

ORDER CODE



	1	2	3	4	5	6	7	8	9	0	1
MR											

Pos. 1 - Mounting Flange

omit - Oval mount , two holes

- F** - Ovalmount, four holes
- Q** - Square mount, four bolts
- W** - Wheel mount

Pos. 2 - Option (needle bearings)

omit - none

- N** - with needle bearings

Pos. 3 Port type

omit - Side ports

- E** - Rear ports

Pos. 4 Displacement code

- 50** - 51 cm³/rev
- 80** - 80,3 cm³/rev
- 100** - 99,8cm³/rev
- 125** - 125,7 cm³/rev
- 160** - 159,6 cm³/rev
- 200** - 199,8 cm³/rev
- 250** - 250,1 cm³/rev
- 315** - 315,7 cm³/rev
- 400** - 397,0 cm³/rev

Pos. 5 - Shaft Extensions*

- C** - ø25 straight, Parallelkey A8x7x32 DIN6885
- VC** - ø25straight, Parallelkey A8x7x32 DIN6885
with corrosion resistant bushing /
- CO** - ø1"straight, Parallelkey ¼"x¼"x1¼" BS46
- VCO** - ø1"straight, Parallelkey ¼"x¼"x1¼" BS46/
with corrosion resistant bushing
- SH** - ø25,32 splined Bs2059 (SAE6B)
- VSH** - ø25,32 splined BS2059 (SAE6B)
with corrosion resistant bushing
- K** - ø28,56 tapered 1:10, Parallelkey B5x5x14 DIN6885
- SA** - ø24,5 splined B25x22 DIN5482
- VSA** - ø24,5splined B25x22DIN5482
with corrosion resistant bushing

- CB** - ø32 straight, Parallelkey A10x8x45 DIN6885
- KB** - ø35 tapered 1:10, Parallelkey B6x6x20 DIN6885
- SB** - splined A 25x22 DIN5482
- OB** - ø1¼" tapered 1:8, Parallelkey 5/16"x5/16"x1¼" Bs46
- HB** - ø1¼" splined 14T ANSI B92.1 - 1976

Pos. 6 Shaft Seal Version

omit - Low pressure shaft seal or Standard shaft seal

for “..B” shaft

- D** - Standard shaft seal
- U** - High pressure shaft seal (without check valves)

Pos. 7 Drain Port

omit with drain port

- 1** - without drain port

Pos. 8 Ports

omit - BSPP (ISO228)

- M** - Metric (ISO 262)

Pos. 9 Special Features

Pos. 10 Design Series

omit - Factory specified

SPECIFICATION DATA

Type	MR 50	MR 80	MR 100	MR 125	MR 160	MR 200	MR 250	MR 315	MR 400
Displacement (cm ³ /rev.)	51.5	80.3	99.8	125.7	159.6	199.8	250.1	315.7	397
Max. Speed (RPM)	cont.	775	750	600	475	375	300	240	190
	int.*	970	940	750	600	470	375	300	240
Max. Torque (daNm)	cont.	10.1	19.5	24	30	39	38.5	39	38
	int.*	13	22	28	34	43	46	58	60
	peak**	17	27	32	37	46	56	71	83
Max. Output (kW)	cont.	7	12.5	13	12.5	11.5	9	6.5	4.8
	int.*	8.5	15	15	14.5	14	11.5	10.5	8.8
Max. Pressure Drop (bar)	cont.	140	175	175	175	175	140	110	90
	int.*	175	200	200	200	200	175	175	140
	peak**	225	225	225	225	225	225	225	210
Max. Oil Flow (l/min)	cont.	40	60	60	60	60	60	60	60
	int.*	50	75	75	75	75	75	75	75
Max. Inlet Pressure (bar)	cont.	175	175	175	175	175	175	175	175
	int.*	200	200	200	200	200	200	200	200
	peak**	225	225	225	225	225	225	225	225
Max. Return Pressure w/o Drain Line or Max. Pressure in Drain (bar)	cont. 0-100 RPM	150	150	150	150	150	150	150	150
	cont. 100-300 RPM	75	75	75	75	75	75	75	75
	cont. 300-600 RPM	50	50	50	50	50	50	-	-
	cont. 600 RPM	20	20	20	-	-	-	-	-
	int.* 0 - max.RPM	150	150	150	150	150	150	150	150
Max. Return Pressure with Drain Line (bar)	cont.	175	175	175	175	175	175	175	175
	int.*	200	200	200	200	200	200	200	200
	peak**	225	225	225	225	225	225	225	225
Max. Starting Pressure with Unloaded Shaft, (bar)	10	10	10	9	7	5	4	3	3
Min Starting Torque (daNm)	at max. press. drop. cont.	8	8	20	25	32	33	31	33
	at max. press. drop. Int.*	10	10	23	28	37	40	48	58
Min. Speed***, (RPM)	10	10	10	10	10	10	10	10	10
weight, agv. (kg)	MP(F)	6.8	6.9	7.2	7.3	7.5	8	8.4	9.1
	MRF	6.2	6.3	6.6	6.8	7.6	7.2	7.8	8.6
	MRQ								

* Intermittent operation: The permissible values may occur for max. 10% of every minute.

** Peak load: The permissible values may occur for max. 1% of every minute.

*** For speed of 5 RPM lower than even, consult factory or your regional manager.

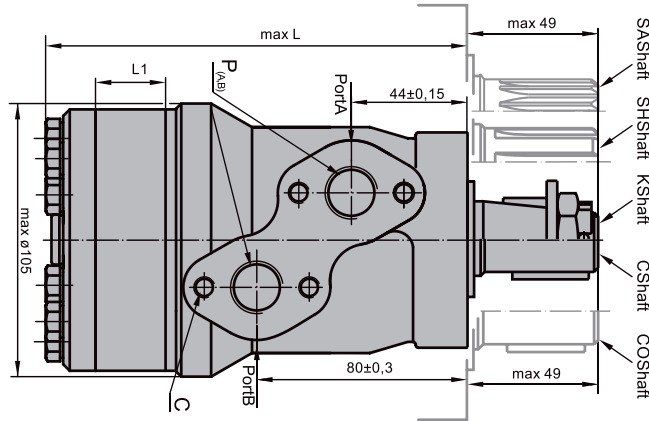
- Intermittent speed and Intermittent pressure must not occur simultaneously.
- Recommended filtration is per ISO clean lines code 20/16. A nominal filtration of 25 micron or better.
- Recommend using a premium quality, anti-vear type mineral based hydraulic oil, HLP (DIN51524) or HM (ISO 6743/4) if using synthetic fluids consult the factory for alternative seal materials.
- Recommended minimum oil viscosity 13 mm²/s at 50 C.
- Recommended maximum system operation temperature is 82 C
- To assure optimum motor life fill with fluid prior to loading and run at moderate load and speed for 10-15 minutes.

* Aralık Operasyonu: İzin verilebilir değerler her dakikanın maks %10 için oluşabilir.

** Aşırı Yük: Müsaade edilebilir değerler her dakikanın %1 için oluşabilir.

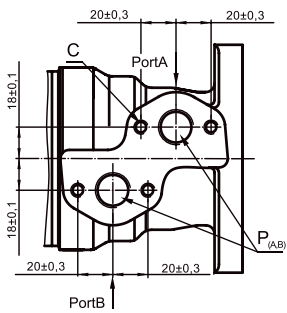
*** 10 RPM ve aşağısı hızlar için fabrikaya veya bölge bayiliğine başvurunuz.

- Aralıklı hız ve aralıklı basınç düşüşleri aynı zamanda olmalıdır.
- Tavsiye edilen filtrasyon ISO 20/16, nominal filtrasyon 25 mikron ve iyisi.
- Tavsiye edilen hidrolik yağ üstün kalitede anti-vear tipi mineral kökenlidir.
- Tavsiye edilen en düşük yağ viskozitesi operasyon sıcaklığının 133 mm²/s'dir.
- Tavsiye edilen en yüksek sistem operasyon sıcaklığı 82 C dir.
- En uzun motor ömrünü sağlamak için yüklemeye önce sıvı ile doldurulup düşük bir yük ve hızda 10-15 dk. çalıştırılır.

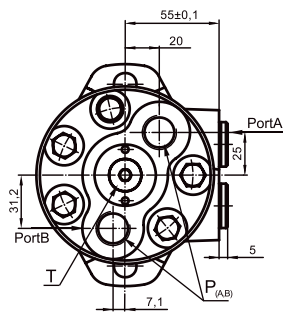


PORTING

Side Ports



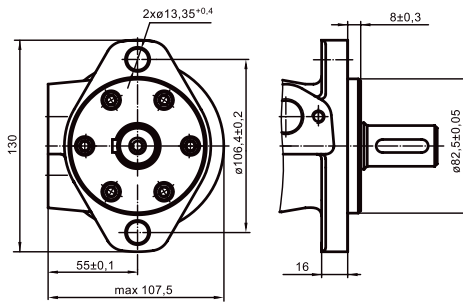
Rear Ports



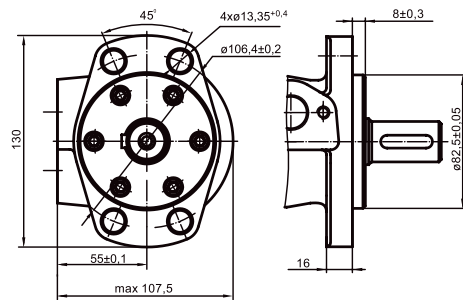
C : 4xM8-13mm depth/derinlik
P(A,B) : 2x G 1/2 or 2x M 2 2 x 1, 5-15mm depth
T : G1/4 or M14x1,5-12mm depth(plugged)

MOUNTING

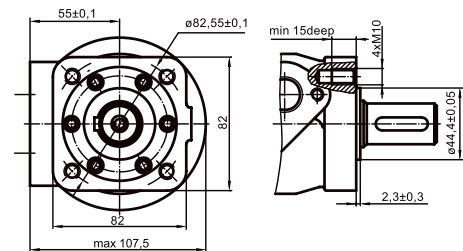
Oval Mount (2Holes)



F - Oval Mount (4Holes)

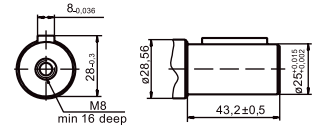


Q - Square Mount (4Bolts)

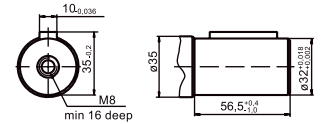


SHAFT EXTENSIONS

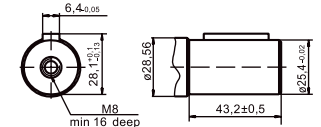
C - ø25 straight, Parallel key A8x7x32 DIN6885
Max. Torque 34daNm



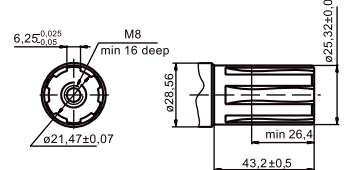
CB - ø32 straight, Parallelkey A10x8x45 DIN6885
Max. Torque 77daNm



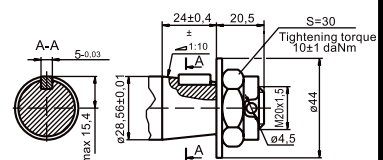
CO ø1" straight, Parallelkey 1/4"x1/4"x1"BS46
Max. Torque 34daNm



SH - splined, BS 2059 (SAE6B)
Max. Torque 40daNm



K tapered 1:10, Parallelkey B5x5x14 DIN 6885
Max. Torque 40 daNm



Type	L,mm	Type	L,mm	Type	L,mm	Type	L,mm	L ₁ ,mm
MR(F) 50	138,0	MRQ 50	143,5	MR(F)E 50	157,5	MRQE 50	163,5	9,0
MR(F) 80	143,0	MRQ 80	148,5	MR(F)E 80	162,5	MRQE 80	168,5	14,0
MR(F) 100	146,0	MRQ 100	152,0	MR(F)E 100	165,5	MRQE 100	171,5	17,4
MR(F) 125	150,5	MRQ 125	156,5	MR(F)E 125	170,0	MRQE 125	176,0	21,8
MR(F) 160	156,5	MRQ 160	162,5	MR(F)E 160	176,0	MRQE 160	182,0	27,8
MR(F) 200	163,5	MRQ 200	169,5	MR(F)E 200	183,0	MRQE 200	189,0	34,8
MR(F) 250	172,0	MRQ 250	179,0	MR(F)E 250	192,0	MRQE 250	198,0	43,5
MR(F) 315	183,0	MRQ 315	189,0	MR(F)E 315	204,0	MRQE 315	210,0	54,8
MR(F) 400	198,0	MRQ 400	204,0	MR(F)E 400	218,0	MRQE 400	224,0	69,4