	cont. 0-100 RPM	60	60	60	60	60
	cont. 100-300 RPM	30	30	30	30	30
	cont. >300 RPM	20	20	20	20	20
	Int.* 0-max. RPM	75	75	75	75	75
Max. Return Pressure with Drain Line [bar]	cont.	140	140	140	140	140
	Int.*	175	175	175	175	175
	peak**	210	210	210	210	210
Max. Starting Pressure with Unloaded Shaft, [bar]		8	8	8	8	8
Min. Starting Torque [daNm]	at max. press. drop cont.	71	91	113	133	151
	at max. press. drop Int.*	85	109	136	155	170
Min. Speed***, [RPM]		10	9	8	6	5
Weight, avg. [kg]	MV	31,8	32,6	33,5	34,9	36,5
	MVW	32,4	33,2	34,1	35,5	37,1
	MVS	22,7	23,5	24,4	25,6	27,7

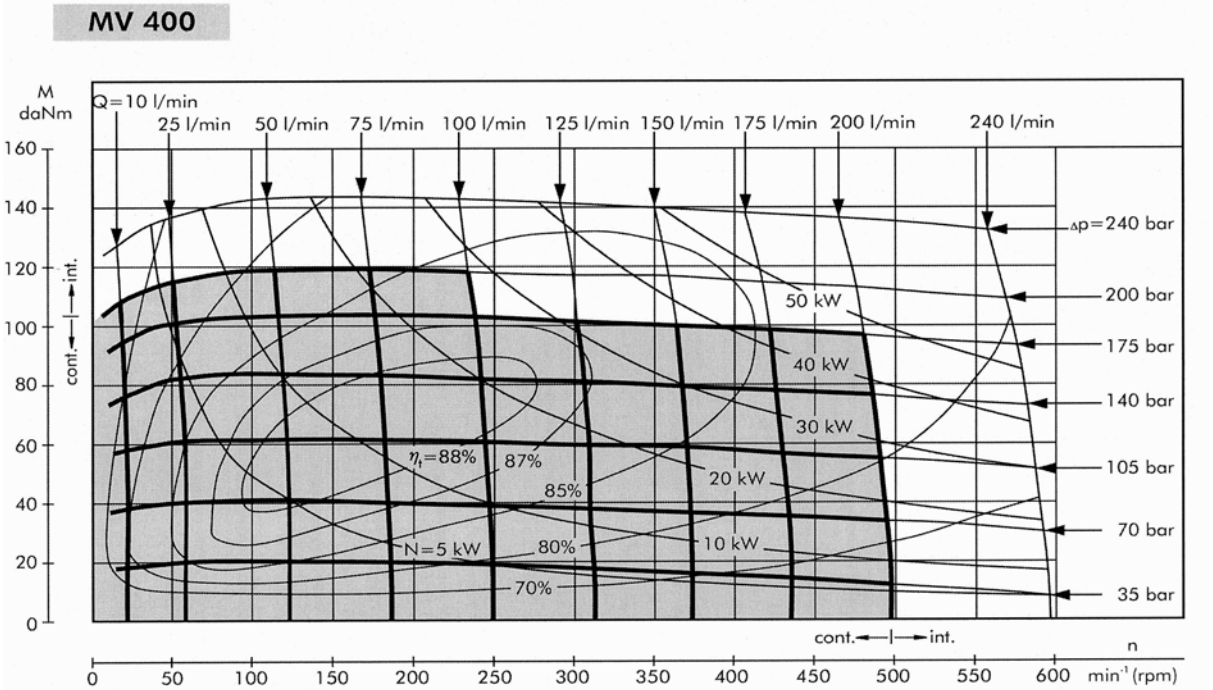
* Tijdelijk gebruik: gebruik gedurende max. 10% per minuut.
** Piekbelasting maximaal 1% per minuut
*** Voor toerentallen van 5 RPM of minder dan opgegeven, neem contact op met M+S of onze medewerkers.
1 tijdelijke hoge drukvallen en hoge oliestromen mogen niet gelijktijdig voorkomen
2 Filtering dient plaats te vinden volgens ISO vervuilingsgraad 20/16. Nominale filtering van 25 micron of beter.
3 Er wordt aanbevolen een hydraulische olie te gebruiken op basis van minerale olie type HPL (DIN51524) of HM (ISO 6743/4) Voordat U alternatieve smeermiddelen gebruikt, zoals syntetische olieën dient er overlegt te worden.
4 Aanbevolen minerale viscositeit is 13mm² bij 50Cº.
5 Aanbevolen maximum olietemperatuur tijdens gebruik is 85 Cº.
6 De levensduur van de motoren kan men verhogen als men de aandrijfas 10 tot 15 minuten onbelast laat draaien voor de motor volledig te belasten.

MV

Orbitmotoren

Functiediagrammen



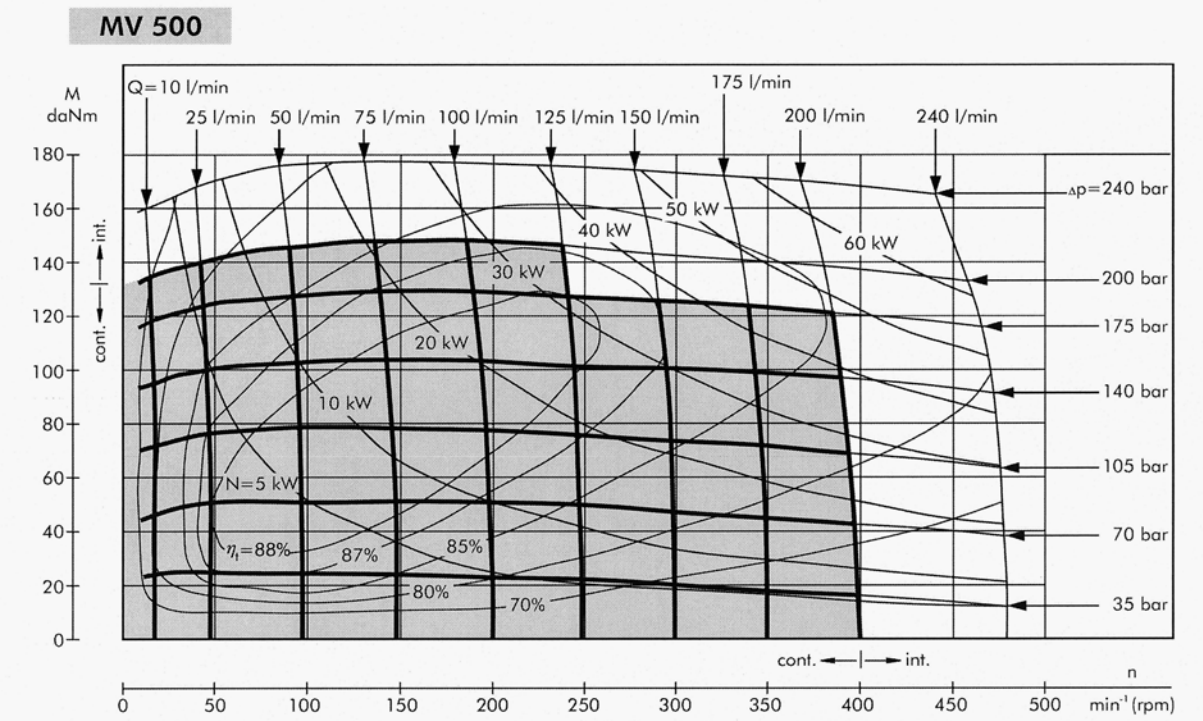


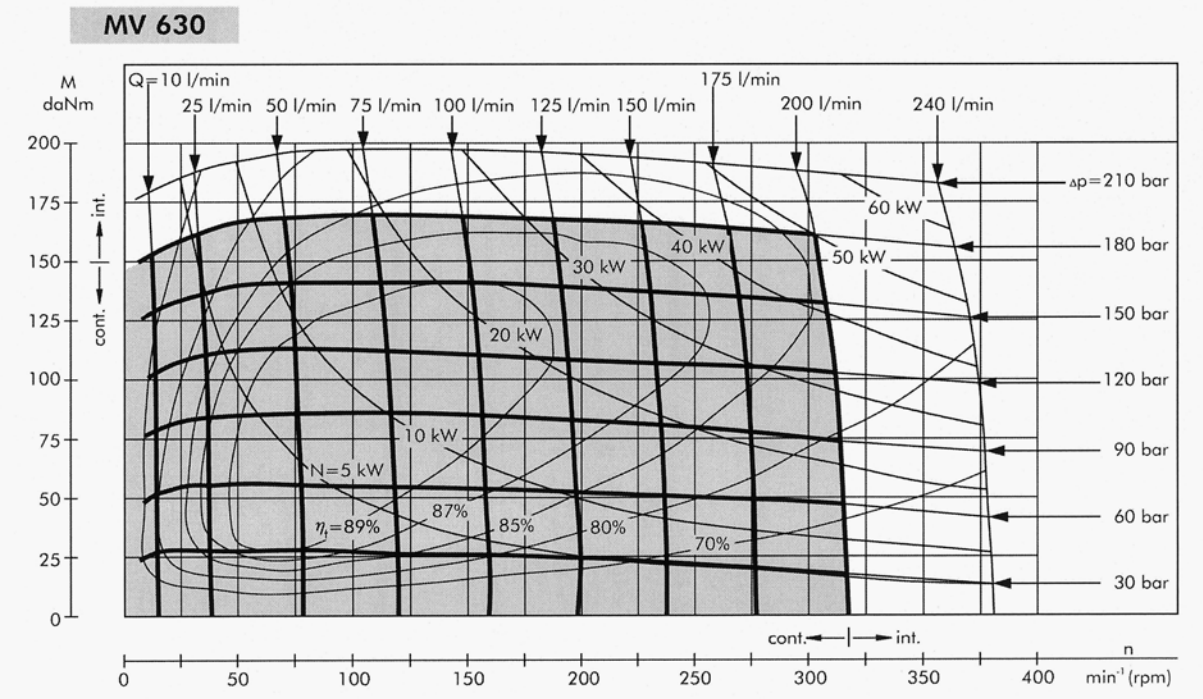
The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MV

Orbitmotoren

Functiediagrammen



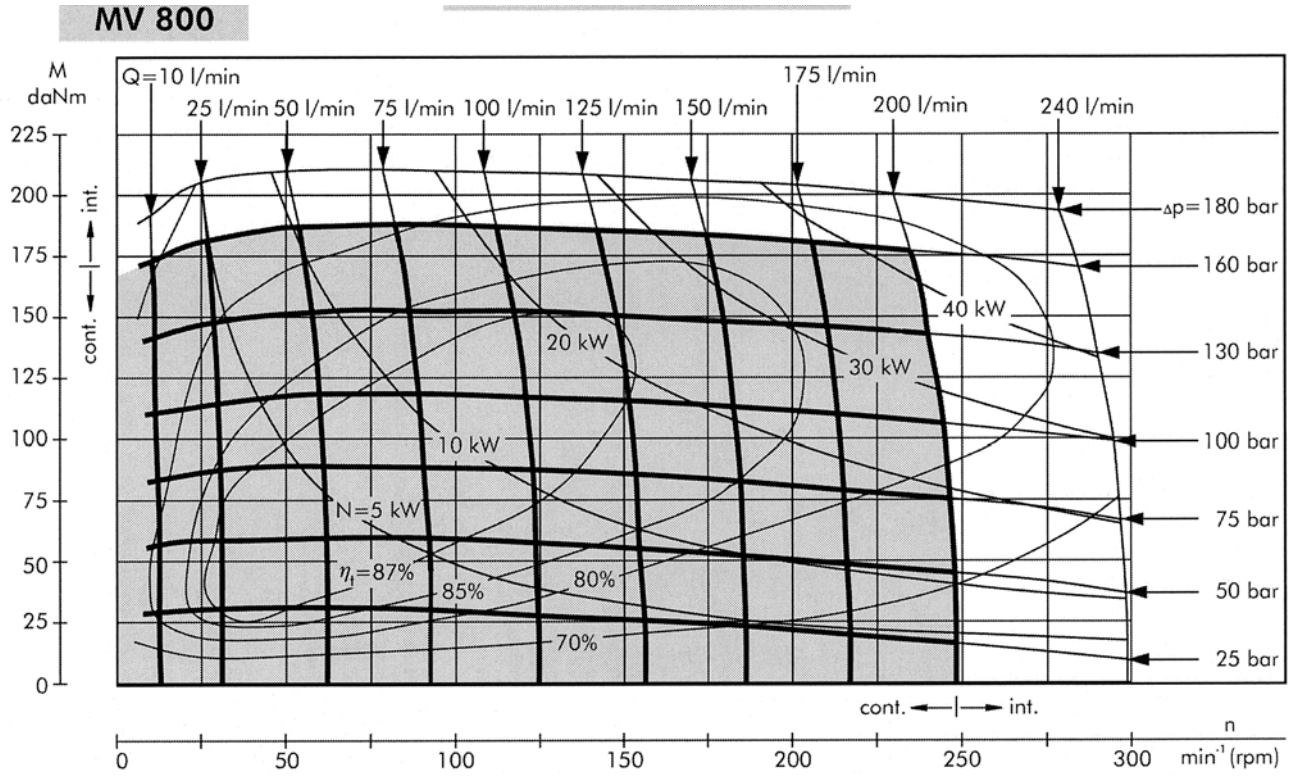


The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MV

Orbitmotoren

Functiediagram

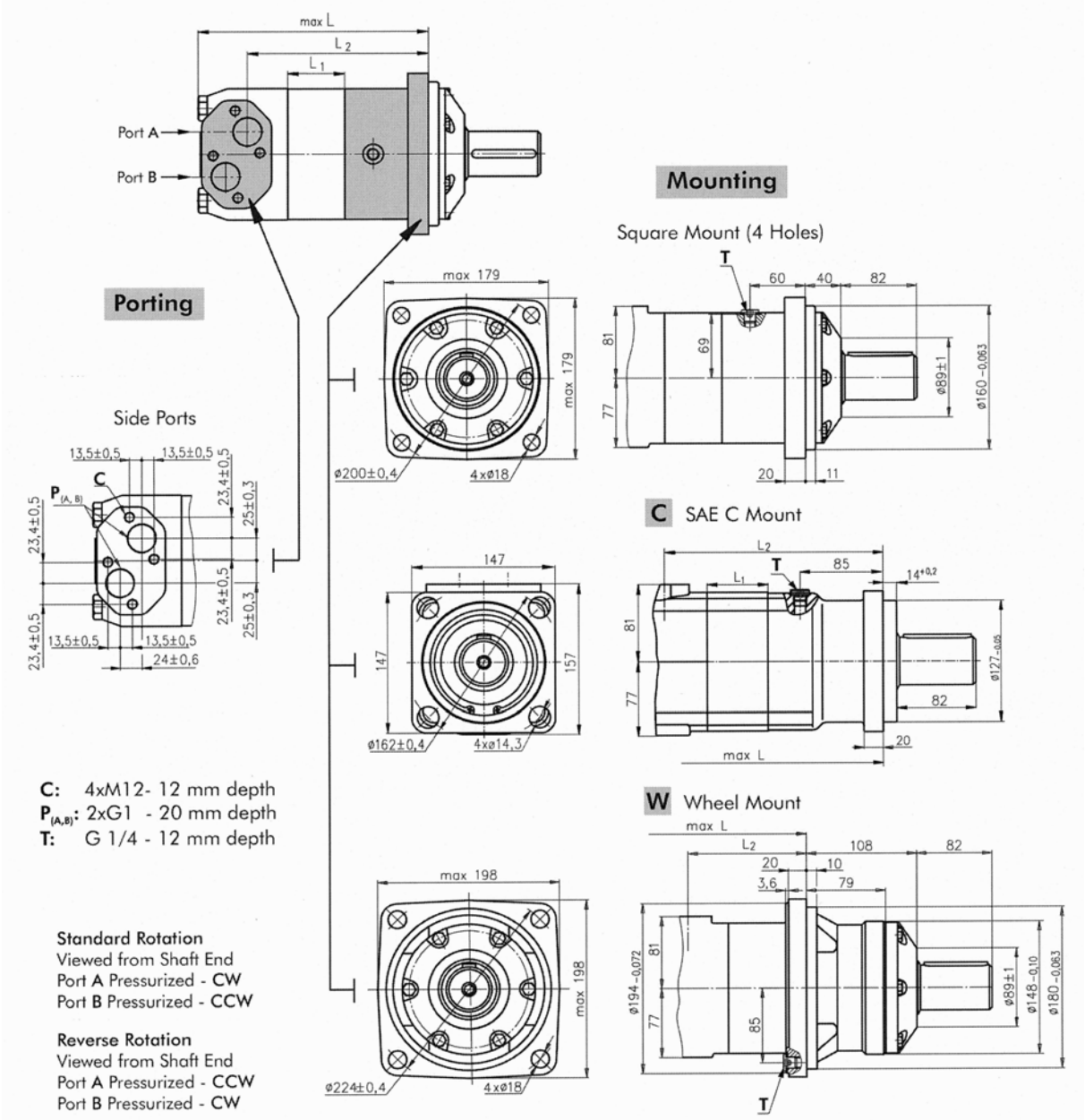


The function diagrams data was collected at back pressure 5÷10 bar and oil with viscosity of 32 mm²/s at 50° C.

MV

Orbitmotoren

Afmetingen en uitvoeringen



Type	L, mm	L2, mm	Type	L, mm	L2, mm	Type	L, mm	L2, mm	*L1, mm
MV 315	214,5	160	MVC 315	238,25	184,26	MVW 315	146	92	21,5
MV 400	221,5	167	MVC 400	245,25	191,26	MVW 400	153	99	28,5
MV 500	229,5	175	MVC 500	253,25	199,26	MVW 500	161	107	36,5
MV 630	240,0	186	MVC 630	263,75	209,76	MVW 630	172	118	47,0
MV 800	254,0	200	MVC 800	277,75	223,76	MVW 800	185	132	61,0

* The width of the roll-gerotor is 4 mm greater than L_1.

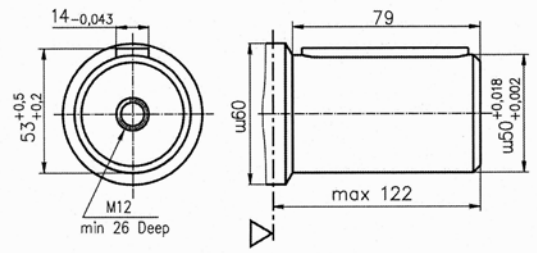
Gegevens MVS en MVV op aanvraag leverbaar

MV

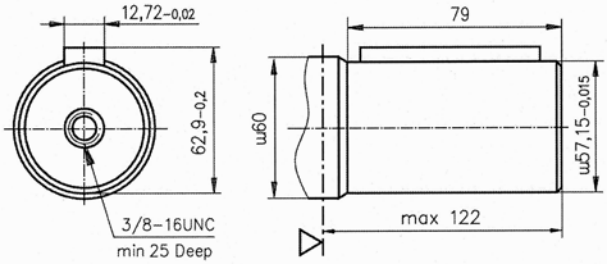
Orbitmotoren

Mogelijke assen

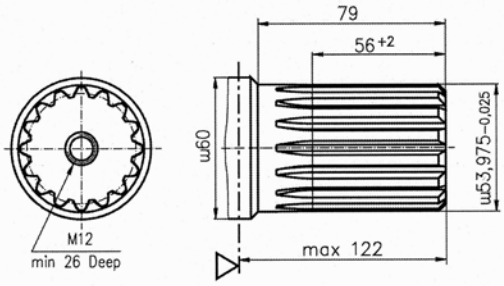
C - ø50 straight, Parallel key A14x9x70 DIN 6885



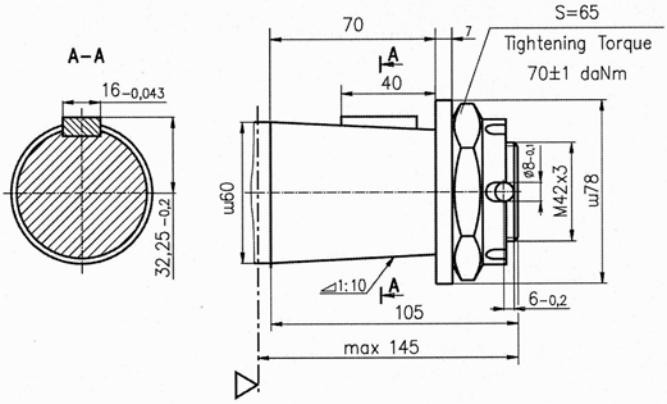
CO - ø2¼"[57,15] straight,Parallel key ½ "x½"x 2¼" BS46



SH -ø2 1/8"splined, 16 DP 8/16 ANS B92.1-1976



K -tapered 1:10, Parallel key B16x10x32 DIN 6885



▽ - Motor Mounting Surface

Bestelcodes

	1	2	3	4	5
MV					

Pos.1 - Mounting Flange

omit	- Square mount, four holes
C	- SAE C mount
W	- Wheel mount
S	- Short mount
V	- Very short mount

Pos.2 - Displacement code

315	- 314,5 [cm³/rev]
400	- 400,9 [cm³/rev]
500	- 499,6 [cm³/rev]
630	- 629,1 [cm³/rev]
800	- 801,8 [cm³/rev]

Pos. 3 - Shaft extensions*

omit	- for **S** and **V** mounting flange
C	- ø50 straight, Parallel key A14x9x70 DIN6885
CO	- ø2¼" straight, Parallel key ½ "x½"x 2¼" BS46
SH	- ø2⅛" splined, ANS B92.1-1976
K	- ø60 tapered 1:10, Parallel key B16x10x32 DIN6885

Pos. 4 - Special Features (see page 65)

Pos. 5 - Design Series

omit - Factory specified

NOTES:

* The permissible output torque for shafts must not be exceeded!

The hydraulic motors are mangano- phosphatized as standard.