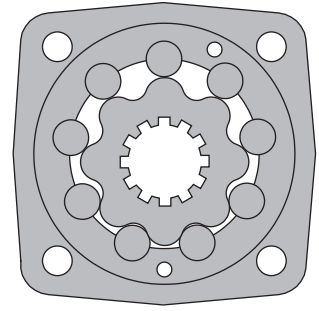


# HYDRAULIC MOTORS EPMT



## APPLICATION

- » Conveyors;
- » Metal working machines;
- » Machines for agriculture;
- » Road building machines;
- » Mining machinery;
- » Food industries;
- » Special vehicles;
- » Plastic and rubber machinery etc.



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## OPTIONS

- » Model- Disc valve, geroler;
- » Flange with wheel mount;
- » Short motor;
- » Tacho connection;
- » Side and rear ports
- » Shafts- straight, splined and tapered;
- » Metric and BSPP ports;
- » Other special features.

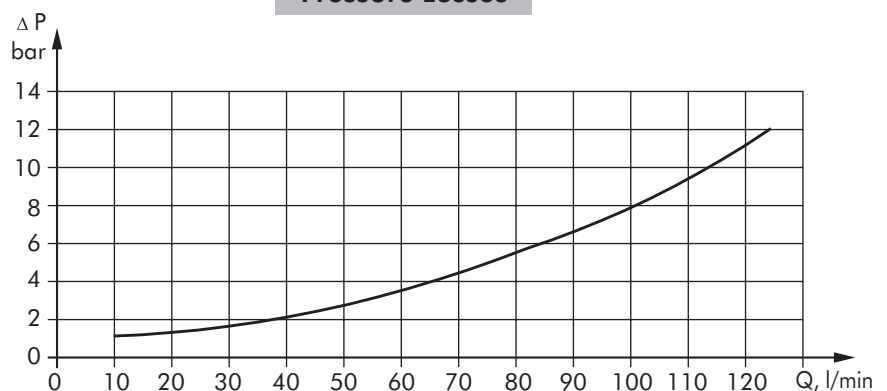
## GENERAL

Displacement, [cm <sup>3</sup> /rev.]	161,1 ÷ 725
Max. Speed, [RPM]	625 ÷ 175
Max. Torque, [daNm]	47 ÷ 125
Max. Output, [kW]	20,2 ÷ 33,5
Max. Pressure Drop, [bar]	200 ÷ 115
Max. Oil Flow, [l/min]	100 ÷ 125
Min. Speed, [RPM]	10 ÷ 5
Permissible Shaft Loads, [daN]	$P_{rad}=1700; P_a=1000$
Pressure fluid	Mineral based- HLP(DIN 51524) or HM(ISO 6743/4)
Temperature range, [°C]	-30 ÷ 90
Optimal Viscosity range, [mm <sup>2</sup> /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 <sup>2</sup> /s)	Oil flow in drain line (l/min)
140	20	1,5
	35	1
210	20	3
	35	2

### Pressure Losses



## SPECIFICATION DATA

Type	EPMT 160	EPMT 200	EPMT 250	EPMT 315	EPMT 400	EPMT 500	EPMT 630	EPMT 725	
Displacement [cm <sup>3</sup> /rev.]	161,1	201,4	251,8	326,3	410,9	523,6	612,3	725	
Max. Speed, [RPM]	cont.	625	625	500	380	305	240	206	172
	Int.*	780	750	600	460	365	285	247	205
Max. Torque [daNm]	cont.	47	59	73	95	108	122	123	125
	Int.*	56	71	88	114	126	137	138	140
	peak**	66	82	102	133	144	160	161	165
Max. Output [kW]	cont.	26,5	33,5	33,5	33,5	30	26,5	24,3	20,2
	int.*	32	40	40	40	35	30	27,5	26,8
Max. Pressure Drop [bar]	cont.	200	200	200	200	180	160	140	115
	Int.*	240	240	240	240	210	180	160	130
	peak**	280	280	280	280	240	210	190	160
Max. Oil Flow [l/min]	cont.	100	125	125	125	125	125	125	125
	Int.*	125	150	150	150	150	150	151,4	151,4
Max. Inlet Pressure [bar]	cont.	210	210	210	210	210	210	210	210
	Int.*	250	250	250	250	250	250	250	250
	peak**	300	300	300	300	300	300	300	300
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.	140	140	140	140	140	140	140	140
	Int.*	175	175	175	175	175	175	175	175
	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 [daNm]	at max. press. drop cont.	34	43	53	74	84	95	95	95
	at max. press. drop Int.*	41	52	63	89	97	106	108	110
Min. Speed***, [RPM]	10	9	8	7	6	5	5	5	
Weight, [kg]	EPMT	20	20,5	21	22	23	24	25	26
	EPMTW	22	22,5	23	24	25	26	27	28
	EPMTS	15	15,5	16	17	18	19	20	21
	EPMTV	11	11,5	12	13	14	15	16	17

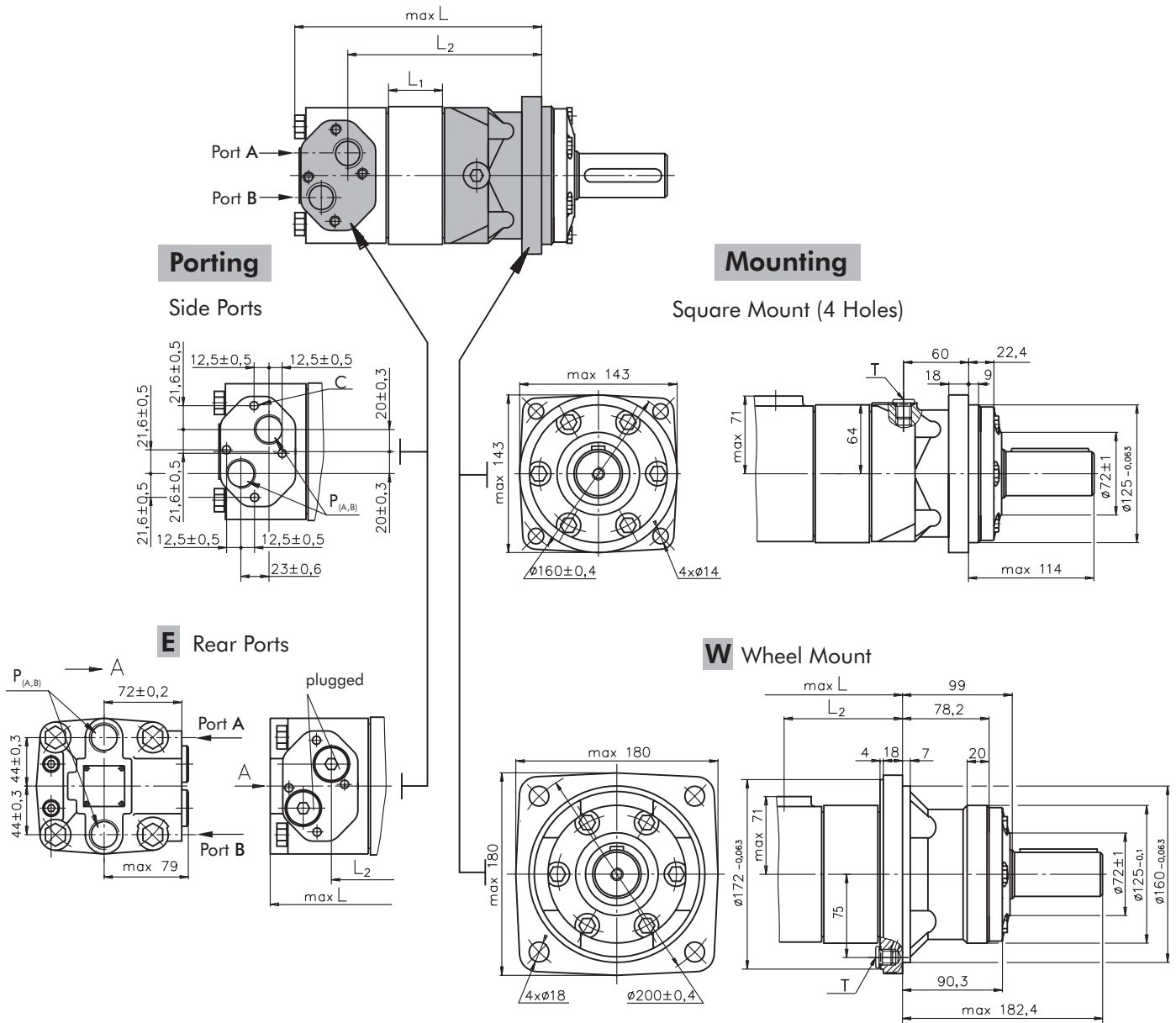
\* Intermittent operation: the permissible values may occur for max. 10% of every minute.

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

\*\*\* For speeds of 5 RPM lower than given, consult factory or your regional manager.

- 1) Intermittent speed and intermittent pressure must not occur simultaneously.
- 2) Recommended filtration is per ISO cleanliness code 20/16. A nominal filtration of 25 micron or better.
- 3) Recommend using a premium quality, anti-wear type mineral based hydraulic oil, HLP(DIN51524) or HM(ISO6743/4).  
If using synthetic fluids consult the factory for alternative seal materials.
- 4) Recommended minimum oil viscosity 13 mm<sup>2</sup>/s at 50°C.
- 5) Recommended maximum system operating temperature is 82°C.
- 6) To assure optimum motor life fill with fluid prior to loading and run at moderate load and speed for 10-15 minutes.

**DIMENSIONS AND MOUNTING DATA**



**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<sub>(A,B)</sub>:** 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 <sub>2</sub> , mm	Type	L, mm	Type	L, mm	L <sub>2</sub> , mm	*L <sub>1</sub> , mm
EPMT 160	190	EPMTE 160	200	140	EPMTW 160	123	EPMTWE 160	133	73	16,5
EPMT 200	195	EPMTE 200	205	145	EPMTW 200	128	EPMTWE 200	138	78	21,5
EPMT 250	201	EPMTE 250	211	151	EPMTW 250	134	EPMTWE 250	144	84	27,8
EPMT 315	211	EPMTE 315	221	161	EPMTW 315	144	EPMTWE 315	154	94	37,0
EPMT 400	221	EPMTE 400	231	171	EPMTW 400	154	EPMTWE 400	164	104	47,5
EPMT 500	235	EPMTE 500	245	185	EPMTW 500	168	EPMTWE 500	178	118	61,5
EPMT 630	242,5	EPMTE 630	252,5	192,5	EPMTW 630	175,5	EPMTWE 630	185,5	125,5	72,5
EPMT 725	260	EPMTE 725	270	210	EPMTW 725	193	EPMTWE 725	193	143	86,5

\* The width of the gerolator is 3,5 mm greater than L<sub>1</sub>.