

# FLOWFIT HYDRAULIC MOTORS

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# FLOWFIT

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## FFPMM Hydraulik Motor

## FFPMM Hydraulic Motor

- Modell Längsschieberventil mit Gerotor
- Mit oder ohne Flansch
- Ideal für enge Bauräume
- Internes Rückschlagventil
- Seiten- und Endanschluss
- Verwendung ohne Leckölanschluss möglich



- Spool valve type with gerotor
- With or without flange
- Optimized for small spaces
- Internal check valve
- Side and rear ports
- Usage without drain line possible

TYP / Type		FFPMM	FFPMM	FFPMM	FFPMM	FFPMM	FFPMM
		8	12.5	20	32	40	50
Schluckvolumen / Displacement [cm³/REV]		8.2	12.9	19.9	31.6	39.8	50.3
Max. Drehzahl / Max. Speed [RPM]	Dauerbetrieb / Cont.	1950	1550	1000	630	500	400
	Int.(1)	2450	1940	1250	800	630	500
Max. Drehmoment / Max. Torque [daNm]	Dauerbetrieb / Cont.	11	16	25	40	45	46
	Int.(1)	15	23	35	57	70	88
	Spitze / Peak (2)	21	33	51	64	82	100
Max. Leistungsabgabe / Max. Output Power [kW]	Dauerbetrieb / Cont.	1.8	2.4	2.4	2.4	2.2	1.8
	Int.(1)	2.6	3.2	3.2	3.2	3.2	3.2
Max. Druckgefälle / Max. Pressure Drop [bar]	Dauerbetrieb / Cont.	100	100	100	100	90	70
	Int.(1)	140	140	140	140	140	140
	Spitze / Peak (2)	200	200	200	160	160	160
Max. Ölstrom / Max. Oil flow [l/min]	Dauerbetrieb / Cont.	16	20	20	20	20	20
	Int.(1)	20	25	25	25	25	25
Max. Eingangsdruck / Max. Input Pressure [bar]	Dauerbetrieb / Cont.	175	175	175	175	175	175
	Int.(1)	225	225	225	225	225	225
Gewicht / Weight [kg]		1.9	2	2.1	2.2	2.3	2.4

(1) Intermittierender Betrieb max. 6 Sekunden / Minute  
 (2) Spitzenbetrieb max. 0,6 Sekunden / Minute

(1) Intermittend operation rating applies to 6 sec. of every minute  
 (2) Peak load rating applies to 0,6 sec of every minute

## Leistungsdaten

FFPMM 8 (8.2 cm<sup>3</sup>/U)

		Druck / pressure (bar)						daNm RPM
		35	50	70	100	120	140	
Durchflussmenge / Oil flow (l/min)	2	0.3	0.5	0.8	1.0	1.2	1.4	
		<b>228</b>	<b>218</b>	<b>206</b>	<b>156</b>	<b>111</b>	<b>58</b>	
	4	0.3	0.5	0.7	1.1	1.3	1.5	
		<b>474</b>	<b>471</b>	<b>463</b>	<b>426</b>	<b>391</b>	<b>331</b>	
Max. cont.	8	0.3	0.5	0.7	1.1	1.3	1.5	
		<b>935</b>	<b>946</b>	<b>926</b>	<b>884</b>	<b>855</b>	<b>816</b>	
Max. int.	12	0.2	0.5	0.7	1.0	1.3	1.5	
		<b>1444</b>	<b>1426</b>	<b>1402</b>	<b>1360</b>	<b>1324</b>	<b>1288</b>	
Max. cont.	15		0.4	0.7	1.0	1.2	1.4	
			<b>1912</b>	<b>1900</b>	<b>1861</b>	<b>1833</b>	<b>1780</b>	
Max. int.	20		0	0.6	1.0	1.0	1.4	
			<b>2432</b>	<b>2395</b>	<b>2350</b>	<b>2328</b>	<b>2281</b>	

## Performance data

FFPMM 12.5 (12.9 cm<sup>3</sup>/U)

		Druck / pressure (bar)						daNm RPM
		35	50	70	100	120	140	
Durchflussmenge / Oil flow (l/min)	2	6	8	11	16	19		
		<b>140</b>	<b>136</b>	<b>119</b>	<b>68</b>	<b>35</b>		
	4	6	8	12	17	19	23	
		<b>296</b>	<b>289</b>	<b>274</b>	<b>229</b>	<b>200</b>	<b>145</b>	
Max. cont.	8	5	8	12	17	20	24	
		<b>605</b>	<b>596</b>	<b>583</b>	<b>543</b>	<b>514</b>	<b>469</b>	
Max. int.	12	5	8	11	16	20	24	
		<b>912</b>	<b>905</b>	<b>895</b>	<b>859</b>	<b>834</b>	<b>784</b>	
Max. cont.	15	5	7	11	16	19	23	
		<b>1152</b>	<b>1144</b>	<b>1136</b>	<b>1102</b>	<b>1078</b>	<b>1036</b>	
Max. int.	20	3	7	10	15	19	22	
		<b>1542</b>	<b>1532</b>	<b>1521</b>	<b>1500</b>	<b>1482</b>	<b>1437</b>	
Max. int.	25	2	6	9	14	18	22	
		<b>1910</b>	<b>1891</b>	<b>1878</b>	<b>1848</b>	<b>1828</b>	<b>1788</b>	

FFPMM 20 (19.9 cm<sup>3</sup>/U)

		Druck / pressure (bar)						daNm RPM
		17	35	50	70	100	120	
Durchflussmenge / Oil flow (l/min)	2	3	9	14	19	26	30	
		<b>99</b>	<b>96</b>	<b>89</b>	<b>74</b>	<b>42</b>	<b>21</b>	
	4	4	9	14	19	26	31	36
		<b>197</b>	<b>191</b>	<b>182</b>	<b>178</b>	<b>134</b>	<b>112</b>	<b>74</b>
Max. cont.	8	4	9	13	19	27	31	36
		<b>398</b>	<b>395</b>	<b>391</b>	<b>377</b>	<b>340</b>	<b>319</b>	<b>288</b>
Max. int.	12	3	8	13	18	26	31	37
		<b>596</b>	<b>594</b>	<b>588</b>	<b>579</b>	<b>545</b>	<b>523</b>	<b>493</b>
Max. cont.	15	3	8	12	17	25	30	36
		<b>745</b>	<b>741</b>	<b>738</b>	<b>728</b>	<b>695</b>	<b>684</b>	<b>660</b>
Max. int.	20	1	6	11	19	24	29	35
		<b>998</b>	<b>995</b>	<b>991</b>	<b>985</b>	<b>962</b>	<b>916</b>	<b>885</b>
Max. int.	25		4	9	14	23	28	33
			<b>1247</b>	<b>1245</b>	<b>1242</b>	<b>1189</b>	<b>1180</b>	<b>1176</b>

## Leistungsdaten

## Performance data

FFPMM 32 (31.6 cm<sup>3</sup>/U)

FFPMM 40 (39.8 cm<sup>3</sup>/U)

		Druck / pressure (bar)							
		20	35	50	70	100	120		
Durchflussmenge / Oil flow (l/min)	2	7 <b>61</b>	15 <b>57</b>	21 <b>52</b>	28 <b>47</b>	40 <b>16</b>			daNm RPM
	4	7 <b>126</b>	15 <b>121</b>	21 <b>114</b>	29 <b>106</b>	41 <b>82</b>	48 <b>67</b>	57 <b>49</b>	
	8	7 <b>250</b>	15 <b>244</b>	21 <b>239</b>	29 <b>231</b>	41 <b>207</b>	49 <b>194</b>	58 <b>167</b>	
	12	6 <b>378</b>	13 <b>374</b>	20 <b>369</b>	28 <b>362</b>	40 <b>338</b>	48 <b>322</b>	58 <b>297</b>	
	15	4 <b>476</b>	12 <b>472</b>	18 <b>468</b>	27 <b>462</b>	39 <b>441</b>	47 <b>429</b>	57 <b>406</b>	
Max. cont.	20	3 <b>633</b>	10 <b>630</b>	17 <b>627</b>	25 <b>619</b>	37 <b>601</b>	46 <b>585</b>	55 <b>566</b>	
Max. int.	25	1 <b>791</b>	8 <b>789</b>	15 <b>787</b>	23 <b>783</b>	35 <b>766</b>	43 <b>735</b>	52 <b>732</b>	

		Druck / pressure (bar)							
		30	50	70	85	100	120		
Durchflussmenge / Oil flow (l/min)	2	16 <b>45</b>	27 <b>40</b>	36 <b>34</b>	44 <b>28</b>	51 <b>17</b>			daNm RPM
	4	16 <b>96</b>	27 <b>93</b>	37 <b>85</b>	44 <b>79</b>	52 <b>65</b>	62 <b>52</b>		
	8	15 <b>197</b>	26 <b>195</b>	36 <b>182</b>	44 <b>176</b>	52 <b>166</b>	63 <b>154</b>		
	12	14 <b>293</b>	25 <b>287</b>	35 <b>282</b>	43 <b>277</b>	51 <b>268</b>	62 <b>257</b>		
	15	13 <b>371</b>	24 <b>365</b>	34 <b>360</b>	42 <b>355</b>	50 <b>347</b>	62 <b>338</b>		
Max. cont.	20	10 <b>497</b>	21 <b>492</b>	31 <b>487</b>	39 <b>480</b>	48 <b>472</b>	59 <b>463</b>		
Max. int.	25	7 <b>622</b>	19 <b>617</b>	29 <b>612</b>	37 <b>607</b>	44 <b>600</b>	56 <b>591</b>		

FFPMM 50 (50.3 cm<sup>3</sup>/U)

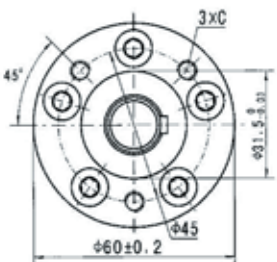
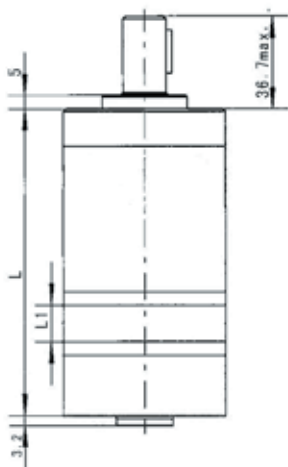
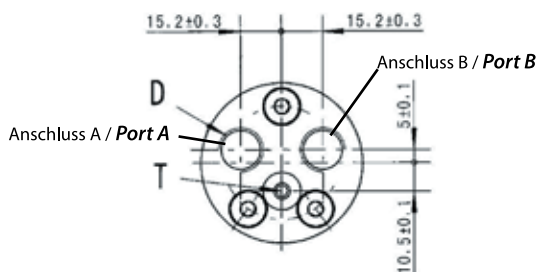
		Druck / pressure (bar)						
		15	30	50	70	100		
Durchflussmenge / Oil flow (l/min)	2	11 <b>37</b>	23 <b>33</b>	36 <b>27</b>	50 <b>22</b>			daNm RPM
	4	11 <b>76</b>	22 <b>73</b>	36 <b>68</b>	50 <b>63</b>	70 <b>55</b>		
	8	11 <b>157</b>	21 <b>154</b>	35 <b>149</b>	50 <b>145</b>	71 <b>137</b>		
	12	11 <b>237</b>	20 <b>234</b>	33 <b>231</b>	49 <b>226</b>	71 <b>218</b>		
	15	10 <b>296</b>	18 <b>295</b>	32 <b>294</b>	47 <b>288</b>	69 <b>282</b>		
Max. cont.	20	8 <b>395</b>	14 <b>395</b>	29 <b>393</b>	44 <b>390</b>	64 <b>391</b>		
Max. int.	25	4 <b>498</b>	10 <b>496</b>	25 <b>494</b>	40 <b>490</b>	59 <b>484</b>		

## Abmessungen

### Anschlüsse / Porting

Hintenanschluss / Rear ports

Version G M U

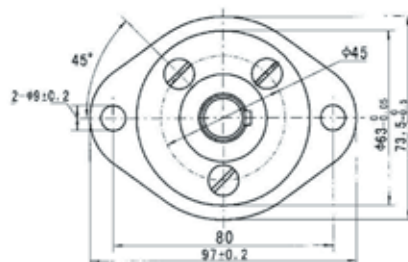
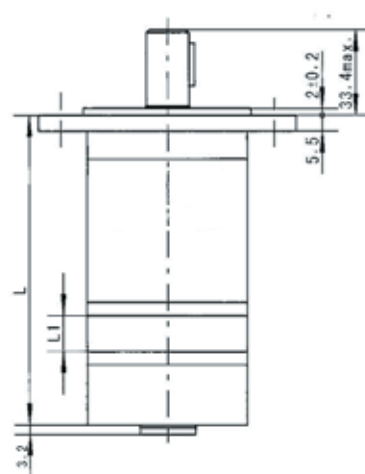
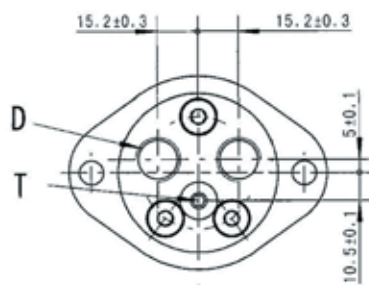


An- schluss / Port	Versionen / Versions	
	Leer / Omit	U
P(A,B)	2 x G 3/8"	2 x 9/16-18 UNF
T	G 1/8"	3/8-24 UNF
C	3 x M6	3 x 1/4-28 UNF-2B

## Dimensions

### Anbaumaße / Mounting

Ovalflansch / Oval Mount 2-Loch / 2 holes



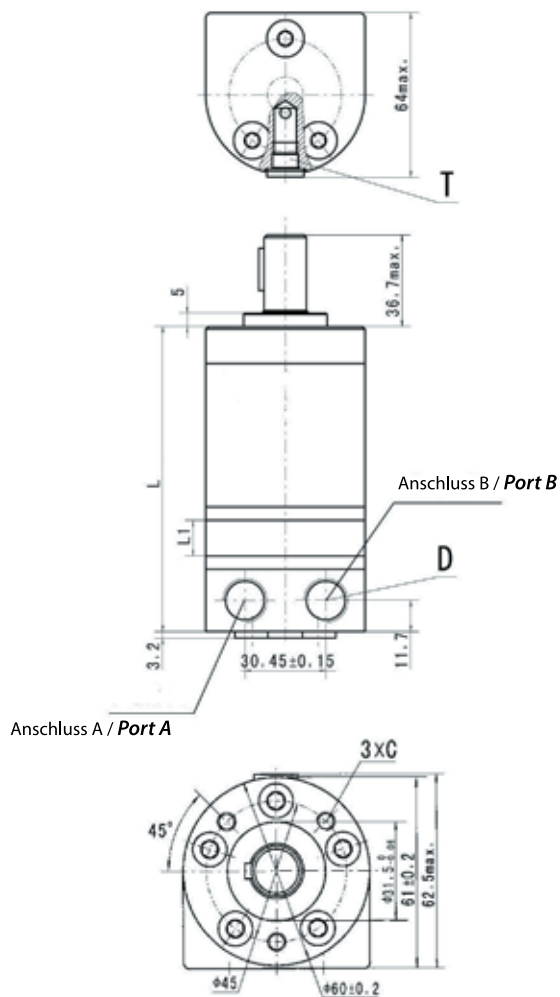
Typ / Type	L	L <sub>1</sub>	Typ / Type	L	L <sub>1</sub>
FFPMM 8	104	3.5	FFPMMF 8	107.5	3.5
FFPMM 12.5	106	5.5	FFPMMF 12.5	109.5	5.5
FFPMM 20	109	8.5	FFPMMF 20	112.5	8.5
FFPMM 32	114	13.5	FFPMMF 32	117.5	13.5
FFPMM 40	117.5	17	FFPMMF 40	121	17
FFPMM 50	122	21.5	FFPMMF 50	125.5	21.5

## Abmessungen

### Anschlüsse / Porting

Seitenanschluss / Side Ports

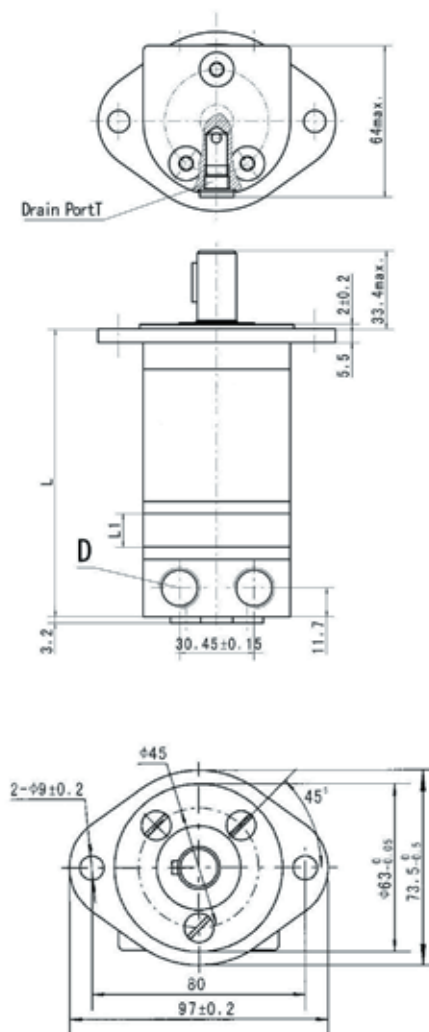
Version G M U



## Dimensions

### Anbaumaße / Mounting

Ovalflansch / Oval Mount 2-Loch / 2 holes

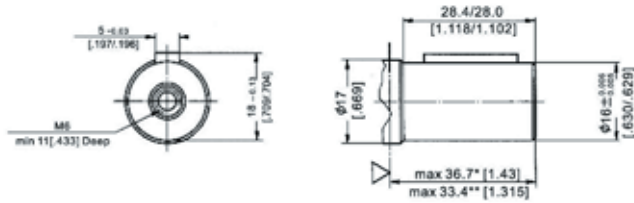


Anschluss / Port	Versionen / Versions	
	Leer / Omit	U
P(A,B)	2 x G 3/8"	2 x 9/16-18 UNF
T	G 1/8"	3/8-24 UNF
C	3 x M6	3 x 1/4-28 UNF-2B

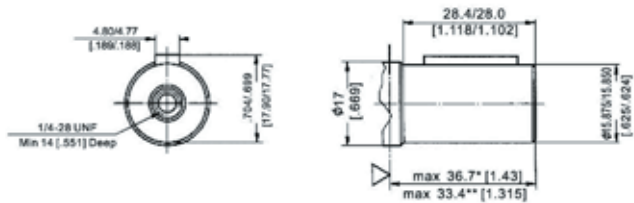
Typ / Type	L	L <sub>1</sub>	Typ / Type	L	L <sub>1</sub>
FFPMMS 8	105	3.5	FFPMMFS 8	108.5	3.5
FFPMMS 12.5	107	5.5	FFPMMFS 12.5	110.5	5.5
FFPMMS 20	110	8.5	FFPMMFS 20	113.5	8.5
FFPMMS 32	115	13.5	FFPMMFS 32	118.5	13.5
FFPMMS 40	118.5	17	FFPMMFS 40	122	17
FFPMMS 50	123	21.5	FFPMMFS 50	126.5	21.5

## Abtriebswellen

**C** - Ø 16 mm zylindrisch mit Passfeder 5 x 5 x 16. Max. Drehmoment: 3.9 daNm / Ø 16 mm straight, parallel key 5 x 5 x 16. Max. torque: 3.9 daNm

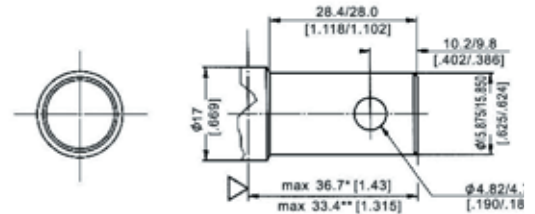


**CO** - Ø 15.8 mm (5/8") zylindrisch mit Passfeder 3/16" x 3/16" x 3/4". Max. Drehmoment: 3.9 daNm / Ø 15.8mm (5/8") straight, parallel key 3/16" x 3/16" x 3/4". Max. torque: 3.9 daNm

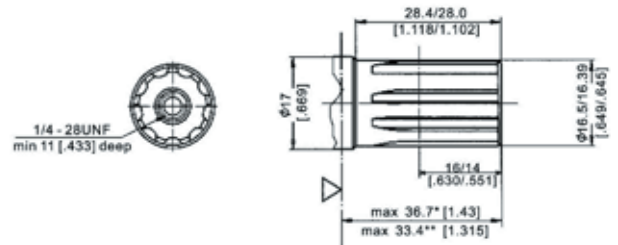


## Output shafts

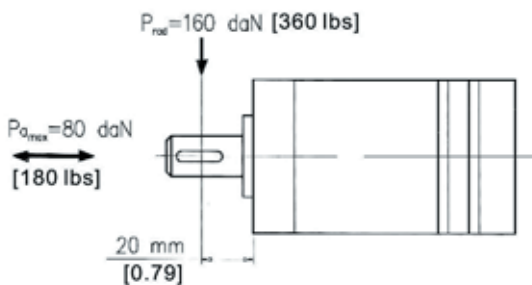
**H** - Ø 15.8 mm (5/8") zylindrisch mit Querloch Ø 4.82 mm. Max. Drehmoment: 3.9 daNm / Ø 15.8mm (5/8") straight, cross hole Ø 4.82 mm. Max. torque: 3.9 daNm.



**SH** - Ø 16.5 mm verzahnt, B17 x 14. Max. Drehmoment: 4.4 daNm / Ø 16.5 mm splined, B17 x 14. Max. torque: 4.4 daNm

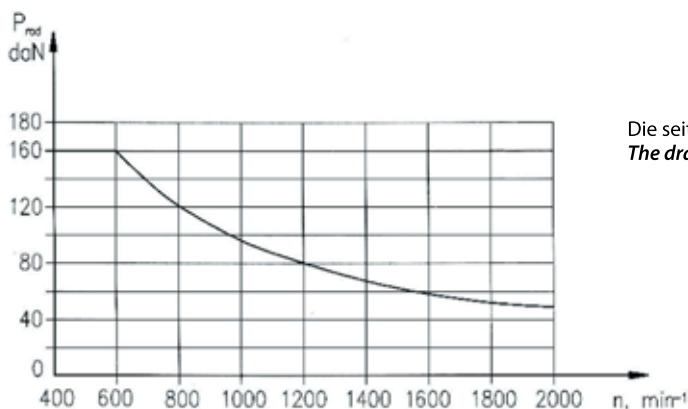


## Radiallast / Shaft Load



Die zulässige Radiallast berechnet sich aus dem Abstand L zwischen Kraftangriffspunkt und der Montagefläche des Flansches / The permissible radial shaft load is calculated from the distance L between the point load application and the mounting surface:

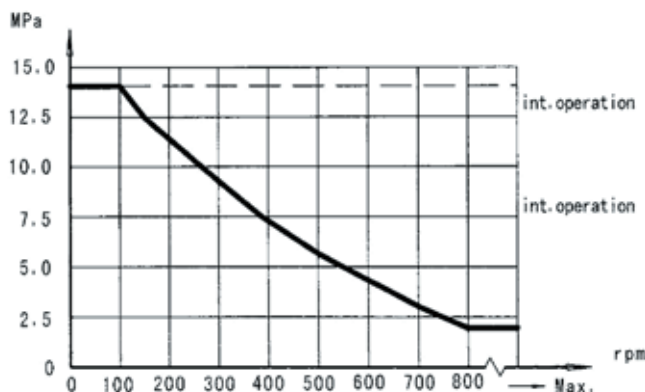
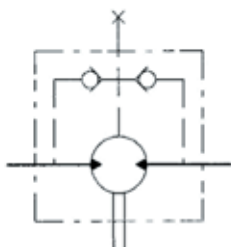
$$F_{rad} = \frac{600}{n} \cdot \frac{13040}{61,5 + L} [daN]$$



Die seitliche Grafik zeigt den zulässigen Radiallastverlauf bei L=20mm. The drawing shows the permissible shaft load when L=20mm



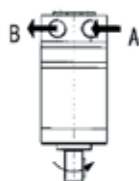
Max. Rücklaufdruck ohne Leckölleitung bzw. max. Druck in der Leckölleitung / *Max. return pressure without drain line or max. pressure in drain line*



## Drehrichtungsauswahl Rotation selection



FFMM Endanschluss /  
FFMM rear port



FFMM Seitenanschluss /  
FFMM side port

Standardeinstellung:  
Drehrichtung rechts, wenn Anschluss A druckbeaufschlagt ist.  
Drehrichtung links, wenn Anschluss B druckbeaufschlagt ist.

**Standard direction of rotation:**  
Clockwise when port „A“ is pressurized.  
Counter-Clockwise when port „B“ is pressurized.

## Bestellinformationen

	1	2	3	4	5	6	7
<b>FFPMM</b>							

### Pos. 1 Montageflansch / Mounting flange

Leer / Omit Runder Flansch (3 Schrauben) / Round flange (3 bolts)  
F Ovalflansch 2-loch / Oval mount 2 holes

### Pos. 2 Anschlüsse / Port type

Leer / Omit Endanschlüsse / Rear ports  
S Seitliche Anschlüsse / Side ports

### Pos. 3 Schluckvolumen / Displacement

8	8 cm <sup>3</sup> /U / 8 ccm/REV
12.5	12.5 cm <sup>3</sup> /U / 12.5 ccm/REV
20	20 cm <sup>3</sup> /U / 20 ccm/REV
32	32 cm <sup>3</sup> /U / 32 ccm/REV
40	40 cm <sup>3</sup> /U / 40 ccm/REV
50	50 cm <sup>3</sup> /U / 50 ccm/REV

## Order Information

### Pos. 4 Wellenausführungen / Shaft extensions

- C Ø 16 mm zylindrisch mit Passfeder 5 x 5 x 16  
Ø 16 mm straight with parallel key 5 x 5 x 16
- CO Ø 15.8 mm (5/8") zylindrisch mit Passfeder 3/16" x 3/16" x 3/4"  
Ø 15.8 mm (5/8") straight with parallel key 3/16" x 3/16" x 3/4"
- HA Ø 15.8 mm (5/8") mit Querloch 4.82 mm / Ø 15.8 mm (5/8") with cross hole 4.82 mm
- SH Ø 16.5 mm verzahnt B17 x 14 / Ø 16.5 mm splined B17 x 14

### Pos. 5 Anschlüsse / Porting

- Leer / Omit 2 x G 3/8", 1 x G 1/8" / 2 x G 3/8", 1 x G 1/8"
- U 2 x 9/16-18 UNF, O-Ring, 1 x 3/8-24 UNF / 2 x 9/16-18 UNF, O-Ring, 1 x 3/8-24 UNF

### Pos. 6 Farbe / Painting

- Leer / Omit Grau / Grey
- RAL... + Ralfarbe (z.B. 7021) / + Ral colour (e.g. 7021)

### Pos. 7 Drehrichtung / Rotation direction

- Leer / Omit Standarddrehrichtung / Standard Rotation
- R Umgekehrte Drehrichtung / Reverse Rotation

# FLOWFIT HYDRAULIC MOTOR PRICE LIST – BUILD YOUR OWN

## FFPMM MINI HYDRAULIC MOTOR

STANDARD: OPTIONS INCLUDED FFPMM	PART NUMBER	PRICE
SIDE OR REAR PORTS	FFPMM 8	£115.60
ROUND FLANGE	FFPMM 12.5	£115.60
SHAFT TYPE "C" Ø16 MM	FFPMM 20	£115.60
SHAFT TYPE "CO" Ø15,875 MM	FFPMM 32	£118.19
	FFPMM 40	£120.78
	FFPMM 50	£123.35
OPTIONS: OPTIONAL EXTRAS FFPMM		
SPLINED SHAFT B17 X 14 DIN5482	SH: ADD	£2.57
2 - HOLE FLANGE	F: ADD	£3.85

# FLOWFIT HYDRAULIC MOTOR PRICE LIST – COMPLETE

PART NUMBER	DESCRIPTION	PRICE
FFPMM12,5C	HYDRAULIC MOTOR FFPMM12.5C, 12,9 CCM/REV, SHAFT 16MM, G 3/8 INCH, REAR PORTS	£115.60
FFPMM20C	HYDRAULIC MOTOR FFPMM20C, 19,9 CCM/REV, SHAFT 16MM, G3/8 INCH, REAR PORTS	£115.60
FFPMM32C	HYDRAULIC MOTOR FFPMM32C, 31,6 CCM/REV, SHAFT 16MM, G3/8 INCH, REAR PORTS	£118.19
FFPMM32SH	HYDRAULIC MOTOR FFPMM32SH, 31,6 CCM/REV, SPLINED SHAFT 16,5MM 14 T., G3/8 INCH, REAR PORTS	£120.77
FFPMM40C	HYDRAULIC MOTOR FFPMM40C, 39,8 CCM/REV, SHAFT 16MM, G 3/8 INCH, REAR PORTS	£120.78
FFPMM40SH	HYDRAULIC MOTOR FFPMM40SH, 39,8 CCM/REV, SPLINED SHAFT 16,5MM 14 T., G3/8 INCH, REAR PORTS	£123.35
FFPMM50C	HYDRAULIC MOTOR FFPMM50C, 50,3 CCM/REV, SHAFT 16MM, G 3/8 INCH, REAR PORTS	£123.35
FFPMM8C	HYDRAULIC MOTOR FFPMM8C, 8,2 CCM/REV, SHAFT 16MM, G 3/8 INCH, REAR PORTS	£116.15
FFPMMFS12,5C	HYDRAULIC MOTOR FFPMMFS12,5C, 12,9 CCM/REV, SHAFT 16MM, G 3/8 INCH, OVAL MOUNT, SIDE PORTS	£122.02
FFPMMFS20C	HYDRAULIC MOTOR FFPMMFS20C, 19,9 CCM/REV, SHAFT 16MM, G 3/8 INCH, OVAL MOUNT, SIDE PORTS	£122.02
FFPMMFS32C	HYDRAULIC MOTOR FFPMMFS32C, 31,6 CCM/REV, SHAFT 16MM, G 3/8 INCH, OVAL MOUNT, SIDE PORTS	£124.60
FFPMMFS8C	HYDRAULIC MOTOR FFPMMFS8C, 8,2 CCM/REV, SHAFT 16MM, G 3/8 INCH, OVAL MOUNT, SIDE PORTS	£124.60
FFPMMS12.5C	HYDRAULIC MOTOR FFPMMS12.5C, 12,9 CCM/REV, SHAFT 16MM, G 3/8 INCH, SIDE PORTS	£118.17
FFPMMS20C	HYDRAULIC MOTOR FFPMMS20C, 19,9 CCM/REV, SHAFT 16MM, G 3/8 INCH, SIDE PORTS	£118.17
FFPMMS32C	HYDRAULIC MOTOR FFPMMS32C, 31,6 CCM/REV, SHAFT 16MM, G 3/8 INCH, SIDE PORTS	£120.77
FFPMMS40C	HYDRAULIC MOTOR FFPMMS40C, 39,8 CCM/REV, SHAFT 16MM, G 3/8 INCH, SIDE PORTS	£123.35
FFPMMS50C	HYDRAULIC MOTOR FFPMMS50C, 50,3 CCM/REV, SHAFT 16MM, G 3/8 INCH, SIDE PORTS	£125.92
FFPMMS8C	HYDRAULIC MOTOR FFPMMS8C, 8,2 CCM/REV, SHAFT 16MM, G 3/8 INCH, SIDE PORTS	£118.17

## FFPM Hydraulik Motor

## FFPM Hydraulic Motor

- Modell Längsschieberventil
- Kompakte Bauweise
- Ideal für enge Bauräume
- Internes Rückschlagventil
- Verwendung ohne Leckölanschluss möglich
- Hochdruckwellendichtring ist standard



- *Spool valve type*
- *Compact design*
- *Optimized for small spaces*
- *Internal check valve*
- *Usage without drain line possible*
- *High pressure seal is standard*

TYP / Type		FFPM	FFPM	FFPM	FFPM	FFPM	FFPM(1)	FFPM(2)	FFPM(1)	FFPM(2)	FFPM(1)	FFPM(2)	FFPM(1)	FFPM(2)
		50	80	100	125	160	200	200	250	250	315	315	400	400
Schluckvolumen / Displacement [cm <sup>3</sup> /REV]		51.7	77.7	96.2	117.2	155.5	189.9	189.9	231	231	311.7	311.7	386.2	386.2
Max. Drehzahl / Max. Speed [RPM]	Dauerbetrieb / Cont.	1180	760	600	485	380	302	302	240	240	190	190	150	150
	Int.(3)	1380	940	750	600	475	380	380	302	302	235	235	190	190
Max. Drehmoment / Max. Torque [daNm]	Dauerbetrieb / Cont.	9.3	14.9	19	23.4	31	36.4	35.9	45.2	35.1	46.3	34.2	48.2	34.8
	Int.(3)	12	19	23	29	37	45.2	43.5	58.9	46.8	54.3	49.2	55.5	45.4
	Spitze / Peak (4)	14	21.9	26.5	36.2	42.6	54.5	54.5	64.2	58.5	70.5	68.4	78.7	68.8
Max. Leistungsabgabe / Max. Output Power [kW]	Dauerbetrieb / Cont.	10.2	10.1	10.3	10	10	10	9.6	9.4	7.4	7.5	5.6	6.3	4.6
	Int.(3)	12.3	12.3	12.5	12	12	12	12	12	12	9	9	7.8	7.8
Max. Druckgefälle / Max. Pressure Drop [bar]	Dauerbetrieb / Cont.	140	140	140	140	140	140	135	135	105	115	80	90	65
	Int.(3)	175	175	175	175	175	175	160	175	140	135	115	110	90
	Spitze / Peak (4)	210	210	210	210	210	210	210	200	175	175	160	160	140
Max. Ölstrom / Max. Oil flow [l/min]	Dauerbetrieb / Cont	50	60	60	60	60	60	60	60	60	60	60	60	60
	Int.(3)	60	75	75	75	75	75	75	75	75	75	75	75	75
Max. Eingangsdruck / Max. Input Pressure [bar]	Dauerbetrieb / Cont.	160	160	160	160	160	160	160	160	160	160	160	160	160
	Int.(3)	175	175	175	175	175	175	175	175	175	175	175	175	175
	Spitze / Peak (4)	210	210	210	210	210	210	210	210	210	210	210	210	210
Gewicht / Weight [kg]		5.6	5.7	5.9	6.0	6.2	6.4	6.4	6.6	6.6	6.9	6.9	7.4	7.4

- (1) FFPM Motor mit CB, SH, K und SB Wellen
- (2) FFPM Motor mit C, CO und S Wellen
- (3) Intermittierender Betrieb max. 6 Sekunden / Minute
- (4) Spitzenbetrieb max. 0,6 Sekunden / Minute

- (1) FFPM Motor with CB, SH, K and SB shafts
- (2) FFPM Motor with C, CO and S shafts
- (3) Intermittend operation rating applies to 6 sec. of every minute
- (4) Peak load rating applies to 0,6 sec of every minute

## Leistungsdaten

FFPM 50 (51.7 cm<sup>3</sup>/U)

Druck / pressure (bar)

Durchflussmenge / Oil flow (l/min)	Max. cont.								Max. Int.		daNm RPM
	30	60	80	100	125	140	160	175			
8	2.0	4.1	5.6	6.9	8.9	9.5					
	<b>151</b>	<b>134</b>	<b>115</b>	<b>90</b>	<b>56</b>	<b>42</b>					
15	1.9	4.0	5.6	7.1	9.1	10.0	11.2	12.0			
	<b>286</b>	<b>274</b>	<b>261</b>	<b>243</b>	<b>204</b>	<b>182</b>	<b>139</b>	<b>102</b>			
20	1.8	3.9	5.5	7.1	9.2	10.1	11.7	12.8			
	<b>382</b>	<b>373</b>	<b>361</b>	<b>348</b>	<b>318</b>	<b>309</b>	<b>287</b>	<b>251</b>			
30	1.7	3.8	5.5	7.1	9.1	9.8	11.6	12.4			
	<b>573</b>	<b>568</b>	<b>558</b>	<b>535</b>	<b>503</b>	<b>488</b>	<b>462</b>	<b>548</b>			
35	1.7	3.8	5.4	6.9	8.9	9.8	11.7	12.4			
	<b>670</b>	<b>661</b>	<b>652</b>	<b>640</b>	<b>606</b>	<b>589</b>	<b>562</b>	<b>548</b>			
45	1.4	3.6	5.3	6.7	8.8	9.8	11.4	12.3			
	<b>863</b>	<b>858</b>	<b>849</b>	<b>837</b>	<b>807</b>	<b>788</b>	<b>764</b>	<b>746</b>			
55	1.2	3.3	5.0	6.5	8.5	9.6	11.1	12.1			
	<b>1055</b>	<b>1042</b>	<b>1028</b>	<b>1010</b>	<b>979</b>	<b>963</b>	<b>947</b>	<b>920</b>			
Max. cont.	60	1.0	3.2	4.7	6.4	8.3	9.4	10.8	11.9		
		<b>1150</b>	<b>1143</b>	<b>1126</b>	<b>1111</b>	<b>10799</b>	<b>1065</b>	<b>1043</b>	<b>1015</b>		
Max. int.	75	0.6	2.5	4.2	5.6	7.6	8.7	10.1	11.2		
		<b>1440</b>	<b>1430</b>	<b>1416</b>	<b>1395</b>	<b>1367</b>	<b>1351</b>	<b>1335</b>	<b>1312</b>		

## Performance data

FFPM 80 (77.7 cm<sup>3</sup>/U)

Druck / pressure (bar)

Durchflussmenge / Oil flow (l/min)	Max. cont.								Max. Int.		daNm RPM
	30	60	80	100	125	140	16	175			
8	3.2	6.2	8.5	10.4	12.9	14.4					
	<b>97</b>	<b>87</b>	<b>74</b>	<b>55</b>	<b>33</b>	<b>22</b>					
15	3.2	6.3	8.4	10.7	12.6	14.4	16.5				
	<b>186</b>	<b>181</b>	<b>170</b>	<b>154</b>	<b>132</b>	<b>118</b>	<b>86</b>				
20	3.1	6.3	8.4	10.7	13.2	14.6	16.8	18.5			
	<b>251</b>	<b>243</b>	<b>236</b>	<b>225</b>	<b>207</b>	<b>196</b>	<b>178</b>	<b>155</b>			
30	3.1	6.2	8.3	10.6	13.1	14.6	16.8	18.6			
	<b>281</b>	<b>379</b>	<b>368</b>	<b>355</b>	<b>332</b>	<b>316</b>	<b>285</b>	<b>263</b>			
35	3.0	5.9	8.1	10.2	13.0	14.4	16.7	18.5			
	<b>443</b>	<b>435</b>	<b>426</b>	<b>415</b>	<b>397</b>	<b>383</b>	<b>361</b>	<b>342</b>			
45	2.5	5.8	7.9	10.0	12.6	14.2	16.5	18.2			
	<b>570</b>	<b>564</b>	<b>554</b>	<b>543</b>	<b>526</b>	<b>509</b>	<b>483</b>	<b>458</b>			
55	2.3	5.7	7	9.7	12.4	14.0	16.1	17.9			
	<b>696</b>	<b>685</b>	<b>672</b>	<b>656</b>	<b>643</b>	<b>630</b>	<b>602</b>	<b>579</b>			
Max. cont.	60	2.0	5.3	7.5	9.4	12.0	13.7	16.0	17.7		
		<b>761</b>	<b>753</b>	<b>744</b>	<b>736</b>	<b>720</b>	<b>706</b>	<b>681</b>	<b>660</b>		
Max. int.	75	1.4	4.4	6.7	8.7	11.2	15.1	16.9	16.9		
		<b>948</b>	<b>940</b>	<b>931</b>	<b>920</b>	<b>906</b>	<b>890</b>	<b>871</b>	<b>854</b>		

FFPM 100 (96.2 cm<sup>3</sup>/U)

Druck / pressure (bar)

Durchflussmenge / Oil flow (l/min)	Max. cont.								Max. Int.		daNm RPM
	30	60	80	100	125	140	160	175			
8	4.0	7.7	10.5	13.0	16.1	18.0					
	<b>81</b>	<b>75</b>	<b>69</b>	<b>57</b>	<b>36</b>	<b>24</b>					
15	3.9	7.7	10.6	13.0	16.0	18.0	20.8				
	<b>152</b>	<b>149</b>	<b>145</b>	<b>140</b>	<b>122</b>	<b>103</b>	<b>881</b>				
20	3.6	7.4	10.4	12.8	16.1	17.9	20.5	22.7			
	<b>204</b>	<b>200</b>	<b>1955</b>	<b>190</b>	<b>177</b>	<b>166</b>	<b>148</b>	<b>133</b>			
30	3.3	7.2	10.3	12.5	16.0	17.7	20.3	22.5			
	<b>308</b>	<b>304</b>	<b>298</b>	<b>290</b>	<b>280</b>	<b>268</b>	<b>255</b>	<b>231</b>			
35	3.0	7.0	9.8	12.2	15.9	17.6	20.2	22.4			
	<b>360</b>	<b>352</b>	<b>343</b>	<b>331</b>	<b>320</b>	<b>306</b>	<b>294</b>	<b>275</b>			
45	2.9	6.7	9.5	11.8	1.5	17.4	20.0	22.0			
	<b>462</b>	<b>458</b>	<b>451</b>	<b>443</b>	<b>433</b>	<b>419</b>	<b>402</b>	<b>383</b>			
55	2.5	6.4	9.3	11.6	15.2	17.0	19.8	21.7			
	<b>566</b>	<b>558</b>	<b>549</b>	<b>540</b>	<b>529</b>	<b>515</b>	<b>498</b>	<b>478</b>			
Max. cont.	60	2.2	6.0	9.1	11.4	14.9	16.7	19.4	21.3		
		<b>618</b>	<b>611</b>	<b>601</b>	<b>589</b>	<b>580</b>	<b>5770</b>	<b>558</b>	<b>540</b>		
Max. int.	75	1.5	5.4	8.3	10.6	14.1	16.0	18.6	20.5		
		<b>771</b>	<b>763</b>	<b>755</b>	<b>744</b>	<b>735</b>	<b>724</b>	<b>708</b>	<b>693</b>		

## Leistungsdaten

## Performance data

FFPM 125 (120.2 cm<sup>3</sup>/U)

FFPM 160 (157.2 cm<sup>3</sup>/U)

Druck / pressure (bar)

Druck / pressure (bar)

Durchflussmenge / Oil flow (l/min)	Max. cont.								Max. Int.		daNm RPM
	30	60	80	100	125	140	160	175			
8	5.1 <b>63</b>	9.8 <b>60</b>	13.7 <b>55</b>	16.8 <b>47</b>	20.8 <b>28</b>	23.6 <b>15</b>					
15	5.1 <b>121</b>	10.1 <b>116</b>	13.8 <b>110</b>	16.8 <b>102</b>	20.9 <b>89</b>	23.6 <b>73</b>	26.7 <b>48</b>				
20	4.8 <b>162</b>	9.8 <b>158</b>	13.5 <b>153</b>	16.7 <b>148</b>	21.1 <b>137</b>	23.7 <b>128</b>	26.9 <b>109</b>	29.0 <b>94</b>			
30	4.6 <b>243</b>	9.6 <b>239</b>	13.2 <b>234</b>	16.4 <b>227</b>	20.9 <b>216</b>	23.2 <b>202</b>	26.4 <b>189</b>	28.7 <b>176</b>			
35	4.2 <b>284</b>	9.2 <b>279</b>	13.0 <b>274</b>	16.0 <b>269</b>	20.6 <b>259</b>	22.9 <b>247</b>	26.0 <b>231</b>	28.4 <b>222</b>			
45	3.7 <b>370</b>	8.9 <b>362</b>	12.5 <b>355</b>	15.7 <b>348</b>	20.1 <b>340</b>	22.4 <b>327</b>	26.1 <b>310</b>	28.1 <b>296</b>			
55	3.3 <b>452</b>	8.4 <b>446</b>	12.2 <b>438</b>	15.2 <b>4431</b>	19.6 <b>420</b>	21.8 <b>412</b>	25.2 <b>402</b>	27.5 <b>384</b>			
Max. cont. 60	2.9 <b>490</b>	7.8 <b>482</b>	11.7 <b>475</b>	14.6 <b>468</b>	19.1 <b>459</b>	21.5 <b>448</b>	24.8 <b>439</b>	27.2 <b>427</b>			
Max. int. 75	1.8 <b>615</b>	6.6 <b>606</b>	10.7 <b>598</b>	13.3 <b>586</b>	17.9 <b>575</b>	20.2 <b>563</b>	23.6 <b>549</b>	26.0 <b>528</b>			

Durchflussmenge / Oil flow (l/min)	Max. cont.								Max. Int.		daNm RPM
	30	60	80	100	125	140	160	175			
8	6.2 <b>49</b>	12.0 <b>48</b>	17.0 <b>46</b>	21.2 <b>42</b>	26.3 <b>26</b>	29.0 <b>14</b>					
15	6.0 <b>93</b>	12.2 <b>91</b>	17.2 <b>88</b>	21.5 <b>85</b>	26.4 <b>76</b>	29.4 <b>68</b>	34.0 <b>48</b>				
20	5.7 <b>125</b>	12.0 <b>123</b>	17.0 <b>120</b>	21.4 <b>117</b>	26.2 <b>110</b>	29.0 <b>106</b>	34.0 <b>92</b>	37.1 <b>81</b>			
30	5.3 <b>187</b>	11.5 <b>184</b>	16.4 <b>181</b>	20.6 <b>178</b>	25.9 <b>175</b>	28.8 <b>168</b>	33.5 <b>155</b>	36.8 <b>139</b>			
35	4.9 <b>220</b>	11.0 <b>216</b>	16.0 <b>213</b>	20.2 <b>209</b>	25.5 <b>205</b>	28.4 <b>202</b>	32.8 <b>192</b>	36.2 <b>176</b>			
45	4.4 <b>283</b>	10.2 <b>280</b>	15.4 <b>276</b>	19.6 <b>272</b>	24.8 <b>267</b>	27.8 <b>260</b>	32.1 <b>250</b>	35.8 <b>238</b>			
55	4.0 <b>345</b>	9.9 <b>342</b>	14.8 <b>340</b>	19.1 <b>336</b>	24.3 <b>331</b>	27.2 <b>328</b>	31.6 <b>320</b>	35.1 <b>303</b>			
Max. cont. 60	3.3 <b>377</b>	9.4 <b>374</b>	14.4 <b>371</b>	18.8 <b>367</b>	23.6 <b>363</b>	26.7 <b>359</b>	30.8 <b>353</b>	34.5 <b>342</b>			
Max. int. 75	1.9 <b>473</b>	8.0 <b>469</b>	12.4 <b>465</b>	17.0 <b>459</b>	21.6 <b>453</b>	25.2 <b>447</b>	29.6 <b>440</b>	32.5 <b>424</b>			

FFPM 200 (194.5 cm<sup>3</sup>/U)

Druck / pressure (bar)

Durchflussmenge / Oil flow (l/min)	Max. cont.						Max. Int.		daNm RPM	
	30	60	80	100	125	140	16	175		
8	7.9 <b>40</b>	16.4 <b>39</b>	20.7 <b>38</b>	25.0 <b>35</b>	32.0 <b>28</b>	36.0 <b>22</b>				
15	7.8 <b>76</b>	16.2 <b>75</b>	20.5 <b>74</b>	25.0 <b>71</b>	33.2 <b>66</b>	36.1 <b>61</b>	41.0 <b>51</b>			
20	7.6 <b>100</b>	15.8 <b>98</b>	20.3 <b>97</b>	24.7 <b>95</b>	32.0 <b>92</b>	35.8 <b>89</b>	40.3 <b>73</b>	42.2 <b>57</b>		
30	7.0 <b>151</b>	15.3 <b>149</b>	20.0 <b>147</b>	24.5 <b>145</b>	31.5 <b>142</b>	35.0 <b>139</b>	39.8 <b>131</b>	41.7 <b>120</b>		
35	6.6 <b>177</b>	14.9 <b>175</b>	19.4 <b>173</b>	23.2 <b>171</b>	29.7 <b>168</b>	34.3 <b>166</b>	38.6 <b>160</b>	41.5 <b>149</b>		
45	6.3 <b>228</b>	14.6 <b>226</b>	19.0 <b>224</b>	23.0 <b>221</b>	29.4 <b>218</b>	30.4 <b>215</b>	38.3 <b>210</b>	41.0 <b>198</b>		
55	5.4 <b>280</b>	14.0 <b>278</b>	18.1 <b>276</b>	22.4 <b>274</b>	28.6 <b>271</b>	33.4 <b>269</b>	37.1 <b>263</b>	40.0 <b>250</b>		
Max. cont. 60	3.8 <b>304</b>	12.7 <b>302</b>	16.4 <b>300</b>	21.2 <b>297</b>	27.0 <b>294</b>	32.5 <b>291</b>	35.6 <b>286</b>	39.5 <b>272</b>		
Max. int. 75	2.2 <b>382</b>	9.6 <b>378</b>	14.5 <b>374</b>	19.2 <b>371</b>	23.5 <b>368</b>	29.3 <b>364</b>	32.1 <b>360</b>	36.7 <b>350</b>		

## Leistungsdaten

FFPM 250 (240.3 cm<sup>3</sup>/U)

Druck / pressure (bar)

Max. cont. Max. Int.

Durchflussmenge / Oil flow (l/min)	30	60	80	100	125	140	160	175	daNm RPM
	8	9.6 <b>30</b>	19.0 <b>28</b>	26.8 <b>24</b>	32.6 <b>21</b>	40.3 <b>11</b>			
15	98 <b>60</b>	194 <b>58</b>	270 <b>54</b>	32.7 <b>50</b>	40.5 <b>40</b>	45.0 <b>30</b>	51.0 <b>12</b>		
20	9.2 <b>82</b>	18.8 <b>80</b>	26.7 <b>77</b>	32.5 <b>76</b>	40.5 <b>69</b>	45.6 <b>64</b>	51.4 <b>52</b>	56.5 <b>38</b>	
30	8.5 <b>123</b>	18.0 <b>120</b>	25.9 <b>118</b>	32.0 <b>114</b>	40.0 <b>106</b>	44.8 <b>98</b>	51.3 <b>87</b>	56.1 <b>76</b>	
35	7.7 <b>143</b>	17.6 <b>141</b>	25.2 <b>139</b>	31.1 <b>135</b>	38.9 <b>128</b>	43.6 <b>122</b>	50.4 <b>112</b>	55.7 <b>101</b>	
45	7.0 <b>185</b>	16.8 <b>182</b>	24.3 <b>178</b>	30.0 <b>174</b>	37.7 <b>168</b>	42.8 <b>161</b>	49.5 <b>152</b>	54.3 <b>139</b>	
55	6.3 <b>226</b>	15.9 <b>223</b>	23.7 <b>218</b>	29.0 <b>213</b>	36.9 <b>209</b>	41.7 <b>202</b>	48.3 <b>193</b>	53.1 <b>185</b>	
Max. cont. 60	6.0 <b>248</b>	15.0 <b>26</b>	22.8 <b>243</b>	28.0 <b>239</b>	35.8 <b>233</b>	40.7 <b>2226</b>	47.3 <b>215</b>	52.0 <b>207</b>	
Max. int. 75	3.4 <b>309</b>	12.8 <b>306</b>	20.2 <b>302</b>	26.4 <b>297</b>	34.2 <b>292</b>	38.7 <b>286</b>	44.8 <b>278</b>	48.8 <b>264</b>	

## Performance data

FFPM 315 (314.5 cm<sup>3</sup>/U)

Druck / pressure (bar)

Max. cont. Max. Int.

Durchflussmenge / Oil flow (l/min)	30	60	70	90	100	125	140	daNm RPM
	8	12.3 <b>25</b>	21.5 <b>23</b>	29.2 <b>21</b>	36.8 <b>17</b>	40.5 <b>11</b>		
15	11.8 <b>47</b>	21.1 <b>46</b>	28.7 <b>44</b>	36.7 <b>40</b>	40.4 <b>28</b>	49.5 <b>21</b>	56.8 <b>10</b>	
20	11.0 <b>62</b>	20.5 <b>61</b>	27.8 <b>60</b>	36.0 <b>57</b>	39.5 <b>46</b>	49.4 <b>40</b>	56.6 <b>36</b>	
30	10.1 <b>94</b>	19.6 <b>93</b>	27.1 <b>91</b>	34.9 <b>88</b>	38.8 <b>76</b>	49.0 <b>68</b>	56.5 <b>65</b>	
35	9.6 <b>109</b>	18.8 <b>107</b>	26.4 <b>106</b>	34.1 <b>104</b>	38.2 <b>96</b>	47.8 <b>89</b>	55.7 <b>84</b>	
45	8.9 <b>141</b>	18.0 <b>140</b>	25.4 <b>138</b>	33.7 <b>135</b>	37.2 <b>127</b>	46.8 <b>120</b>	55.3 <b>115</b>	
55	7.6 <b>173</b>	16.6 <b>172</b>	23.9 <b>170</b>	32.5 <b>167</b>	36.2 <b>160</b>	45.7 <b>152</b>	54.8 <b>143</b>	
Max. cont. 60	6.5 <b>188</b>	15.4 <b>186</b>	22.7 <b>184</b>	30.8 <b>182</b>	34.8 <b>178</b>	44.3 <b>172</b>	52.9 <b>163</b>	
Max. int. 75	4.0 <b>236</b>	12.0 <b>234</b>	20.1 <b>232</b>	27.9 <b>228</b>	32.3 <b>226</b>	41.8 <b>223</b>	49.7 <b>214</b>	

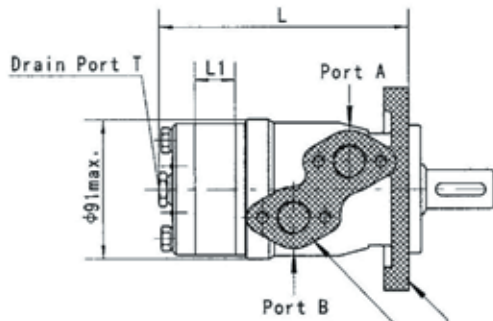
FFPM 400 (386.2 cm<sup>3</sup>/U)

Druck / pressure (bar)

Max. cont. Max. Int.

Durchflussmenge / Oil flow (l/min)	30	45	55	65	80	100	125	daNm RPM
	8	16.6 <b>20</b>	23.2 <b>19</b>	28.7 <b>18</b>	34.0 <b>16</b>	41.8 <b>12</b>		
15	16.5 <b>38</b>	22.8 <b>36</b>	27.7 <b>35</b>	33.7 <b>33</b>	41.7 <b>31</b>	49.6 <b>27</b>	61.2 <b>21</b>	
20	16.2 <b>50</b>	22.3 <b>49</b>	27.3 <b>49</b>	33.1 <b>48</b>	41.3 <b>45</b>	49.5 <b>41</b>	60.8 <b>35</b>	
30	15.4 <b>76</b>	21.6 <b>75</b>	26.6 <b>74</b>	31.8 <b>73</b>	40.5 <b>71</b>	48.6 <b>67</b>	60.0 <b>60</b>	
35	14.6 <b>88</b>	21.0 <b>87</b>	25.6 <b>87</b>	31.2 <b>86</b>	39.5 <b>83</b>	48.0 <b>80</b>	58.8 <b>75</b>	
45	13.2 <b>114</b>	19.7 <b>113</b>	24.3 <b>112</b>	30.0 <b>110</b>	38.3 <b>108</b>	46.4 <b>106</b>	57.6 <b>99</b>	
55	11.7 <b>139</b>	18.4 <b>137</b>	22.7 <b>136</b>	28.3 <b>135</b>	36.3 <b>135</b>	45.0 <b>132</b>	55.2 <b>123</b>	
Max. cont. 60	10.2 <b>153</b>	16.3 <b>152</b>	21.5 <b>150</b>	27.2 <b>148</b>	34.7 <b>146</b>	43.6 <b>143</b>	53.2 <b>138</b>	
Max. int. 75	5.3 <b>191</b>	12.8 <b>189</b>	18.2 <b>187</b>	23.4 <b>185</b>	31.8 <b>183</b>	39.1 <b>180</b>	48.4 <b>176</b>	

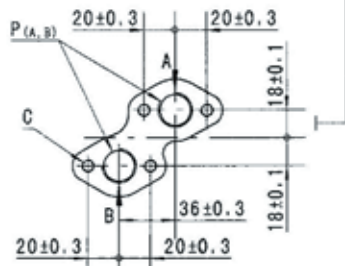
## Abmessungen



### Anschlüsse / Porting

Seitenanschluss / Side Ports  
Version G M U P

Anschluss A / Port A



Anschluss B / Port B

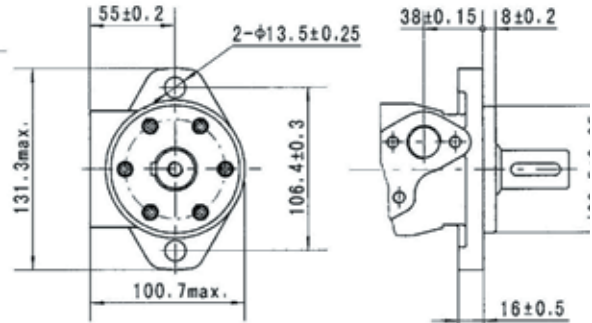
E Endanschluss auf Anfrage / Rear Ports on request

Anschluss / Port	Versionen / Versions			
	Leer / Omit	M	U	P
P(A,B)	2 x G 1/2"	2 x M22 x 1,5	7/8-14 O-Ring	2 x 1/2 NPTF
T	G 1/4"	M14	7/16-20UNF	7/16-20UNF
C	4 x M8	4 x M8	5/16-18 UNC	5/16-18 UNC

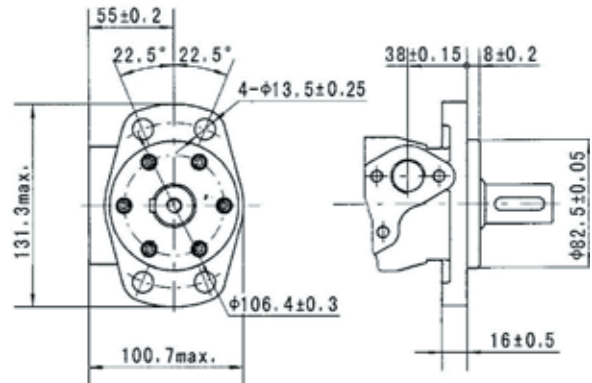
## Dimensions

### Anbaumaße / Mounting

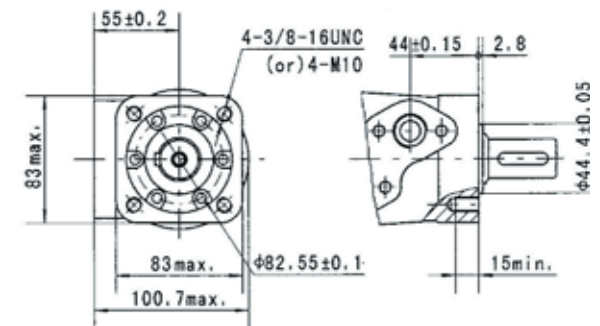
Ovalflansch / Oval Mount SAE (2-Loch) / 2 holes



F Magneto Flansch / Magneto Mount (4-Loch) / 4 holes



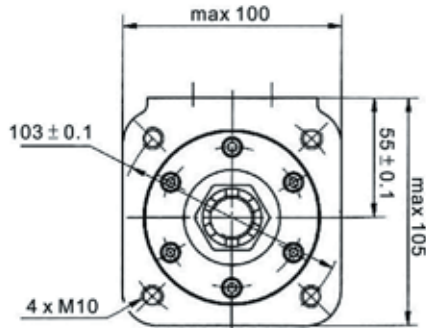
Q Quadratflansch / Square flange (4 Schrauben / 4 bolts)



Typ / Type	L	L1	Typ / Type	L	L1
FFPM(F) 50	137	7	FFPMQ 50	143	7
FFPM(F) 80	140.5	10.5	FFPMQ 80	146.5	10.5
FFPM(F) 100	143	13	FFPMQ 100	149	13
FFPM(F) 125	146	16	FFPMQ 125	152	16
FFPM(F) 160	151	21	FFPMQ 160	157	21
FFPM(F) 200	157	26	FFPMQ 200	163	26
FFPM(F) 250	162	32	FFPMQ 250	168	32
FFPM(F) 315	172	42	FFPMQ 315	178	42
FFPM(F) 400	182	52	FFPMQ 400	188	52

## Abmessungen FFPMW

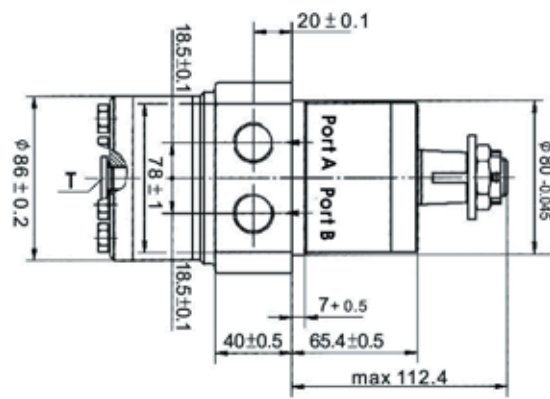
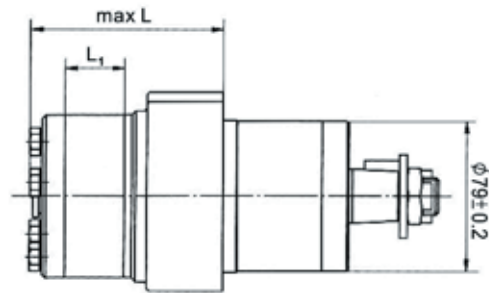
Radmontage /



Typ / Type	L	L1
FFPMW(N) 50	81	7
FFPMW(N) 80	84.5	10.5
FFPMW(N) 100	87	13
FFPMW(N) 125	90	16
FFPMW(N) 160	95	21
FFPMW(N) 200	100	26
FFPMW(N) 250	106	32
FFPMW(N) 315	116	42
FFPMW(N) 400	126	52

Anschluss / Port	Versionen / Versions			
	Leer / Omit	M	U	P
P(A,B)	2 x G 1/2"	2 x M22 x 1,5	7/8-14 O-Ring	2 x 1/2 NPTF
T	G 1/4"	M14	7/16-20UNF	7/16-20UNF

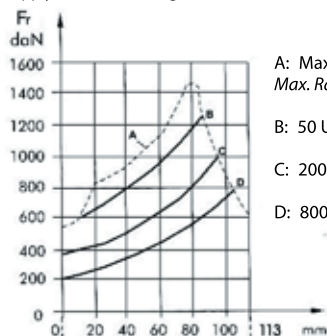
## Dimensions FFPMW



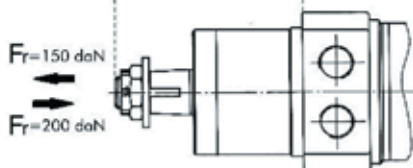
## Radiallast / Shaft Load

### FFPMWN

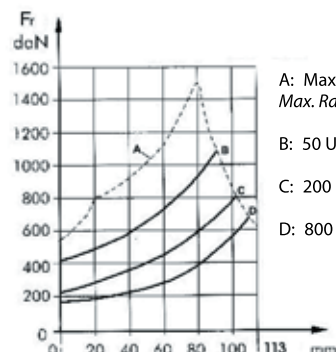
Die Kurven basieren auf einer B10 Lebensdauer von 2000 Stunden  
The curves apply to a B10 bearing life of 2000 hours



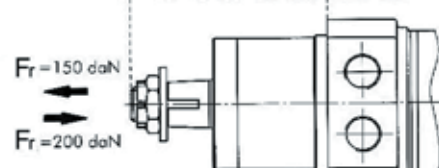
A: Max. Radiallast  
Max. Radial Shaft Load  
B: 50 U/min / RPM  
C: 200 U/min / RPM  
D: 800 U/min / RPM



### FFPMW



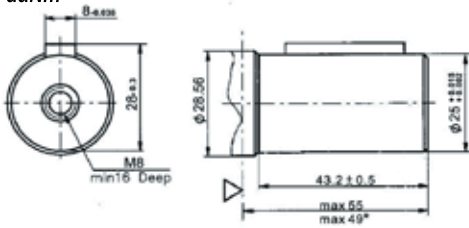
A: Max. Radiallast  
Max. Radial Shaft Load  
B: 50 U/min / RPM  
C: 200 U/min / RPM  
D: 800 U/min / RPM





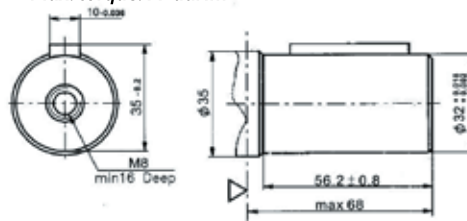
## Abtriebswellen

**C** -  $\emptyset$  25 mm zylindrisch mit Passfeder A8 x 7 x 32. Max. Drehmoment: 34 daNm /  $\emptyset$  25 mm straight, parallel key A8 x 7 x 32. Max. torque: 34 daNm

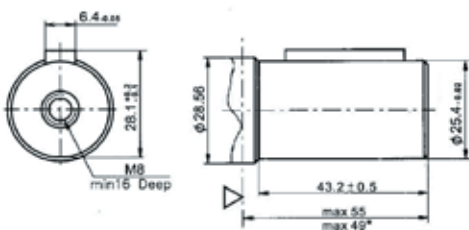


## Output shafts

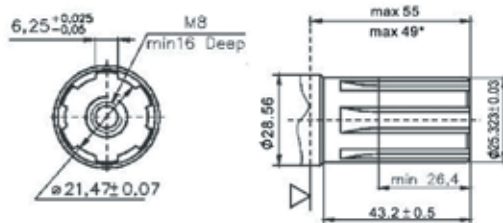
**CB** -  $\emptyset$  32 mm zylindrisch mit Passfeder A10 x 8 x 45. Max. Drehmoment: 77 daNm /  $\emptyset$  32 mm straight, parallel key A10 x 8 x 45. Max. torque: 77 daNm



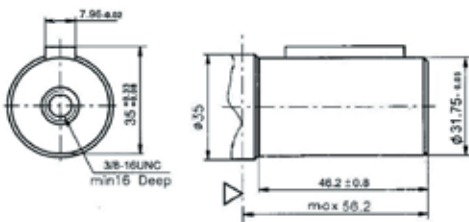
**CO** -  $\emptyset$  25.4 mm (1") zylindrisch mit Passfeder 1/4" x 1/4" x 1/4". Max. Drehmoment: 34 daNm /  $\emptyset$  25.4 mm (1") straight, parallel key 1/4" x 1/4" x 1/4". Max. torque: 34 daNm



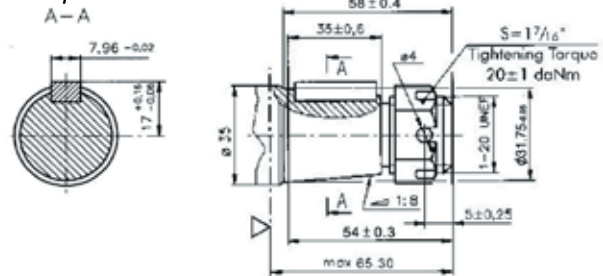
**SH** - verzahnt (SAE 6B). Max. Drehmoment: 40 daNm / *splined*, (SAE 6B), Max. torque: 77 daNm



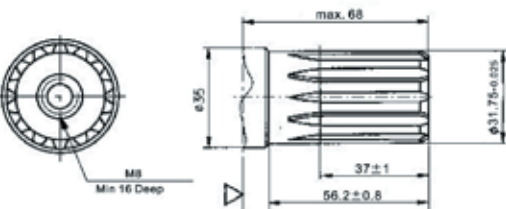
**C1** -  $\emptyset$  1 1/4" zylindrisch mit Passfeder 5/16" x 5/16" x 1/4". Max. Drehmoment: 77 daNm /  $\emptyset$  1 1/4" straight, parallel key 5/16" x 5/16" x 1/4". Max. torque: 77 daNm



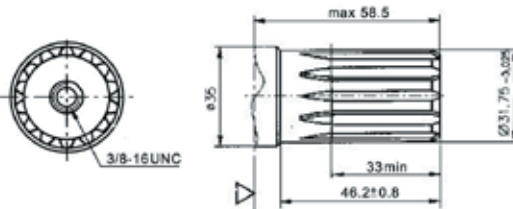
**KA** - kon. 1:8, SAE J 501, mit Passfeder 5/16" x 5/16" x 1/4". Max. Drehmoment: 77 daNm / *conical* 1:8, SAE J 501, parallel key 5/16" x 5/16" x 1/4". Max. torque: 77 daNm



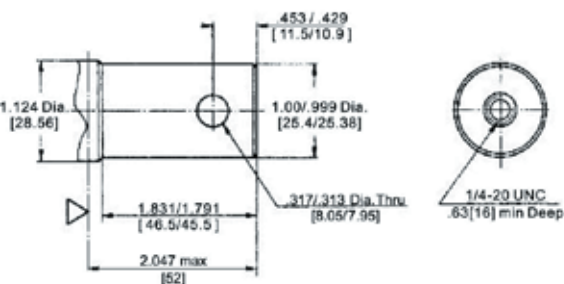
**S** -  $\emptyset$  31.75 (1 1/4") verzahnt, 14 Zähne, DP 12/24. Max. Drehmoment: 77 daNm /  $\emptyset$  31.75 (1 1/4") *splined*, 14T, DP 12/24. Max. torque: 77 daNm



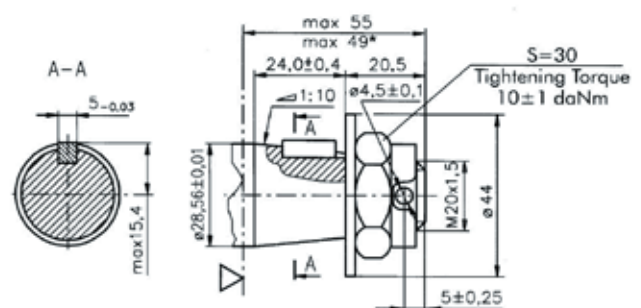
**SB** - verzahnt 14 Zähne, DP 12/24. Max. Drehmoment: 77 daNm / *splined*, 14 T, DP 12/24, Max. torque: 77 daNm

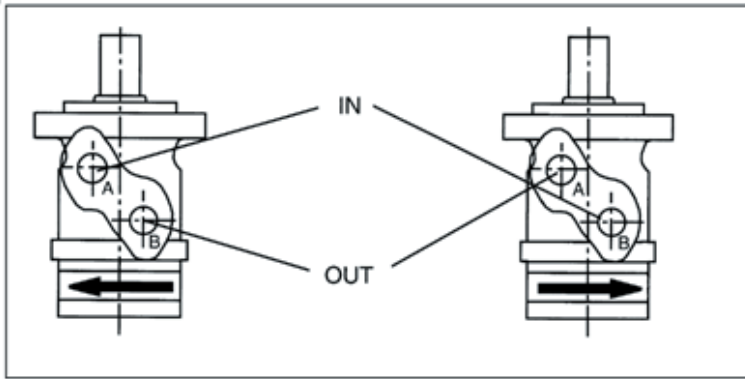


**HA** - cyl.  $\emptyset$  25.4 mm mit Querloch 8 mm / *cyl. 25.4 mm with cross hole 8 mm*



**K** - kon. 1:10 mit Passfeder B5 x 5 x 14. Max. Drehmoment: 40 daNm / *conical* 1:10, parallel key B5 x 5 x 14. Max. torque: 40 daNm





## Drehrichtungsauswahl Rotation selection

Standardeinstellung:  
Drehrichtung rechts, wenn Anschluss A druckbeaufschlagt ist.  
Drehrichtung links, wenn Anschluss B druckbeaufschlagt ist.

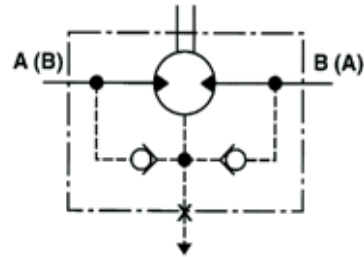
*Standard direction of rotation:  
Clockwise when port „A“ is pressurized.  
Counter-Clockwise when port „B“ is pressurized.*

Max. Rücklaufdruck ohne Leckölleitung bzw. max. Druck in der Leckölleitung / *Max. return pressure without drain line or max. pressure in drain line*

Drehzahl/ RPM	Dauerdruck / cont. Pressure (bar)
0-100	75
100-300	50
300-1000	25

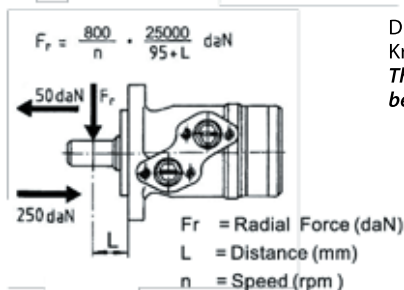
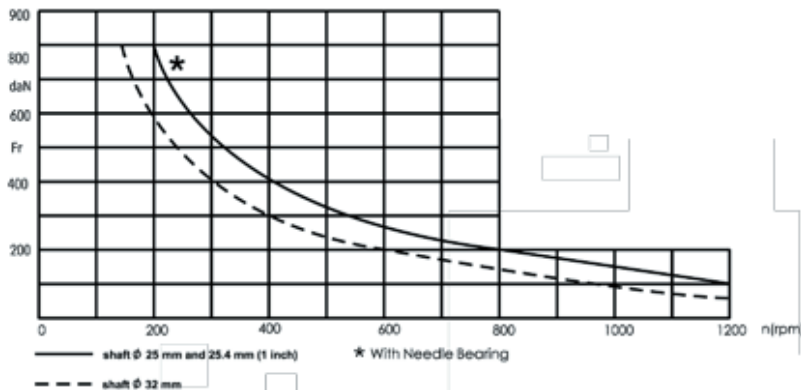
Max. Rücklaufdruck mit Leckölleitung / *Max. return pressure with drain line*

Dauerbetrieb / <i>Continuous</i>	160 bar
Kurzzeitig / <i>Intermittent</i>	175 bar
Spitze / <i>Peak</i>	210 bar



Leckölanschluss / *Drain Line*

## Wellenbelastung Shaft Load



Die zulässige Radiallast berechnet sich aus dem Abstand L zwischen Kraftangriffspunkt und der Montagefläche des Flansches / *The permissible radial shaft load is calculated from the distance L between the point load application and the mounting surface:*

## Bestellinformationen

	1	2	3	4	5	6	7	8	9
<b>FFPM</b>									

### Pos. 1 Montageflansch / Mounting flange

Leer / Omit Ovalflansch 2-loch, SAE A / Oval mount 2-holes SAE A

F Magnetflansch 4-loch / Magneto mount 4 holes

Q Quadratflansch, 4-loch / Square flange 4 holes

W Radflansch / Wheel mount

### Pos. 2 Lageroptionen / Bearing options

Leer / Omit Standard / None

N Nadellager / Needle bearing

### Pos. 3 Anschlüsse / Port type

Leer / Omit Seitl. Anschlüsse / Side ports

E Endanschlüsse (auf Anfrage) / Rear ports (on request)

### Pos. 4 Schluckvolumen / Displacement

50 50 cm<sup>3</sup>/U / 50 ccm/REV

80 80 cm<sup>3</sup>/U / 80 ccm/REV

100 100 cm<sup>3</sup>/U / 100 ccm/REV

125 125 cm<sup>3</sup>/U / 125 ccm/REV

160 160 cm<sup>3</sup>/U / 160 ccm/REV

200 200 cm<sup>3</sup>/U / 200 ccm/REV

250 250 cm<sup>3</sup>/U / 250 ccm/REV

315 315 cm<sup>3</sup>/U / 315 ccm/REV

400 400 cm<sup>3</sup>/U / 400 ccm/REV

### Pos. 5 Wellenausführungen / Shaft extensions

C Ø25 mm zylindrisch mit Passfeder A8 x 7 x 28  
Ø25 mm straight with parallel key A8 x 7 x 28

CO Ø1" (25.4 mm) zylindrisch mit Passfeder 1/4" x 1/4" x 1/4"  
Ø1" (25.4 mm) straight with parallel key 1/4" x 1/4" x 1/4"

HA cyl. Ø25.4 mm mit Querloch 8 mm / cyl. 25.4 mm with cross hole 8 mm

## Order Information

S Ø 31.75 mm (1 1/4") verzahnt, 14 Zähne, DP 12/24 /  
Ø 31.75 mm (1 1/4") splined, 14T, DP 12/24.

SH Ø25.32 mm verzahnt (SAE 6B) / Ø25.32 mm splined (SAE 6B)

KA Konisch 1:8 SAE, J501 mit Passfeder 5/16" x 5/16" x 1 1/4"  
Conical 1:8 SAE, J501 with key 5/16" x 5/16" x 1 1/4"

C1 Ø1 1/4" zylindrisch mit Paßfeder 5/16" x 5/16" x 1 1/4"  
Ø1 1/4" straight with key 5/16" x 5/16" x 1 1/4"

CB Ø32 mm zylindrisch mit Paßfeder A10 x 8 x 45  
Ø32 mm straight with key A10 x 8 x 45

SB Verzahnt 14 Zähne, DP 12/24 / splined, 14 T, DP 12/24

K Konisch 1:10 mit Passfeder B5 x 5 x 14  
Conical 1:10 with key B5 x 5 x 14

### Pos. 6 Wellendichtung / Shaft seal

D Hochdruckwellendichtung bis 150 bar (standard)  
High Pressure Seal up to 150 bar (standard)

U Hochdruckwellendichtung 200 bar  
High Pressure Seal 200 bar

### Pos. 7 Anschlüsse / Porting

Leer / Omit G 1/2" / G 1/2"

M Metrisch / Metric

U 7/8-14 UNF, O-Ring / 7/8-UNF, O-ring

P 1/2-14 NPTF / 1/2-14 NPTF

### Pos. 8 Farbe / Painting

Leer / Omit Grau / Grey

RAL... + Ralfarbe (z.B. 7021) / + Ral colour (e.g. 7021)

### Pos. 9 Drehrichtung / Rotation direction

Leer / Omit Standarddrehrichtung / Standard Rotation

R Umgekehrte Drehrichtung / Reverse Rotation

# FLOWFIT HYDRAULIC MOTOR PRICE LIST – BUILD YOUR OWN

## FFPM HYDRAULIC MOTOR

STANDARD: OPTIONS INCLUDED FFPM	PART NUMBER	PRICE
SIDE PORTS: 2 X G 1/2" (BSP)	FFPM 50	£117.03
SHAFT TYPE "C" Ø 25MM	FFPM 80	£119.79
SHAFT TYPE "CO" Ø 25,4MM	FFPM 100	£122.65
SHAFT TYPE "H", "HA" ODER / OR "HB"	FFPM 125	£125.39
TYPE WITH CROSS HOLE Ø 25,4MM	FFPM 160	£129.68
SPLINED TYPE SAE 6B	FFPM 200	£133.74
	FFPM 250	£138.03
FLANGE SAE "A" 2 BOLTS	FFPM 315	£141.01
	FFPM 400	£145.45
OPTIONAL EXTRAS: SHAFT OPTION EXTRAS FFPM		
SHAFT Ø 32 MM	CB : ADD	£3.20
SPLINED SHAFT 1 1/4" 14T	SB : ADD	£5.33
TAPERED KEY SHAFT 1:10 (B5 X 5 X 14)	T ; ADD	£4.27
TAPERED KEY SHAFT 1:8 (SAE J 501)	TA : ADD	£4.27
SHAFT SEAL FOR DRAIN 150 BAR	D : ADD	£8.54
NEEDLE BEARING	N : ADD	£10.68
FLANGE OPTIONS EXTRAS FFPM		
4 HOLE FLANGE SAE A	F : ADD	£3.20
SQUARE FLANGE	Q : ADD	£4.27
WHEEL FLANGE	W : ADD	£15.37
PROTECTION CAP	P : ADD	£12.82
REAR PORTS	E ; ADD	£5.33
SEAL KIT FFPM		£20.29
NEGATIVE DISK BRAKE FOR FFPM MOTORS : FFLB/ 288-7	14,21,32,43,63	£253.30

# FLOWFIT HYDRAULIC MOTOR PRICE LIST – COMPLETE

PART NUMBER	DESCRIPTION	PRICE
FFPM100CB	HYDRAULIC MOTOR FFPM100CB, 98,6 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£125.83
FFPM100CD	HYDRAULIC MOTOR FFPM100CD, 98,6 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£131.20
FFPM100COD	HYDRAULIC MOTOR FFPM100COD, 98,6 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£131.20
FFPM100SHD	HYDRAULIC MOTOR FFPM100SHD, 98,6 CCM/REV, SPLINED SHAFT SAE 6B, 2-HOLE SAE A, G 1/2 INCH, HPS	£131.20
FFPM125CB	HYDRAULIC MOTOR FFPM125CB, 123,5 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, G 1/2 INCH	£128.59
FFPM125CD	HYDRAULIC MOTOR FFPM125CD, 123,5 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£133.93
FFPM125COD	HYDRAULIC MOTOR FFPM125CD, 123,5 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£133.93
FFPM125SHD	HYDRAULIC MOTOR FFPM125SHD, 123,5 CCM/REV, SPLINED SHAFT SAE 6B, 2-HOLE SAE A, G 1/2 INCH	£133.93
FFPM160CB	HYDRAULIC MOTOR FFPM160CB, 158,6 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£132.89
FFPM160CD	HYDRAULIC MOTOR FFPM160CD, 158,6 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£138.23
FFPM160COD	HYDRAULIC MOTOR FFPM160CD, 158,6 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£138.23
FFPM160SHD	HYDRAULIC MOTOR FFPM160SHD, 158,6 CCM/REV, SPLINED SAE 6B, 2-HOLE SAE A, G 1/2 INCH, G1/2"	£138.23
FFPM200CB	HYDRAULIC MOTOR FFPM200CB, 197,9 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£136.94
FFPM200CD	HYDRAULIC MOTOR FFPM200CD, 197,9 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£143.09
FFPM200COD	HYDRAULIC MOTOR FFPM200COD, 197,9 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£143.09
FFPM200SHD	HYDRAULIC MOTOR FFPM200SHD, 197,9 CCM/REV, SPLINED SHAFT SAE 6B, 2-HOLE SAE A, G 1/2 INCH, HPS	£143.09
FFPM250CB	HYDRAULIC MOTOR FFPM250CB, 247,5 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, G 1/2 INCH, G 1/2"	£141.22
FFPM250CD	HYDRAULIC MOTOR FFPM250CD, 247,5 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£146.57
FFPM250COD	HYDRAULIC MOTOR FFPM250COD, 247,5 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£146.57
FFPM250SHD	HYDRAULIC MOTOR FFPM250SHD, 247,5 CCM/REV, SPLINED SHAFT SAE 6B, 2-HOLE SAE A, G 1/2 INCH	£146.57
FFPM315CB	HYDRAULIC MOTOR FFPM315CB, 316,5 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£144.21
FFPM315CD	HYDRAULIC MOTOR FFPM315CD, 316,5 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£149.56
FFPM315COD	HYDRAULIC MOTOR FFPM315COD, 316,5 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£149.56
FFPM315SHD	HYDRAULIC MOTOR FFPM315SHD, 316,5 CCM/REV, SPLINED SHAFT SAE 6B, 2-HOLE SAE A, G 1/2 INCH, HPS	£149.56
FFPM400CB	HYDRAULIC MOTOR FFPM400CB, 396,5CCM/REV, SHAFT 32MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£148.67
FFPM400CD	HYDRAULIC MOTOR FFPM400CD, 396,5 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£154.01
FFPM400COD	HYDRAULIC MOTOR FFPM400COD, 396,5 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£154.01
FFPM400SHD	HYDRAULIC MOTOR FFPM400SHD, 396,5 CCM/REV, SPLINED SHAFT SAE 6B, 2-HOLE SAE A, G 1/2 INCH, HPS	£154.01
FFPM50CB	HYDRAULIC MOTOR FFPM50CB, 51,2 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, G 1/2 INCH	£120.23
FFPM50CD	HYDRAULIC MOTOR FFPM50CD, 51,2 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£125.58
FFPM50COD	HYDRAULIC MOTOR FFPM50COD, 51,2 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£125.58
FFPM50SHD	HYDRAULIC MOTOR FFPM50SHD, 51,2 CCM/REV, SPLINED SHAFT SAE 6B, 2-HOLE SAE A, G 1/2 INCH, HPS	£125.58
FFPM80CB	HYDRAULIC MOTOR FFPM80CB, 78,8 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, G 1/2 INCH	£122.98

# HYDRAULIC MOTOR PRICE LIST – COMPLETE

PART NUMBER	DESCRIPTION	PRICE
FFPM80CD	HYDRAULIC MOTOR FFPM80CD, 78,8 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£128.33
FFPM80COD	HYDRAULIC MOTOR FFPM80CD, 78,8 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, G 1/2 INCH, HPS	£128.33
FFPM80SHD	HYDRAULIC MOTOR FFPM80SHD, 78,8 CCM/REV, SPLINED SHAFT SAE 6B, 2-HOLE SAE A, G 1/2 INCH, HPS	£128.33
FFPMF100CB	HYDRAULIC MOTOR FFPMF100CB, 396,5CCM/REV, SHAFT 32MM, 4-HOLE SAE A, G 1/2 INCH, HPS	£129.04
FFPMF100CD	HYDRAULIC MOTOR FFPMF100CD, 98,6 CCM/REV, SHAFT 25MM, 4-HOLE SAE A, G 1/2 INCH, HPS	£134.39
FFPMF125CB	HYDRAULIC MOTOR FFPMF125CB, 123,5 CCM/REV, SHAFT 32MM, 4-HOLE SAE, G 1/2 INCH	£131.78
FFPMF160CB	HYDRAULIC MOTOR FFPMF160CB, 158,6 CCM/REV, SHAFT 32MM, 4-HOLE SAE A, G 1/2 INCH, HPS	£136.07
FFPMF200CB	HYDRAULIC MOTOR FFPMF200CB, 197,9 CCM/REV, SHAFT 32MM, 4-HOLE SAE A, G 1/2 INCH, HPS	£140.13
FFPMF250CB	HYDRAULIC MOTOR FFPMF250CB, 247,5 CCM/REV, SHAFT 32MM, 4-HOLE SAE A, G 1/2 INCH, HPS	£144.41
FFPMF315CB	HYDRAULIC MOTOR FFPMF315CB, 316,8CCM/REV, SHAFT 32MM, 4-HOLE SAE A, G 1/2 INCH, HPS	£147.40
FFPMF400CB	HYDRAULIC MOTOR FFPMF400CB, 396,5CCM/REV, SHAFT 32MM, 4-HOLE SAE A, G 1/2 INCH, HPS	£151.86
FFPMF50CB	HYDRAULIC MOTOR FFPMF50CB, 51,2CCM/REV, SHAFT 32MM, 4-HOLE SAE A, G 1/2 INCH, HPS	£123.42
FFPMF80CB	HYDRAULIC MOTOR FFPMF80CB, 78,8CCM/REV, SHAFT 32MM, 4-HOLE SAE A, G 1/2 INCH, HPS	£126.18
FFPMN100CD	HYDRAULIC MOTOR FFPMN100CD, 98,6 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS NEEDLE BEARING	£141.86
FFPMN125CD	HYDRAULIC MOTOR FFPMN125CD, 123,5 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS, NEEDLE BEARING	£144.62
FFPMN160CD	HYDRAULIC MOTOR FFPMN160CD, 158,6 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS, NEEDLE BEARING	£148.91
FFPMN160COD	HYDRAULIC MOTOR FFPMN160CD, 158,6 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, G 1/2 INCH, HPS, NEEDLE BEARING	£148.89
FFPMN200CD	HYDRAULIC MOTOR FFPMN200CD, 197,9 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS, NEEDLE BEARING	£152.97
FFPMN250CD	HYDRAULIC MOTOR FFPMN250CD, 247,5 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS, NEEDLE BEARING	£157.25
FFPMN315CD	HYDRAULIC MOTOR FFPMN315CD, 316,5 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS, NEEDLE BEARING	£165.94
FFPMN400CD	HYDRAULIC MOTOR FFPMN400CD, 396,5 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS NEEDLE BEARING	£164.69
FFPMN50CD	HYDRAULIC MOTOR FFPMN50CD, 51,2 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS, NEEDLE BEARING	£136.25
FFPMN80CD	HYDRAULIC MOTOR FFPMN80CD, 78,8 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, HPS, NEEDLE BEARING	£139.01
FFPMP200CD	HYDRAULIC MOTOR FFPMP200CD, 197,9 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, PROTECTION CAP, HPS	£155.10
FFPMP250CD	HYDRAULIC MOTOR FFPMP250CD, 247,5 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH, PROTECTION CAP, HPS	£159.38
FFPMQ100HD	HYDRAULIC MOTOR FFPMQ100HD, 98,6 CCM/REV, SHAFT 25,4MM CROSS HOLE, 4-HOLE FLANGE, HPS	£135.46
FFPMQ125CD	HYDRAULIC MOTOR FFPMQ125CD, 123,5 CCM/REV, SHAFT 25MM, 4-HOLE SQUARE FLANGE, G 1/2 INCH, HPS	£138.19
FFPMQ125HD	HYDRAULIC MOTOR FFPMQ125HAD, 123,5 CCM/REV, SHAFT 25,4MM CROSS HOLE, 4-HOLE FLANGE, HPS	£138.19
FFPMQ160CD	HYDRAULIC MOTOR FFPMQ160CD, 158,6 CCM/REV, SHAFT 25MM, 4-HOLE SQUARE FLANGE, G 1/2 INCH, HPS	£142.50
FFPMQ50CD	HYDRAULIC MOTOR FFPMQ50CD, 51,2 CCM/REV, SHAFT 25MM, 4-HOLE SQUARE FLANGE, G 1/2 INCH, HPS	£129.84
FFPMQ80CD	HYDRAULIC MOTOR FFPMQ80CD, 78,8 CCM/REV, SHAFT 25MM, 4-HOLE FLANGE, HPS,	£132.61
FFPMQ80COD	HYDRAULIC MOTOR FFPMQ80COD, 78,8 CCM/REV, SHAFT 25,4MM, 4-HOLE FLANGE, HPS,	£132.61
FFPMW160CD	HYDRAULIC MOTOR FFPMW160CD, 158,6 CCM/REV, SHAFT 25MM, WHEELFLANGE, HPS, G 1/2"	£153.60
FFPMW200CD	HYDRAULIC MOTOR FFPMW200CD, 197,9 CCM/REV, SHAFT 25MM, WHEELFLANGE, HPS, G 1/2"	£157.66
FFPMW250CD	HYDRAULIC MOTOR FFPMW250CD, 247,5 CCM/REV, SHAFT 25MM, WHEELFLANGE, HPS, G 1/2"	£161.95
FFPMW315CD	HYDRAULIC MOTOR FFPMW315CD, 316,5 CCM/REV, SHAFT 25MM, WHEELFLANGE, HPS, G 1/2"	£164.94
FFPMW400CD	HYDRAULIC MOTOR FFPMW400CD, 396,5 CCM/REV, SHAFT 25MM, WHEELFLANGE, HPS, G 1/2"	£169.39
FFPMW80CD	HYDRAULIC MOTOR FFPMW80CD, 78,8 CCM/REV, SHAFT 25MM, WHEELFLANGE, HPS, G 1/2"	£143.71

## FFPRM Hydraulik Motor

## FFPRM Hydraulic Motor

- Modell Längsschieberventil mit Geroller
- Geringes Startmoment und hoher Wirkungsgrad
- Ideal für enge Bauräume
- Internes Rückschlagventil
- Verwendung ohne Leckölanschluß möglich
- Hochdruckwellendichtring ist standard



- *Spool valve type with geroller*
- *Low starting torque and high efficiency*
- *Optimized for small spaces*
- *Internal check valve*
- *Usage without drain line possible*
- *High pressure seal is standard*

TYP / Type		FFPRM	FFPRM	FFPRM	FFPRM	FFPRM	FFPRM(1)	FFPRM(2)	FFPRM(1)	FFPRM(2)	FFPRM(1)	FFPRM(2)	FFPRM(1)	FFPRM(2)
		50	80	100	125	160	200	200	250	250	315	315	400	400
Schluckvolumen / Displacement [cm <sup>3</sup> /REV]		51.3	80.6	100.8	124.9	157.2	199.2	199.2	252	252	314.5	314.5	396.5	396.5
Max. Drehzahl / Max. Speed [RPM]	Dauerbetrieb / Cont.	755	750	600	475	375	300	300	240	240	190	190	150	150
	Int.(3)	970	940	750	600	470	375	375	300	300	240	240	190	190
Max. Drehmoment / Max. Torque [daNm]	Dauerbetrieb / Cont.	10	19.6	24.2	27.1	38.9	45	38.5	53.8	38.8	53.1	38.5	58.5	35.5
	Int.(3)	12.6	22.1	28.1	33.9	42.8	50	46	60.8	57.9	63	57	68.7	59.8
	Spitze / Peak (4)	16.8	27	32.1	36.8	45.8	56	56	70.6	65.5	83	83	86.8	71.3
Max. Leistungsabgabe / Max. Output Power [kW]	Dauerbetrieb / Cont.	6.9	12.6	12	12.4	11.4	11	9	10.5	6.4	9	6	7.7	4.7
	Int.(3)	8.3	15	15	14.5	12.6	13	11.5	12	10.5	11	9.6	10.6	8.7
Max. Druckgefälle / Max. Pressure Drop [bar]	Dauerbetrieb / Cont.	140	160	160	160	160	160	135	150	105	135	85	110	65
	Int.(3)	175	180	180	180	180	180	175	175	160	150	130	140	75
	Spitze / Peak (4)	210	210	210	210	210	210	210	210	200	175	175	175	175
Max. Ölstrom / Max. Oil flow [l/min]	Dauerbetrieb / Cont.	40	60	60	60	60	60	60	60	60	60	60	60	60
	Int.(3)	50	75	75	75	75	75	75	75	75	75	75	75	75
Max. Eingangsdruck / Max. Input Pressure [bar]	Dauerbetrieb / Cont.	175	175	175	175	175	175	175	175	175	175	175	175	175
	Int.(3)	200	200	200	200	200	200	200	200	200	200	200	200	200
	Spitze / Peak (4)	225	225	225	225	225	225	225	225	225	225	225	225	225
Gewicht / Weight [kg]		6.7	6.9	6.9	7.2	7.5	8.1	8.1	8.5	9.5	9.1	9.1	9.5	9.5

- (1) FFPRM Motor mit CB, SH, K und SB Wellen  
 (2) FFPRM Motor mit C, CO und S Wellen  
 (3) Intermittierender Betrieb max. 6 Sekunden / Minute  
 (4) Spitzenbetrieb max. 0,6 Sekunden / Minute

- (1) FFPRM Motor with CB, SH, K and SB shafts  
 (2) FFPRM Motor with C, CO and S shafts  
 (3) Intermittend operation rating applies to 6 sec. of every minute  
 (4) Peak load rating applies to 0,6 sec of every minute

## Leistungsdaten

## Performance data

FFPRM 50 (51.7 cm<sup>3</sup>/U)

Druck / pressure (bar)

	Max. cont.								Max. Int.		
	50	70	90	100	120	140	160	175			
5	3.5	4.5	6.1	6.7	7.7	8.8			daNm	RPM	
	<b>93</b>	<b>84</b>	<b>76</b>	<b>73</b>	<b>69</b>	<b>46</b>					
10	3.6	4.6	6.2	6.9	8.0	9.5	10.8	12.0			
	<b>186</b>	<b>178</b>	<b>166</b>	<b>162</b>	<b>153</b>	<b>136</b>	<b>118</b>	<b>97</b>			
15	3.5	4.9	6.3	7.3	8.8	10.0	10.9	12.3			
	<b>283</b>	<b>277</b>	<b>269</b>	<b>261</b>	<b>250</b>	<b>230</b>	<b>211</b>	<b>185</b>			
20	3.5	4.7	6.1	6.9	8.3	9.6	10.9	12.6			
	<b>377</b>	<b>375</b>	<b>365</b>	<b>361</b>	<b>346</b>	<b>330</b>	<b>302</b>	<b>270</b>			
30	3.3	4.4	6.0	6.7	8.0	9.5	10.8	12.6			
	<b>576</b>	<b>569</b>	<b>561</b>	<b>554</b>	<b>542</b>	<b>531</b>	<b>500</b>	<b>465</b>			
40	3.0	4.1	5.8	6.6	7.9	9.2	10.6	12.2			
	<b>760</b>	<b>758</b>	<b>753</b>	<b>750</b>	<b>738</b>	<b>724</b>	<b>700</b>	<b>670</b>			
45	2.9	4.0	5.7	6.5	7.8	9.0	10.5	12.1			
	<b>856</b>	<b>853</b>	<b>849</b>	<b>845</b>	<b>835</b>	<b>815</b>	<b>796</b>	<b>770</b>			
Max. cont. 50	2.6	3.7	5.3	6.0	7.3	8.5	9.9	11.4			
Max. int. 60	2.0	3.3	4.8	5.6	6.9	8.1	9.5	10.9			
	<b>1138</b>	<b>1124</b>	<b>1100</b>	<b>1075</b>	<b>1056</b>	<b>1028</b>	<b>1006</b>	<b>970</b>			

FFPRM 80 (81.5 cm<sup>3</sup>/U)

Druck / pressure (bar)

	Max. cont.								Max. Int.		
	50	70	90	100	120	140	160	175	200		
5	5.0	6.4	8.8	10.8	13.3					daNm	RPM
	<b>59</b>	<b>56</b>	<b>50</b>	<b>44</b>	<b>38</b>						
10	5.4	7.7	9.9	10.8	12.9	15.0	17.3				
	<b>118</b>	<b>113</b>	<b>106</b>	<b>97</b>	<b>86</b>	<b>79</b>	<b>56</b>				
20	5.7	7.8	10.2	11.1	13.4	15.5	17.7	19.6	22.5		
	<b>238</b>	<b>234</b>	<b>227</b>	<b>216</b>	<b>203</b>	<b>190</b>	<b>178</b>	<b>154</b>	<b>135</b>		
30	5.4	7.5	10.0	10.8	13.1	15.2	17.6	19.5	22.3		
	<b>360</b>	<b>352</b>	<b>340</b>	<b>332</b>	<b>316</b>	<b>302</b>	<b>290</b>	<b>274</b>	<b>250</b>		
40	4.8	7.3	9.6	10.5	2.7	14.8	17.2	19.0	22.0		
	<b>480</b>	<b>470</b>	<b>458</b>	<b>445</b>	<b>430</b>	<b>418</b>	<b>403</b>	<b>388</b>	<b>359</b>		
50	4.2	7.0	9.3	10.2	12.4	14.7	17.0	18.8	21.8		
	<b>604</b>	<b>595</b>	<b>582</b>	<b>570</b>	<b>556</b>	<b>540</b>	<b>521</b>	<b>504</b>	<b>487</b>		
60	3.7	6.6	8.9	9.8	12.1	14.4	16.6	18.4	21.3		
	<b>726</b>	<b>715</b>	<b>704</b>	<b>692</b>	<b>678</b>	<b>663</b>	<b>647</b>	<b>622</b>	<b>594</b>		
Max. cont. 70	3.2	6.0	8.3	9.5	11.6	14.0	16.0	17.7	20.8		
Max. int. 75	2.1	5.0	7.8	9.0	11.1	13.5	15.4	17.1	20.0		
	<b>845</b>	<b>834</b>	<b>820</b>	<b>802</b>	<b>789</b>	<b>767</b>	<b>754</b>	<b>730</b>	<b>705</b>		
	<b>910</b>	<b>895</b>	<b>881</b>	<b>867</b>	<b>852</b>	<b>830</b>	<b>806</b>	<b>787</b>	<b>756</b>		

FFPRM 100 (102 cm<sup>3</sup>/U)

Druck / pressure (bar)

	Max. cont.								Max. Int.		
	50	70	90	100	120	140	160	175	200		
5	6.6	9.2	12.0	135.	15.6					daNm	RPM
	<b>45</b>	<b>42</b>	<b>38</b>	<b>34</b>	<b>27</b>						
10	6.8	9.6	12.5	13.8	15.9	18.8	21.2				
	<b>93</b>	<b>90</b>	<b>86</b>	<b>81</b>	<b>74</b>	<b>57</b>	<b>42</b>				
20	6.5	9.4	12.3	13.7	15.5	18.6	21.0	23.8	27.4		
	<b>189</b>	<b>185</b>	<b>180</b>	<b>173</b>	<b>165</b>	<b>158</b>	<b>150</b>	<b>139</b>	<b>118</b>		
30	6.3	9.2	12.0	13.3	15.3	18.5	20.9	23.5	27.0		
	<b>286</b>	<b>281</b>	<b>275</b>	<b>266</b>	<b>257</b>	<b>246</b>	<b>237</b>	<b>225</b>	<b>207</b>		
40	5.7	8.8	11.7	13.0	15.2	18.5	20.8	23.3	26.7		
	<b>385</b>	<b>378</b>	<b>365</b>	<b>355</b>	<b>345</b>	<b>332</b>	<b>320</b>	<b>314</b>	<b>297</b>		
50	4.8	7.9	11.0	12.3	15.0	18.3	20.4	22.8	26.0		
	<b>482</b>	<b>477</b>	<b>470</b>	<b>460</b>	<b>448</b>	<b>435</b>	<b>420</b>	<b>405</b>	<b>389</b>		
60	3.8	7.0	10.5	12.0	14.4	17.8	20.0	22.0	25.2		
	<b>580</b>	<b>572</b>	<b>560</b>	<b>548</b>	<b>535</b>	<b>523</b>	<b>510</b>	<b>500</b>	<b>478</b>		
Max. cont. 70	3.2	6.5	10.0	11.8	14.1	17.6	19.7	21.5	24.6		
Max. int. 75	2.3	5.9	9.3	11.1	13.6	17.0	19.2	21.0	24.0		
	<b>678</b>	<b>670</b>	<b>660</b>	<b>648</b>	<b>638</b>	<b>626</b>	<b>615</b>	<b>606</b>	<b>580</b>		
	<b>728</b>	<b>720</b>	<b>710</b>	<b>695</b>	<b>681</b>	<b>667</b>	<b>650</b>	<b>634</b>	<b>618</b>		

## Leistungsdaten

FFPRM 125 (127.2 cm<sup>3</sup>/U)

Druck / pressure (bar)

Durchflussmenge / Oil flow (l/min)	Druck / pressure (bar)										daNm RPM
	50	70	90	100	120	140	Max. cont. 160	175	200	Max. Int.	
5	7.6 <b>36</b>	11.0 <b>31</b>	14.5 <b>25</b>	16.7 <b>19</b>	18.9 <b>13</b>						
10	8.4 <b>73</b>	11.8 <b>70</b>	15.5 <b>60</b>	17.6 <b>48</b>	20.2 <b>36</b>	22.8 <b>25</b>	25.3 <b>19</b>				
20	8.2 <b>153</b>	11.7 <b>151</b>	15.3 <b>148</b>	17.4 <b>144</b>	20.0 <b>138</b>	23.0 <b>128</b>	25.9 <b>117</b>	29.4 <b>104</b>	33.2 <b>73</b>		
30	7.9 <b>231</b>	11.6 <b>228</b>	15.1 <b>224</b>	17.1 <b>218</b>	19.8 <b>210</b>	22.8 <b>201</b>	25.7 <b>183</b>	29.2 <b>168</b>	32.9 <b>137</b>		
40	7.2 <b>309</b>	11.4 <b>307</b>	14.8 <b>303</b>	16.8 <b>298</b>	19.6 <b>292</b>	22.6 <b>280</b>	25.6 <b>270</b>	29.0 <b>252</b>	32.7 <b>218</b>		
50	6.2 <b>389</b>	10.5 <b>386</b>	14.3 <b>382</b>	16.5 <b>378</b>	19.5 <b>370</b>	22.3 <b>360</b>	25.4 <b>344</b>	28.7 <b>328</b>	32.3 <b>292</b>		
60	5.2 <b>467</b>	9.8 <b>463</b>	13.6 <b>459</b>	16.0 <b>456</b>	19.1 <b>448</b>	22.0 <b>427</b>	25.0 <b>410</b>	28.2 <b>399</b>	31.9 <b>352</b>		
Max. cont. 70	4.1 <b>545</b>	9.0 <b>542</b>	13.0 <b>538</b>	15.6 <b>534</b>	18.7 <b>529</b>	21.5 <b>520</b>	24.2 <b>508</b>	27.8 <b>486</b>	31.3 <b>430</b>		
Max. int. 75	3.2 <b>586</b>	7.9 <b>583</b>	12.6 <b>578</b>	14.8 <b>570</b>	18.0 <b>560</b>	20.8 <b>546</b>	23.4 <b>532</b>	26.2 <b>520</b>	30.0 <b>480</b>		

## Performance data

FFPRM 160 (157.2 cm<sup>3</sup>/U)

Druck / pressure (bar)

Durchflussmenge / Oil flow (l/min)	Druck / pressure (bar)										daNm RPM
	50	70	90	100	120	140	Max. cont. 160	175	200	Max. Int.	
5	10.4 <b>26</b>	14.6 <b>23</b>	19.0 <b>20</b>	21.0 <b>16</b>	24.5 <b>10</b>						
10	10.7 <b>59</b>	15.0 <b>56</b>	19.5 <b>50</b>	21.6 <b>45</b>	25.0 <b>37</b>	29.0 <b>30</b>	33.5 <b>22</b>				
20	10.2 <b>121</b>	15.1 <b>118</b>	19.8 <b>115</b>	22.0 <b>113</b>	25.7 <b>108</b>	29.8 <b>102</b>	34.2 <b>97</b>	37.0 <b>90</b>	42.0 <b>78</b>		
30	9.7 <b>184</b>	14.6 <b>178</b>	19.0 <b>173</b>	21.7 <b>170</b>	25.6 <b>164</b>	29.5 <b>155</b>	34.0 <b>143</b>	36.8 <b>128</b>	41.6 <b>103</b>		
40	9.8 <b>246</b>	14.0 <b>241</b>	18.5 <b>235</b>	21.0 <b>228</b>	25.2 <b>220</b>	29.0 <b>210</b>	33.5 <b>194</b>	36.3 <b>177</b>	41.2 <b>150</b>		
50	7.2 <b>310</b>	12.8 <b>307</b>	17.9 <b>300</b>	20.2 <b>295</b>	24.4 <b>287</b>	28.4 <b>278</b>	32.7 <b>262</b>	35.8 <b>247</b>	40.9 <b>210</b>		
60	6.0 <b>374</b>	11.6 <b>367</b>	17.0 <b>359</b>	19.8 <b>354</b>	24.0 <b>346</b>	27.9 <b>338</b>	32.1 <b>323</b>	35.2 <b>306</b>	40.0 <b>265</b>		
Max. cont. 70	4.9 <b>437</b>	10.7 <b>430</b>	16.4 <b>421</b>	19.3 <b>415</b>	23.3 <b>403</b>	27.1 <b>393</b>	30.9 <b>381</b>	34.4 <b>365</b>	39.0 <b>318</b>		
Max. int. 75	3.6 <b>472</b>	9.8 <b>463</b>	15.2 <b>450</b>	18.5 <b>441</b>	22.6 <b>431</b>	26.5 <b>420</b>	30.0 <b>405</b>	33.4 <b>389</b>	37.9 <b>365</b>		

FFPRM 200 (194.5 cm<sup>3</sup>/U)

Druck / pressure (bar)

Durchflussmenge / Oil flow (l/min)	Druck / pressure (bar)										daNm RPM
	50	70	90	100	120	140	Max. cont. 160	175	200	Max. Int.	
5	13.2 <b>24</b>	18.1 <b>22</b>	23.8 <b>18</b>	26.2 <b>13</b>	31.0 <b>10</b>						
10	13.5 <b>49</b>	18.6 <b>47</b>	24.0 <b>45</b>	26.4 <b>43</b>	31.5 <b>38</b>	35.6 <b>33</b>	40.3 <b>24</b>				
20	13.1 <b>99</b>	18.3 <b>97</b>	23.8 <b>94</b>	26.0 <b>92</b>	31.4 <b>88</b>	35.8 <b>83</b>	40.4 <b>74</b>	43.8 <b>64</b>	49.8 <b>56</b>		
30	12.6 <b>149</b>	17.8 <b>147</b>	23.3 <b>144</b>	25.4 <b>141</b>	31.1 <b>135</b>	35.5 <b>126</b>	40.2 <b>113</b>	43.1 <b>105</b>	48.6 <b>127</b>		
40	11.2 <b>200</b>	16.9 <b>197</b>	22.8 <b>194</b>	25.0 <b>191</b>	30.7 <b>185</b>	35.2 <b>174</b>	40.0 <b>160</b>	42.6 <b>151</b>	47.7 <b>127</b>		
50	9.5 <b>252</b>	15.6 <b>249</b>	22.1 <b>246</b>	24.6 <b>243</b>	30.0 <b>238</b>	35.0 <b>228</b>	39.8 <b>212</b>	42.1 <b>194</b>	47.0 <b>161</b>		
60	7.8 <b>304</b>	14.5 <b>301</b>	21.3 <b>298</b>	23.8 <b>294</b>	28.9 <b>286</b>	34.2 <b>276</b>	38.6 <b>262</b>	41.2 <b>243</b>	45.9 <b>218</b>		
Max. cont. 70	6.7 <b>355</b>	13.5 <b>353</b>	20.6 <b>349</b>	22.8 <b>340</b>	27.7 <b>329</b>	33.6 <b>316</b>	37.5 <b>300</b>	40.8 <b>288</b>	45.3 <b>257</b>		
Max. int. 75	5.8 <b>382</b>	12.5 <b>379</b>	19.7 <b>373</b>	22.0 <b>362</b>	27.0 <b>350</b>	32.1 <b>337</b>	36.0 <b>332</b>	39.8 <b>312</b>	44.2 <b>278</b>		



## Leistungsdaten

## Performance data

FFPRM 250 (253.5 cm<sup>3</sup>/U)

FFPRM 315 (317.5 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.						Max. Int.				
		50	70	90	100	120	140	160	175	200	daNm	
Durchflussmenge / Oil flow (l/min)	5	17.5	24.3	30.4	34.2	40.7					RPM	
		<b>17</b>	<b>16</b>	<b>14</b>	<b>12</b>	<b>10</b>						
	10	17.6	24.6	31.0	34.4	40.9	46.5	52.5				
		<b>37</b>	<b>35</b>	<b>31</b>	<b>28</b>	<b>23</b>	<b>18</b>	<b>11</b>				
	20	17.5	24.4	30.8	34.0	40.8	46.3	52.0	55.8	63.6		
		<b>75</b>	<b>73</b>	<b>72</b>	<b>70</b>	<b>66</b>	<b>58</b>	<b>53</b>	<b>50</b>	<b>42</b>		
	30	16.2	23.5	30.4	33.2	40.0	45.5	51.6	55.0	62.1		
		<b>114</b>	<b>111</b>	<b>108</b>	<b>106</b>	<b>100</b>	<b>92</b>	<b>83</b>	<b>77</b>	<b>65</b>		
	40	14.3	22.3	30.0	32.9	39.6	44.7	51.2	54.6	61.7		
		<b>154</b>	<b>152</b>	<b>150</b>	<b>147</b>	<b>143</b>	<b>132</b>	<b>120</b>	<b>110</b>	<b>90</b>		
	50	12.4	20.8	28.9	32.3	38.4	44.0	50.3	53.5	60.0		
		<b>193</b>	<b>190</b>	<b>187</b>	<b>174</b>	<b>168</b>	<b>160</b>	<b>149</b>	<b>140</b>	<b>116</b>		
	60	10.3	19.2	28.0	31.4	37.1	42.6	48.9	51.4	57.8		
		<b>233</b>	<b>230</b>	<b>227</b>	<b>224</b>	<b>218</b>	<b>205</b>	<b>190</b>	<b>181</b>	<b>155</b>		
Max. cont.	70	8.8	17.8	26.4	30.1	35.6	41.8	47.9	49.8	56.0		
		<b>273</b>	<b>270</b>	<b>267</b>	<b>263</b>	<b>252</b>	<b>242</b>	<b>226</b>	<b>209</b>	<b>173</b>		
Max. int.	75	6.2	16.5	25.6	28.8	34.7	41.2	47.4	48.6	54.2		
		<b>294</b>	<b>291</b>	<b>287</b>	<b>283</b>	<b>274</b>	<b>263</b>	<b>249</b>	<b>236</b>	<b>211</b>		

Druck / pressure (bar)

		Max. cont.						Max. Int.			
		50	70	90	100	120	140	160	175	daNm	
Durchflussmenge / Oil flow (l/min)	5	21.5	30.2							RPM	
		<b>13</b>	<b>11</b>								
	10	21.8	30.5	38.3	42.2	48.8	55.1	62.2			
		<b>28</b>	<b>27</b>	<b>25</b>	<b>24</b>	<b>21</b>	<b>18</b>	<b>13</b>			
	20	21.5	30.3	38.0	41.8	48.5	54.9	62.0	66.0		
		<b>60</b>	<b>59</b>	<b>57</b>	<b>55</b>	<b>52</b>	<b>49</b>	<b>45</b>	<b>42</b>		
	30	20.4	29.6	37.5	41.3	48.0	54.2	61.3	65.4		
		<b>91</b>	<b>89</b>	<b>86</b>	<b>84</b>	<b>81</b>	<b>78</b>	<b>72</b>	<b>67</b>		
	40	19.6	28.7	36.8	41.0	47.7	53.9	60.9	65.0		
		<b>122</b>	<b>120</b>	<b>117</b>	<b>112</b>	<b>106</b>	<b>100</b>	<b>94</b>	<b>85</b>		
	50	17.6	27.0	35.6	39.3	46.1	52.6	59.7	64.5		
		<b>154</b>	<b>151</b>	<b>147</b>	<b>140</b>	<b>131</b>	<b>120</b>	<b>109</b>	<b>100</b>		
	60	16.2	24.6	33.9	37.4	44.6	51.1	58.6	62.8		
		<b>185</b>	<b>182</b>	<b>177</b>	<b>172</b>	<b>163</b>	<b>152</b>	<b>140</b>	<b>134</b>		
Max. cont.	70	14.3	23.5	32.4	35.8	43.0	49.3	56.2	61.4		
		<b>217</b>	<b>213</b>	<b>208</b>	<b>201</b>	<b>190</b>	<b>178</b>	<b>166</b>	<b>158</b>		
Max. int.	75	12.5	21.2	30.3	33.9	41.7	48.1	54.3	58.2		
		<b>232</b>	<b>228</b>	<b>222</b>	<b>216</b>	<b>208</b>	<b>200</b>	<b>183</b>	<b>171</b>		

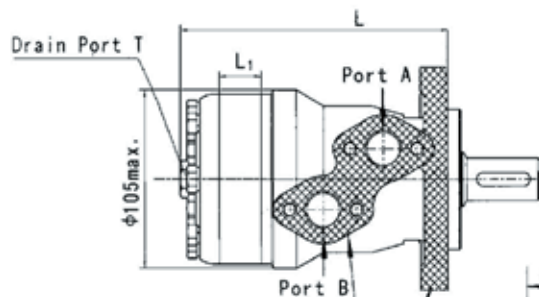
FFPRM 400 (381.4 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.						Max. Int.			
		30	45	55	65	80	100	125	140	daNm	
Durchflussmenge / Oil flow (l/min)	5	15.3	23.2							RPM	
		<b>12</b>	<b>10</b>								
	10	15.7	23.6	28.4	33.7	40.6	49.7	61.2	66.8		
		<b>24</b>	<b>23</b>	<b>22</b>	<b>21</b>	<b>19</b>	<b>17</b>	<b>15</b>	<b>12</b>		
	20	15.0	23.2	28.0	33.2	40.1	49.0	60.6	66.0		
		<b>49</b>	<b>48</b>	<b>47</b>	<b>46</b>	<b>44</b>	<b>41</b>	<b>38</b>	<b>32</b>		
	30	14.2	21.5	27.4	32.7	39.8	48.3	60.3	65.2		
		<b>76</b>	<b>75</b>	<b>74</b>	<b>73</b>	<b>71</b>	<b>67</b>	<b>63</b>	<b>50</b>		
	40	12.6	21.2	26.8	32.0	39.3	47.7	59.3	63.5		
		<b>103</b>	<b>101</b>	<b>99</b>	<b>97</b>	<b>95</b>	<b>92</b>	<b>8870</b>			
	50	10.5	18.7	24.2	30.2	37.6	45.5	58.3	60.8		
		<b>128</b>	<b>126</b>	<b>124</b>	<b>121</b>	<b>118</b>	<b>115</b>	<b>111</b>	<b>96</b>		
	60	9.0	16.7	22.9	28.1	36.2	44.4	56.6	60.0		
		<b>154</b>	<b>152</b>	<b>150</b>	<b>148</b>	<b>145</b>	<b>138</b>	<b>130</b>	<b>121</b>		
Max. cont.	70	9.0	14.9	20.0	25.8	34.1	42.5	54.6	58.0		
		<b>180</b>	<b>179</b>	<b>178</b>	<b>176</b>	<b>173</b>	<b>168</b>	<b>160</b>	<b>148</b>		
Max. int.	75	5.6	12.5	18.2	24.1	32.0	40.8	52.4	56.5		
		<b>195</b>	<b>194</b>	<b>193</b>	<b>191</b>	<b>189</b>	<b>185</b>	<b>178</b>	<b>170</b>		

## Abmessungen

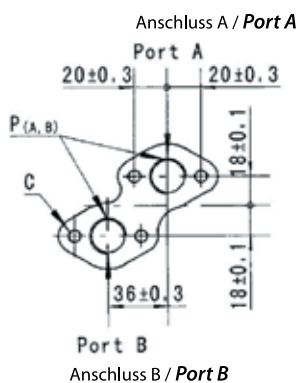
## Dimensions



### Anschlüsse / Porting

Seitenanschluss / Side Ports

Version G M U P

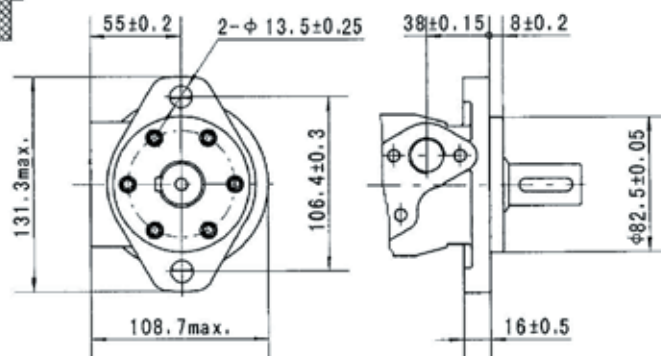


E Endanschluss auf Anfrage / Rear ports on request

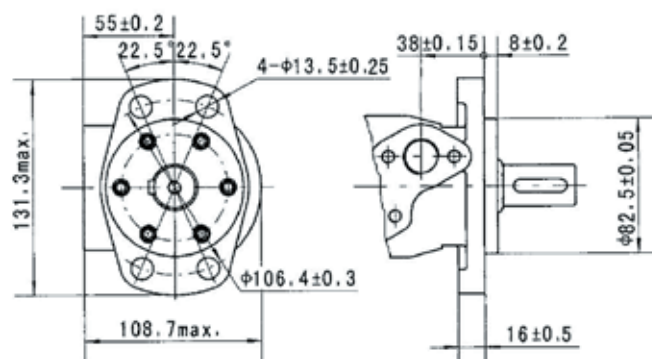
Anschluss / Port	Versionen / Versions			
	Leer / Omit	M	U	P
P(A,B)	2 x G 1/2"	2 x M22 x 1,5	7/8-14 O-Ring	1/2-14 NPTF
T	G 1/4"	M14 x 1,5	7/16-20 UNF	7/16-20 UNF
C	4 x M8	4 x M8	5/16-18 UNC	5/16-18 UNC

### Anbaumaße / Mounting

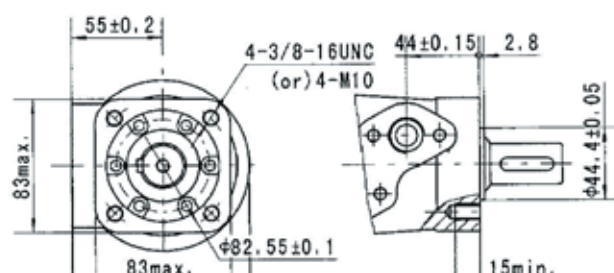
Ovalflansch / Oval Mount SAE A (2-Loch) / 2 holes



F Magneto Flansch / Magneto Mount (4-Loch / 4 holes)



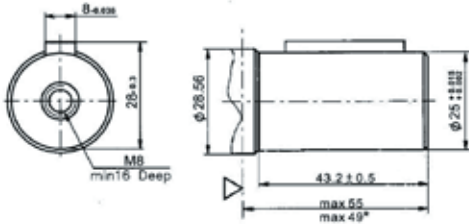
Q Quadratflansch / Square flange (4 Schrauben / 4 bolts)



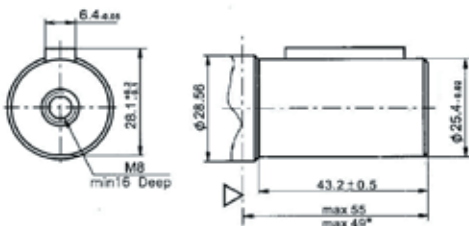
Typ / Type	L	L <sub>1</sub>	Typ / Type	L	L <sub>1</sub>
FFPRM(F) 50	140	10	FFPRMQ 50	146	10
FFPRM(F) 80	146	16	FFPRMQ 80	152	16
FFPRM(F) 100	150	20	FFPRMQ 100	156	20
FFPRM(F) 125	155	25	FFPRMQ 125	161	25
FFPRM(F) 160	161.5	30.5	FFPRMQ 160	167.5	30.5
FFPRM(F) 200	170	38.1	FFPRMQ 200	176	38.1
FFPRM(F) 250	180	50	FFPRMQ 250	186	50
FFPRM(F) 315	192	62	FFPRMQ 315	198	62
FFPRM(F) 400	204	74	FFPRMQ 400	188	74

## Abtriebswellen

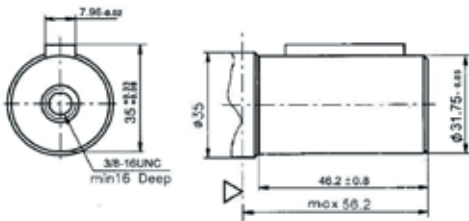
**C** -  $\emptyset$  25 mm zylindrisch mit Passfeder A8 x 7 x 32. Max. Drehmoment: 34 daNm /  $\emptyset$  25 mm straight, parallel key A8 x 7 x 32. Max. torque: 34 daNm



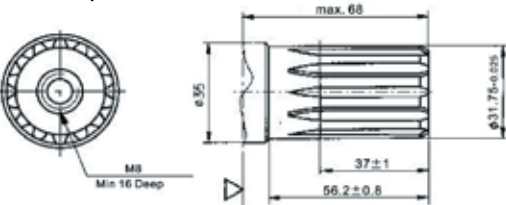
**CO** -  $\emptyset$  25.4 mm (1") zylindrisch mit Passfeder 1/4" x 1/4" x 1 1/4". Max. Drehmoment: 34 daNm /  $\emptyset$  25.4mm (1") straight, parallel key 1/4" x 1/4" x 1 1/4". Max. torque: 34 daNm



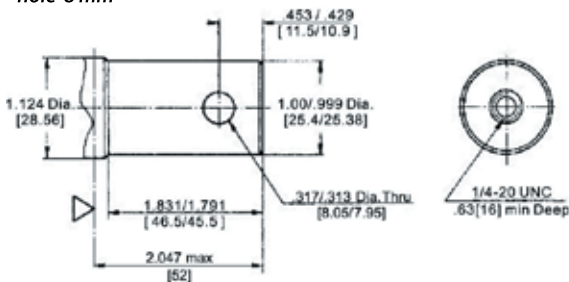
**C1** -  $\emptyset$  1 1/4" zylindrisch mit Passfeder 5/16" x 5/16" x 1 1/4". Max. Drehmoment: 77 daNm /  $\emptyset$  1 1/4" straight, parallel key 5/16" x 5/16" x 1 1/4". Max. torque: 77 daNm



**S** -  $\emptyset$  31.75 mm (1 1/4") verzahnt, 14 Zähne, DP 12/24. Max. Drehmoment: 77 daNm /  $\emptyset$  31.75 mm (1 1/4") splined, 14T, DP 12/24. Max. torque: 77 daNm

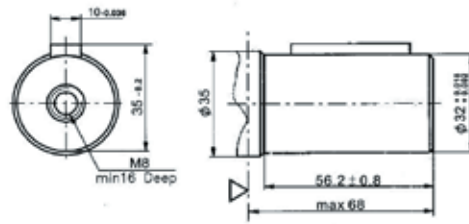


**HA** - cyl.  $\emptyset$ 25.4 mm mit Querloch 8 mm / cyl. 25.4 mm with cross hole 8 mm

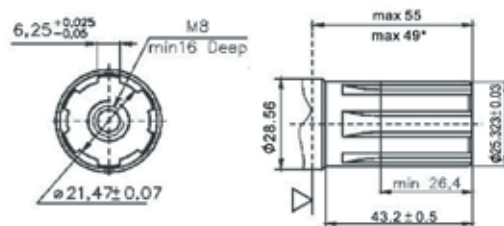


## Output shafts

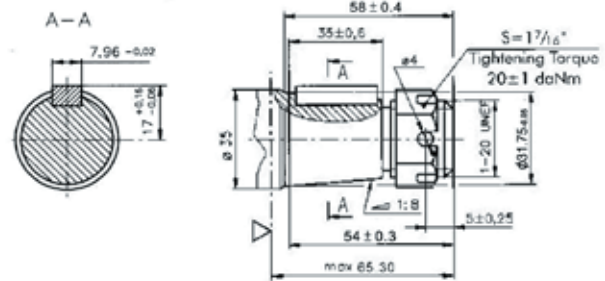
**CB** -  $\emptyset$  32 mm zylindrisch mit Passfeder A10 x 8 x 45. Max. Drehmoment: 77 daNm /  $\emptyset$  32 mm straight, parallel key A10 x 8 x 45. Max. torque: 77 daNm



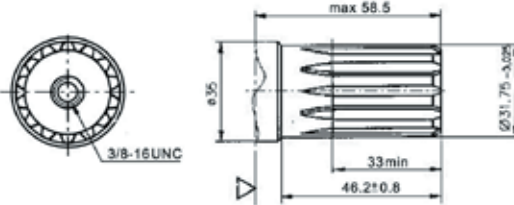
**SH** - verzahnt (SAE 6B). Max. Drehmoment: 40 daNm / splined, (SAE 6B), Max. torque: 77 daNm



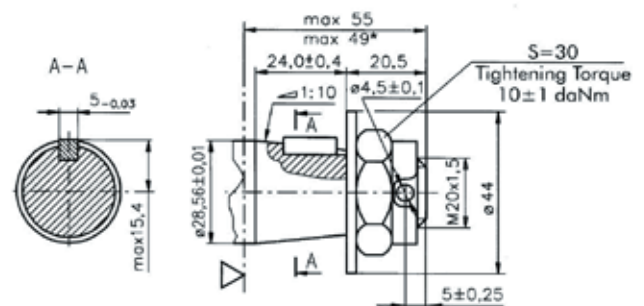
**KA** - kon. 1:8, SAE J 501, mit Passfeder 5/16" x 5/16" x 1 1/4". Max. Drehmoment: 77 daNm / conical 1:8, SAE J 501, parallel key 5/16" x 5/16" x 1 1/4". Max. torque: 77 daNm



**SB** - verzahnt 14 Zähne, DP 12/24. Max. Drehmoment: 77 daNm / splined, 14 T, DP 12/24. Max. torque: 77 daNm

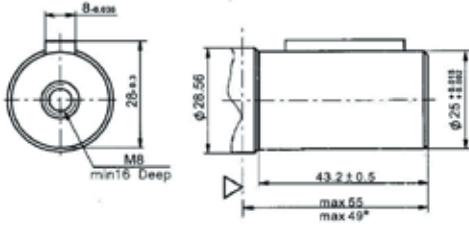


**K** - kon. 1:10 mit Passfeder B5 x 5 x 14. Max. Drehmoment: 40 daNm / conical 1:10, parallel key B5 x 5 x 14. Max. torque: 40 daNm

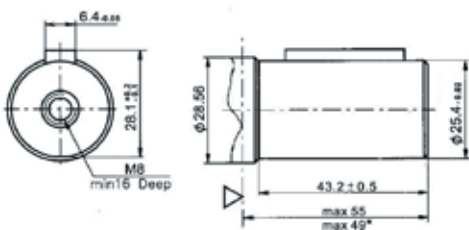


## Abtriebswellen

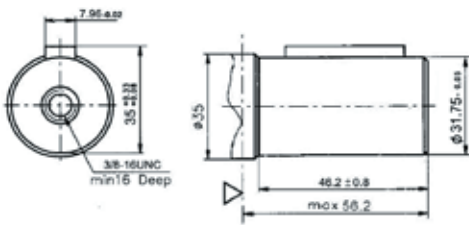
**C** -  $\emptyset$  25 mm zylindrisch mit Passfeder A8 x 7 x 32. Max. Drehmoment: 34 daNm /  $\emptyset$  25 mm straight, parallel key A8 x 7 x 32. Max. torque: 34 daNm



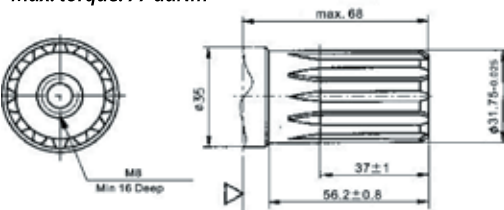
**CO** -  $\emptyset$  25.4 mm (1") zylindrisch mit Passfeder 1/4" x 1/4" x 1 1/4". Max. Drehmoment: 34 daNm /  $\emptyset$  25.4mm (1") straight, parallel key 1/4" x 1/4" x 1 1/4". Max. torque: 34 daNm



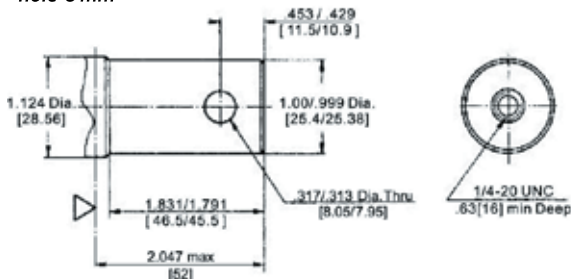
**C1** -  $\emptyset$  1 1/4" zylindrisch mit Passfeder 5/16" x 5/16" x 1 1/4". Max. Drehmoment: 77 daNm /  $\emptyset$  1 1/4" straight, parallel key 5/16" x 5/16" x 1 1/4". Max. torque: 77 daNm



**S** -  $\emptyset$  31.75 mm (1 1/4") verzahnt, 14 Zähne, DP 12/24. Max. Drehmoment: 77 daNm /  $\emptyset$  31.75 mm (1 1/4") splined, 14T, DP 12/24. Max. torque: 77 daNm

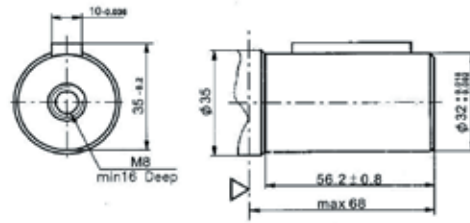


**HA** - cyl.  $\emptyset$  25.4 mm mit Querloch 8 mm / cyl. 25.4 mm with cross hole 8 mm

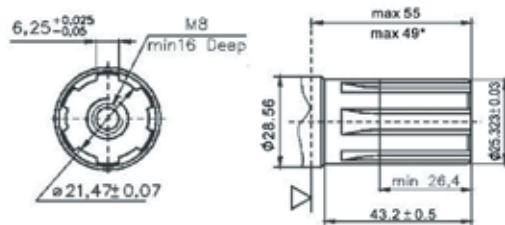


## Output shafts

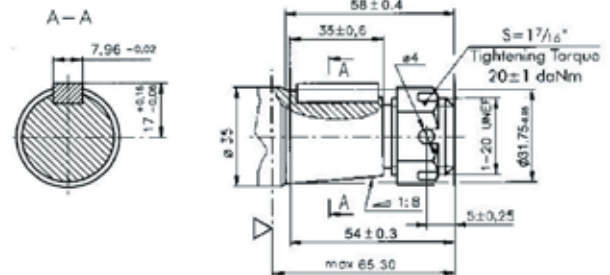
**CB** -  $\emptyset$  32 mm zylindrisch mit Passfeder A10 x 8 x 45. Max. Drehmoment: 77 daNm /  $\emptyset$  32 mm straight, parallel key A10 x 8 x 45. Max. torque: 77 daNm



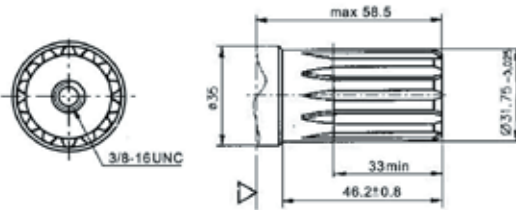
**SH** - verzahnt (SAE 6B). Max. Drehmoment: 40 daNm / splined, (SAE 6B). Max. torque: 77 daNm



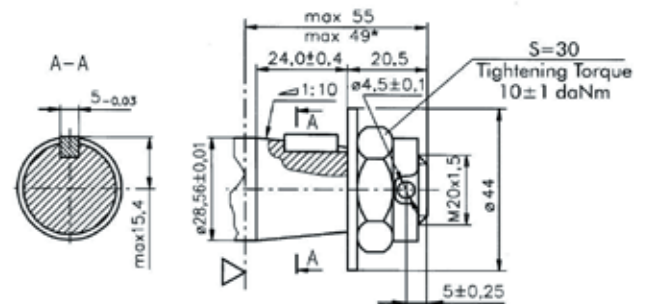
**KA** - kon. 1:8, SAE J 501, mit Passfeder 5/16" x 5/16" x 1 1/4". Max. Drehmoment: 77 daNm / conical 1:8, SAE J 501, parallel key 5/16" x 5/16" x 1 1/4". Max. torque: 77 daNm

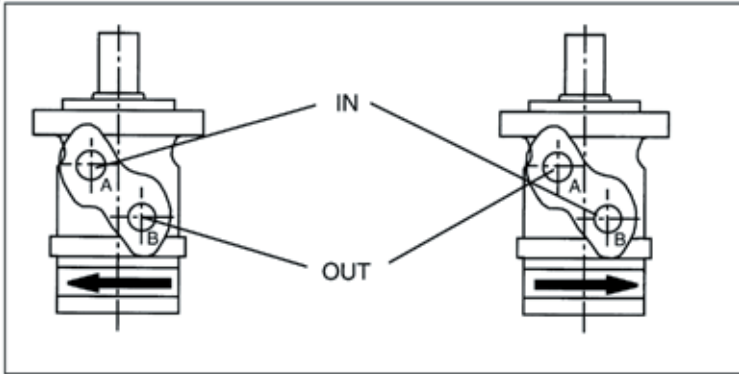


**SB** - verzahnt 14 Zähne, DP 12/24. Max. Drehmoment: 77 daNm / splined, 14T, DP 12/24. Max. torque: 77 daNm



**K** - kon. 1:10 mit Passfeder B5 x 5 x 14. Max. Drehmoment: 40 daNm / conical 1:10, parallel key B5 x 5 x 14. Max. torque: 40 daNm





## Drehrichtungsauswahl Rotation selection

Standardeinstellung:  
Drehrichtung rechts, wenn Anschluss A druckbeaufschlagt ist.  
Drehrichtung links, wenn Anschluss B druckbeaufschlagt ist.

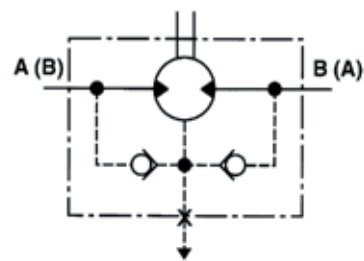
*Standard direction of rotation:  
Clockwise when port „A“ is pressurized.  
Counter-Clockwise when port „B“ is pressurized.*

Max. Rücklaufdruck ohne Leckölleitung bzw. max. Druck in der Leckölleitung / *Max. return pressure without drain line or max. pressure in drain line*

Drehzahl/ RPM	Dauerdruck / cont. Pressure (bar)
0-100	75
100-300	50
300-1000	25

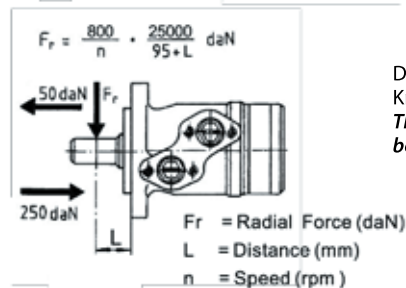
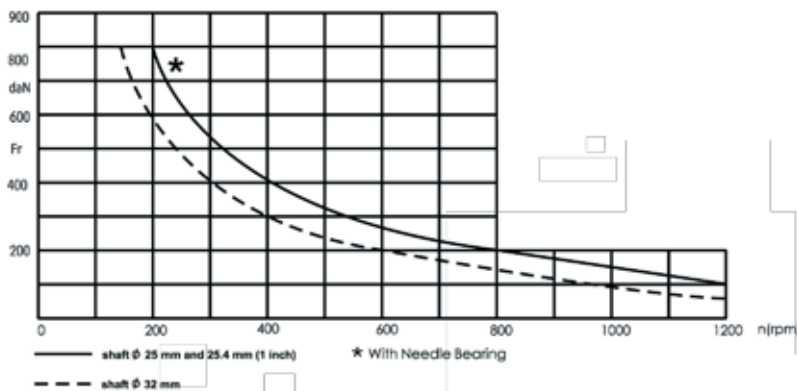
Max. Rücklaufdruck mit Leckölleitung / *Max. return pressure with drain line*

Dauerbetrieb / Continuous	160 bar
Kurzzeitig / Intermittent	175 bar
Spitze / Peak	210 bar



Leckölanschluss / Drain Line

## Wellenbelastung Shaft Load



Die zulässige Radiallast berechnet sich aus dem Abstand L zwischen Kraftangriffspunkt und der Montagefläche des Flansches / *The permissible radial shaft load is calculated from the distance L between the point load application and the mounting surface:*

## Bestellinformationen

	1	2	3	4	5	6	7	8	9
<b>FFPRM</b>									

### Pos. 1 Montageflansch / Mounting flange

Leer / Omit	Ovalflansch 2-loch, SAE A / Oval mount 2-holes SAE A
<b>F</b>	Magnetoflansch 4-loch / Magneto mount 4 holes
<b>Q</b>	Quadratflansch, 4-loch / Square flange 4 holes
<b>W</b>	Radflansch (auf Anfrage) / Wheel mount (on request)

### Pos. 2 Lageroptionen / Bearing options

Leer / Omit	Standard / None
<b>N</b>	Nadellager / Needle bearing

### Pos. 3 Anschlüsse / Port type

Leer / Omit	Seitl. Anschlüsse / Side ports
<b>E</b>	Endanschlüsse (auf Anfrage) / Rear ports (on requests)

### Pos. 4 Schluckvolumen / Displacement

<b>50</b>	50 cm <sup>3</sup> /U / 50 ccm/REV
<b>80</b>	80 cm <sup>3</sup> /U / 80 ccm/REV
<b>100</b>	100 cm <sup>3</sup> /U / 100 ccm/REV
<b>125</b>	125 cm <sup>3</sup> /U / 125 ccm/REV
<b>160</b>	160 cm <sup>3</sup> /U / 160 ccm/REV
<b>200</b>	200 cm <sup>3</sup> /U / 200 ccm/REV
<b>250</b>	250 cm <sup>3</sup> /U / 250 ccm/REV
<b>315</b>	315 cm <sup>3</sup> /U / 315 ccm/REV
<b>400</b>	400 cm <sup>3</sup> /U / 400 ccm/REV

### Pos. 5 Wellenausführungen / Shaft extensions

<b>C</b>	Ø25 mm zylindrisch mit Passfeder A8 x 7 x 28 Ø25 mm straight with parallel key A8 x 7 x 28
<b>CO</b>	Ø1" (25.4mm) zylindrisch mit Passfeder 1/4" x 1/4" x 1/4" Ø1" (25.4mm) straight with parallel key 1/4" x 1/4" x 1/4"
<b>HA</b>	cyl. Ø25.4 mm mit Querloch 8 mm / cyl. 25,4 mm with cross hole 8 mm

## Order Information

<b>S</b>	Ø 31.75 mm (1 1/4") verzahnt, 14 Zähne, DP 12/24 / Ø 31,75 mm (1 1/4") splined, 14T, DP 12/24.
<b>SH</b>	Ø25,32 mm verzahnt (SAE 6B) / Ø25,32 mm splined (SAE 6B)
<b>KA</b>	Konisch 1:8 SAE, J501 mit Passfeder 5/16" x 5/16" x 1 1/4" Conical 1:8 SAE, J501 with key 5/16" x 5/16" x 1 1/4"
<b>C1</b>	Ø1 1/4" zylindrisch mit Passfeder 5/16" x 5/16" x 1 1/4" Ø1 1/4" straight with key 5/16" x 5/16" x 1 1/4"
<b>CB</b>	Ø32 mm zylindrisch mit Passfeder A10 x 8 x 45 Ø32 mm straight with key A10 x 8 x 45
<b>SB</b>	verzahnt 14 Zähne, DP 12/24 / splined, 14 T, DP 12/24
<b>K</b>	Konisch 1:10 mit Passfeder B5 x 5 x 14 Conical 1:10 with key B5 x 5 x 14

### Pos. 6 Wellendichtung / Shaft seal

<b>D</b>	Hochdruckwellendichtung bis 150 bar (standard) High Pressure Seal up to 150 bar (standard)
<b>U</b>	Hochdruckwellendichtung 200 bar High Pressure Seal 200 bar

### Pos. 7 Anschlüsse / Porting

Leer / Omit	G 1/2" / G 1/2"
<b>M</b>	Metrisch / Metric
<b>U</b>	7/8-14 UNF, O-Ring / 7/8-UNF, O-ring
<b>P</b>	1/2-14 NPTF / 1/2-14 NPTF

### Pos. 8 Farbe / Painting

Leer / Omit	Grau / Grey
<b>RAL...</b>	+ Ralfarbe (z.B. 7021) / + Ral colour (e.g. 7021)

### Pos. 9 Drehrichtung / Rotation direction

Leer / Omit	Standarddrehrichtung / Standard Rotation
<b>R</b>	Umgekehrte Drehrichtung / Reverse Rotation

# HYDRAULIC MOTOR PRICELIST - BUILD YOUR OWN

## FFPRM HYDRAULIC MOTOR

STANDARD: OPTIONS INCLUDED FFPRM	PART NUMBER	PRICE
SIDE PORTS: 2 X G 1/2" (BSP)	FFPRM 50	£147.65
SHAFT TYPE "C" Ø 25MM	FFPRM 80	£153.23
SHAFT TYPE "CO" Ø 25,4MM	FFPRM 100	£155.90
SHAFT TYPE "H", "HA" ODER / OR "HB"	FFPRM 125	£158.96
TYPE WITH CROSS HOLE Ø 25,4MM	FFPRM 160	£163.48
SHAFT TYPE "SH" SPLINED SAE 6B	FFPRM 200	£169.59
	FFPRM 250	£175.45
FLANGE SAE "A" 2 BOLTS	FFPRM 315	£178.40
	FFPRM 400	£186.42
<b>OPTIONAL EXTRAS FFPRM: SHAFT OPTION EXTRAS FFPRM</b>		
SHAFT Ø 32 MM	CB : ADD	£3.20
SPLINED SHAFT 1 1/4" 14T	SB : ADD	£5.33
1:10 / TAPERED KEY SHAFT 1:10 (B5 X 5 X 14)	T : ADD	£4.27
TAPERED KEY SHAFT 1:8 (SAE J 501)	TA : ADD	£4.27
SHAFT SEAL FOR DRAIN 150 BAR	D ; ADD	£8.54
NEEDLE BEARING	N : ADD	£10.68
<b>FLANGE OPTION EXTRAS FFPRM</b>		
4 HOLE FLANGE SAE A	F : ADD	£3.20
SQUARE FLANGE	Q: ADD	£4.27
PROTECTION CAP	P: ADD	£12.80
REAR PORTS	E: ADD	£5.33
SEAL KIT FFPRM D	SEAL KIT FFPRM	£20.29
NEGATIVE DISK BRAKE FOR FF/FFPRM MOTORS	FFLB / 288 -7	£253.30
	14, 21, 32, 43, 63	

# HYDRAULIC MOTOR PRICELIST - COMPLETE

PART NUMBER	DESCRIPTION	PRICE
FFPRM100CB	HYDRAULIC MOTOR FFPRM100CB, 100,8 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£159.12
FFPRM100CD	HYDRAULIC MOTOR FFPRM100CD, 100,8 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£164.61
FFPRM100COD	HYDRAULIC MOTOR FFPRM100COD, 99,0 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, HPS	£164.61
FFPRM100SHD	HYDRAULIC MOTOR FFPRM100SHD, 100,8 CCM/REV, SPLINED SHAFT SAE6B, 2-HOLE SAE A, HPS, G 1/2 INCH	£164.61
FFPRM125CB	HYDRAULIC MOTOR FFPRM125CB, 125,1 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£162.16
FFPRM125CD	HYDRAULIC MOTOR FFPRM125CD, 125,1 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£167.51
FFPRM125COD	HYDRAULIC MOTOR FFPRM125COD, 125,1 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£167.51
FFPRM125SHD	HYDRAULIC MOTOR FFPRM125SHD, 125,1 CCM/REV, SPLINED SHAFT SAE6B, 2-HOLE SAE A, HPS, G 1/2 INCH	£167.51
FFPRM160CB	HYDRAULIC MOTOR FFPRM160CB, 159,4 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£166.69
FFPRM160CD	HYDRAULIC MOTOR FFPRM160CD, 159,4 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£172.03
FFPRM160COD	HYDRAULIC MOTOR FFPRM160COD, 159,4 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£172.03
FFPRM160SHD	HYDRAULIC MOTOR FFPRM160SHD, 159,4 CCM/REV, SPLINED SHAFT SAE 6B, 2-HOLE SAE A, HPS, G 1/2 INCH	£172.03
FFPRM200C/C	HYDRAULIC MOTOR FFPRM200C/C, 199,6 CCM/REV, DOUBLE SHAFTS 25MM, 2-HOLE SAE A, G 1/2 INCH	£244.21
FFPRM200CB	HYDRAULIC MOTOR FFPRM200CB, 199,6 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£172.80
FFPRM200CD	HYDRAULIC MOTOR FFPRM200CD, 199,6 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS	£178.14
FFPRM200COD	HYDRAULIC MOTOR FFPRM200COD, 199,6 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, HPS	£178.14
FFPRM200SHD	HYDRAULIC MOTOR FFPRM200SHD, 197,9 CCM/REV, SPLINED SHAFT SAE 6B, 2-HOLE SAE A, HPS, G 1/2 INCH	£178.14
FFPRM250CB	HYDRAULIC MOTOR FFPRM250CB, 249,8 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, G 1/2 INCH	£175.45
FFPRM250CD	HYDRAULIC MOTOR FFPRM250CD, 249,8 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£183.98
FFPRM250COD	HYDRAULIC MOTOR FFPRM250COD, 251,1 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, HPS	£183.98
FFPRM250SHD	HYDRAULIC MOTOR FFPRM250SHD, 249,8 CCM/REV, SPLINED SHAFT SAE 6B, 2-HOLE SAE A, HPS, G 1/2 INCH	£183.98
FFPRM315CB	HYDRAULIC MOTOR FFPRM315CB, 315,7 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£181.59
FFPRM315CD	HYDRAULIC MOTOR FFPRM315CD, 315,7 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£186.93
FFPRM315COD	HYDRAULIC MOTOR FFPRM315COD, 315,7 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£186.93
FFPRM315SHD	HYDRAULIC MOTOR FFPRM315SHD, 315,7 CCM/REV, SPLINED SHAFT SAE 6B, 2-HOLE SAE A, HPS, G 1/2 INCH	£186.93
FFPRM400CB	HYDRAULIC MOTOR FFPRM400CB, 396,5 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£189.61
FFPRM400CD	HYDRAULIC MOTOR FFPRM400CD, 396,5 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£194.97
FFPRM400COD	HYDRAULIC MOTOR FFPRM400COD, 396,5 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£194.97
FFPRM400SHD	HYDRAULIC MOTOR FFPRM400SHD, 396,5 CCM/REV, SPLINED SHAFT SAE 6B, 2-HOLE SAE A, HPS, G 1/2 INCH	£194.97
FFPRM50CB	HYDRAULIC MOTOR FFPRM50CB, 51,2 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, G 1/2 INCH	£150.83
FFPRM50CD	HYDRAULIC MOTOR FFPRM50CD, 51,2 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£150.83
FFPRM50COD	HYDRAULIC MOTOR FFPRM50COD, 51,2 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£150.83
FFPRM50SHD	HYDRAULIC MOTOR FFPRM50SHD, 51,2 CCM/REV, SPLINED SHAFT SAE6B, 2-HOLE SAE A, HPS, G 1/2 INCH	£150.83
FFPRM80CB	HYDRAULIC MOTOR FFPRM80CB, 80,5 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£156.42

# FLOWFIT HYDRAULIC MOTOR PRICELIST - COMPLETE

PART NUMBER	DESCRIPTION	PRICE
FFPRM80CD	HYDRAULIC MOTOR FFPRM80CD, 80,5 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, G 1/2 INCH	£161.77
FFPRM80COD	HYDRAULIC MOTOR FFPRM80COD, 80,5 CCM/REV, SHAFT 25,4MM (1 INCH), 2-HOLE SAE A, G 1/2 INCH	£161.77
FFPRM80SHD	HYDRAULIC MOTOR FFPRM80SHD, 80,5 CCM/REV, SPLINED SHAFT SAE6B, 2-HOLE SAE A, HPS, G 1/2 INCH	£161.77
FFPRMF100CB	HYDRAULIC MOTOR FFPRMF100CB, 100,8 CCM/REV, SHAFT 32MM, 4-HOLE SAE A, HPS, G 1/2 INCH	£162.31
FFPRMF125CB	HYDRAULIC MOTOR FFPRMF125CB, 125,1 CCM/REV, SHAFT 32MM, 4-HOLE SAE A, HPS, G 1/2 INCH	£165.31
FFPRMF160CB	HYDRAULIC MOTOR FFPRMF160CB, 159,4 CCM/REV, SHAFT 32MM, 4-HOLE SAE A, HPS, G 1/2 INCH	£169.88
FFPRMF200CB	HYDRAULIC MOTOR FFPRMF200CB, 199,6 CCM/REV, SHAFT 32MM, 4-HOLE SAE A, HPS, G 1/2 INCH	£175.99
FFPRMF250CB	HYDRAULIC MOTOR FFPRMF250CB, 249,8 CCM/REV, SHAFT 32MM, 4-HOLE SAE A, HPS, G 1/2 INCH	£181.84
FFPRMF250CD	HYDRAULIC MOTOR FFPRMF250CD, 249,8 CCM/REV, SHAFT 25MM, 4-HOLE SAE A, HPS, G 1/2 INCH	£187.19
FFPRMF315CB	HYDRAULIC MOTOR FFPRMF315CB, 315,7 CCM/REV, SHAFT 32MM, 4-HOLE SAE A, HPS, G 1/2 INCH	£184.78
FFPRMF400CB	HYDRAULIC MOTOR FFPRMF400CB, 396,5 CCM/REV, SHAFT 32MM, 4-HOLE SAE A, HPS, G 1/2 INCH	£192.81
FFPRMF80CB	HYDRAULIC MOTOR FFPRMF80CB, 80,5 CCM/REV, SHAFT 32MM, 4-HOLE SAE A, HPS, G 1/2 INCH	£159.61
FFPRMF80CD	HYDRAULIC MOTOR FFPRMF80CD, 80,5 CCM/REV, SHAFT 25MM, 4-HOLE SAE A, HPS, G 1/2 INCH	£161.77
FFPRMN100CB	HYDRAULIC MOTOR FFPRMN100CB, 100,8 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, NEEDLE BEAR., G 1/2 INCH	£169.78
FFPRMN100CD	HYDRAULIC MOTOR FFPRMN100CD, 100,8 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, NEEDLE BEAR., G 1/2 INCH	£175.13
FFPRMN125CB	HYDRAULIC MOTOR FFPRMN125CB, 125,1 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, NEEDLE BEAR., G 1/2 INCH	£172.83
FFPRMN125CD	HYDRAULIC MOTOR FFPRMN125CD, 125,1 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, NEEDLE BEAR., G 1/2 INCH	£172.83
FFPRMN160CB	HYDRAULIC MOTOR FFPRMN160CB, 159,4 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, NEEDLE BEAR., G 1/2 INCH	£177.36
FFPRMN160CD	HYDRAULIC MOTOR FFPRMN160CD, 159,4 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, NEEDLE BEAR., G 1/2 INCH	£177.36
FFPRMN200CB	HYDRAULIC MOTOR FFPRMN200CB, 199,6 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, NEEDLE BEAR., G 1/2 INCH	£183.48
FFPRMN200CD	HYDRAULIC MOTOR FFPRMN200CD, 199,6 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, NEEDLE BEAR., G 1/2 INCH	£188.82
FFPRMN250CB	HYDRAULIC MOTOR FFPRMN250CB, 249,8 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, NEEDLE BEAR., G 1/2 INCH	£189.32
FFPRMN250CD	HYDRAULIC MOTOR FFPRMN250CD, 249,8 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, NEEDLE BEAR., G 1/2 INCH	£194.66
FFPRMN315CB	HYDRAULIC MOTOR FFPRMN315CB, 315,7 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, HPS, NEEDLE BEAR., G 1/2 INCH	£192.27
FFPRMN315CD	HYDRAULIC MOTOR FFPRMN315CD, 315,7 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, NEEDLE BEAR., G 1/2 INCH	£196.49
FFPRMN400CB	HYDRAULIC MOTOR FFPRMN400CB, 396,5 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, NEEDLE BEAR., G 1/2 INCH	£200.30
FFPRMN400CD	HYDRAULIC MOTOR FFPRMN400CD, 396,5 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, NEEDLE BEAR., G 1/2 INCH	£205.64
FFPRMN50CB	HYDRAULIC MOTOR FFPRMN50CB, 51,2 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, NEEDLE BEAR., G 1/2 INCH	£161.51
FFPRMN50CD	HYDRAULIC MOTOR FFPRMN50CD, 51,2 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, NEEDLE BEAR., G 1/2 INCH	£166.85
FFPRMN80CB	HYDRAULIC MOTOR FFPRMN80CB, 80,5 CCM/REV, SHAFT 32MM, 2-HOLE SAE A, NEEDLE BEAR., G 1/2 INCH	£172.45
FFPRMN80CD	HYDRAULIC MOTOR FFPRMN80CD, 80,5 CCM/REV, SHAFT 25MM, 2-HOLE SAE A, HPS, NEEDLE BEAR., G 1/2 INCH	£158.31
FFPRMSN50COD	HYDRAULIC MOTOR FFPRMSN50COD, 51,2 CCM/REV, SHAFT 25,4MM, 2-HOLE SAE A, HPS, 7/8 UNF, NB	£167.43



## FFPMH Hydraulik Motor

- Modell Längsschieberventil mit Geroller
- Geringes Startmoment und hoher Wirkungsgrad
- Flanschmontage
- Internes Rückschlagventil
- Verschiedene Sonderausführungen möglich



## FFPMH Hydraulic Motor

- *Spool valve type with geroler*
- *Low starting torque and high efficiency*
- *Flange mount*
- *Internal check valve*
- *Other special features possible*

TYP / Type		FFPMH	FFPMH	FFPMH	FFPMH	FFPMH
		200	250	315	400	500
Schluckvolumen / Displacement [cm <sup>3</sup> /REV]		203.2	255.9	316.1	406.4	489.2
Max. Drehzahl / Max. Speed [RPM]	Dauerbetrieb / Cont.	366	290	236	183	155
	Int.(1)	439	348	282	220	166
Max. Drehmoment / Max. Torque [daNm]	Dauerbetrieb / Cont.	51	62.1	74	85	83
	Int.(1)	57.9	70.2	82.7	99	104
	Spitze / Peak (2)	65.1	79	98	109.2	117
Max. Leistungsabgabe / Max. Output Power [kW]	Dauerbetrieb / Cont.	11.2	9.2	9.8	7.4	6.5
	Int.(1)	17	15	13	13	11
Max. Druckgefälle / Max. Pressure Drop [bar]	Dauerbetrieb / Cont.	175	175	175	155	125
	Int.(1)	200	200	200	190	160
	Spitze / Peak (2)	225	225	225	210	180
Max. Ölstrom / Max. Oil flow [l/min]	Dauerbetrieb / Cont.	75	75	75	75	75
	Int.(1)	90	90	90	90	90
Max. Eingangsdruck / Max. Input Pressure [bar]	Dauerbetrieb / Cont.	200	200	200	200	200
	Int.(1)	225	225	225	225	225
	Spitze / Peak (2)	250	250	250	250	250
Max. Rücklaufdruck mit Leckölleitung / max. return pressure with drain line [bar]	Dauerbetrieb / Cont.	175	175	175	175	175
	Int.(1)	200	200	200	200	200
	Spitze / Peak (2)	225	225	225	225	225
Gewicht / Weight [kg]		10.5	11	11.5	12.3	13

(1) Intermittierender Betrieb max. 6 Sekunden / Minute  
 (2) Spitzenbetrieb max. 0,6 Sekunden / Minute

(1) Intermittend operation rating applies to 6 sec. of every minute  
 (2) Peak load rating applies to 0,6 sec of every minute

## Leistungsdaten

FFPMH 200 (203.2 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.						Max. Int.		
		35	70	105	140	175	200			
Durchflussmenge / Oil flow (l/min)	5	9.8 <b>25</b>	19.4 <b>25</b>	28.4 <b>22</b>					daNm	
	10	10.1 <b>43</b>	20.4 <b>41</b>	30.1 <b>36</b>	39.1 <b>29</b>	48.2 <b>14</b>			RPM	
	20	9.9 <b>100</b>	20.1 <b>97</b>	30.4 <b>93</b>	40.2 <b>85</b>	50.9 <b>69</b>	57.6 <b>56</b>			
	30	9.7 <b>145</b>	19.7 <b>143</b>	30.0 <b>139</b>	40.2 <b>130</b>	51.0 <b>114</b>	57.9 <b>101</b>			
	40	9.0 <b>200</b>	19.0 <b>200</b>	29.2 <b>200</b>	39.9 <b>188</b>	50.7 <b>168</b>	57.8 <b>153</b>			
	50	8.2 <b>248</b>	18.3 <b>246</b>	28.4 <b>244</b>	39.2 <b>235</b>	50.0 <b>213</b>	57.1 <b>199</b>			
	60	7.3 <b>292</b>	17.4 <b>290</b>	27.4 <b>287</b>	38.4 <b>279</b>	49.3 <b>260</b>	56.3 <b>244</b>			
	70	6.3 <b>352</b>	16.3 <b>350</b>	26.4 <b>349</b>	37.4 <b>338</b>	48.1 <b>318</b>	55.4 <b>301</b>			
	75	5.9 <b>366</b>	15.7 <b>365</b>	25.9 <b>363</b>	36.6 <b>355</b>	47.5 <b>335</b>	54.7 <b>319</b>			
	80	5.3 <b>381</b>	15.0 <b>381</b>	25.3 <b>380</b>	35.8 <b>371</b>	46.6 <b>352</b>	53.8 <b>338</b>			
90	3.9 <b>443</b>	14.0 <b>437</b>	24.1 <b>434</b>	34.8 <b>426</b>	45.6 <b>407</b>	52.6 <b>392</b>				

## Performance data

FFPMH 250 (255.9 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.						Max. Int.		
		35	70	90	120	145	175	200		
Durchflussmenge / Oil flow (l/min)	5	12.1 <b>19</b>	24.6 <b>19</b>	31.8 <b>18</b>	39.8 <b>14</b>				daNm	
	10	13.0 <b>34</b>	25.8 <b>33</b>	33.1 <b>31</b>	42.5 <b>29</b>	51.5 <b>23</b>	59.5 <b>12</b>		RPM	
	20	13.0 <b>78</b>	25.8 <b>77</b>	33.2 <b>76</b>	43.2 <b>73</b>	52.0 <b>65</b>	62.1 <b>53</b>	70.2 <b>42</b>		
	30	12.2 <b>115</b>	25.1 <b>113</b>	32.7 <b>111</b>	42.9 <b>105</b>	52.0 <b>96</b>	62.1 <b>84</b>	70.0 <b>75</b>		
	40	11.5 <b>157</b>	24.0 <b>157</b>	32.3 <b>156</b>	42.2 <b>150</b>	51.3 <b>139</b>	61.6 <b>127</b>	69.8 <b>114</b>		
	50	10.5 <b>196</b>	23.2 <b>195</b>	31.4 <b>192</b>	41.1 <b>185</b>	50.5 <b>173</b>	60.6 <b>159</b>	68.7 <b>147</b>		
	60	9.4 <b>232</b>	22.0 <b>230</b>	30.2 <b>226</b>	40.1 <b>218</b>	49.6 <b>206</b>	59.6 <b>192</b>	67.6 <b>180</b>		
	70	8.1 <b>274</b>	20.9 <b>274</b>	28.8 <b>274</b>	38.9 <b>266</b>	48.4 <b>252</b>	58.2 <b>238</b>	66.6 <b>222</b>		
	75	7.2 <b>290</b>	20.3 <b>289</b>	28.0 <b>287</b>	38.1 <b>279</b>	47.5 <b>266</b>	57.4 <b>251</b>	65.9 <b>236</b>		
	80	6.6 <b>303</b>	19.4 <b>302</b>	27.3 <b>298</b>	37.1 <b>290</b>	46.7 <b>279</b>	56.6 <b>264</b>	65.1 <b>249</b>		
90	4.9 <b>348</b>	17.8 <b>347</b>	25.6 <b>345</b>	35.5 <b>337</b>	45.3 <b>325</b>	55.2 <b>309</b>	63.4 <b>292</b>			

## Leistungsdaten

FFPMH 315 (316.1 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.						Max. Int.		
		35	70	100	135	155	175	200		
Durchflussmenge / Oil flow (l/min)	5	15.5 <b>16</b>	32.5 <b>13</b>						daNm	
	10	16.3 <b>27</b>	34.2 <b>24</b>	45.4 <b>18</b>	55.6 <b>14</b>				RPM	
	20	16.9 <b>63</b>	34.9 <b>61</b>	46.9 <b>55</b>	58.2 <b>48</b>	66.4 <b>40</b>	73.3 <b>32</b>	80.9 <b>19</b>		
	30	16.5 <b>93</b>	34.4 <b>89</b>	47.0 <b>82</b>	58.0 <b>77</b>	66.9 67	74.0 <b>59</b>	82.4 <b>46</b>		
	40	15.4 <b>126</b>	33.7 <b>126</b>	46.5 <b>119</b>	57.7 <b>111</b>	66.3 <b>99</b>	73.7 <b>88</b>	82.7 <b>73</b>		
	50	14.1 <b>159</b>	32.5 <b>155</b>	45.5 <b>148</b>	56.8 <b>139</b>	65.6 <b>126</b>	72.8 <b>115</b>	82.4 <b>98</b>		
	60	12.1 <b>187</b>	31.2 <b>186</b>	44.0 <b>179</b>	55.5 <b>169</b>	64.3 <b>154</b>	71.5 <b>143</b>	81.2 <b>124</b>		
	70	10.3 <b>222</b>	29.8 <b>222</b>	42.5 <b>215</b>	54.1 <b>205</b>	63.1 <b>187</b>	70.3 <b>176</b>	80.0 <b>157</b>		
	Max. cont. 75	9.4 <b>236</b>	28.7 <b>233</b>	41.7 <b>224</b>	52.9 <b>215</b>	62.3 <b>196</b>	69.6 <b>184</b>	79.2 <b>166</b>		
	80	8.2 <b>246</b>	27.7 <b>244</b>	40.6 <b>236</b>	51.8 <b>228</b>	61.1 <b>210</b>	68.8 <b>197</b>	78.4 <b>174</b>		
Max. int. 90	6.2 <b>282</b>	25.6 <b>280</b>	38.6 <b>275</b>	49.6 <b>266</b>	59.3 <b>248</b>	66.9 <b>234</b>	76.7 <b>209</b>			

## Performance data

FFPMH 400 (406.4 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.						Max. Int.		
		35	60	105	125	155	190			
Durchflussmenge / Oil flow (l/min)	5	19.6 <b>13</b>	34.8 <b>13</b>	51.6 <b>10</b>				daNm		
	10	20.5 <b>22</b>	36.3 <b>21</b>	54.6 <b>21</b>	70.2 <b>17</b>	85.9 <b>11</b>		RPM		
	20	20.9 <b>50</b>	36.6 <b>49</b>	54.3 <b>46</b>	70.8 <b>41</b>	87.4 <b>36</b>	98.8 <b>31</b>			
	30	20.1 <b>73</b>	35.7 <b>72</b>	54.2 <b>70</b>	70.6 <b>63</b>	86.4 <b>56</b>	98.4 <b>51</b>			
	40	19.5 <b>99</b>	34.6 <b>98</b>	53.2 <b>96</b>	70.1 <b>86</b>	85.8 <b>77</b>	97.3 <b>71</b>			
	50	17.3 <b>123</b>	33.2 <b>122</b>	51.8 <b>118</b>	68.7 <b>107</b>	84.8 <b>97</b>	95.8 <b>90</b>			
	60	15.4 <b>146</b>	31.9 <b>144</b>	50.1 <b>141</b>	66.8 <b>128</b>	83.3 <b>115</b>	94.4 <b>106</b>			
	70	13.8 <b>174</b>	30.5 <b>173</b>	48.0 <b>169</b>	64.9 <b>156</b>	81.4 <b>141</b>	92.5 <b>130</b>			
	Max. cont. 75	12.8 <b>183</b>	29.4 <b>181</b>	46.6 <b>177</b>	63.7 <b>163</b>	80.2 <b>149</b>	91.1 <b>138</b>			
	80	11.3 <b>192</b>	27.7 <b>191</b>	45.1 <b>188</b>	62.1 <b>174</b>	78.6 <b>158</b>	89.9 <b>144</b>			
Max. int. 90	9.0 <b>220</b>	25.6 <b>220</b>	43.3 <b>215</b>	59.5 <b>202</b>	76.7 <b>183</b>	88.1 <b>165</b>				

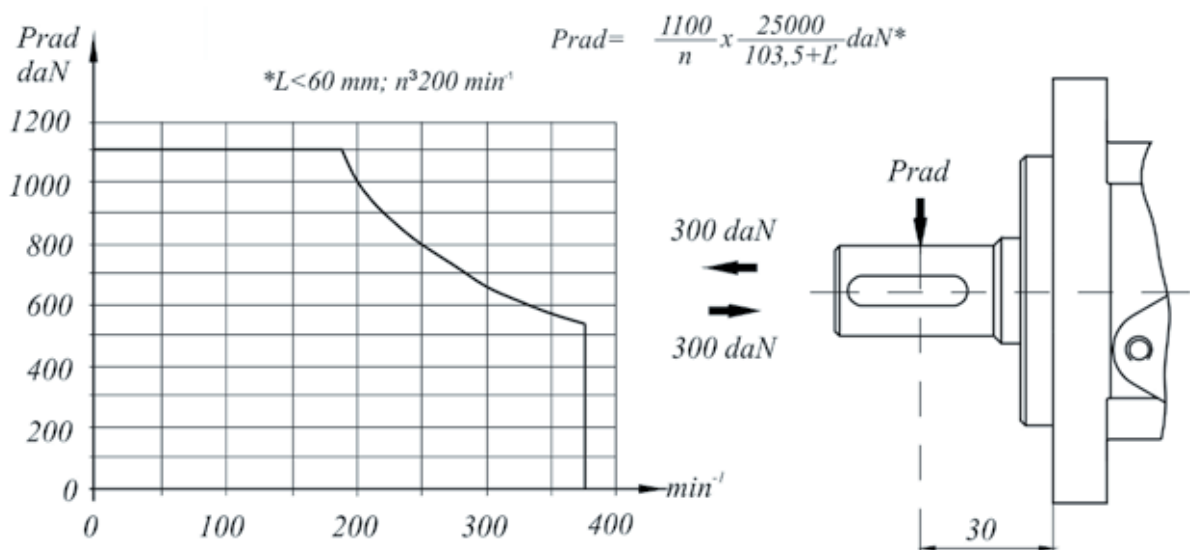
FFPMH 500 (500 cm<sup>3</sup>/U)

Druck / pressure (bar)

Durchflussmenge / Oil flow (l/min)					Max. cont.	Max. Int.	daNm RPM
	25	50	85	100	125	160	
5	16.5	31.7	51.6				
	<b>11</b>	<b>11</b>	<b>8</b>				
10	17.8	33.5	55.5	66.9	79.1	96.9	
	<b>20</b>	<b>19</b>	<b>17</b>	<b>15</b>	<b>13</b>	<b>9</b>	
20	17.7	33.1	55.9	67.3	79.9	98.8	
	<b>42</b>	<b>42</b>	<b>41</b>	<b>38</b>	<b>36</b>	<b>29</b>	
30	17.2	32.0	55.3	66.3	79.2	98.3	
	<b>64</b>	<b>63</b>	<b>61</b>	<b>57</b>	<b>53</b>	<b>47</b>	
40	16.3	30.9	54.1	65.4	78.3	97.1	
	<b>85</b>	<b>85</b>	<b>83</b>	<b>79</b>	<b>75</b>	<b>67</b>	
50	14.6	29.6	52.3	63.5	76.8	95.4	
	<b>103</b>	<b>103</b>	<b>103</b>	<b>97</b>	<b>93</b>	<b>85</b>	
60	12.1	27.5	50.2	61.4	74.7	93.4	
	<b>124</b>	<b>124</b>	<b>123</b>	<b>117</b>	<b>113</b>	<b>103</b>	
70	9.7	25.6	48.2	59.7	72.9	91.7	
	<b>148</b>	<b>148</b>	<b>148</b>	<b>140</b>	<b>134</b>	<b>122</b>	
75	7.9	24.0	46.9	58.2	71.4	90.2	Max. cont.
	<b>155</b>	<b>155</b>	<b>155</b>	<b>152</b>	<b>144</b>	<b>130</b>	
80	6.0	22.6	45.3	57.0	70.1	88.4	
	<b>166</b>	<b>166</b>	<b>166</b>	<b>159</b>	<b>153</b>	<b>139</b>	
90	3.4	20.1	42.1	55.0	67.3	86.9	Max. int.
	<b>166</b>	<b>165</b>	<b>164</b>	<b>157</b>	<b>156</b>	<b>155</b>	

## Wellenbelastung Shaft Load

Die Grafik zeigt den zulässigen Radiallastverlauf bei L=30mm.  
The drawing shows the permissible shaft load when L=30mm.



Die zulässige Radiallast berechnet sich aus dem Abstand L zwischen Kraftangriffspunkt und der Montagefläche des Flansches /  
The permissible radial shaft load is calculated from the distance L between the point load application and the mounting surface:

## Abmessungen

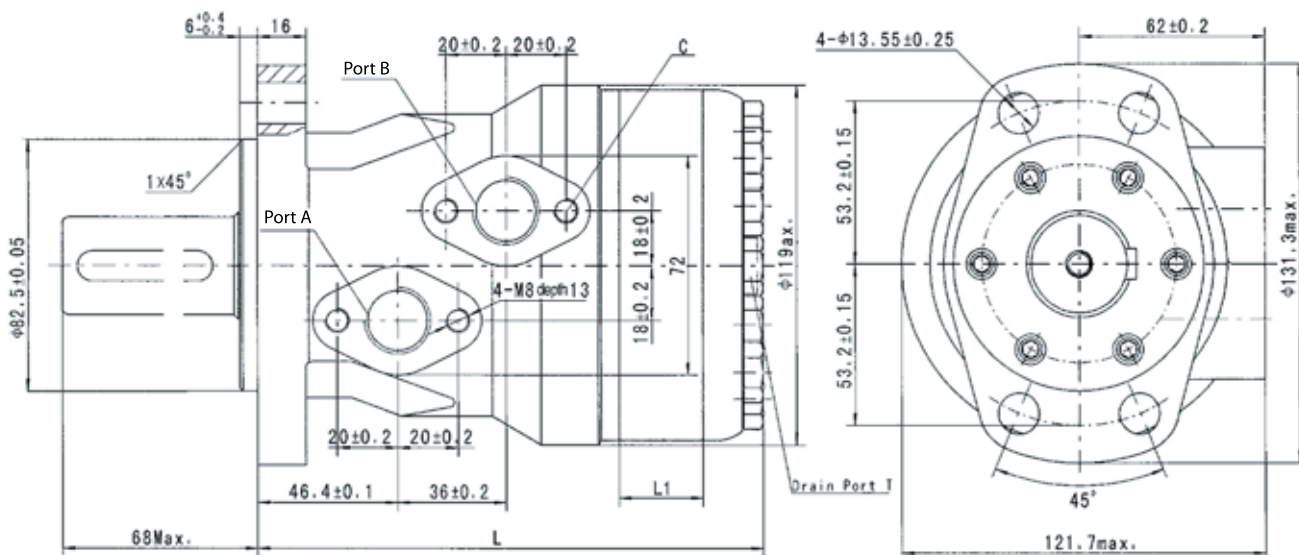
## Dimensions

### Anschlüsse / Porting

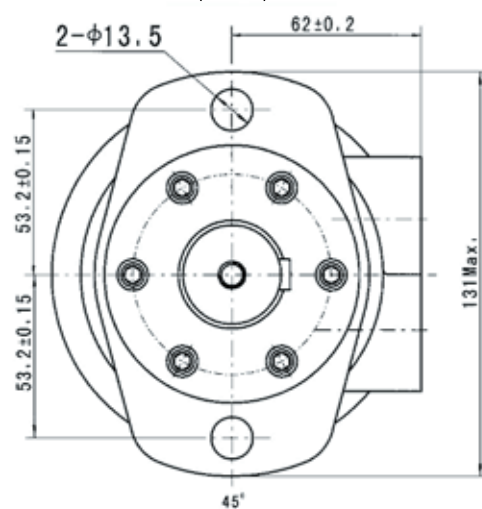
### Anbaumaße / Mounting

Version **G M U P**

Magneto Flansch / *Magneto Mount* (4-Loch / 4 holes)



A-Ovalflansch / *Oval Mount* SAE A (2-Loch) / 2 holes

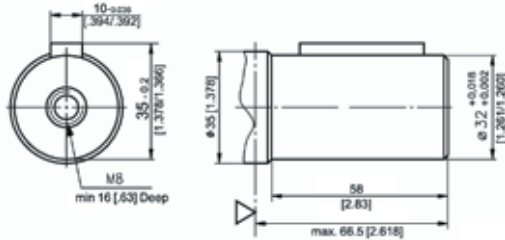


Anschluss / Port	Versionen / Versions			
	Leer / Omit	M	U	P
P(A,B)	G 1/2"	M22 x 1,5	7/8-14 O-Ring	1/2-14 NPTF
T	G 1/4"	M14 x 1,5	7/16-20 UNF	7/16-20 UNF
C	4 x M8	4 x M8	5/16-18 UNC	5/16-18 UNC

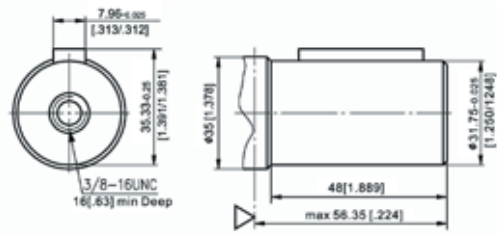
Typ / Type	L	L <sub>1</sub>
FFPMH 200	168	27
FFPMH 250	175	34
FFPMH 315	184	42
FFPMH 400	195	54
FFPMH 500	206	65

## Abtriebswellen

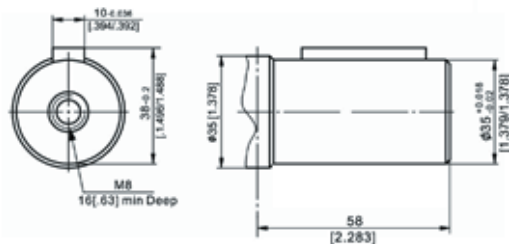
**C** -  $\emptyset$  32 mm zylindrisch mit Passfeder A10 x 8 x 45. Max. Drehmoment: 77 daNm /  $\emptyset$  32mm straight, parallel key A10 x 8 x 45. Max. torque: 77 daNm



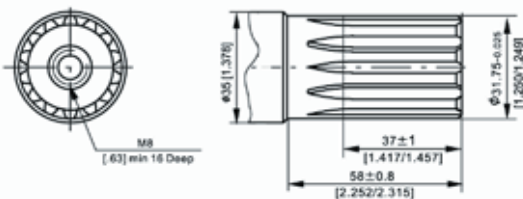
**CO** -  $\emptyset$  31,75 mm (1 1/4") zylindrisch mit Passfeder 5/16" x 5/16" x 1 1/4". Max. Drehmoment: 77 daNm /  $\emptyset$  31,75 mm (1 1/4") straight, parallel key 5/16" x 5/16" x 1 1/4". Max. torque: 77 daNm



**CB** -  $\emptyset$  35mm zylindrisch mit Passfeder A10 x 8 x 45. Max. Drehmoment: 95 daNm /  $\emptyset$  35mm straight, parallel key A10 x 8 x 45. Max. torque: 95 daNm

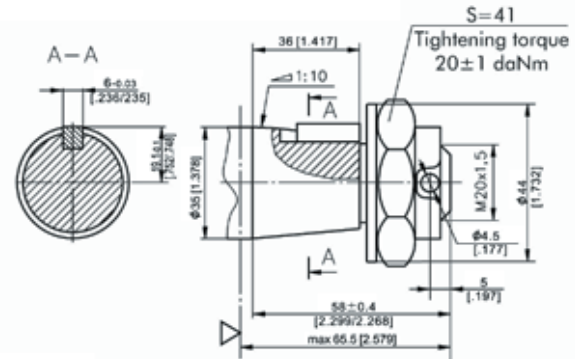


**S** -  $\emptyset$  31,75 (1 1/4") verzahnt, 14 Zähne, DP 12/24. Max. Drehmoment: 95 daNm /  $\emptyset$  31,75 (1 1/4") splined, 14T, DP 12/24. Max. torque: 95 daNm

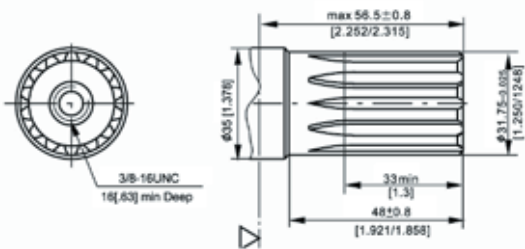


## Output shafts

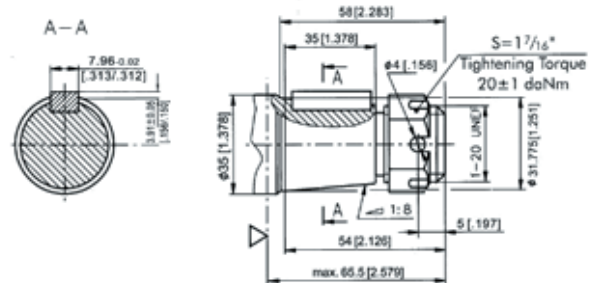
**K** - kon. 1:10 mit Passfeder B6 x 6 x 20. Max. Drehmoment: 95 daNm / conical 1:10, parallel key B6 x 6 x 20. Max. torque: 95 daNm



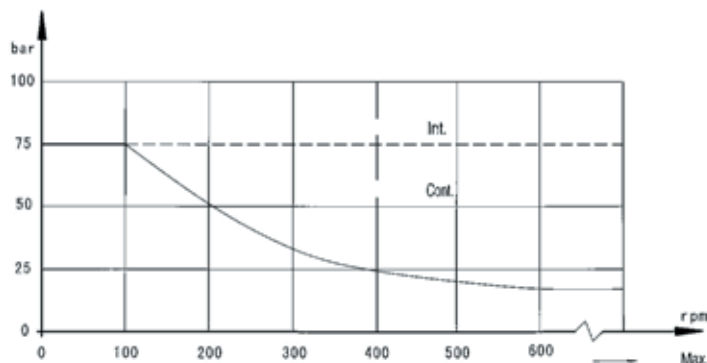
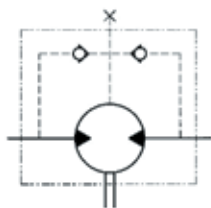
**SH** - verzahnt (SAE 6B). Max. Drehmoment: 40 daNm / splined, (SAE 6B). Max. torque: 77 daNm



**KA** - kon. 1:8, SAE J 501, mit Passfeder 5/16" x 5/16" x 1 1/4". Max. Drehmoment: 77 daNm / conical 1:8, SAE J 501, parallel key 5/16" x 5/16" x 1 1/4". Max. torque: 77 daNm



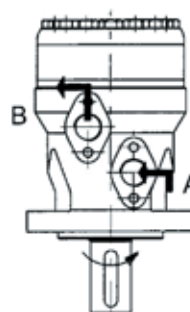
Max. Rücklaufdruck ohne Leckölleitung bzw. max. Druck in der Leckölleitung / *Max. return pressure without drain line or max. pressure in drain line*



## Drehrichtungsauswahl Rotation selection

Standardeinstellung:  
Drehrichtung rechts, wenn Anschluss A druckbeaufschlagt ist.  
Drehrichtung links, wenn Anschluss B druckbeaufschlagt ist.

*Standard direction of rotation:  
Clockwise when port „A“ is pressurized.  
Counter-Clockwise when port „B“ is pressurized.*



## Bestellinformationen

	1	2	3	4	5	6
<b>FFPMH</b>						

### Pos. 1 Montageflansch / Mounting flange

Leer / Omit Magnetoflansch (4-loch) / *Magneto flange (4-hole)*  
**A** Ovalflansch 2-loch / *Oval mount 2 holes*

### Pos. 2 Schluckvolumen / Displacement

<b>200</b>	200 cm <sup>3</sup> /U / 200 ccm/REV
<b>250</b>	250 cm <sup>3</sup> /U / 250 ccm/REV
<b>315</b>	315 cm <sup>3</sup> /U / 315 ccm/REV
<b>400</b>	400 cm <sup>3</sup> /U / 400 ccm/REV
<b>500</b>	500 cm <sup>3</sup> /U / 500 ccm/REV

### Pos. 3 Wellenausführungen / Shaft extensions

**C** Ø 32 mm zylindrisch mit Passfeder A10 x 8 x 45  
*Ø 32 mm straight, parallel key A10 x 8 x 45.*  
**CO** Ø 31,75 mm (1 1/4") zylindrisch mit Passfeder 5/16" x 5/16" x 1 1/4"  
*Ø 31,75 mm (1 1/4") straight, parallel key 5/16" x 5/16" x 1 1/4".*

## Order Information

**CB** Ø 35 mm zylindrisch mit Passfeder A10 x 8 x 45  
*Ø 35 mm straight, parallel key A10 x 8 x 45.*  
**S** Ø 31,75 mm (1 1/4") verzahnt, 14 Zähne, DP 12/24,  
*Ø 31,75 mm (1 1/4") splined, 14T, DP 12/24.*  
**K** kon. 1:10 mit Passfeder B6 x 6 x 20.  
*conical 1:10, parallel key B6 x 6 x 20.*  
**SH** verzahnt (SAE 6B) / *splined, (SAE 6B)*  
**KA** kon. 1:8, SAE J 501, mit Passfeder 5/16" x 5/16" x 1 1/4"  
*conical 1:8, SAE J 501, parallel key 5/16" x 5/16" x 1 1/4".*

### Pos. 4 Anschlüsse / Porting

Leer / Omit 2 x G 1/2", 1 x G 1/4" / 2 x G 1/2", 1 x G 1/4"  
**M** 2 x M18 x 1,5, 1 x M10 x 1 / 2 x M18 x 1,5, 1 x M10 x 1  
**U** 2 x 7/8-14 UNF, O-Ring, 1 x 7/16-20 UNF  
 2 x 7/8-14 UNF, O-Ring, 1 x 7/16-20 UNF

### Pos. 5 Farbe / Painting

Leer / Omit Grau / Grey  
**RAL...** + Ralfarbe (z.B. 7021) / + *Ral colour (e.g. 7021)*

### Pos. 6 Drehrichtung / Rotation direction

Leer / Omit Standarddrehrichtung / *Standard Rotation*  
**R** Umgekehrte Drehrichtung / *Reverse Rotation*

# FLOWFIT HYDRAULIC MOTOR PRICE LIST - BUILD YOUR OWN

## FFPMH HYDRAULIC MOTOR

STANDARD: OPTIONS INCLUDED FFPMH	PART NUMBER	PRICE
SIDE PORTS: 2 X G 1/2" (BSP)	FFPMH 125	£223.37
SHAFT TYPE "C" Ø 32MM	FFPMH 160	£223.37
SHAFT TYPE "CO" Ø 31,75MM	FFPMH 200	£226.01
SHAFT TYPE "CB" Ø35MM	FFPMH 250	£231.20
SHAFT TYPE "S" SAE 6B	FFPMH 315	£238.60
	FFPMH 400	£247.93
FLANGE MAGNETO MOUNT	FFPMH 500	£262.88
OPTIONAL EXTRAS FFPMH		
SHAFT 14T, DP 12/24	SH;ADD	£5.27
TAPERED KEY SHAFT 1:10 (B6 X 6 X 20)	T (K): ADD	£5.33
TAPERED KEY SHAFT 1:8 (SAE J 501)	TA (KA): ADD	£4.27
	£0.00	£4.27
SEAL KIT FFPMH	SEAL KIT FFPMH	£30.34

# FLOWFIT HYDRAULIC MOTOR PRICE LIST - COMPLETE

PART NUMBER	DESCRIPTION	PRICE
FFPMH125C	HYDRAULIC MOTOR FFPMH125C, 124,9 CCM/REV, SHAFT 32MM, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£223.36
FFPMH125CB	HYDRAULIC MOTOR FFPMH125CB, 124,9 CCM/REV, SHAFT 35MM, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£223.36
FFPMH160C	HYDRAULIC MOTOR FFPMH160C, 157,2 CCM/REV, SHAFT 32MM, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£223.36
FFPMH160CB	HYDRAULIC MOTOR FFPMH160CB, 157,2 CCM/REV, SHAFT 35MM, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£223.36
FFPMH200C	HYDRAULIC MOTOR FFPMH200C, 203,2 CCM/REV, SHAFT 32MM, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£226.03
FFPMH200CB	HYDRAULIC MOTOR FFPMH200CB, 203,2 CCM/REV, SHAFT 35MM, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£226.03
FFPMH250C	HYDRAULIC MOTOR FFPMH250C, 255,9 CCM/REV, SHAFT 32MM, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£231.19
FFPMH250CB	HYDRAULIC MOTOR FFPMH250CB, 255,9 CCM/REV, SHAFT 35MM, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£231.19
FFPMH315C	HYDRAULIC MOTOR FFPMH315C, 316,1 CCM/REV, SHAFT 32MM, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£238.61
FFPMH315CB	HYDRAULIC MOTOR FFPMH315CB, 316,1 CCM/REV, SHAFT 35MM, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£238.61
FFPMH315K	HYDRAULIC MOTOR FFPMH315K, 316,1 CCM/REV, CONIC SHAFT 1:10, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£242.87
FFPMH400C	HYDRAULIC MOTOR FFPMH400C, 406,4 CCM/REV, SHAFT 32MM, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£247.93
FFPMH400CB	HYDRAULIC MOTOR FFPMH400CB, 406,4 CCM/REV, SHAFT 35MM, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£247.93
FFPMH500C	HYDRAULIC MOTOR FFPMH500C, 489,2 CCM/REV, SHAFT 32MM, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£262.87
FFPMH500CB	HYDRAULIC MOTOR FFPMH500CB, 489,2 CCM/REV, SHAFT 35MM, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£0.00
FFPMH630C	HYDRAULIC MOTOR FFPMH630C, 612,4 CCM/REV, SHAFT 32MM, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£0.00
FFPMH630CB	HYDRAULIC MOTOR FFPMH630CB, 612,4 CCM/REV, SHAFT 35MM, G 1/2 INCH, MAGNETO MOUNTING FLANGE	£0.00



## FFPMS Hydraulik Motor

## FFPMS Hydraulic Motor

- Modell Verteilerventil mit Geroller
- Geringes Startmoment und hoher Wirkungsgrad
- Ideal für enge Bauräume
- Internes Rückschlagventil
- Verwendung ohne Leckölanchluss möglich
- Schrägrollenlager für hohe Radialbelastung



- Disk valve type with geroler
- Low starting torque and high efficiency
- Optimized for small spaces
- Internal check valve
- Usage without drain line possible
- Tapered roller bearing for high radial load

TYP / Type		FFPMS	FFPMS	FFPMS	FFPMS	FFPMS	FFPMS	FFPMS	FFPMS
		80	100	125	160	200	250	315	400
Schluckvolumen / Displacement [cm <sup>3</sup> /REV]		80.6	100.8	125	154	194	243	311	397
Max. Drehzahl / Max. Speed [RPM]	Dauerbetrieb / Cont.	800	748	600	470	375	300	240	187
	Int.(1)	988	900	720	560	450	360	280	230
Max. Drehmoment / Max. Torque [daNm]	Dauerbetrieb / Cont.	19	24	31	31.6	40	45	56	58
	Int.(1)	24	30	37	43	46.6	54	65.8	69
	Spitze / Peak (2)	26	32	40	47.2	65	69	74	85
Max. Leistungsabgabe / Max. Output Power [kW]	Dauerbetrieb / Cont.	15.9	18.8	19.5	15.6	15.7	14.1	14.1	10
	Int.(1)	20.1	23.5	23.2	21.2	18.3	17	18.9	13
Max. Druckgefälle / Max. Pressure Drop [bar]	Dauerbetrieb / Cont.	175	175	175	150	140	125	120	100
	Int.(1)	210	210	210	210	160	160	140	120
	Spitze / Peak (2)	225	225	225	225	225	200	185	140
Max. Ölstrom / Max. Oil flow [l/min]	Dauerbetrieb / Cont.	65	75	75	75	75	75	75	75
	Int.(1)	80	90	90	90	90	90	90	90
Max. Eingangsdruck / Max. Input Pressure [bar]	Dauerbetrieb / Cont.	250	250	250	250	250	250	250	250
	Int.(3)	300	300	300	300	300	300	300	300
Gewicht / Weight [kg]		9.8	10	10.3	10.7	11.1	11.6	12.3	13.2

(1) Intermittierender Betrieb max. 6 Sekunden / Minute  
 (2) Spitzenbetrieb max. 0,6 Sekunden / Minute

(1) Intermittent operation rating applies to 6 sec. of every minute  
 (2) Peak load rating applies to 0,6 sec of every minute

## Leistungsdaten

FFPMS 80 (80.6 cm<sup>3</sup>/U)

Druck / pressure (bar)

				Max. cont.		Max. Int.				
		35	70	105	140	175	210	225		
Durchflussmenge / Oil flow (l/min)	15	3.5	8.0	12.0	15.8	19.5	23.5	24.9	daNm	
		<b>180</b>	<b>174</b>	<b>168</b>	<b>164</b>	<b>158</b>	<b>151</b>	<b>143</b>	RPM	
30	3.5	8.0	12.0	15.8	19.5	24.0	26.0			
	<b>362</b>	<b>352</b>	<b>346</b>	<b>338</b>	<b>330</b>	<b>322</b>	<b>310</b>			
40	3.5	7.9	11.9	15.5	19.3	23.4	25.0			
	<b>482</b>	<b>473</b>	<b>464</b>	<b>453</b>	<b>444</b>	<b>434</b>	<b>415</b>			
50	3.0	7.7	11.7	15.3	19.2	23.2	24.8			
	<b>602</b>	<b>594</b>	<b>587</b>	<b>569</b>	<b>560</b>	<b>551</b>	<b>522</b>			
Max. cont.	60	2.8	7.7	11.7	15.3	19.2	23.2	24.7		
		<b>724</b>	<b>713</b>	<b>707</b>	<b>683</b>	<b>673</b>	<b>664</b>	<b>629</b>		
65	2.5	7.5	11.4	15.2	19.0	23.0	24.5			
	<b>790</b>	<b>785</b>	<b>770</b>	<b>760</b>	<b>742</b>	<b>720</b>	<b>704</b>			
Max. int.	80	2.2	7.0	11.0	14.0	17.0	20.0	22.0		
		<b>980</b>	<b>965</b>	<b>950</b>	<b>920</b>	<b>891</b>	<b>860</b>	<b>830</b>		

## Performance data

FFPMS 100 (100.8 cm<sup>3</sup>/U)

Druck / pressure (bar)

				Max. cont.		Max. Int.				
		35	70	105	140	175	210	225		
Durchflussmenge / Oil flow (l/min)	15	4.8	9.5	15.0	20.0	25.0	28.9	31.0	daNm	
		<b>146</b>	<b>144</b>	<b>139</b>	<b>135</b>	<b>130</b>	<b>120</b>	<b>105</b>	RPM	
30	4.5	9.4	14.6	19.8	25.0	29.5	31.7			
	<b>291</b>	<b>289</b>	<b>278</b>	<b>274</b>	<b>269</b>	<b>258</b>	<b>242</b>			
40	4.3	8.9	14.2	19.6	24.8	29.3	31.6			
	<b>387</b>	<b>384</b>	<b>374</b>	<b>359</b>	<b>350</b>	<b>335</b>	<b>320</b>			
50	4.0	8.8	13.5	19.4	24.7	29.2	31.5			
	<b>486</b>	<b>483</b>	<b>473</b>	<b>462</b>	<b>450</b>	<b>430</b>	<b>420</b>			
Max. cont.	60	3.7	8.8	13.2	18.5	24.4	28.9	31.2		
		<b>588</b>	<b>584</b>	<b>574</b>	<b>562</b>	<b>550</b>	<b>538</b>	<b>520</b>		
75	3.5	8.0	13.0	18.0	24.0	28.6	31.0			
	<b>740</b>	<b>735</b>	<b>720</b>	<b>705</b>	<b>696</b>	<b>676</b>	<b>653</b>			
Max. int.	90	3.0	7.5	12.4	17.0	23.6	27.7	30.3		
		<b>850</b>	<b>840</b>	<b>810</b>	<b>787</b>	<b>770</b>	<b>750</b>	<b>747</b>		

FFPMS 125 (125 cm<sup>3</sup>/U)

Druck / pressure (bar)

				Max. cont.		Max. Int.				
		35	70	105	140	175	210	225		
Durchflussmenge / Oil flow (l/min)	15	5.5	12.0	17.6	24.5	30.9	34.9	37.5	daNm	
		<b>112</b>	<b>110</b>	<b>103</b>	<b>96</b>	<b>93</b>	<b>90</b>	<b>84</b>	RPM	
30	5.5	12.0	17.5	25.0	32.4	37.5	40.8			
	<b>222</b>	<b>220</b>	<b>217</b>	<b>208</b>	<b>200</b>	<b>199</b>	<b>190</b>			
40	5.5	12.0	17.5	25.0	32.4	37.0	40.8			
	<b>302</b>	<b>298</b>	<b>292</b>	<b>284</b>	<b>276</b>	<b>268</b>	<b>260</b>			
50	5.0	11.5	17.6	24.8	32.0	37.0	40.6			
	<b>379</b>	<b>373</b>	<b>368</b>	<b>363</b>	<b>350</b>	<b>339</b>	<b>328</b>			
Max. cont.	60	4.5	11.3	17.1	24.5	32.4	36.8	40.6		
		<b>456</b>	<b>448</b>	<b>443</b>	<b>439</b>	<b>425</b>	<b>406</b>	<b>393</b>		
65	4.5	11.0	16.7	24.0	31.4	37.0	40.1			
	<b>570</b>	<b>563</b>	<b>555</b>	<b>546</b>	<b>533</b>	<b>515</b>	<b>503</b>			
Max. int.	80	4.0	10.5	16.2	23.7	30.9	36.5	39.8		
		<b>685</b>	<b>676</b>	<b>670</b>	<b>659</b>	<b>644</b>	<b>625</b>	<b>610</b>		

FFPMS 160 (157.2 cm<sup>3</sup>/U)

Druck / pressure (bar)

				Max. cont.		Max. Int.				
		35	70	105	140	175	210	225		
Durchflussmenge / Oil flow (l/min)	15	7.0	14.0	20.5	30.5	37.1	43.0	47.3	daNm	
		<b>91</b>	<b>88</b>	<b>84</b>	<b>78</b>	<b>76</b>	<b>74</b>	<b>58</b>	RPM	
30	7.5	15.0	21.4	32.1	38.0	42.7	49.0			
	<b>185</b>	<b>182</b>	<b>176</b>	<b>168</b>	<b>164</b>	<b>162</b>	<b>152</b>			
40	7.0	15.0	21.5	32.0	37.8	42.5	48.8			
	<b>248</b>	<b>244</b>	<b>239</b>	<b>229</b>	<b>224</b>	<b>217</b>	<b>204</b>			
50	6.5	14.5	21.5	31.6	37.8	42.5	48.2			
	<b>312</b>	<b>308</b>	<b>304</b>	<b>294</b>	<b>288</b>	<b>280</b>	<b>270</b>			
Max. cont.	60	6.5	14.5	21.4	31.5	37.5	42.4	48.2		
		<b>375</b>	<b>371</b>	<b>365</b>	<b>357</b>	<b>346</b>	<b>336</b>	<b>323</b>		
75	6.0	13.8	20.8	31.1	37.5	42.0				
	<b>470</b>	<b>465</b>	<b>458</b>	<b>447</b>	<b>436</b>	<b>426</b>				
Max. int.	90	5.6	13.0	20.0	30.8	37.0	41.4			
		<b>564</b>	<b>559</b>	<b>551</b>	<b>541</b>	<b>526</b>	<b>517</b>			

## Leistungsdaten

FFPMS 200 (200 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.			Max. Int.			
		35	70	105	140	175	225	
15		8.9	19.0	29.5	40.0	48.4	60.8	daNm
		<b>73</b>	<b>71</b>	<b>68</b>	<b>64</b>	<b>60</b>	<b>52</b>	RPM
30		8.7	19.0	29.4	39.9	48.5	60.0	
		<b>148</b>	<b>146</b>	<b>143</b>	<b>140</b>	<b>135</b>	<b>127</b>	
40		8.6	18.8	29.2	39.7	48.3	59.4	
		<b>193</b>	<b>191</b>	<b>189</b>	<b>186</b>	<b>181</b>	<b>172</b>	
50		8.0	18.4	29.0	39.5	48.0	59.0	
		<b>247</b>	<b>245</b>	<b>243</b>	<b>240</b>	<b>235</b>	<b>226</b>	
Max. cont. 60		7.4	17.8	28.6	39.0	47.5	58.2	
		<b>298</b>	<b>295</b>	<b>293</b>	<b>290</b>	<b>284</b>	<b>273</b>	
75		5.8	16.0	27.5	37.5	46.0	57.0	
		<b>372</b>	<b>369</b>	<b>365</b>	<b>362</b>	<b>358</b>	<b>346</b>	
Max. int. 90		4.9	14.8	26.0	35.5	44.5	55.5	
		<b>440</b>	<b>435</b>	<b>430</b>	<b>422</b>	<b>411</b>	<b>401</b>	

## Performance data

FFPMS 250 (252 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.			Max. Int.			
		35	70	105	140	175	225	
15		11.7	23.0	35.5	45.0	55.4	65.2	daNm
		<b>58</b>	<b>55</b>	<b>52</b>	<b>51</b>	<b>47</b>	<b>46</b>	RPM
30		11.7	22.5	35.0	44.6	56.0	65.7	
		<b>118</b>	<b>117</b>	<b>112</b>	<b>109</b>	<b>107</b>	<b>106</b>	
40		11.5	22.5	34.8	44.2	55.2	65.0	
		<b>160</b>	<b>156</b>	<b>152</b>	<b>150</b>	<b>146</b>	<b>142</b>	
50		11.0	22.0	34.5	43.8	54.6	64.5	
		<b>202</b>	<b>200</b>	<b>198</b>	<b>196</b>	<b>195</b>	<b>192</b>	
60		10.5	22.0	34.0	43.5	54.2	64.2	
		<b>242</b>	<b>239</b>	<b>237</b>	<b>234</b>	<b>231</b>	<b>229</b>	
Max. cont. 75		9.5	21.5	33.8	43.0	53.7	63.8	
		<b>300</b>	<b>296</b>	<b>293</b>	<b>286</b>	<b>282</b>	<b>278</b>	
Max. int. 90		9.0	20.5	33.2	42.0	53.0	63.2	
		<b>360</b>	<b>354</b>	<b>348</b>	<b>340</b>	<b>332</b>	<b>326</b>	

FFPMS 315 (314.5 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.			Max. Int.			
		35	70	105	140	185		
15		16.0	32.0	46.5	55.5	65.0	74.8	daNm
		<b>48</b>	<b>47</b>	<b>45</b>	<b>43</b>	<b>40</b>	<b>38</b>	RPM
30		16.5	32.2	46.8	56.0	65.8	75.2	
		<b>94</b>	<b>92</b>	<b>90</b>	<b>89</b>	<b>86</b>	<b>85</b>	
40		16.0	31.0	45.7	54.6	64.2	74.1	
		<b>125</b>	<b>123</b>	<b>120</b>	<b>118</b>	<b>116</b>	<b>115</b>	
50		15.5	30.5	45.0	53.8	63.7	73.6	
		<b>158</b>	<b>156</b>	<b>153</b>	<b>150</b>	<b>147</b>	<b>145</b>	
Max. cont. 60		15.2	30.2	44.2	53.2	63.2	73.2	
		<b>175</b>	<b>174</b>	<b>170</b>	<b>164</b>	<b>162</b>	<b>159</b>	
65		14.5	29.5	43.6	52.5	62.8	72.6	
		<b>236</b>	<b>234</b>	<b>230</b>	<b>227</b>	<b>225</b>	<b>222</b>	
Max. int. 80		13.2	28.0	43.0	52.0	62.2	72.3	
		<b>285</b>	<b>282</b>	<b>280</b>	<b>276</b>	<b>273</b>	<b>270</b>	

FFPMS 400 (400 cm<sup>3</sup>/U)

Druck / pressure (bar)

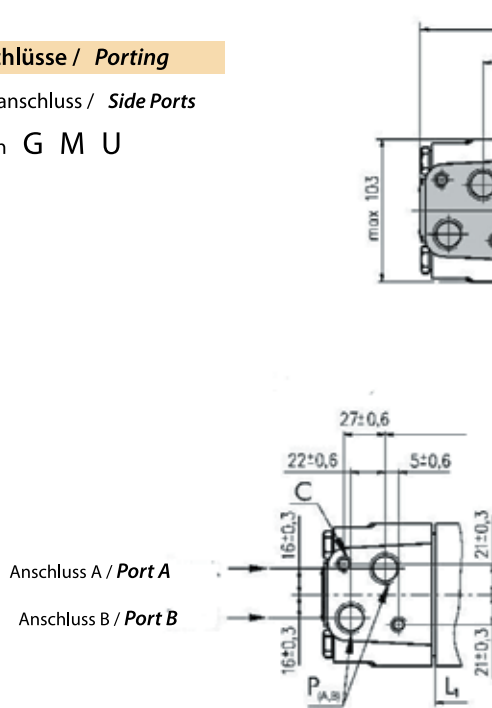
		Max. cont.			Max. Int.			
		35	70	90	100	120	140	
15		18.5	36.2	47.4	51.2	58.8	66.0	daNm
		<b>40</b>	<b>39</b>	<b>38</b>	<b>37</b>	<b>35</b>	<b>33</b>	RPM
30		18.4	36.4	47.5	51.4	59.0	66.1	
		<b>80</b>	<b>78</b>	<b>77</b>	<b>76</b>	<b>74</b>	<b>72</b>	
40		18.0	36.2	47.3	51.3	58.8	65.9	
		<b>106</b>	<b>104</b>	<b>103</b>	<b>102</b>	<b>100</b>	<b>97</b>	
50		16.0	36.0	47.2	51.1	58.6	65.8	
		<b>133</b>	<b>131</b>	<b>130</b>	<b>129</b>	<b>128</b>	<b>125</b>	
60		15.0	35.9	47.1	51.0	58.5	65.7	
		<b>157</b>	<b>156</b>	<b>155</b>	<b>154</b>	<b>152</b>	<b>150</b>	
Max. cont. 75		13.0	35.3	46.5	50.4	58.4	65.1	
		<b>200</b>	<b>198</b>	<b>196</b>	<b>195</b>	<b>194</b>	<b>193</b>	
Max. int. 90		10.5	35.0	46.2	50.0	58.0	64.7	
		<b>238</b>	<b>235</b>	<b>234</b>	<b>232</b>	<b>230</b>	<b>227</b>	

## Abmessungen

### Anschlüsse / Porting

Seitenanschluss / Side Ports

Version G M U



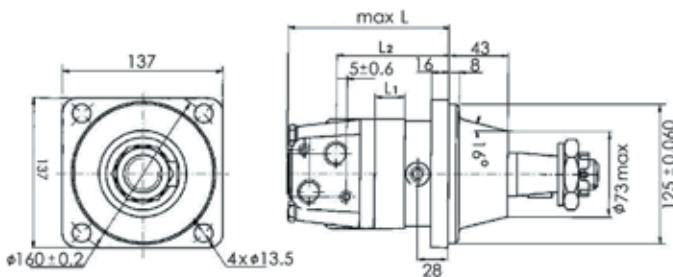
Anschluss A / Port A

Anschluss B / Port B

E Endanschluss auf Anfrage / Rear ports on request

Anschluss / Port	Versionen / Versions		
	Leer / Omit	M	U
P(A,B)	G 1/2"	M22 x 1,5	7/8-14 O-Ring
T	G 1/4"	M14 x 1,5	7/16-20 UNF
C	2 x M10	2 x M10	5/16-18 UNC

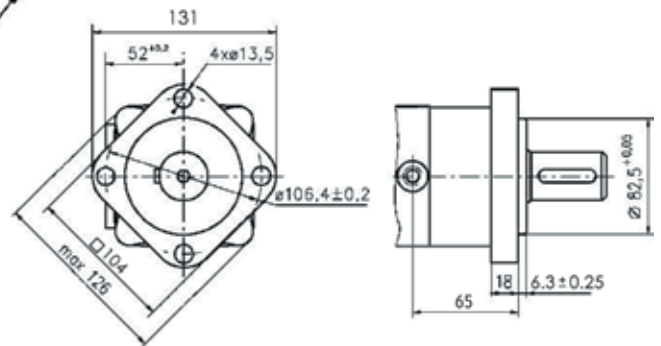
W Radflansch / Wheelflange



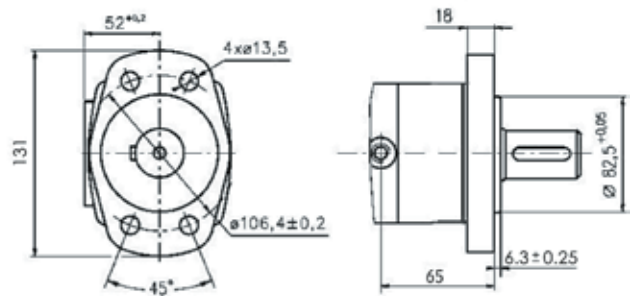
Typ / Type	L	L <sub>2</sub>	Typ / Type	L	L <sub>2</sub>	Typ / Type	L	L <sub>2</sub>	L <sub>1</sub>
FFPMS(F) 80	167	123.2	FFPMSW 80	129.4	86	FFPMSQ 80	179	135.2	13
FFPMS(F) 100	171	127.2	FFPMSW 100	133.4	90	FFPMSQ 100	183	139.2	17
FFPMS(F) 125	176	132.2	FFPMSW 125	138.4	95	FFPMSQ 125	188	144.2	22
FFPMS(F) 160	181.5	137.7	FFPMSW 160	143.9	100.5	FFPMSQ 160	193.5	149.7	27.5
FFPMS(F) 200	189	145.2	FFPMSW 200	151.4	108	FFPMSQ 200	201	157.7	35.1
FFPMS(F) 250	201	157.2	FFPMSW 250	163.4	120	FFPMSQ 250	213	169.2	47
FFPMS(F) 315	213	169.2	FFPMSW 315	175.4	132	FFPMSQ 315	225	181.2	59
FFPMS(F) 400	225	181.2	FFPMSW 400	187.4	144	FFPMSQ 400	237	193.2	71

## Dimensions

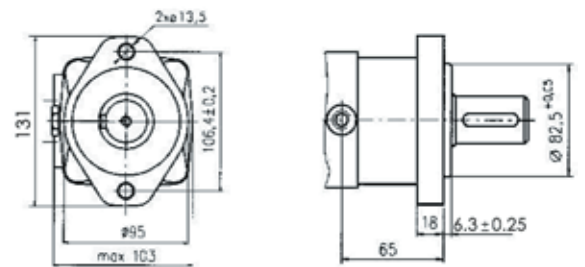
Quadratflansch SAE A / Square flange SAE A



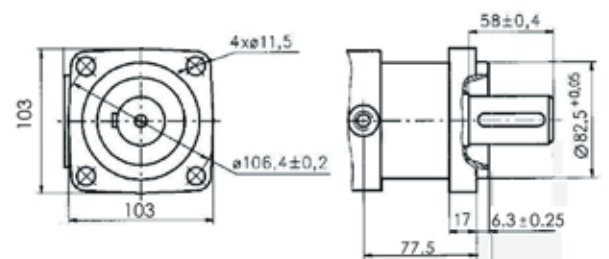
F Magneto Flansch / Magneto Mount (4-Loch / 4 holes)



A- Ovalflansch / Oval Mount SAE A (2-Loch / 2 holes)



Q Quadratflansch / Square flange (4 Schrauben / 4 bolts)

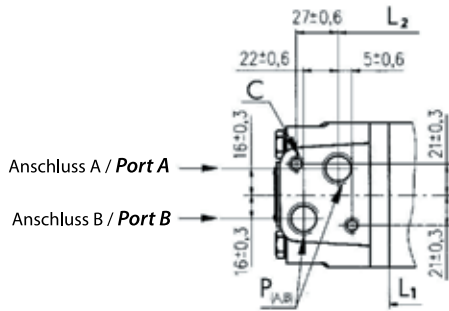
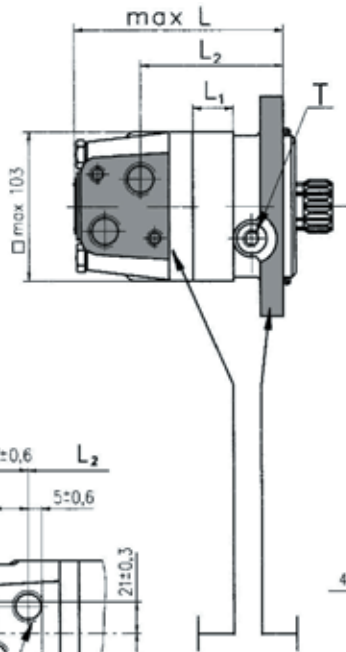


## Abmessungen

### Anschlüsse / Porting

Seitenanschluss / Side Ports

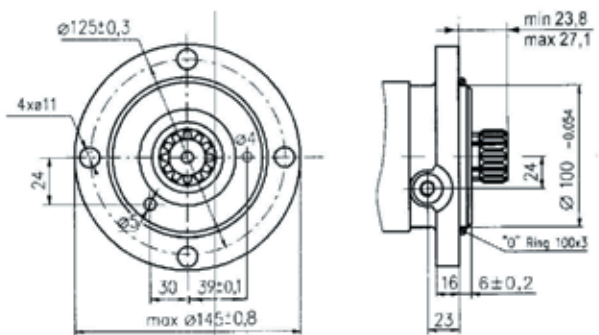
Version G M U



## Dimensions

Typ / Type	L	L <sub>2</sub>	L <sub>1</sub>
FFPMSS 80	130	86	13
FFPMSS 100	134	90	17
FFPMSS 125	139	95	22
FFPMSS 160	144.5	100.5	27.5
FFPMSS 200	152	108	35.1
FFPMSS 250	164	120	47
FFPMSS 315	176	132	59
FFPMSS 400	188	144	71

### S Kurzversion / Short Mount



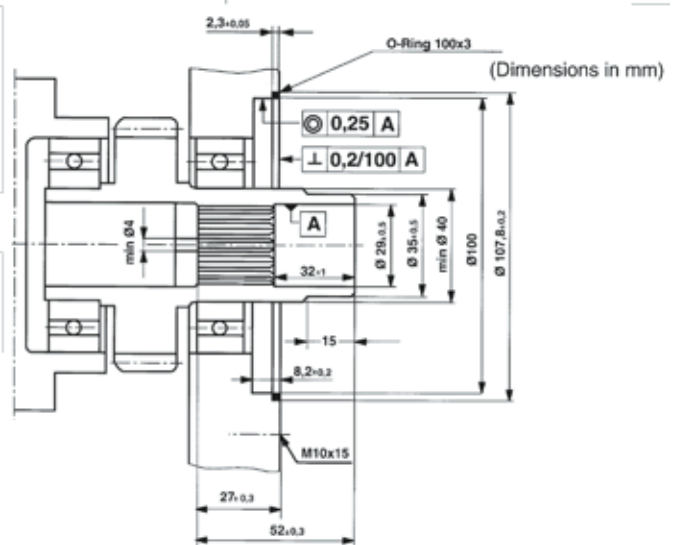
Anschluss / Port	Versionen / Versions		
	Leer / Omit	M	U
P(A,B)	G 1/2"	M22 x 1,5	7/8-14 O-Ring
T	G 1/4"	M14 x 1,5	7/16-20 UNF
C	2 x M10	2 x M10	5/16-18 UNC

### Technik / Technical

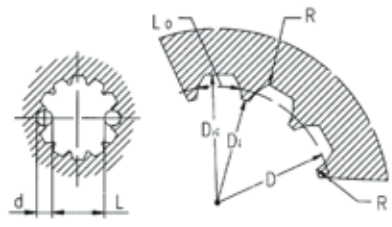
Der Kurzmotor FFPMS hat keine Abtriebswelle bzw. Lagerung und ist zur direkten Montage an ein Getriebe bzw. an eine Bremse konzipiert worden.

Die Kardanwelle führt eine taumelnde Bewegung durch, daher ist die Montage eines Wellendichtringes nicht möglich. Das Getriebe muss eine entsprechende Abdichtung besitzen. Außerdem muss es so konstruiert werden, dass das Lecköl des Motors die Schmierung der Kardanwelle übernimmt. / *The short motor FFPMS has no output shafts or bearings and is designed for a direct mounting into a gearbox or brake.*

*The cardan shaft of the motor describes a tumbling motion. For this reason the motor itself can't be fitted with a shaft seal. The gear box must be fitted with a sealing. It is also necessary that the leakage of the motor lubricates the cardan shaft.*



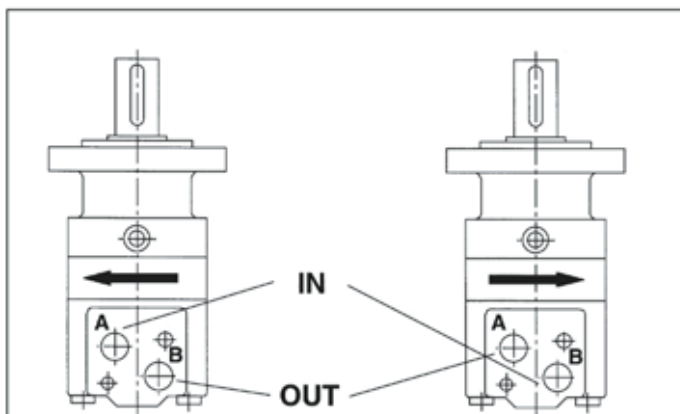
Verzahnungsgeometrie / Fillet Root Side Fit		mm
Zähnezahl / Number of Teeth	z	12
Steigung / Diametral Pitch	DP	12/24
Anpresswinkel / Pressure Angle	$\alpha_0$	30°
Nenn Durchmesser / Pitch Dia.	D	25.4
Hauptdurchmesser / Major Dia.	D <sub>ri</sub>	28.0 <sup>-0.1</sup>
Zahngrund / Minor Dia.	D <sub>i</sub>	23.0 <sup>+0.033</sup>
Abstand Zahngrund / Space Width (Circular)	L <sub>0</sub>	4.308±0.020



### Härtenspezifikation / Hardening Specification:

HRC 60±2

Effektive Härtentiefe / Effective case depth (HRC 52): 0,7±0,2mm



## Drehrichtungsauswahl Rotation selection

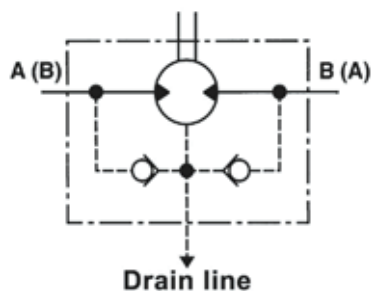
Unser Motor FFPMS besitzt integrierte Rückschlagventile, dadurch wird der Druck auf den Wellendichtring nie größer als der Rücklaufdruck. Beim Short-Motor FFPMS ist der Druck durch die technischen Daten des Anbaugesetriebes begrenzt. / *The FFPMS motor has built-in check valves. For this reason, the pressure on the shaft seal is never greater than back flow pressure. In the short motor FFPMS pressure is determined based on the technical data of the attached gear box.*

Max. Rücklaufdruck ohne Leckölleitung bzw. max. Druck in der Leckölleitung / *Max. return pressure without drain line or max. pressure in drain line*

Drehzahl/ RPM	Dauerdruck / cont. Pressure (bar)
0-100	75
100-300	50
300-1000	20

Max. Rücklaufdruck mit Leckölleitung / *Max. return pressure with drain line*

Dauerbetrieb / <i>Continuous</i>	140 bar
Kurzzeitig / <i>Intermittent</i>	175 bar
Spitze / <i>Peak</i>	210 bar



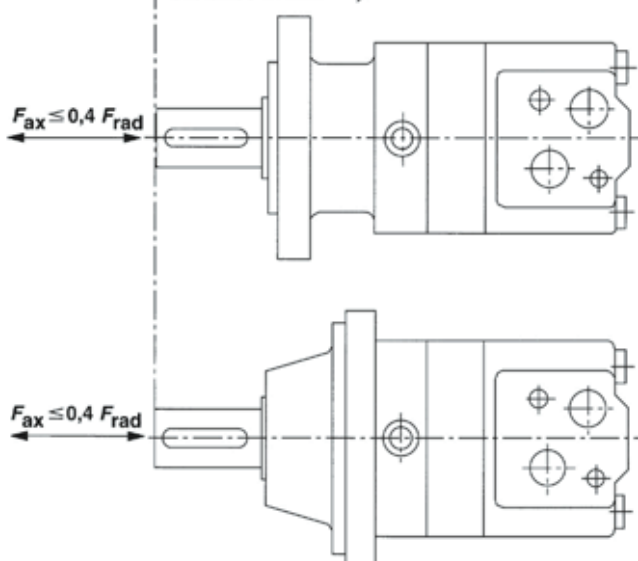
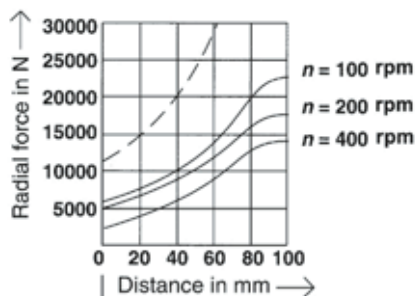
## Wellenbelastung Shaft Load

Durch die integrierten Schrägrollenlager sind die Motoren vom Typ FFPMS in der Lage hohe Axial- und Radialkräfte aufzunehmen. Die gestrichelte Linie im seitlichen Diagramm zeigt die maximal zulässige Radialkraft. Belastungen oberhalb dieser Grenze können zum Bruch der Welle führen. Die durchgezogenen Linien zeigen die zulässigen Radialbelastungen bei einer Lebensdauer von 3000h in Abhängigkeit von der Drehzahl.



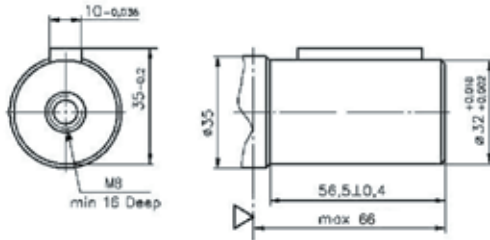
*The tapered roller bearings on the output shaft can accept high levels of axial and radial load. The broken*

*curve shows the maximum permissible radial load. Loads above and beyond this level can lead to breakage. The solid curve plots the permissible radial loads for a theoretical service life of 3000 hours depending on the shaft rotation speed.*

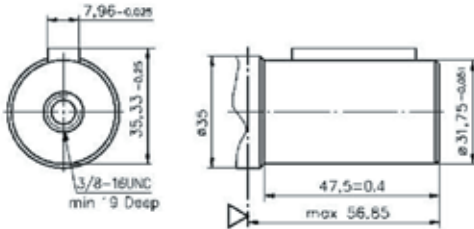


## Abtriebswellen

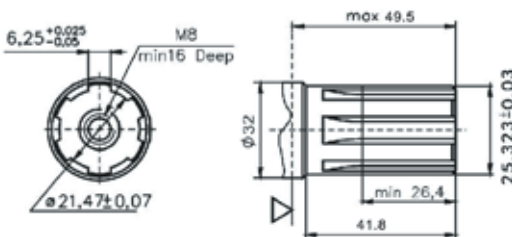
**C** - Ø 32 mm zylindrisch mit Passfeder A10 x 8 x 45 Max. Drehmoment: 77 daNm / Ø 32 mm straight, parallel key A10 x 8 x 45. Max. torque: 77 daNm



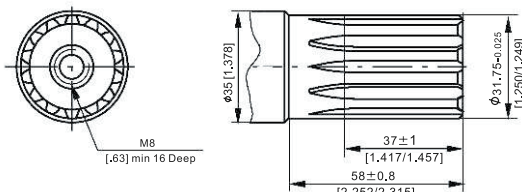
**CO** - Ø 31,75 mm (1 1/4") zylindrisch mit Passfeder 5/16" x 5/16" x 1 1/4" BS46. Max. Drehmoment: 77 daNm / Ø 31,75 mm (1 1/4") straight, parallel key 5/16" x 5/16" x 1 1/4" BS46. Max. torque: 77 daNm



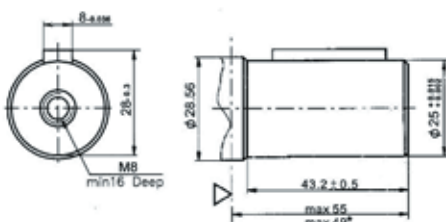
**S** - verzahnt (SAE 6B). Max. Drehmoment: 34 daNm / splined, (SAE 6B). Max. torque: 34 daNm



**SH** - Ø 31,75 mm (1 1/4") verzahnt, 14 Zähne, DP 12/24. Max. Drehmoment: 95 daNm / Ø 31,75 mm (1 1/4") splined, 14T, DP 12/24. Max. torque: 95 daNm

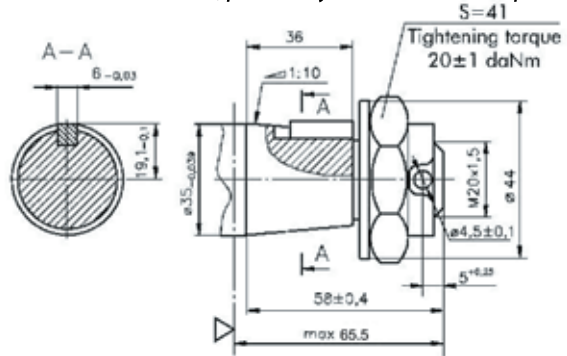


**C25** - Ø 25 mm zylindrisch mit Passfeder A8 x 7 x 32. Max. Drehmoment: 34 daNm / Ø 25mm straight, parallel key A8 x 7 x 32. Max. torque: 34 daNm

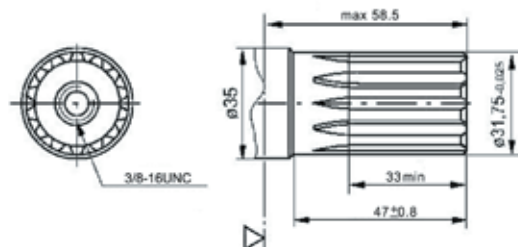


## Output shafts

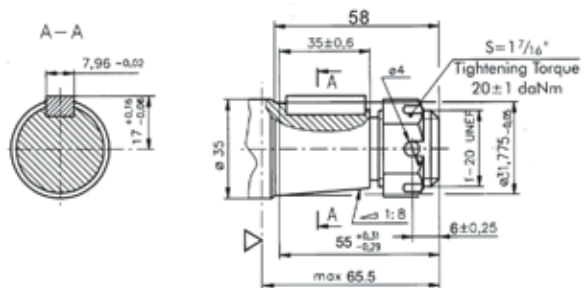
**K** - Kon. 1:10 mit Passfeder B6 x 6 x 20. Max. Drehmoment: 95 daNm / conical 1:10, parallel key B6 x 6 x 20. Max. torque: 95 daNm



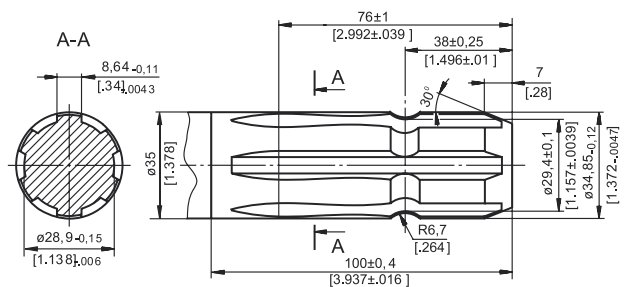
**SB** - Ø 1 1/4" verzahnt, 14 Zähne, ANSI B92.1-1976. Max. Drehmoment: 77 daNm / Ø 1 1/4" splined, 14T, ANSI B92.1-1976. Max. torque: 77 daNm



**KA** - Kon. 1:8, SAE J 501, mit Passfeder 5/16" x 5/16" x 1 1/4". Max. Drehmoment: 77 daNm / conical 1:8, SAE J 501, parallel key 5/16" x 5/16" x 1 1/4". Max. torque: 77 daNm



**SL** - Ø 34,75, P.T.O DIN 9611 Form 1. Max. Drehmoment: 77 daNm / Ø 31,75, P.T.O DIN 9611 Form 1. Max. torque: 77 daNm



## Bestellinformationen

	1	2	3	4	5	6	7
<b>FFPMS</b>							

### Pos. 1 Montageflansch / Mounting flange

Leer / Omit	Quadratflansch 4-loch, SAE A / Square flange 4-holes SAE A
F	Magnetoflansch 4-loch / Magneto mount 4 holes
A	Ovalflansch 2-loch SAE A / Oval flange 2 holes SAE A
Q	Quadratflansch, 4-loch / Square flange 4 holes
W	Radflansch / Wheel mount
S	Kurzversion / Short mount

### Pos. 2 Anschlüsse / Port type

Leer / Omit	Seitl. Anschlüsse / Side ports
E	Endanschlüsse (auf Anfrage) / Rear ports (on requests)

### Pos.3 Schluckvolumen / Displacement

80	80 cm <sup>3</sup> /U / 80 ccm/REV
100	100 cm <sup>3</sup> /U / 100 ccm/REV
125	125 cm <sup>3</sup> /U / 125 ccm/REV
160	160 cm <sup>3</sup> /U / 160 ccm/REV
200	200 cm <sup>3</sup> /U / 200 ccm/REV
250	250 cm <sup>3</sup> /U / 250 ccm/REV
315	315 cm <sup>3</sup> /U / 315 ccm/REV
400	400 cm <sup>3</sup> /U / 400 ccm/REV

### Pos. 4 Wellenausführungen / Shaft extensions

C	Ø 32 mm zylindrisch mit Passfeder A10 x 8 x 45 Ø 32 mm straight, parallel key A10 x 8x 45.
CO	Ø 31,75 mm (1 1/4") zylindrisch mit Passfeder 5/16" x 5/16" x 1 1/4" Ø 31,75 mm (1 1/4") straight, parallel key 5/16" x 5/16" x 1 1/4"
S	verzahnt SAE 6B / splined SAE 6B

## Order Information

SH	Ø 31,75 mm (1 1/4") verzahnt, 14 Zähne, DP 12/24 / Ø 31,75 mm (1 1/4") splined, 14T, DP 12/24.
C25	Ø 25 mm zylindrisch mit Passfeder A8 x 7 x 32 / Ø25 mm cylindrical parallel key A8 x 7 x 32
K	Konisch 1:10 mit Passfeder B6 x 6 x 20 / Conical 1:10 with key B6 x 6 x 20
SB	Verzahnt 14 Zähne, DP 12/24 / splined, 14 T, DP 12/24
KA	Konisch 1:8 SAE, J501 mit Passfeder 5/16" x 5/16" x 1 1/4" / Conical 1:8 SAE, J501 with key 5/16" x 5/16" x 1 1/4"
SL	Ø 34,75 mm P.T.O. DIN 9611 Form 1 / Ø 34,75 mm P.T.O. DIN 9611 Form 1

### Pos. 5 Anschlüsse / Porting

Leer / Omit	G 1/2" / G 1/2"
M	Metrisch / Metric
U	7/8-14 UNF, O-Ring / 7/8-14 UNF, O-ring
P	1/2-14 NPTF / 1/2-14 NPTF

### Pos. 6 Farbe / Painting

Leer / Omit	Grau / Grey
RAL...	+ Ralfarbe (z.B. 7021) / + Ral colour (e.g. 7021)

### Pos. 7 Drehrichtung / Rotation direction

Leer / Omit	Standarddrehrichtung / Standard Rotation
R	Umgekehrte Drehrichtung / Reverse Rotation



# HYDRAULIC MOTOR PRICE LIST - BUILD YOUR OWN

## FFPMS HYDRAULIC MOTORS

STANDARD: OPTIONS INCLUDED FFPMS	PART NUMBER	PRICE
SIDE PORTS: 2 X G 1/2" (BSP)	FFPMS 80	£243.61
SHAFT TYPE "C" Ø 32MM OR "CO" Ø 31,75MM	FFPMS 100	£246.32
SHAFT TYPE "S" (SAE 6B)	FFPMS 125	£249.15
FLANGE TYPE SAE "A" TYPE "F"	FFPMS 160	£252.12
FLANGE TYPE SAE "A" TYPE "A"	FFPMS 200	£255.20
MAGNETO TYPE FLANGE 4-HOLES	FFPMS 250	£265.61
	FFPMS 315	£285.95
	FFPMS 400	£306.77
<b>OPTIONAL EXTRAS FFPMS</b>		
SPLINED Ø 31,75 12/24 D.PITCH, 30°, Z/T = 14	SH/ SB: ADD	£5.27
TAPERED SHAFT 1:10, Ø 35	TB =K : ADD	£4.27
TAPERED SHAFT 1:8, SAE J501	TA (KA) :ADD	£4.27
P.T.O. SHAFT TIME1 3/8" 6 SPLIND MALE SHAFT	SL : ADD	£10.68
SEAL KIT FFPMH	SEAL KIT FFPMH	£30.34
<b>FLANGE OPTION EXTRAS FFPMS</b>		
SQUARE FLANGE	Q : ADD	£2.78
WHEEL FLANGE	W: ADD	£7.90
SHORT VERSION "S"	S : MUNUS	£21.36
ULTRA SHORT VERSION "Z"	Z: (CPMSU) MINUS	£21.36
SEAL KIT FFPMS	SEAL KIT FFMS	£30.34

# HYDRAULIC MOTOR PRICE LIST - COMPLETE

PART NUMBER	DESCRIPTION	PRICE
FFPMS100C	HYDRAULIC MOTOR FFPMS100C, 99,8 CCM/REV, SHAFT 32MM, 4-HOLE FLANGE, G 1/2 INCH	£246.33
FFPMS100C25	HYDRAULIC MOTOR FFPMS100C25, 99,8 CCM/REV, SHAFT 25MM, 4-HOLE FLANGE, G 1/2 INCH	£246.33
FFPMS100SB	HYDRAULIC MOTOR FFPMS100SB, 99,8 CCM/REV, SPLINED 1 1/4" 12/24 D.PITCH, 30°, Z/T = 14,	£251.69
FFPMS100SH	HYDRAULIC MOTOR FFPMS100SH, 99,8 CCM/REV, SPLINED 31,75 12/24 D.PITCH, 30°, Z/T = 14, G 1/2 INCH	£251.69
FFPMS100SL	HYDRAULIC MOTOR FFPMS100SL, 99,8 CCM/REV, P.T.O. SHAFT 1 3/8", G 1/2 INCH	£257.01
FFPMS125C	HYDRAULIC MOTOR FFPMS125C, 125,2 CCM/REV, SHAFT 32MM, 4-HOLE FLANGE, G 1/2 INCH	£249.15
FFPMS125C25	HYDRAULIC MOTOR FFPMS125C25, 125,2 CCM/REV, 25MM WELLE, G 1/2 INCH	£249.15
FFPMS125SH	HYDRAULIC MOTOR FFPMS125SH, 125,2 CCM/REV, SPLINED 31,75 12/24 D.PITCH, 30°, Z/T = 14, G 1/2 INCH	£254.50
FFPMS125SL	HYDRAULIC MOTOR FFPMS125SL, 125,2 CCM/REV, P.T.O. SHAFT 1 3/8", G 1/2 INCH	£259.83
FFPMS160C	HYDRAULIC MOTOR FFPMS160C, 159,5 CCM/REV, SHAFT 32MM, 4-HOLE FLANGE, G 1/2 INCH	£249.15
FFPMS160S	HYDRAULIC MOTOR FFPMS160SH, 159,5 CCM/REV, SPLINED SAE 6B, G 1/2 INCH	£252.12
FFPMS160SH	HYDRAULIC MOTOR FFPMS160SH, 159,5 CCM/REV, SPLINED 31,75 12/24 D.PITCH, 30°, Z/T = 14, G 1/2 INCH	£257.46
FFPMS160SL	HYDRAULIC MOTOR FFPMS160SL, 159,5 CCM/REV, P.T.O. SHAFT 1 3/8", G 1/2 INCH	£262.80
FFPMS200C	HYDRAULIC MOTOR FFPMS200C, 200 CCM/REV, SHAFT 32MM, 4-HOLE FLANGE, G 1/2 INCH	£255.18
FFPMS200C25	HYDRAULIC MOTOR FFPMS200C25, 99,8 CCM/REV, SHAFT 25MM, 4-HOLE FLANGE, G 1/2 INCH	£255.18
FFPMS200S	HYDRAULIC MOTOR FFPMS200S, 200,0 CCM/REV, SPLINED SAE 6B, G 1/2 INCH	£255.18
FFPMS200SH	HYDRAULIC MOTOR FFPMS200SH, 200,0 CCM/REV, SPLINED 31,75, 4-HOLE FLANGE, G 1/2 INCH	£259.01
FFPMS200SL	HYDRAULIC MOTOR FFPMS200SL, 200,0 CCM/REV, P.T.O. SHAFT 1 3/8", G 1/2 INCH"	£259.01
FFPMS250C	HYDRAULIC MOTOR FFPMS250C, 252,3 CCM/REV, SHAFT 32MM, 4-HOLE FLANGE, G 1/2 INCH	£265.61
FFPMS250K	HYDRAULIC MOTOR FFPMS250K, 252,3 CM3/U, CONIC SHAFT 1:10, Ø 35, 4-HOLE SAE A FLANGE, G1/2 INCH	£269.88
FFPMS250SH	HYDRAULIC MOTOR FFPMS250SH, 252,3 CCM/REV, SPLINED 31,75 12/24 D.PITCH, 30°, Z/T = 14, G 1/2 INCH	£270.97
FFPMS250SL	HYDRAULIC MOTOR FFPMS250SL, 252,3 CCM/REV, P.T.O. SHAFT 1 3/8", G 1/2 INCH	£276.30
FFPMS315C	HYDRAULIC MOTOR FFPMS315C, 315,1 CCM/REV, SHAFT 32MM, 4-HOLE FLANGE, G 1/2 INCH	£285.94
FFPMS315K	HYDRAULIC MOTOR FFPMS315K, 315,1 CM3/U, CONIC SHAFT 1:10, Ø 35, 4-HOLE SAE A FLANGE, G1/2 INCH	£290.21
FFPMS315SBU	HYDRAULIC MOTOR FFPMS315SBU, 315,1 CCM/REV, SPLINED 1 1/4" 12/24 D.PITCH, 30°, Z/T = 14, 7/8-14UNF	£285.94
FFPMS315SH	HYDRAULIC MOTOR FFPMS315SH, 315,1 CCM/REV, SPLINED 31,75 12/24 D.PITCH, 30°, Z/T = 14, G 1/2 INCH	£291.27
FFPMS315SL	HYDRAULIC MOTOR FFPMS315SL, 315,1 CCM/REV, P.T.O. SHAFT 1 3/8", G 1/2 INCH	£296.62
FFPMS400C	HYDRAULIC MOTOR FFPMS400C, 397 CCM/REV, SHAFT 32MM, 4-HOLE FLANGE, G 1/2 INCH	£306.76
FFPMS400C25	HYDRAULIC MOTOR FFPMS400C25, 397,0 CCM/REV, SHAFT 25MM, 4-HOLE FLANGE, G 1/2 INCH	£306.76
FFPMS400S	HYDRAULIC MOTOR FFPMS400S, 397 CCM/REV, SAE 6B SHAFT 1 3/8", G 1/2 INCH	£306.76
FFPMS400SH	HYDRAULIC MOTOR FFPMS400SH, 397 CCM/REV, SPLINED 31,75 12/24 D.PITCH, 30°, Z/T = 14, G 1/2 INCH	£312.11
FFPMS400SL	HYDRAULIC MOTOR FFPMS400SL, 397 CCM/REV, P.T.O. SHAFT 1 3/8", G 1/2 INCH	£317.44
FFPMS80C	HYDRAULIC MOTOR FFPMS80C, 80,8 CCM/REV, SHAFT 32MM, 4-HOLE FLANGE, G 1/2 INCH	£243.61
FFPMS80SH	HYDRAULIC MOTOR FFPMS80SH, 80,8 CCM/REV, SPLINED 31,75 12/24 D.PITCH, 30°, Z/T = 14, G 1/2 INCH	£248.96
FFPMS80SL	HYDRAULIC MOTOR FFPMS80SL, 80,8 CCM/REV, P.T.O. SHAFT 1 3/8", G 1/2 INCH	£254.29
FFPMSA100C	HYDRAULIC MOTOR FFPMSA100C, 98,6 CCM/REV, SHAFT 32MM, 2-HOLE FLANGE SAE A, G 1/2 INCH	£246.33
FFPMSA100C25	HYDRAULIC MOTOR FFPMSA100C25, 99,8 CCM/REV, SHAFT 25MM, 2-HOLE FLANGE SAE A, G 1/2 INCH	£246.33

PART NUMBER	DESCRIPTION	PRICE
FFPMSA125C	HYDRAULIC MOTOR FFPMSA125C, 125,2 CCM/REV, SHAFT 32MM, 2-HOLE FLANGE SAE A, G 1/2 INCH	£249.15
FFPMSA125C25	HYDRAULIC MOTOR FFPMSA125C25, 125,2 CCM/REV, SHAFT 25MM, 2-HOLE FLANGE SAE A, G 1/2 INCH	£249.15
FFPMSA160C	HYDRAULIC MOTOR FFPMSA160C, 159,5 CCM/REV, SHAFT 32MM, 2-HOLE FLANGE SAE A, G 1/2 INCH	£252.12
FFPMSA160C25	HYDRAULIC MOTOR FFPMSA160C25, 159,5 CCM/REV, SHAFT 25MM, 2-HOLE FLANGE SAE A, G 1/2 INCH	£252.12
FFPMSA200C	HYDRAULIC MOTOR FFPMSA200C, 201,2 CCM/REV, SHAFT 32MM, 2-HOLE FLANGE SAE A, G 1/2 INCH	£254.04
FFPMSA200C25	HYDRAULIC MOTOR FFPMSA200C25, 200 CCM/REV, SHAFT 25MM, 2-HOLE FLANGE SAE A, G 1/2 INCH	£254.04
FFPMSA250C	HYDRAULIC MOTOR FFPMSA250C, 252,3 CCM/REV, SHAFT 32MM, 2-HOLE FLANGE SAE A, G 1/2 INCH	£265.61
FFPMSA250C25	HYDRAULIC MOTOR FFPMSA250C25, 252,3 CCM/REV, SHAFT 25MM, 2-HOLE FLANGE, G 1/2 INCH	£265.61
FFPMSA315C25	HYDRAULIC MOTOR FFPMSA315C25, 315,1 CCM/REV, SHAFT 25MM, 2-HOLE FLANGE, G 1/2 INCH	£285.94
FFPMSA315KA	HYDRAULIC MOTOR FFPMSA315KA, 315,1 CCM/REV, TAPERED SHAFT 1:8, 2-HOLE FLANGE SAE A, G 1/2 INCH	£290.21
FFPMSA400S	HYDRAULIC MOTOR FFPMSA400S, 397,0 CCM/REV, SPLINED SAE6B, Z/T = 6	£306.76
FFPMSA400SBU	HYDRAULIC MOTOR FFPMSA400SBU, 397,0 CCM/REV, SPLINED 1 1/4" 12/24 D.PITCH, 30°, Z/T = 14, 7/8-14UNF	£306.76
FFPMSA80C	HYDRAULIC MOTOR FFPMSA80C, 99,8 CCM/REV, SHAFT 32MM, 2-HOLE FLANGE SAE A, G 1/2 INCH	£243.61
FFPMSA80C25	HYDRAULIC MOTOR FFPMSA80C25, 99,8 CCM/REV, SHAFT 25MM, 2-HOLE FLANGE SAE A, G 1/2 INCH	£243.61
FFPMSF100C	HYDRAULIC MOTOR FFPMSF100C, 99,8 CCM/REV, SHAFT 32MM, 4-HOLE MAGNETO FLANGE SAE A, G 1/2 INCH	£246.33
FFPMSF125C	HYDRAULIC MOTOR FFPMSF125C, 125,2 CCM/REV, SHAFT 32MM, 4-HOLE FLANGE, G 1/2 INCH	£249.15
FFPMSF160C	HYDRAULIC MOTOR FFPMSF160C, 159,5 CCM/REV, SHAFT 32MM, 4-HOLE MAGNETO FLANGE SAE A, G 1/2 INCH	£252.12
FFPMSF200C	HYDRAULIC MOTOR FFPMSF200C, 200 CCM/REV, SHAFT 32MM, 4-HOLE MAGNETO FLANGE, G 1/2 INCH	£254.04
FFPMSF200C25	HYDRAULIC MOTOR FFPMSF200C25, 200,0 CCM/REV, SHAFT 25MM, 4-HOLE MAGNETO FLANGE, G 1/2 INCH	£255.18
FFPMSF315C	HYDRAULIC MOTOR FFPMSF315C, 316,8 CCM/REV, SHAFT 32MM, 4-HOLE MAGNETO FLANGE, G 1/2 INCH	£285.94
FFPMSF315C25	HYDRAULIC MOTOR FFPMSF315C25, 315,8 CCM/REV, SHAFT 25MM, 4-HOLE MAGNETO FLANGE, G 1/2 INCH	£285.94
FFPMSF315SH	HYDRAULIC MOTOR FFPMSF315SH, 315,1 CCM/REV, SPLINED SHAFT Ø31,75, 4-HOLE MAGNETO FLANGE, G 1/2 INCH	£291.30
FFPMSS100	HYDRAULIC MOTOR SHORT FFPMS100, 99,8 CCM/REV, G 1/2 INCH	£224.97
FFPMSS125	HYDRAULIC MOTOR SHORT FFPMS125, 125,2 CCM/REV, G 1/2 INCH	£227.79
FFPMSS160	HYDRAULIC MOTOR SHORT FFPMS160, 159,5 CCM/REV, G 1/2 INCH	£230.76
FFPMSS200	HYDRAULIC MOTOR SHORT FFPMS200, 200 CCM/REV, G 1/2 INCH	£233.83
FFPMSS250	HYDRAULIC MOTOR SHORT FFPMS250, 252,2 CCM/REV, G 1/2 INCH	£244.27
FFPMSS315	HYDRAULIC MOTOR SHORT FFPMS315, 315,1 CCM/REV, G 1/2 INCH	£264.57
FFPMSS400	HYDRAULIC MOTOR SHORT FFPMS400, 397,0 CCM/REV, G 1/2 INCH	£285.41
FFPMSS80	HYDRAULIC MOTOR SHORT FFPMS80, 80,8 CCM/REV, G 1/2 INCH	£222.26
FFPMSU125	HYDRAULIC MOTOR ULTRA-SHORT FFPMSU125, 125,2 CCM/REV, G 1/2 INCH	£227.79
FFPMSU160	HYDRAULIC MOTOR ULTRA-SHORT FFPMSU160, 159,5 CCM/REV, G 1/2 INCH	£230.77
FFPMSU200	HYDRAULIC MOTOR ULTRA-SHORT FFPMSU200, 200 CCM/REV, G 1/2 INCH	£233.83
FFPMSU250	HYDRAULIC MOTOR ULTRA-SHORT FFPMSU250, 252,3 CCM/REV, G 1/2 INCH	£244.27
FFPMSU315	HYDRAULIC MOTOR ULTRA-SHORT FFPMSU315, 315,1 CCM/REV, G 1/2 INCH	£264.59
FFPMSU400	HYDRAULIC MOTOR ULTRA-SHORT FFPMSU400, 397,0 CCM/REV, G 1/2 INCH	£285.41
FFPMSW100C	HYDRAULIC MOTOR FFPMSW100C, 99,8 CCM/REV, CYL. SHAFT 32MM, WHEEL FLANGE, G 1/2 INCH,	£254.24
FFPMSW100K	HYDRAULIC MOTOR FFPMSW100K, 99,8 CCM/REV, CONICAL SHAFT 1:10, WHEEL FLANGE, G 1/2 INCH,	£258.49
FFPMSW125C	HYDRAULIC MOTOR FFPMSW125C, 125,2 CCM/REV, CYL. SHAFT 32MM, WHEEL FLANGE, G 1/2 INCH,	£257.05
FFPMSW125K	HYDRAULIC MOTOR FFPMSW125K, 125,2 CCM/REV, CONICAL SHAFT 1:10, WHEEL FLANGE, G 1/2 INCH,	£261.31
FFPMSW160C	HYDRAULIC MOTOR FFPMSW160C, 159,5 CCM/REV, CYL. SHAFT 32MM, WHEEL FLANGE, , G 1/2 INCH	£260.02
FFPMSW160K	HYDRAULIC MOTOR FFPMSW160K, 159,5 CCM/REV, CONICAL SHAFT 1:10, WHEEL FLANGE, G 1/2 INCH,	£264.28
FFPMSW200C	HYDRAULIC MOTOR FFPMSW200C, 200,0 CCM/REV, CYL. SHAFT 32MM, WHEEL FLANGE, , G 1/2 INCH	£263.08
FFPMSW200K	HYDRAULIC MOTOR FFPMSW200K, 200,0 CCM/REV, CONICAL SHAFT 1:10, WHEEL FLANGE, G 1/2 INCH,	£267.34
FFPMSW250C	HYDRAULIC MOTOR FFPMSW250C, 252,3 CCM/REV, CYL. SHAFT 32MM, WHEEL FLANGE, , G 1/2 INCH	£273.51
FFPMSW250K	HYDRAULIC MOTOR FFPMSW250K, 252,3 CCM/REV, CONICAL SHAFT 1:10, WHEEL FLANGE, G 1/2 INCH,	£277.77
FFPMSW315C	HYDRAULIC MOTOR FFPMSW315C, 315,1 CCM/REV, CYL. SHAFT 32MM, WHEEL FLANGE, , G 1/2 INCH	£293.83
FFPMSW315K	HYDRAULIC MOTOR FFPMSW315K, 315,1 CCM/REV, CONICAL SHAFT 1:10, WHEEL FLANGE, G 1/2 INCH,	£298.10
FFPMSW315KA	HYDRAULIC MOTOR FFPMSW315KA, 315,1 CCM/REV, CONICAL SHAFT 1:8, WHEEL FLANGE, G 1/2 INCH,	£298.10
FFPMSW400C	HYDRAULIC MOTOR FFPMSW400C, 397,0 CCM/REV, CYL. SHAFT 32MM, WHEEL FLANGE, , G 1/2 INCH	£314.66
FFPMSW400K	HYDRAULIC MOTOR FFPMSW400K, 397,0 CCM/REV, TAPERED SHAFT 1:10, WHEEL FLANGE, G 1/2 INCH	£318.93
FFPMSW80C	HYDRAULIC MOTOR FFPMSW80C, 80,8 CCM/REV, CYL. SHAFT 32MM, WHEEL FLANGE, , G 1/2 INCH	£251.52
FFPMSW80K	HYDRAULIC MOTOR FFPMSW80K, 80,8 CCM/REV, CONICAL SHAFT 1:10, WHEEL FLANGE, G 1/2 INCH,	£255.77

## FFPMSY Hydraulik Motor

- Verstärkte Version
- Modell Verteilerventil mit Geroller
- Geringes Startmoment und hoher Wirkungsgrad
- Höhere Druckfestigkeit
- Internes Rückschlagventil
- Verwendung ohne Leckölanschluss möglich
- Schrägrollenlager für hohe Radialbelastung



## FFPMSY Hydraulic Motor

- Reinforced version
- Disk valve type with geroler
- Low starting torque and high efficiency
- Designed for higher pressure
- Internal check valve
- Usage without drain line possible
- Tapered roller bearing for high radial load

TYP / Type		FFPMSY	FFPMSY	FFPMSY	FFPMSY	FFPMSY	FFPMSY
		160	200	250	315	400	475
Schluckvolumen / Displacement [cm <sup>3</sup> /REV]		154	194	243	311	394	475
Max. Drehzahl / Max. Speed [RPM]	Dauerbetrieb / Cont.	470	375	300	240	185	155
	Int.(1)	560	450	360	280	225	185
Max. Drehmoment / Max. Torque [daNm]	Dauerbetrieb / Cont.	48.5	58.6	70.8	88	88	91
	Int.(1)	54	64.5	80.6	96	96	96
Max. Leistungsabgabe / Max. Output Power [kW]	Dauerbetrieb / Cont.	18.1	18.1	18	17	11	9
	Int.(1)	25	24	23.8	20.2	12	11
Max. Druckgefälle / Max. Pressure Drop [bar]	Dauerbetrieb / Cont.	210	210	200	200	160	140
	Int.(1)	225	225	225	225	175	150
	Spitze / Peak (2)	225	225	225	225	200	175
Max. Ölstrom / Max. Oil flow [l/min]	Dauerbetrieb / Cont.	75	75	75	75	75	75
	Int.(1)	90	90	90	90	90	90
Max. Eingangsdruck / Max. Input Pressure [bar]	Dauerbetrieb / Cont.	250	250	250	250	250	250
	Int.(1)	300	300	300	300	300	300
Gewicht / Weight [kg]		10.7	11.1	11.6	12.3	13.2	14.3

(1) Intermittierender Betrieb max. 6 Sekunden / Minute  
 (2) Spitzenbetrieb max. 0,6 Sekunden / Minute

(1) Intermittent operation rating applies to 6 sec. of every minute  
 (2) Peak load rating applies to 0,6 sec of every minute

## Leistungsdaten

FFPMSY 160 (154 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.						Max. Int.		
		35	70	105	140	175	210	225		
Durchflussmenge / Oil flow (l/min)	15	7,0	14,2	21,5	29,8	37,2	43,5	47,6	daNm	RPM
		<b>93</b>	<b>91</b>	<b>89</b>	<b>85</b>	<b>80</b>	<b>76</b>	<b>58</b>		
	30	7,3	15,1	22,5	31,2	38,2	45,6	49,2		
<b>189</b>		<b>187</b>	<b>181</b>	<b>176</b>	<b>170</b>	<b>162</b>	<b>153</b>			
40	7,5	15,2	22,8	31,4	38,3	45,4	48,8			
	<b>252</b>	<b>250</b>	<b>246</b>	<b>239</b>	<b>234</b>	<b>228</b>	<b>212</b>			
50	7,0	14,8	22,5	30,5	37,2	44,5	48,0			
	<b>313</b>	<b>310</b>	<b>306</b>	<b>298</b>	<b>293</b>	<b>285</b>	<b>272</b>			
60	6,8	14,3	21,8	29,6	37,0	44,2	48,0			
	<b>378</b>	<b>376</b>	<b>370</b>	<b>362</b>	<b>353</b>	<b>346</b>	<b>332</b>			
Max. cont.	75	6,2	14,0	21,1	29,1	36,5	43,9	47,5		
		<b>475</b>	<b>469</b>	<b>461</b>	<b>450</b>	<b>441</b>	<b>432</b>	<b>414</b>		
Max. int.	90	5,9	13,1	20,2	28,6	35,7	42,5	46,0		
		<b>567</b>	<b>561</b>	<b>554</b>	<b>543</b>	<b>532</b>	<b>520</b>	<b>509</b>		

## Performance data

FFPMSY 200 (194 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.						Max. Int.		
		35	70	105	140	175	210	225		
Durchflussmenge / Oil flow (l/min)	15	8,7	17,9	27,3	37,1	47,1	56,2	61,0	daNm	RPM
		<b>74</b>	<b>73</b>	<b>71</b>	<b>68</b>	<b>64</b>	<b>60</b>	<b>48</b>		
	30	9,1	19,0	28,8	38,6	48,9	57,2	61,8		
<b>150</b>		<b>148</b>	<b>143</b>	<b>140</b>	<b>134</b>	<b>128</b>	<b>119</b>			
40	9,4	19,3	29,6	39,4	49,8	58,4	64,5			
	<b>198</b>	<b>195</b>	<b>192</b>	<b>188</b>	<b>183</b>	<b>178</b>	<b>167</b>			
50	9,0	19,1	29,2	38,9	49,3	58,0	63,4			
	<b>248</b>	<b>246</b>	<b>241</b>	<b>236</b>	<b>230</b>	<b>223</b>	<b>212</b>			
60	8,5	18,5	27,9	38,2	48,3	57,5	62,2			
	<b>300</b>	<b>295</b>	<b>288</b>	<b>281</b>	<b>273</b>	<b>263</b>	<b>251</b>			
Max. cont.	75	7,8	17,6	27,1	37,0	47,2	56,1	61,0		
		<b>374</b>	<b>370</b>	<b>364</b>	<b>360</b>	<b>352</b>	<b>340</b>	<b>331</b>		
Max. int.	90	6,8	16,3	26,5	36,1	45,6	54,5	59,9		
		<b>443</b>	<b>440</b>	<b>435</b>	<b>428</b>	<b>424</b>	<b>413</b>	<b>400</b>		

FFPMSY 250 (243 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.						Max. Int.		
		35	70	105	140	175	200	225		
Durchflussmenge / Oil flow (l/min)	15	11,0	23,1	35,1	46,2	58,5	68,1	77,8	daNm	RPM
		<b>59</b>	<b>58</b>	<b>56</b>	<b>53</b>	<b>50</b>	<b>46</b>	<b>35</b>		
	30	11,6	23,6	35,9	47,5	59,7	70,0	79,0		
<b>119</b>		<b>117</b>	<b>114</b>	<b>108</b>	<b>102</b>	<b>92</b>	<b>80</b>			
40	11,8	24,1	36,3	48,0	59,9	70,6	79,6			
	<b>162</b>	<b>159</b>	<b>156</b>	<b>150</b>	<b>143</b>	<b>134</b>	<b>121</b>			
50	11,1	23,4	35,2	47,2	59,1	69,3	78,8			
	<b>203</b>	<b>201</b>	<b>197</b>	<b>191</b>	<b>182</b>	<b>173</b>	<b>158</b>			
60	10,6	22,4	34,5	46,2	58,2	68,5	77,2			
	<b>244</b>	<b>242</b>	<b>237</b>	<b>230</b>	<b>220</b>	<b>208</b>	<b>194</b>			
Max. cont.	75	10,1	21,4	34,0	45,4	57,0	67,0	76,0		
		<b>303</b>	<b>299</b>	<b>294</b>	<b>285</b>	<b>272</b>	<b>260</b>	<b>244</b>		
Max. int.	90	9,3	20,9	33,5	44,7	55,9	65,7	74,9		
		<b>363</b>	<b>359</b>	<b>354</b>	<b>348</b>	<b>340</b>	<b>328</b>	<b>303</b>		

## Leistungsdaten

## Performance data

FFPMSY 315 (311 cm<sup>3</sup>/U)

		Druck / pressure (bar)						Max. cont.	Max. Int.	
		35	70	105	140	175	200			
Durchflussmenge / Oil flow (l/min)	15	14,8	30,4	45,6	61,3	76,2	87,9	97,8	daNm	
		<b>48</b>	<b>47</b>	<b>45</b>	<b>43</b>	<b>41</b>	<b>39</b>	<b>27</b>	RPM	
	30	15,5	31,4	46,5	63,5	77,8	88,4	98,8		
		<b>95</b>	<b>93</b>	<b>91</b>	<b>89</b>	<b>86</b>	<b>82</b>	<b>67</b>		
Max. cont.	40	16,0	32,1	47,9	65,0	76,6	90,6	99,7		
		<b>127</b>	<b>125</b>	<b>121</b>	<b>117</b>	<b>115</b>	<b>109</b>	<b>91</b>		
Max. int.	50	15,5	31,4	46,5	63,8	78,0	88,6	98,8		
		<b>159</b>	<b>157</b>	<b>153</b>	<b>149</b>	<b>145</b>	<b>142</b>	<b>128</b>		
Max. cont.	60	15,1	30,6	45,3	62,0	76,5	88,6	97,6		
		<b>187</b>	<b>185</b>	<b>181</b>	<b>176</b>	<b>169</b>	<b>157</b>	<b>143</b>		
Max. int.	75	14,6	30,0	44,5	61,3	75,5	87,5	96,6		
		<b>238</b>	<b>236</b>	<b>232</b>	<b>227</b>	<b>224</b>	<b>220</b>	<b>196</b>		
Max. int.	90	13,5	28,4	43,6	60,1	74,0	86,3	95,2		
		<b>286</b>	<b>283</b>	<b>278</b>	<b>272</b>	<b>265</b>	<b>257</b>	<b>232</b>		

FFPMSY 400 (394 cm<sup>3</sup>/U)

		Druck / pressure (bar)					Max. cont.	Max. Int.	
		35	70	105	140	160			
Durchflussmenge / Oil flow (l/min)	15	18,6	37,9	57,8	77,9	89,6	98,6	daNm	
		<b>37</b>	<b>36</b>	<b>35</b>	<b>33</b>	<b>31</b>	<b>29</b>	RPM	
	30	19,0	38,8	59,0	79,1	90,5	99,1		
		<b>75</b>	<b>73</b>	<b>71</b>	<b>68</b>	<b>65</b>	<b>61</b>		
Max. cont.	40	19,5	39,4	59,6	79,7	91,2	99,8		
		<b>99</b>	<b>97</b>	<b>95</b>	<b>93</b>	<b>90</b>	<b>85</b>		
Max. int.	50	19,1	38,8	58,7	78,5	90,4	98,3		
		<b>125</b>	<b>123</b>	<b>118</b>	<b>114</b>	<b>109</b>	<b>102</b>		
Max. cont.	60	18,6	38,8	58,7	78,5	90,4	98,3		
		<b>149</b>	<b>146</b>	<b>142</b>	<b>137</b>	<b>131</b>	<b>122</b>		
Max. int.	75	18,1	37,2	57,6	77,0	89,1	97,3		
		<b>187</b>	<b>183</b>	<b>177</b>	<b>171</b>	<b>164</b>	<b>153</b>		
Max. int.	90	17,6	36,7	57,1	76,6	88,3	96,5		
		<b>226</b>	<b>221</b>	<b>214</b>	<b>208</b>	<b>199</b>	<b>183</b>		

FFPMSY 475 (475 cm<sup>3</sup>/U)

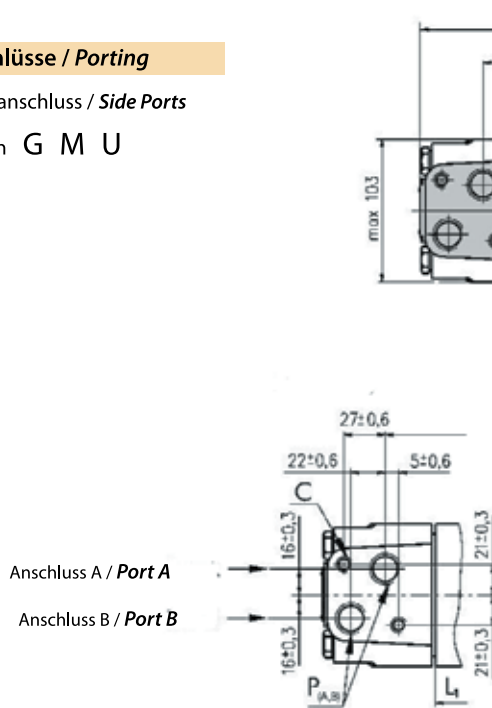
		Druck / pressure (bar)				Max. cont.	Max. Int.	
		35	70	105	140			
Durchflussmenge / Oil flow (l/min)	15	21,8	43,9	66,1	89,2	99,5	daNm	
		<b>30</b>	<b>29</b>	<b>28</b>	<b>27</b>	<b>25</b>	RPM	
	30	22,3	45,0	67,6	91,0	100,2		
		<b>61</b>	<b>60</b>	<b>58</b>	<b>56</b>	<b>53</b>		
Max. cont.	40	22,8	46,1	68,9	92,7	101,7		
		<b>82</b>	<b>80</b>	<b>77</b>	<b>74</b>	<b>68</b>		
Max. int.	50	22,4	45,6	68,2	92,0	100,8		
		<b>103</b>	<b>101</b>	<b>97</b>	<b>92</b>	<b>86</b>		
Max. cont.	60	22,0	45,1	67,7	91,3	99,8		
		<b>123</b>	<b>121</b>	<b>118</b>	<b>112</b>	<b>105</b>		
Max. int.	75	21,2	44,3	66,4	90,1	98,0		
		<b>155</b>	<b>153</b>	<b>147</b>	<b>140</b>	<b>132</b>		
Max. int.	90	19,6	42,1	64,3	87,7	95,9		
		<b>186</b>	<b>184</b>	<b>178</b>	<b>170</b>	<b>157</b>		

## Abmessungen

### Anschlüsse / Porting

Seitenanschluss / Side Ports

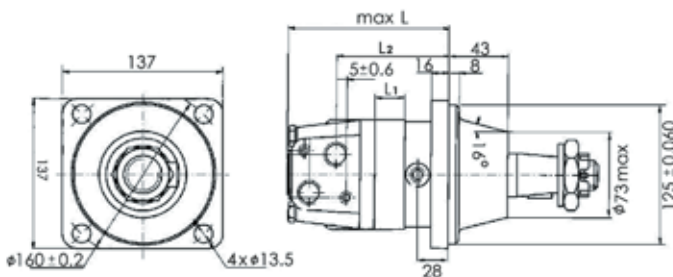
Version G M U



E Endanschluss auf Anfrage / Rear ports on request

Anschluss / Port	Versionen / Versions		
	Leer / Omit	M	U
P(A,B)	G 1/2"	M22 x 1,5	7/8-14 O-Ring
T	G 1/4"	M14 x 1,5	7/16-20 UNF
C	2 x M10	2 x M10	5/16-18 UNC

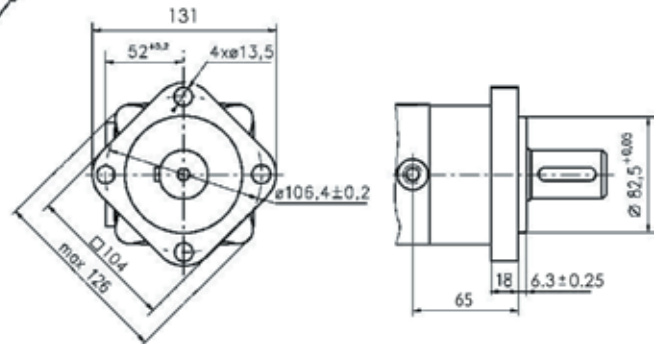
W Radflansch / Wheel flange



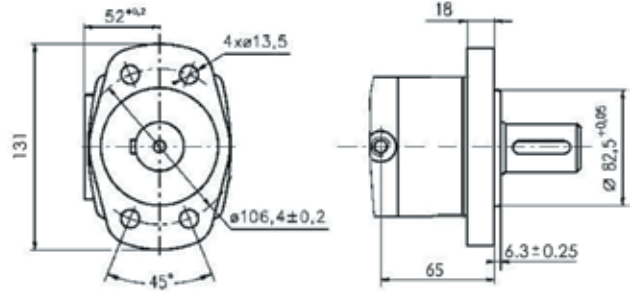
Typ / Type	L	L <sub>2</sub>	Typ / Type	L	L <sub>2</sub>	Typ / Type	L	L <sub>2</sub>	L <sub>1</sub>
FFPMSY(F) 160	181	137,5	FFPMSYW 160	143,5	100	FFPMSYQ 160	193	149,5	27
FFPMSY(F) 200	188	144,5	FFPMSYW 200	150,5	107	FFPMSYQ 200	200	156,5	34
FFPMSY(F) 250	196	152,5	FFPMSYW 250	158,5	115	FFPMSYQ 250	208	164,5	42
FFPMSY(F) 315	208	164,5	FFPMSYW 315	170,5	127	FFPMSYQ 315	220	176,5	54
FFPMSY(F) 400	223	179,5	FFPMSYW 400	185,5	142	FFPMSYQ 400	235	191,5	69
FFPMSY(F) 475	237	193,5	FFPMSYW 475	199,5	156	FFPMSYQ 475	249	205,5	83

## Dimensions

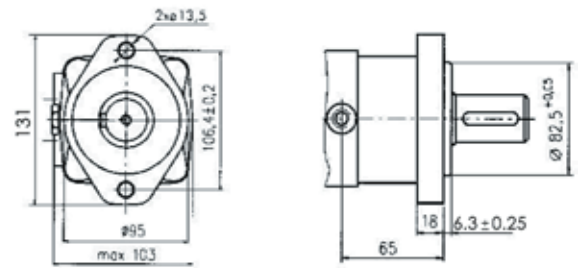
Quadratflansch SAE A / Square flange SAE A



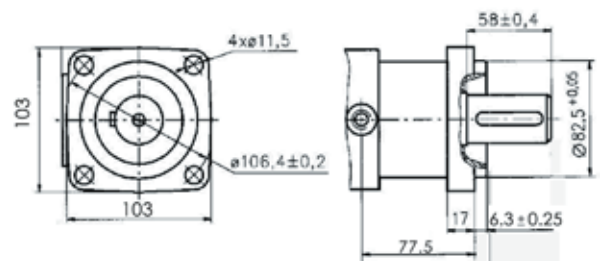
F Magneto Flansch / Magneto Mount (4-Loch / 4 holes)



A- Ovalflansch / Oval Mount SAE A (2-Loch / 2 holes)



Q Quadratflansch / Square flange (4 Schrauben / 4 bolts)



## Bestellinformationen

	1	2	3	4	5	6	7
<b>FFPMSY</b>							

### Pos. 1 Montageflansch / Mounting flange

Leer / Omit	Quadratflansch 4-loch, SAE A / Square flange 4-holes SAE A
F	Magnetoflansch 4-loch / Magneto mount 4 holes
A	Ovalflansch 2-loch SAE A / Oval flange 2 holes SAE A
Q	Quadratflansch, 4-loch / Square flange 4 holes
W	Radflansch / Wheel mount

### Pos. 2 Anschlüsse / Port type

Leer / Omit	Seitl. Anschlüsse / Side ports
E	Endanschlüsse (auf Anfrage) / Rear ports (on requests)

### Pos.3 Schluckvolumen / Displacement

160	160 cm <sup>3</sup> /U / 160 ccm/REV
200	200 cm <sup>3</sup> /U / 200 ccm/REV
250	250 cm <sup>3</sup> /U / 250 ccm/REV
315	315 cm <sup>3</sup> /U / 315 ccm/REV
400	400 cm <sup>3</sup> /U / 400 ccm/REV
475	475 cm <sup>3</sup> /U / 475 ccm/REV

### Pos. 4 Wellenausführungen / Shaft extensions

C	Ø 32 mm zylindrisch mit Passfeder A10 x 8 x 45 Ø 32 mm straight, parallel key A10 x 8x 45.
CO	Ø 31,75 mm (1 1/4") zylindrisch mit Passfeder 5/16" x 5/16" x 1 1/4" Ø 31,75 mm (1 1/4") straight, parallel key 5/16" x 5/16" x 1 1/4"
S	verzahnt SAE 6B / splined SAE 6B

## Order Information

SH	Ø 31,75 mm (1 1/4") verzahnt, 14 Zähne, DP 12/24 / Ø 31,75 mm (1 1/4") splined, 14T, DP 12/24.
K	Konisch 1:10 mit Passfeder B6 x 6 x 20 / Conical 1:10 with key B6 x 6 x 20
SB	Verzahnt 14 Zähne, DP 12/24 / splined, 14 T, DP 12/24
KA	Konisch 1:8 SAE, J501 mit Passfeder 5/16" x 5/16" x 1 1/4" / Conical 1:8 SAE, J501 with key 5/16" x 5/16" x 1 1/4"
SL	Ø 34,75 mm P.T.O. DIN 9611 Form 1 / Ø 31,75 mm P.T.O. DIN 9611 Form 1

### Pos. 5 Anschlüsse / Porting

Leer / Omit	G 1/2" / G 1/2"
M	Metrisch / Metric
U	7/8-14 UNF, O-Ring / 7/8-14-UNF, O-ring
P	1/2-14 NPTF / 1/2-14 NPTF

### Pos. 6 Farbe / Painting

Leer / Omit	Grau / Grey
RAL...	+ Ralfarbe (z.B. 7021) / + Ral colour (e.g. 7021)

### Pos. 7 Drehrichtung / Rotation direction

Leer / Omit	Standarddrehrichtung / Standard Rotation
R	Umgekehrte Drehrichtung / Reverse Rotation

# PRICES FOR MOTOR SERIES FFPMSY ON APPLICATION

## FFPMT Hydraulik Motor

- Modell Verteilerventil mit Geroller
- Geringes Startmoment und hoher Wirkungsgrad
- Ideal für enge Bauräume
- Internes Rückschlagventil
- Verwendung ohne Leckölanchluss möglich
- Schrägrollenlager für hohe Radialbelastung



## FFPMT Hydraulic Motor

- Disk valve type with geroler
- Low starting torque and high efficiency
- Optimized for small spaces
- Internal check valve
- Usage without drain line possible
- Tapered roller bearing for high radial load

TYP / Type		FFPMT	FFPMT	FFPMT	FFPMT	FFPMT	FFPMT	FFPMT	FFPMT
		160	200	250	315	400	500	630	800
Schluckvolumen / Displacement [cm <sup>3</sup> /REV]		161.1	201.4	251.8	326.3	410.9	523.6	629.1	801.8
Max. Drehzahl / Max. Speed [RPM]	Dauerbetrieb / Cont.	625	625	500	380	305	240	196	154
	Int.(1)	780	750	600	460	365	285	233	185
Max. Drehmoment / Max. Torque [daNm]	Dauerbetrieb / Cont.	47	59	73	95	108	122	131.8	146.4
	Int.(1)	56	71	88	114	126	137	149.8	152
	Spitze / Peak (2)	66.9	83.8	103.6	134.6	145	164.4	161.9	166.5
Max. Leistungsabgabe / Max. Output Power [kW]	Dauerbetrieb / Cont.	27.7	34.9	34.5	34.9	31.2	28.8	25.3	22.2
	Int.(1)	32	40	40	40	35	35	27.5	26.8
Max. Druckgefälle / Max. Pressure Drop [bar]	Dauerbetrieb / Cont.	200	200	200	200	180	160	140	125
	Int.(1)	240	240	240	240	210	180	160	130
	Spitze / Peak (2)	280	280	280	280	240	210	190	160
Max. Ölstrom / Max. Oil flow [l/min]	Dauerbetrieb / Cont.	80	100	100	100	100	100	100	100
	Int.(1)	125	150	150	150	150	150	150	150
Max. Eingangsdruck / Max. Input Pressure [bar]	Dauerbetrieb / Cont.	210	210	210	210	210	210	210	210
	Int.(2)	300	300	300	300	300	300	300	300
Gewicht / Weight [kg]		19.5	20	20.5	21	22	23	24	25

(1) Intermittierender Betrieb max. 6 Sekunden / Minute  
 (2) Spitzenbetrieb max. 0.6 Sekunden / Minute

(1) Intermittend operation rating applies to 6 sec. of every minute  
 (2) Peak load rating applies to 0.6 sec of every minute



## Leistungsdaten

## Performance data

FFPMT160 (161.1 cm<sup>3</sup>/U)

FFPMT 200 (201.4 cm<sup>3</sup>/U)

		Druck / pressure (bar)							daNm	RPM
		40	80	100	120	160	200	240		
Durchflussmenge / Oil flow (l/min)	10	8.8	17.6	22.8	27.5	36.1	44.7	53.5		
		<b>60</b>	<b>59</b>	<b>58</b>	<b>56</b>	<b>54</b>	<b>50</b>	<b>44</b>		
	20	8.9	18.1	23.4	27.7	37.2	45.9	55.7		
		<b>121</b>	<b>120</b>	<b>117</b>	<b>114</b>	<b>109</b>	<b>103</b>	<b>95</b>		
	40	9.1	18.0	23.5	27.7	38.1	47.1	57.3		
		<b>249</b>	<b>246</b>	<b>243</b>	<b>236</b>	<b>230</b>	<b>223</b>	<b>212</b>		
	60	8.2	17.8	23.5	27.7	38.1	47.1	57.3		
		<b>371</b>	<b>367</b>	<b>362</b>	<b>356</b>	<b>349</b>	<b>340</b>	<b>330</b>		
	80	7.8	17.3	22.9	27.6	37.9	46.6	56.7		
		<b>492</b>	<b>489</b>	<b>485</b>	<b>478</b>	<b>470</b>	<b>462</b>	<b>447</b>		
Max. cont.	100	7.0	16.0	21.8	26.9	37.0	45.5	55.8		
Max. int.	125	5.8	14.8	21.1	26.1	35.9	44.8	55.2		

		Druck / pressure (bar)							daNm	RPM
		40	80	100	120	160	200	240		
Durchflussmenge / Oil flow (l/min)	10	12.4	23.3	28.9	34.0	45.4	56.0	66.9		
		<b>47</b>	<b>46</b>	<b>45</b>	<b>42</b>	<b>39</b>	<b>37</b>	<b>33</b>		
	20	12.5	23.9	29.8	34.7	46.8	57.6	69.6		
		<b>95</b>	<b>94</b>	<b>92</b>	<b>90</b>	<b>87</b>	<b>84</b>	<b>75</b>		
	40	12.0	24.1	29.6	35.2	47.5	58.9	71.6		
		<b>195</b>	<b>193</b>	<b>191</b>	<b>187</b>	<b>183</b>	<b>178</b>	<b>167</b>		
	60	11.6	23.7	29.5	35.2	47.8	58.9	71.8		
		<b>297</b>	<b>295</b>	<b>292</b>	<b>287</b>	<b>282</b>	<b>276</b>	<b>263</b>		
	80	10.8	23.1	28.9	35.0	47.4	58.6	71.6		
		<b>395</b>	<b>393</b>	<b>389</b>	<b>384</b>	<b>377</b>	<b>370</b>	<b>359</b>		
Max. cont.	100	9.9	22.7	28.6	34.4	47.1	58.0	71.2		
Max. int.	125	8.4	20.8	27.6	33.3	45.9	56.6	69.7		
Max. int.	150	7.0	19.4	26.0	32.4	44.7	55.4	68.2		

FFPMT 250 (251.8 cm<sup>3</sup>/U)

FFPMT 315 (326.3 cm<sup>3</sup>/U)

		Druck / pressure (bar)							daNm	RPM
		40	80	100	120	160	200	240		
Durchflussmenge / Oil flow (l/min)	10	13.8	28.6	35.5	41.9	55.9	68.9	82.4		
		<b>38</b>	<b>38</b>	<b>37</b>	<b>36</b>	<b>34</b>	<b>32</b>	<b>31</b>		
	20	14.3	29.6	36.4	43.2	58.0	70.8	85.3		
		<b>76</b>	<b>75</b>	<b>74</b>	<b>72</b>	<b>70</b>	<b>67</b>	<b>62</b>		
	40	13.9	30.1	37.2	44.0	59.3	72.3	88.4		
		<b>156</b>	<b>154</b>	<b>152</b>	<b>149</b>	<b>146</b>	<b>142</b>	<b>134</b>		
	60	13.2	29.4	37.2	44.1	59.2	72.7	88.8		
		<b>237</b>	<b>236</b>	<b>233</b>	<b>229</b>	<b>224</b>	<b>219</b>	<b>207</b>		
	80	12.8	28.3	36.4	43.3	58.7	72.1	88.7		
		<b>317</b>	<b>316</b>	<b>314</b>	<b>308</b>	<b>303</b>	<b>299</b>	<b>284</b>		
	100	12.6	28.2	35.5	42.7	58.2	71.6	87.9		
		<b>396</b>	<b>394</b>	<b>391</b>	<b>387</b>	<b>381</b>	<b>373</b>	<b>359</b>		
Max. cont.	125	11.6	26.0	34.0	41.4	56.8	70.3	86.4		
Max. int.	150	8.8	24.2	32.0	39.7	55.2	68.6	84.7		

		Druck / pressure (bar)							daNm	RPM
		40	80	100	120	160	200	240		
Durchflussmenge / Oil flow (l/min)	10	18.4	36.3	45.3	54.5	73.4	89.1	106.2		
		<b>30</b>	<b>29</b>	<b>28</b>	<b>27</b>	<b>26</b>	<b>25</b>	<b>23</b>		
	20	18.9	38.0	47.2	56.2	75.7	91.7	110.9		
		<b>60</b>	<b>59</b>	<b>58</b>	<b>56</b>	<b>54</b>	<b>52</b>	<b>50</b>		
	40	19.1	38.1	48.4	57.0	77.4	95.4	114.9		
		<b>121</b>	<b>120</b>	<b>118</b>	<b>115</b>	<b>112</b>	<b>109</b>	<b>104</b>		
	60	18.9	37.6	49.3	57.3	77.2	96.2	115.4		
		<b>183</b>	<b>181</b>	<b>179</b>	<b>175</b>	<b>172</b>	<b>168</b>	<b>158</b>		
	80	17.9	36.9	47.9	56.5	76.8	95.4	115.3		
		<b>244</b>	<b>242</b>	<b>239</b>	<b>236</b>	<b>231</b>	<b>227</b>	<b>217</b>		
	100	16.9	35.7	46.7	56.2	75.8	94.2	114.3		
		<b>305</b>	<b>304</b>	<b>301</b>	<b>298</b>	<b>294</b>	<b>289</b>	<b>276</b>		
Max. cont.	125	14.7	33.6	44.7	54.4	74.5	92.0	112.7		
Max. int.	150	11.9	31.8	43.2	52.6	71.3	89.4	109.7		

## Leistungsdaten

FFPMT 400 (410.9 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.						Max. Int.		
		30	60	90	105	120	140	160		
Durchflussmenge / Oil flow (l/min)	10	17.6	36.7	56.0	71.5	88.5	105.0	120.9	daNm	
		<b>24</b>	<b>23</b>	<b>22</b>	<b>21</b>	<b>20</b>	<b>19</b>	<b>18</b>	RPM	
20	17.9	37.0	56.5	72.6	89.9	107.1	123.6			
	<b>49</b>	<b>48</b>	<b>47</b>	<b>44</b>	<b>42</b>	<b>40</b>	<b>38</b>			
40	17.6	37.0	56.7	73.3	91.9	109.1	126.3			
	<b>96</b>	<b>95</b>	<b>93</b>	<b>90</b>	<b>87</b>	<b>83</b>	<b>79</b>			
60	17.4	36.1	56.3	72.9	92.0	109.5	126.9			
	<b>145</b>	<b>143</b>	<b>139</b>	<b>135</b>	<b>131</b>	<b>127</b>	<b>121</b>			
80	16.6	35.3	55.3	71.9	91.2	108.4	126.3			
	<b>193</b>	<b>191</b>	<b>188</b>	<b>184</b>	<b>180</b>	<b>176</b>	<b>170</b>			
100	15.0	33.9	53.8	70.8	89.6	106.7	125.2			
	<b>242</b>	<b>240</b>	<b>238</b>	<b>234</b>	<b>228</b>	<b>224</b>	<b>218</b>			
Max. cont.	125	13.5	30.9	52.4	68.8	87.3	104.5	122.1		
		<b>302</b>	<b>300</b>	<b>298</b>	<b>294</b>	<b>289</b>	<b>285</b>	<b>278</b>		
Max. int.	150	12.6	29.2	50.8	66.6	85.2	102.0	119.7		
		<b>364</b>	<b>362</b>	<b>358</b>	<b>354</b>	<b>350</b>	<b>346</b>	<b>339</b>		

## Performance data

FFPMT 500 (523.6 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.						Max. Int.		
		30	60	90	120	140	160	180		
Durchflussmenge / Oil flow (l/min)	10	22,2	45,1	69,2	89,2	105,0	119,3	134,0	daNm	
		<b>18</b>	<b>18</b>	<b>18</b>	<b>17</b>	<b>16</b>	<b>15</b>	<b>13</b>	RPM	
20	23,1	46,4	71,4	91,8	107,0	122,0	137,7			
	<b>37</b>	<b>36</b>	<b>35</b>	<b>34</b>	<b>33</b>	<b>32</b>	<b>30</b>			
40	23,0	46,6	72,7	94,1	109,4	124,4	142,2			
	<b>75</b>	<b>74</b>	<b>73</b>	<b>72</b>	<b>70</b>	<b>68</b>	<b>64</b>			
60	22,5	45,7	71,4	94,1	108,8	124,5	140,9			
	<b>113</b>	<b>112</b>	<b>111</b>	<b>109</b>	<b>107</b>	<b>105</b>	<b>101</b>			
80	21,3	43,1	69,6	92,7	107,6	124,4	140,1			
	<b>151</b>	<b>150</b>	<b>149</b>	<b>147</b>	<b>145</b>	<b>143</b>	<b>138</b>			
100	19,4	42,0	68,0	90,1	106,3	122,4	138,3			
	<b>189</b>	<b>188</b>	<b>187</b>	<b>185</b>	<b>183</b>	<b>181</b>	<b>177</b>			
Max. cont.	125	18,2	39,8	64,1	87,7	102,4	119,9	135,2		
		<b>237</b>	<b>236</b>	<b>235</b>	<b>233</b>	<b>231</b>	<b>229</b>	<b>225</b>		
Max. int.	150	14,7	36,9	61,8	85,3	100,4	116,7	132,5		
		<b>284</b>	<b>283</b>	<b>282</b>	<b>280</b>	<b>278</b>	<b>276</b>	<b>272</b>		

FFPMT 630 (629.1 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.						Max. Int.		
		30	60	90	105	120	140	160		
Durchflussmenge / Oil flow (l/min)	10	23.3	52.0	79.5	90.2	107.4	119.4	136.3	daNm	
		<b>14</b>	<b>14</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>11</b>	<b>11</b>	RPM	
20	23.7	55.4	83.7	95.3	111.7	123.9	140.7			
	<b>28</b>	<b>27</b>	<b>27</b>	<b>26</b>	<b>26</b>	<b>24</b>	<b>22</b>			
40	23.9	55.3	86.0	98.7	117.1	130.8	148.3			
	<b>62</b>	<b>62</b>	<b>61</b>	<b>60</b>	<b>59</b>	<b>56</b>	<b>54</b>			
60	22.3	54.4	86.3	97.8	117.2	131.8	149.8			
	<b>94</b>	<b>94</b>	<b>92</b>	<b>91</b>	<b>90</b>	<b>86</b>	<b>82</b>			
80	22.0	53.7	85.4	96.5	117.2	131.4	149.7			
	<b>123</b>	<b>122</b>	<b>121</b>	<b>119</b>	<b>118</b>	<b>114</b>	<b>110</b>			
100	20.8	52.2	83.2	94.5	115.6	130.3	148.8			
	<b>156</b>	<b>155</b>	<b>153</b>	<b>152</b>	<b>150</b>	<b>147</b>	<b>142</b>			
Max. cont.	125	20.1	49.9	81.0	93.1	113.7	129.2	147.2		
		<b>196</b>	<b>196</b>	<b>194</b>	<b>192</b>	<b>191</b>	<b>187</b>	<b>183</b>		
Max. int.	150	17.4	49.2	78.5	92.1	112.1	127.7	145.4		
		<b>233</b>	<b>232</b>	<b>231</b>	<b>230</b>	<b>227</b>	<b>223</b>	<b>217</b>		

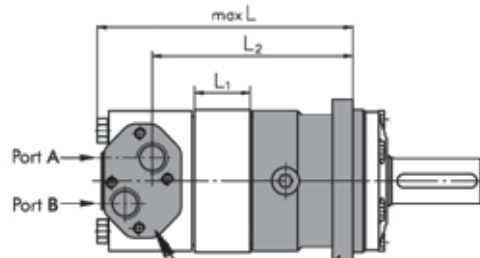
FFPMT 800 (801.8 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.					Max. Int.		
		30	60	90	105	125	130		
Durchflussmenge / Oil flow (l/min)	10	34.6	67.7	100.3	115.9	136.5	139.0	daNm	
		<b>12</b>	<b>12</b>	<b>11</b>	<b>11</b>	<b>11</b>	<b>10</b>	RPM	
20	35.6	69.2	103.4	118.3	140.4	145.8			
	<b>24</b>	<b>24</b>	<b>24</b>	<b>23</b>	<b>22</b>	<b>18</b>			
40	36.5	70.3	106.6	123.6	145.9	151.6			
	<b>50</b>	<b>50</b>	<b>49</b>	<b>48</b>	<b>46</b>	<b>40</b>			
60	35.4	70.3	106.0	123.7	146.4	152.0			
	<b>74</b>	<b>73</b>	<b>71</b>	<b>71</b>	<b>68</b>	<b>63</b>			
80	33.2	68.6	105.0	122.6	146.4	151.4			
	<b>99</b>	<b>98</b>	<b>98</b>	<b>96</b>	<b>93</b>	<b>86</b>			
100	30.5	65.4	102.5	120.7	144.5	150.6			
	<b>125</b>	<b>123</b>	<b>123</b>	<b>121</b>	<b>118</b>	<b>110</b>			
Max. cont.	125	28.0	62.2	98.9	118.1	142.2	148.7		
		<b>154</b>	<b>153</b>	<b>153</b>	<b>150</b>	<b>149</b>	<b>140</b>		
Max. int.	150	24.7	59.0	95.3	115.6	140.6	147.6		
		<b>185</b>	<b>184</b>	<b>183</b>	<b>181</b>	<b>179</b>	<b>172</b>		

## Abmessungen

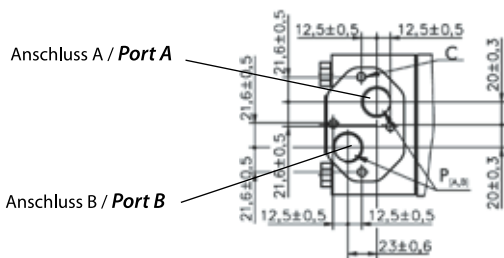
## Dimensions



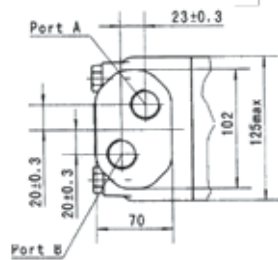
### Anschlüsse / Porting

Seitenanschluss / Side Ports

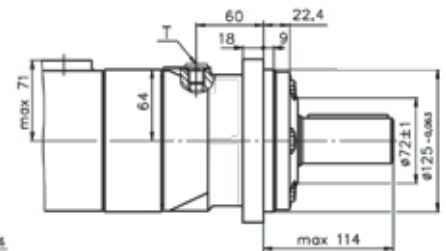
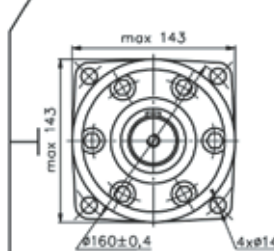
Version G M



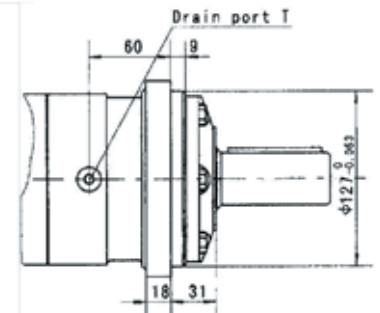
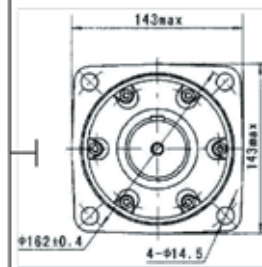
Version U



Quadratflansch 4-loch / Square flange 4 holes

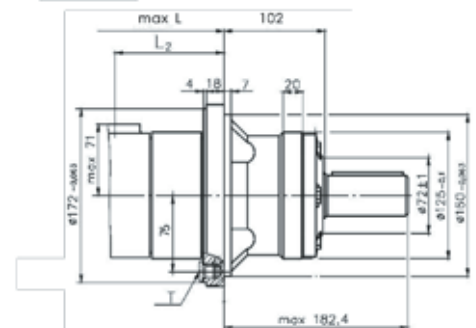
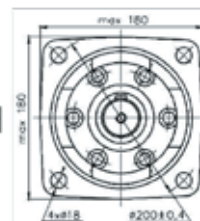


C SAE C Flansch (4-loch) / SAE C Mount (4 holes)



Anschluss / Port	Versionen / Versions		
	Leer (Tief)/ Omit (depth)	M (Tief / depth)	U (Tief / depth)
P(A,B)	2 x G 3/4" (18)	2 x M27 x 2 18	2 x 1 1/16"-12UN (18)
T	G 1/4" (12)	M14 x 1,5 (12)	9/16-18 UNF (12)
C	4 x M10 (10)	4 x M10 (10)	-

W Radflansch / Wheelflange



Typ / Type	L	L <sub>2</sub>	Typ / Type	L	L <sub>2</sub>	L <sub>1</sub>
FFPMT 160	193	142.5	FFPMTW 160	127	77	17
FFPMT 200	197	146.5	FFPMTW 200	131	81	21
FFPMT 250	204	152.5	FFPMTW 250	136	86	14
FFPMT 315	210	158.5	FFPMTW 315	142	91	20
FFPMT 400	217	165.5	FFPMTW 400	148	98	27
FFPMT 500	225	173.5	FFPMTW 500	157	106	35
FFPMT 630	237	185.5	FFPMTW 630	169	118	47
FFPMT 800	248	196.5	FFPMTW 800	180	129	58

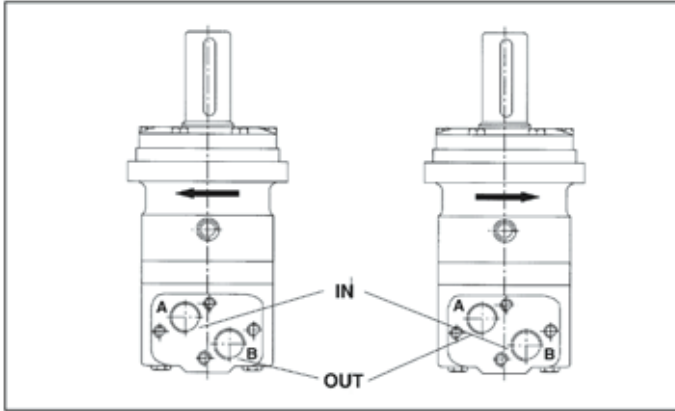
### Wichtig:

Bitte beachten Sie, dass Motoren der Baugröße FFPMT160 und FFPMT200 nicht mit den anderen Baugrößen (FFPMT250-800) umbaubar sind, da Unterschiede im internen Aufbau der Motoren vorhanden sind.

### Important:

Please note that motors with size FFPMT160 and FFPMT200 are not modifiable with other motor sizes (FFPMT250-800), because some internal parts are different.





## Drehrichtungsauswahl Rotation selection

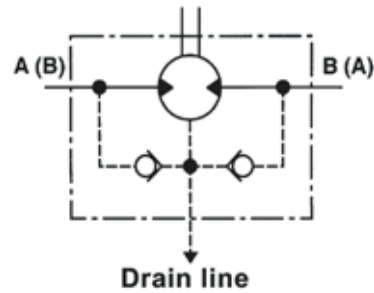
Unser Motor FFPMT besitzt integrierte Rückschlagventile, dadurch wird der Druck auf den Wellendichtring nie größer als der Rücklaufdruck. Beim Short-Motor FFPMTS ist der Druck durch die technischen Daten des Anbaugesetriebes begrenzt. / *The FFPMT motor has built-in check valves. For this reason, the pressure on the shaft seal is never greater than back flow pressure. In the short motor FFPMTS pressure is determined based on the technical data of the attached gear box.*

Max. Rücklaufdruck ohne Leckölleitung bzw. max. Druck in der Leckölleitung / *Max. return pressure without drain line or max. pressure in drain line*

Drehzahl/ RPM	Dauerdruck / cont. Pressure (bar)
0-100	75
100-300	40
300-810	20

Max. Rücklaufdruck mit Leckölleitung / *Max. return pressure with drain line*

Dauerbetrieb / Continuous	140 bar
Kurzzeitig / Intermittent	175 bar



## Wellenbelastung Shaft Load

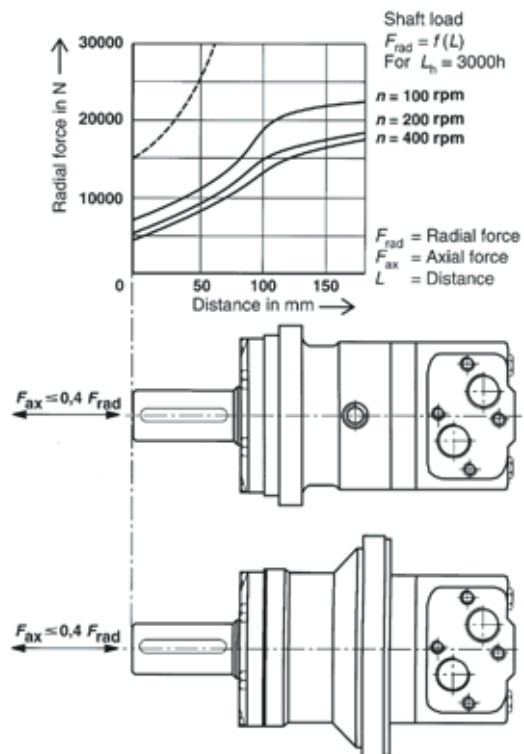
Durch die integrierten Schrägrollenlager sind die Motoren vom Typ FFPMT in der Lage hohe Axial- und Radialkräfte aufzunehmen. Die gestrichelte Linie im seitlichen Diagramm zeigt die maximal zulässige Radialkraft. Belastungen oberhalb dieser



Grenze können zum Bruch der Welle führen. Die durchgezogenen Linien zeigen die zulässigen Radialbelastungen bei einer Lebensdauer von 3000h bei 200 U/min.

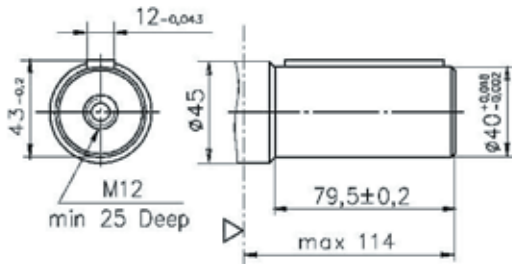
*The tapered roller bearings on the output shaft can accept high levels of axial and radial load for FFPMT motors. The broken curve shows the*

*maximum permissible radial load. Loads above and beyond this level can lead to breakage. The solid curve plots the permissible radial loads for a theoretical service life of 3000 hours at 200 RPM.*

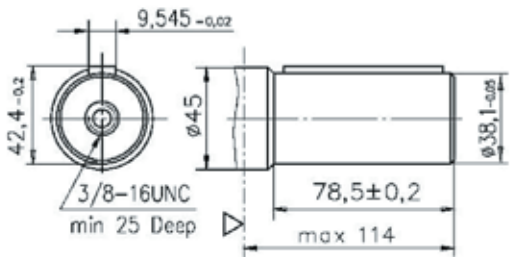


## Abtriebswellen

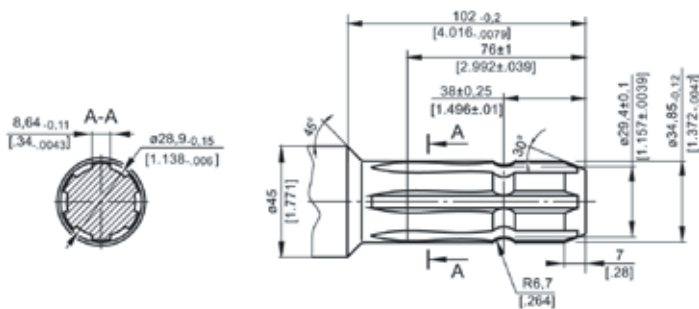
**C** -  $\varnothing 40$  mm zylindrisch mit Passfeder A12 x 8 x 70 (DIN 6885) Max. Drehmoment: 132.8 daNm /  $\varnothing 40$ mm straight, parallel key A12 x 8 x 70 (DIN 6885). Max. torque: 132.8 daNm



**CO** -  $\varnothing 38.1$  mm (1 1/2") zylindrisch mit Passfeder 3/8" x 3/8" x 2 1/4" BS46. Max. Drehmoment: 132.8 daNm /  $\varnothing 38.1$  mm (1 1/2") straight, parallel key 3/8" x 3/8" x 2 1/4" BS46. Max. torque: 132.8 daNm

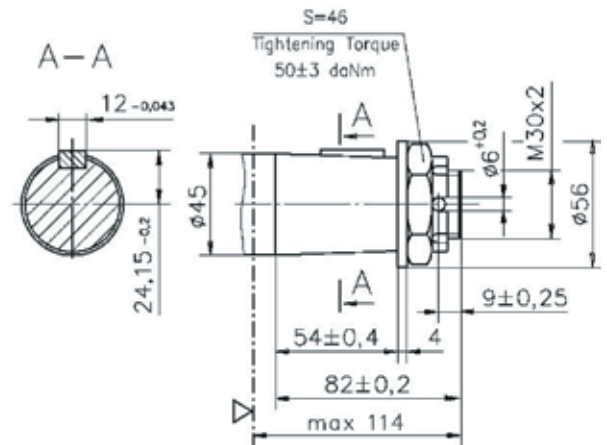


**SL** -  $\varnothing 34,85$ , P.T.O DIN 9611 Form 1. Max. Drehmoment: 77 daNm /  $\varnothing 34,85$ , P.T.O DIN 9611 Form 1. Max. torque: 77 daNm

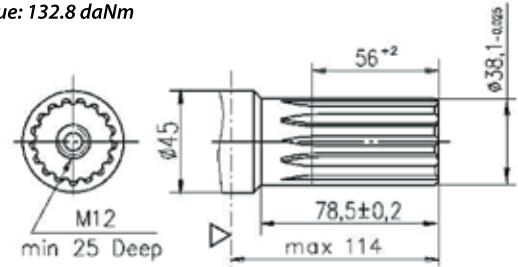


## Output shafts

**K** - Kon. 1:10 mit Passfeder B12 x 8 x 28 DIN 6885. Max. Drehmoment: 210.7 daNm / conical 1:10, parallel key B12 x 8 x 28 DIN 6885. Max. torque: 210.7 daNm



**SH** -  $\varnothing 1 1/2$ " verzahnt, 17 Zähne, DP 12/24, ANSI B92.1-1976. Max. Drehmoment: 132.8 daNm /  $\varnothing 1 1/2$ " splined, 17T, DP 12/24, ANSI B92.1-1976. Max. torque: 132.8 daNm



## Bestellinformationen

	1	2	3	4	5	6	7
<b>FFPMT</b>							

### Pos. 1 Montageflansch / Mounting flange

Leer / Omit Quadratflansch 4-loch / Square flange 4-holes

**C** SAE C Flansch 4-loch / SAE C mount 4 holes

**W** Radflansch / Wheel mount

**S** Kurzversion / Short mount

### Pos. 2 Schluckvolumen / Displacement

160 160 cm<sup>3</sup>/U / 160 ccm/REV

200 200 cm<sup>3</sup>/U / 200 ccm/REV

250 250 cm<sup>3</sup>/U / 250 ccm/REV

315 315 cm<sup>3</sup>/U / 315 ccm/REV

400 400 cm<sup>3</sup>/U / 400 ccm/REV

500 500 cm<sup>3</sup>/U / 500 ccm/REV

630 630 cm<sup>3</sup>/U / 630 ccm/REV

800 800 cm<sup>3</sup>/U / 800 ccm/REV

### Pos. 3 Wellenausführungen / Shaft extensions

**C** Ø 40 mm zylindrisch mit Passfeder A12 x 8 x 70  
Ø 40 mm straight, parallel key A10 x 8 x 45.

**CO** Ø 38,1 mm (1 1/2") zylindrisch mit Passfeder 3/8" x 3/8" x 2 1/4" /  
Ø 38,1 mm (1 1/2") straight, parallel key 3/8" x 3/8" x 2 1/4"

**SL** Ø 34,85 mm P.T.O. DIN 9611 Form 1 /  
Ø 34,85 mm P.T.O. DIN 9611 Form 1

## Order Information

**K** Konisch 1:10 mit Passfeder B12 x 8 x 28 /  
Conical 1:10 with key B12 x 8 x 28

**SH** Ø 1 1/2" verzahnt, 17 Zähne, DP 12/24 /  
Ø 1 1/2" splined, 17T, DP 12/24.

### Pos. 5 Anschlüsse / Porting

Leer / Omit G<sup>3/4</sup>" / G<sup>3/4</sup>"

**M** Metrisch 2 x M27 x 2 / Metric 2 x M27 x 2

**U** 2 x 1 1/16"-12 UN, T: 9/16 - 18 UNF /  
2 x 1 1/16"-12 UN, T: 9/16 - 18 UNF

### Pos. 6 Farbe / Painting

Leer / Omit Grau / Grey

**RAL...** + Ralfarbe (z.B. 7021) / + Ral colour (e.g. 7021)

### Pos. 7 Drehrichtung / Rotation direction

Leer / Omit Standarddrehrichtung / Standard Rotation

**R** Umgekehrte Drehrichtung / Reverse Rotation

# HYDRAULIC MOTOR PRICE LIST - BUILD YOUR OWN

## FFPMT HYDRAULIC MOTOR

STANDARD OPTIONS INCLUDED FFPMT	PART NUMBER	PRICE
SIDE PORTS: 2 X G 3/4" (BSP)	FFPMT 160	£463.45
SHAFTTYPE Ø 40 C	FFPMT 200	£464.74
SHAFTTYPE Ø 40 C	FFPMT 250	£472.48
	FFPMT 315	£478.19
Q.-FLANGE TYPE 143, 4 X Ø 14 ON DIA 160	FFPMT 400	£496.72
	FFPMT 500	£533.77
	FFPMT 630	£547.87
	FFPMT 800	£562.22
OPTIONAL EXTRAS FFPMT		
SPLINED Ø 38,1 12/24 D.PITCH, 30°, Z/T = 17	SH: ADD	£5.33
SHAFT TAPERED 1:10, B12X8X28	K: ADD	£9.68
	SL: ADD	£11.38
FLANGE OPTION EXTRAS FFPMT:		
WHEEL FLANGE	W: ADD	£25.63
SHORT VERSION "S"	S: MINUS	£27.76
ULTRA SHORT VERSION "Z"	Z: MINUS	£27.76
SEAL KIT FFPMT	SEAL KIT FFPMT	£26.70

PART NUMBER	DESCRIPTION	PRICE
FFPMT160C	HYDRAULIC MOTOR FFPMT160C, 160 CCM/REV, SHAFT 40MM, 4-HOLE FLANGE	£463.44
FFPMT160SH	HYDRAULIC MOTOR FFPMT160SH, 160 CCM/REV, SPLINED SHAFT 1 1/2", 4-HOLE FLANGE	£469.74
FFPMT160SL	HYDRAULIC MOTOR FFPMT160SL, 160,0 CM3/U, 6-34,85MM P.T.O. SPLINED, 4-HOLE FLANGE	£474.82
FFPMT200C	HYDRAULIC MOTOR FFPMT200C,200 CCM/REV, SHAFT 40MM, 4-HOLE FLANGE	£464.74
FFPMT200K	HYDRAULIC MOTOR FFPMT200K,200 CCM/REV,TAPERED SHAFT 1:10, 4-HOLE FLANGE	£474.39
FFPMT200SH	HYDRAULIC MOTOR FFPMT200SH, 200,0 CCM/REV, SPLINED SHAFT 1 1/2", 4-HOLE FLANGE	£470.08
FFPMT200SL	HYDRAULIC MOTOR FFPMT200SL, 200 CCM/REV, PTO SHAFT, 4-HOLE FLANGE	£476.11
FFPMT250C	HYDRAULIC MOTOR FFPMT250C,250 CCM/REV, SHAFT 40MM, 4-HOLE FLANGE	£472.48
FFPMT250SH	HYDRAULIC MOTOR FFPMT250SH, 250,4 CCM/REV, SPLINED SHAFT 1 1/2", 4-HOLE FLANGE	£477.83
FFPMT250SL	HYDRAULIC MOTOR FFPMT250SL, 250,4 CCM/REV, PTO SHAFT, 4-HOLE FLANGE	£483.86
FFPMT315C	HYDRAULIC MOTOR FFPMT315C, 319,5 CCM/REV, SHAFT 40MM, 4-HOLE FLANGE	£478.19
FFPMT315SH	HYDRAULIC MOTOR FFPMT315SH, 319,5 CCM/REV, SPLINED SHAFT 1 1/2", 4-HOLE FLANGE	£483.53
FFPMT315SL	HYDRAULIC MOTOR FFPMT315SL, 319,5 CCM/REV, PTO SHAFT, 4-HOLE FLANGE	£489.56
FFPMT400C	HYDRAULIC MOTOR FFPMT400C, 401,8 CCM/REV, SHAFT 40MM, 4-HOLE FLANGE	£496.73
FFPMT400K	HYDRAULIC MOTOR FFPMT400K, 401,8 CCM/REV,TAPERED SHAFT 1:10, 4-HOLE FLANGE	£506.39
FFPMT400SH	HYDRAULIC MOTOR FFPMT400SH, 410,9 CCM/REV, SPLINED SHAFT 1 1/2", 4-HOLE FLANGE	£502.08
FFPMT500C	HYDRAULIC MOTOR FFPMT500C, 523,5 CCM/REV, SHAFT 40MM, 4-HOLE FLANGE	£533.77
FFPMT500K	HYDRAULIC MOTOR FFPMT500K, 523,5 CCM/REV,TAP. SHAFT 1:10, 4-HOLE FLANGE	£543.53
FFPMT500SH	HYDRAULIC MOTOR FFPMT500SH, 523,5 CCM/REV, SPLINED SHAFT 1 1/2", 4-HOLE FLANGE	£539.14
FFPMT800C	HYDRAULIC MOTOR FFPMT800C, 801 CCM/REV, SHAFT 40MM, 4-HOLE FLANGE	£562.21
FFPMT400C	HYDRAULIC MOTOR FFPMT400C, 401,8 CCM/REV, WELLE 40MM, 4-HOLE SAE-C FLANGE	£496.73
FFPMT400SH	HYDRAULIC MOTOR FFPMT400SH, 401,8 CCM/REV, SPLINED SHAFT 1 1/2", 4-HOLE SAE-C FLANGE	£502.08
FFPMTS160	HYDRAULIC MOTOR SHORT FFPMTS160, 160,0 CM3/U	£435.66
FFPMTS200	HYDRAULIC MOTOR SHORT FFPMTS200, 200,0 CM3/U	£436.96
FFPMTS250	HYDRAULIC MOTOR SHORT FFPMTS250, 250,4 CM3/U	£635.04
FFPMTS315	HYDRAULIC MOTOR SHORT FFPMTS315, 319,5 CM3/U	£450.43
FFPMTS400	HYDRAULIC MOTOR SHORT FFPMTS400, 401,8 CM3/U	£468.95
FFPMTS500	HYDRAULIC MOTOR SHORT FFPMTS500, 523,5 CM3/U	£506.04
FFPMTW160C	HYDRAULIC MOTOR FFPMTW160C, 160,0 CCM/REV, 40MM SHAFT, WHEELFLANGE	£489.07
FFPMTW160K	HYDRAULIC MOTOR FFPMTW160K, 160,0 CCM/REV, CONICAL SHAFT 1:10, WHEELFLANGE	£498.74
FFPMTW200C	HYDRAULIC MOTOR FFPMTW200C, 200,0 CCM/REV, 40MM SHAFT CYL., WHEELFLANGE	£490.37
FFPMTW200K	HYDRAULIC MOTOR FFPMTW200K, 200,0 CCM/REV, CONICAL SHAFT 1:10, WHEELFLANGE	£500.03
FFPMTW200SH	HYDRAULIC MOTOR FFPMTW200SH, 200,0 CCM/REV, SPLINED SHAFT 1 1/2", WHEELFLANGE	£495.71
FFPMTW250C	HYDRAULIC MOTOR FFPMTW250C,250 CCM/REV, SHAFT 40MM, WHEELFLANGE	£498.12
FFPMTW250K	HYDRAULIC MOTOR FFPMTW250K, 250,4 CCM/REV, CONICAL SHAFT 1:10, WHEELFLANGE	£507.78
FFPMTW250SH	HYDRAULIC MOTOR FFPMTW250SH,250 CCM/REV,SPLINED SHAFT, WHEELFLANGE	£503.46
FFPMTW315C	HYDRAULIC MOTOR FFPMTW315C, 319,5 CCM/REV, 40MM SHAFT, WHEELFLANGE	£503.83
FFPMTW315K	HYDRAULIC MOTOR FFPMTW315K, 319,5 CCM/REV, CONICAL SHAFT 1:10, WHEELFLANGE	£513.49
FFPMTW400C	HYDRAULIC MOTOR FFPMTW400C, 401,8 CCM/REV, CYL. SHAFT 40MM, WHEELFLANGE	£522.38
FFPMTW400K	HYDRAULIC MOTOR FFPMTW400K, 401,8 CCM/REV, CONICAL SHAFT 1:10, WHEELFLANGE	£532.04
FFPMTW500C	HYDRAULIC MOTOR FFPMTW500C, 523,5 CCM/REV, 40MM SHAFT, WHEELFLANGE	£559.42
FFPMTW500K	HYDRAULIC MOTOR FFPMTW500K, 523,5 CCM/REV, CONICAL SHAFT 1:10, WHEELFLANGE	£569.08
FFPMTW800C	HYDRAULIC MOTOR FFPMTW800C, 801 CCM/REV, 40MM SHAFT, WHEELFLANGE	£585.95
FFPMTW800K	HYDRAULIC MOTOR FFPMTW800K, 801 CCM/REV, CONICAL SHAFT 1:10, WHEELFLANGE	£595.61



## FFPMV Hydraulik Motor

- Modell Verteilerventil mit Geroller
- Geringes Startmoment und hoher Wirkungsgrad
- Internes Rückschlagventil
- Verwendung ohne Leckölanchluss möglich
- Schrägrollenlager für hohe Radialbelastung
- Hohes Drehmoment für anspruchsvolle Anwendungen



## FFPMV Hydraulic Motor

- Disk valve type with geroler
- Low starting torque and high efficiency
- Internal check valve
- Usage without drain line possible
- Tapered roller bearing for high radial load
- High torque for ambitious applications

TYP / Type		FFPMV	FFPMV	FFPMV	FFPMV	FFPMV	FFPMV
		315	400	500	630	800	1000
Schluckvolumen / Displacement [cm <sup>3</sup> /REV]		333	419	518	666	801	990
Max. Drehzahl / Max. Speed [RPM]	Dauerbetrieb / Cont.	510	500	400	320	250	200
	Int.(1)	630	600	480	380	300	240
Max. Drehmoment / Max. Torque [daNm]	Dauerbetrieb / Cont.	920	1180	1460	1660	1880	2015
	Int.(1)	1110	1410	1760	1940	2110	2280
	Spitze / Peak (2)	1290	1640	2050	2210	2470	2400
Max. Leistungsabgabe / Max. Output Power [kW]	Dauerbetrieb / Cont.	38.0	47.0	47.0	40.0	33.0	28. Jun
	Int.(1)	46.0	56.0	56.0	56.0	44.0	40.0
Max. Druckgefälle / Max. Pressure Drop [bar]	Dauerbetrieb / Cont.	200	200	200	180	160	140
	Int.(1)	240	240	240	210	180	160
	Spitze / Peak (2)	280	280	280	240	210	180
Max. Ölstrom / Max. Oil flow [l/min]	Dauerbetrieb / Cont	160	200	200	200	200	200
	Int.(1)	200	240	240	240	240	240
Max. Eingangsdruck / Max. Input Pressure [bar]	Dauerbetrieb / Cont.	210	210	210	210	210	210
	Int.(1)	250	250	250	250	250	250
	Spitze / Peak (2)	300	300	300	300	300	300
Gewicht / Weight [kg]		31.8	32.6	33.5	34.9	36.5	38.6

(1) Intermittierender Betrieb max. 6 Sekunden / Minute  
 (2) Spitzenbetrieb max. 0.6 Sekunden / Minute

(1) Intermittend operation rating applies to 6 sec. of every minute  
 (2) Peak load rating applies to 0.6 sec of every minute

## Leistungsdaten

FFPMV315 (333 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.							Max. Int.		
		35	70	100	140	180	200	240	daNm		
Durchflussmenge / Oil flow (l/min)	10	14.0	29.4	44.0	61.0	74.2	84.5	100.0	RPM		
		<b>26</b>	<b>24</b>	<b>23</b>	<b>22</b>	<b>20</b>	<b>17</b>	<b>14</b>			
	20	15.3	31.4	46.6	63.6	78.7	89.5	107.0			
		<b>55</b>	<b>54</b>	<b>53</b>	<b>52</b>	<b>51</b>	<b>48</b>	<b>44</b>			
	50	14.9	31.2	46.5	65.4	81.5	93.5	111.2			
		<b>145</b>	<b>144</b>	<b>142</b>	<b>140</b>	<b>137</b>	<b>133</b>	<b>127</b>			
	75	14.3	30.4	45.8	64.2	81.6	94.0	111.9			
		<b>220</b>	<b>218</b>	<b>215</b>	<b>211</b>	<b>207</b>	<b>202</b>	<b>195</b>			
	100	13.6	29.7	45.2	63.6	81.0	93.6	110.8			
		<b>294</b>	<b>292</b>	<b>290</b>	<b>287</b>	<b>283</b>	<b>278</b>	<b>270</b>			
	125	12.3	28.6	44.2	62.6	79.9	92.1	109.3			
		<b>368</b>	<b>366</b>	<b>364</b>	<b>361</b>	<b>357</b>	<b>352</b>	<b>345</b>			
Max. cont.	150	11.4	27.5	43.5	61.5	78.8	90.6	107.8			
		<b>445</b>	<b>443</b>	<b>441</b>	<b>437</b>	<b>430</b>	<b>422</b>	<b>410</b>			
	160	10.7	26.8	43.0	60.8	78.0	89.5	107.0			
		<b>475</b>	<b>473</b>	<b>470</b>	<b>466</b>	<b>460</b>	<b>452</b>	<b>439</b>			
Max. int.	200	8.2	24.9	41.2	59.3	75.8	87.1	104.7			
		<b>596</b>	<b>594</b>	<b>590</b>	<b>584</b>	<b>576</b>	<b>565</b>	<b>544</b>			

## Performance data

FFPMV400 (419 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.							Max. Int.		
		35	70	100	140	180	200	240	daNm		
Durchflussmenge / Oil flow (l/min)	10	18.3	38.5	56.8	77.6	96.8	110.1	129.2	RPM		
		<b>20</b>	<b>20</b>	<b>19</b>	<b>18</b>	<b>17</b>	<b>16</b>	<b>14</b>			
	20	19.6	39.8	59.0	81.5	101.0	115.2	134.6			
		<b>44</b>	<b>44</b>	<b>43</b>	<b>42</b>	<b>40</b>	<b>39</b>	<b>37</b>			
	50	20.0	40.2	60.3	84.2	104.0	118.6	143.0			
		<b>114</b>	<b>113</b>	<b>113</b>	<b>112</b>	<b>110</b>	<b>108</b>	<b>103</b>			
	75	19.5	39.4	59.6	83.8	104.3	118.8	143.2			
		<b>175</b>	<b>173</b>	<b>170</b>	<b>166</b>	<b>163</b>	<b>1579</b>	<b>152</b>			
	100	17.2	38.5	59.3	82.7	103.6	118.4	142.5			
		<b>236</b>	<b>235</b>	<b>233</b>	<b>231</b>	<b>227</b>	<b>223</b>	<b>215</b>			
	125	16.7	37.4	58.3	81.6	102.1	117.7	141.3			
		<b>296</b>	<b>294</b>	<b>291</b>	<b>288</b>	<b>282</b>	<b>275</b>	<b>268</b>			
	150	15.8	36.1	55.9	80.1	100.8	116.5	139.0			
		<b>355</b>	<b>354</b>	<b>352</b>	<b>349</b>	<b>344</b>	<b>335</b>	<b>324</b>			
	175	14.3	34.6	55.3	78.4	98.9	114.5	137.7			
		<b>416</b>	<b>414</b>	<b>411</b>	<b>407</b>	<b>403</b>	<b>396</b>	<b>388</b>			
Max. cont.	200	11.8	33.1	53.6	77.0	96.9	112.8	135.6			
		<b>475</b>	<b>473</b>	<b>469</b>	<b>463</b>	<b>455</b>	<b>448</b>	<b>439</b>			
Max. int.	240	8.2	30.1	50.6	74.0	94.3	110.4	133.2			
		<b>571</b>	<b>569</b>	<b>565</b>	<b>548</b>	<b>539</b>	<b>530</b>	<b>520</b>			

FFPMV500 (518 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.							Max. Int.		
		35	70	100	140	180	200	240	daNm		
Durchflussmenge / Oil flow (l/min)	10	24.2	46.8	69.6	95.9	119.0	135.3	160.7	RPM		
		<b>17</b>	<b>17</b>	<b>16</b>	<b>16</b>	<b>15</b>	<b>13</b>	<b>11</b>			
	20	24.5	50.1	73.8	100.3	123.2	139.4	165.8			
		<b>36</b>	<b>35</b>	<b>35</b>	<b>34</b>	<b>33</b>	<b>32</b>	<b>29</b>			
	50	24.0	50.0	75.8	102.5	127.0	144.9	174.3			
		<b>93</b>	<b>92</b>	<b>91</b>	<b>90</b>	<b>88</b>	<b>85</b>	<b>80</b>			
	75	23.3	49.8	75.2	103.0	128.8	147.5	176.6			
		<b>140</b>	<b>139</b>	<b>137</b>	<b>135</b>	<b>132</b>	<b>127</b>	<b>120</b>			
	100	22.8	49.1	74.8	102.6	128.9	147.2	176.0			
		<b>189,0</b>	<b>187,0</b>	<b>185,0</b>	<b>182,0</b>	<b>178,0</b>	<b>173,0</b>	<b>166</b>			
	125	22.0	48.3	74.2	101.4	128.0	146.0	174.5			
		<b>237</b>	<b>236</b>	<b>234</b>	<b>231</b>	<b>227</b>	<b>223</b>	<b>216</b>			
	150	20.1	46.5	72.3	100.8	125.0	142.9	173.6			
		<b>287</b>	<b>286</b>	<b>284</b>	<b>281</b>	<b>276</b>	<b>270</b>	<b>260</b>			
	175	18.2	44.6	71.1	99.7	123.8	140.6	171.5			
		<b>335</b>	<b>334</b>	<b>332</b>	<b>329</b>	<b>325</b>	<b>320</b>	<b>310</b>			
Max. cont.	200	16.1	42.3	67.6	97.4	121.8	138.5	169.7			
		<b>384</b>	<b>383</b>	<b>381</b>	<b>378</b>	<b>374</b>	<b>366</b>	<b>354</b>			
Max. int.	240	12.0	37.8	62.2	92.1	117.2	134.0	165.0			
		<b>461</b>	<b>459</b>	<b>457</b>	<b>454</b>	<b>450</b>	<b>444</b>	<b>432</b>			

## Leistungsdaten

FFPMV630 (666 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.						Max. Int.
		35	60	90	120	150	180	210
Durchflussmenge / Oil flow (l/min)	10	28.0	52.2	81.2	110.0	126.8	154.9	178.4
		<b>14</b>	<b>13</b>	<b>13</b>	<b>12</b>	<b>12</b>	<b>11</b>	<b>10</b>
20	28.8	55.2	83.9	110.1	131.5	160.7	186.4	
	<b>28</b>	<b>28</b>	<b>27</b>	<b>27</b>	<b>26</b>	<b>24</b>	<b>22</b>	
50	28.9	55.5	86.8	113.7	136.4	168.2	195.6	
	<b>72</b>	<b>72</b>	<b>71</b>	<b>69</b>	<b>68</b>	<b>66</b>	<b>62</b>	
75	27.0	54.8	86.3	112.0	135.2	168.0	196.4	
	<b>109</b>	<b>108</b>	<b>106</b>	<b>104</b>	<b>102</b>	<b>99</b>	<b>94</b>	
100	26.4	53.8	85.6	109.3	135.0	167.4	196.5	
	<b>146</b>	<b>145</b>	<b>143</b>	<b>141</b>	<b>138</b>	<b>135</b>	<b>130</b>	
125	25.1	51.6	83.7	107.1	133.6	165.9	195.0	
	<b>184</b>	<b>183</b>	<b>181</b>	<b>179</b>	<b>177</b>	<b>173</b>	<b>168</b>	
150	24.0	49.5	81.7	106.3	133.0	165.0	192.8	
	<b>221</b>	<b>220</b>	<b>219</b>	<b>217</b>	<b>215</b>	<b>212</b>	<b>205</b>	
175	21.0	48.5	79.6	105.2	130.0	163.6	190.8	
	<b>259</b>	<b>258</b>	<b>257</b>	<b>254</b>	<b>250</b>	<b>246</b>	<b>241</b>	
Max. cont.	200	18.2	46.9	75.1	101.8	128.0	161.1	188.3
		<b>297</b>	<b>297</b>	<b>295</b>	<b>293</b>	<b>290</b>	<b>284</b>	<b>273</b>
Max. int.	240	13.0	41.6	71.2	97.8	123.7	156.3	183.5
		<b>358</b>	<b>357</b>	<b>355</b>	<b>351</b>	<b>346</b>	<b>340</b>	<b>332</b>

## Performance data

FFPMV800 (801 cm<sup>3</sup>/U)

Druck / pressure (bar)

		Max. cont.						Max. Int.
		25	50	80	100	130	160	180
Durchflussmenge / Oil flow (l/min)	10	27.8	56.5	83.0	109.5	140.5	171.2	191.5
		<b>11</b>	<b>10</b>	<b>10</b>	<b>9</b>	<b>8</b>	<b>8</b>	<b>7</b>
20	28.2	57.1	84.5	115.0	145.6	178.3	199.4	
	<b>23</b>	<b>22</b>	<b>22</b>	<b>21</b>	<b>20</b>	<b>18</b>	<b>16</b>	
50	28.8	58.2	85.6	116.2	146.3	179.0	200.1	
	<b>60</b>	<b>59</b>	<b>57</b>	<b>56</b>	<b>54</b>	<b>52</b>	<b>48</b>	
75	26.9	58.0	85.5	116.5	146.5	178.6	199.3	
	<b>91</b>	<b>90</b>	<b>89</b>	<b>87</b>	<b>84</b>	<b>81</b>	<b>77</b>	
100	25.1	56.6	84.0	114.0	144.8	176.7	198.5	
	<b>122</b>	<b>121</b>	<b>120</b>	<b>118</b>	<b>115</b>	<b>111</b>	<b>105</b>	
125	24.2	53.5	82.4	111.8	142.7	173.9	197.6	
	<b>153</b>	<b>152</b>	<b>150</b>	<b>147</b>	<b>143</b>	<b>139</b>	<b>133</b>	
150	23.6	52.6	80.8	110.2	140.1	171.4	195.9	
	<b>185</b>	<b>183</b>	<b>181</b>	<b>178</b>	<b>174</b>	<b>169</b>	<b>163</b>	
175	21.5	50.4	79.3	107.9	137.7	169.8	193.6	
	<b>216</b>	<b>214</b>	<b>212</b>	<b>209</b>	<b>206</b>	<b>203</b>	<b>196</b>	
Max. cont.	200	19.7	46.8	76.5	106.3	136.2	168.1	191.3
		<b>247</b>	<b>245</b>	<b>243</b>	<b>240</b>	<b>237</b>	<b>232</b>	<b>225</b>
Max. int.	240	11.8	38.8	71.3	102.0	131.8	163.7	183.8
		<b>297</b>	<b>296</b>	<b>295</b>	<b>293</b>	<b>288</b>	<b>283</b>	<b>277</b>

FFPMV1000 (990 cm<sup>3</sup>/U)

Druck / pressure (bar)

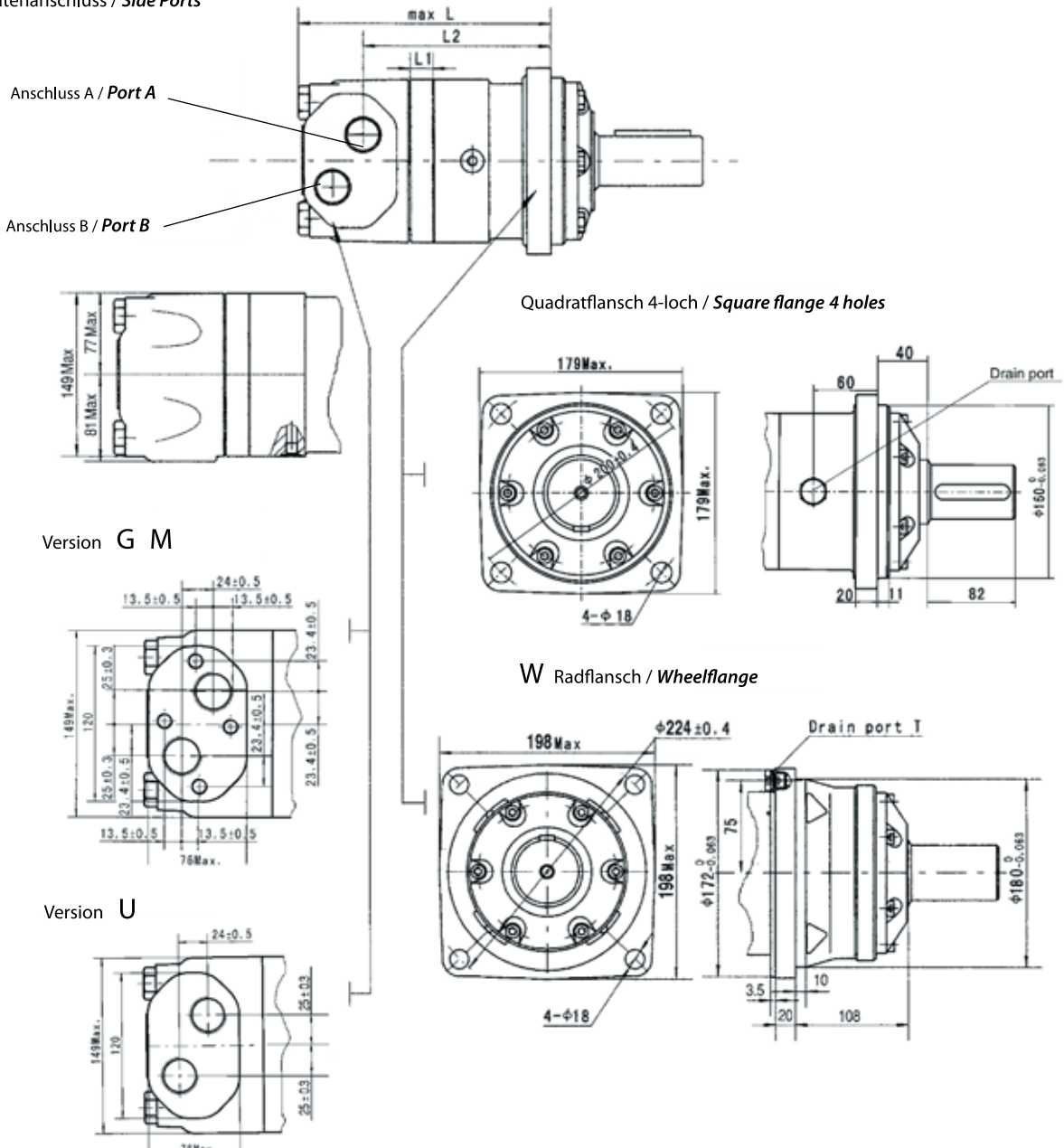
		Max. cont.						Max. Int.
		25	50	70	100	140	160	
10	31.2	64.0	97.1	140.0	197.8	225.9		
	<b>9</b>	<b>9</b>	<b>9</b>	<b>8</b>	<b>7</b>	<b>6</b>		
20	32.0	64.8	97.8	141.0	198.0	227.0		
	<b>28</b>	<b>27</b>	<b>26</b>	<b>25</b>	<b>23</b>	<b>21</b>		
50	32.6	65.5	99.2	142.2	201.5	228.0		
	<b>47</b>	<b>46</b>	<b>45</b>	<b>43</b>	<b>41</b>	<b>38</b>		
75	31.8	64.2	98.7	142.5	200.3	227.6		
	<b>72</b>	<b>71</b>	<b>70</b>	<b>68</b>	<b>66</b>	<b>63</b>		
100	30.9	63.4	98.3	141.8	199.4	224.3		
	<b>98</b>	<b>97</b>	<b>95</b>	<b>93</b>	<b>90</b>	<b>86</b>		
125	30.3	62.4	97.5	140.9	198.8	222.4		
	<b>123</b>	<b>122</b>	<b>120</b>	<b>117</b>	<b>114</b>	<b>110</b>		
150	27.8	60.2	96.1	136.8	196.3	220.8		
	<b>149</b>	<b>148</b>	<b>146</b>	<b>144</b>	<b>140</b>	<b>133</b>		
175	26.4	58.0	94.6	133.8	192.5	215.9		
	<b>174</b>	<b>172</b>	<b>170</b>	<b>166</b>	<b>162</b>	<b>155</b>		
Max. cont.	200	23.0	55.6	91.2	130.0	189.1	210.5	
		<b>199</b>	<b>196</b>	<b>193</b>	<b>190</b>	<b>185</b>	<b>178</b>	
Max. int.	240	16.6	51.3	86.7	126.7	182.5	203.4	
		<b>240</b>	<b>237</b>	<b>233</b>	<b>229</b>	<b>225</b>	<b>218</b>	

## Abmessungen

## Dimensions

### Anschlüsse / Porting

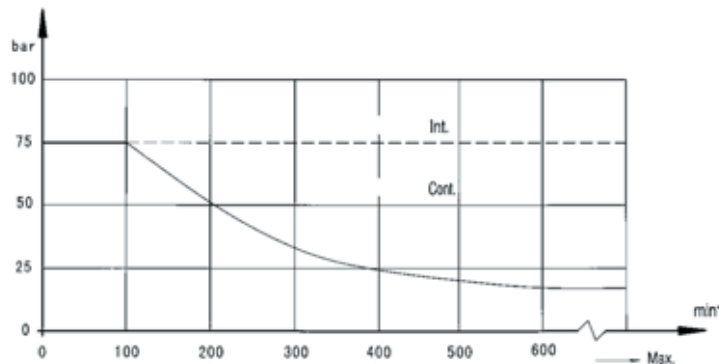
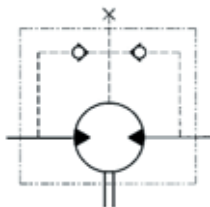
Seitenanschluss / Side Ports



Anschluss / Port	Versionen / Versions		
	Leer (Tief) / Omit (depth)	M (Tief / depth)	U (Tief / depth)
P(A,B)	2 x G 1" (18)	2 x M33 x 2 18	2 x 1 5/16"-12UN (18)
T	G 1/4" (12)	M14 x 1,5 (12)	9/16"-18 UNF (12)
C	4 x M12 (10)	4 x M12 (10)	-

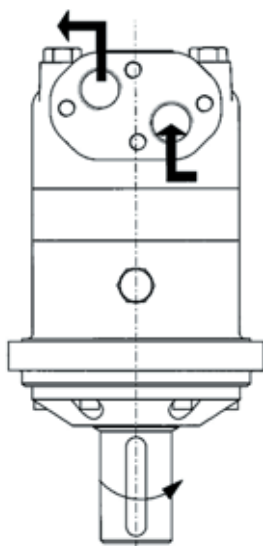
Typ / Type	L	L <sub>2</sub>	Typ / Type	L	L <sub>2</sub>	L <sub>1</sub>
FFPMV 315	217	161.5	FFPMVW 315	148.5	93.5	20
FFPMV 400	224	168.5	FFPMVW 400	155.5	100.5	27
FFPMV 500	232	176.5	FFPMVW 500	163.5	108.5	35
FFPMV 630	244	188.5	FFPMVW 630	175.5	120.5	47
FFPMV 800	255	199.5	FFPMVW 800	186.5	131.5	58
FFPMV 1000	271	215.5	FFPMVW 800	202.5	147.5	74

## Zulässiger Druck auf den Wellendichtring Permissible shaft seal pressure

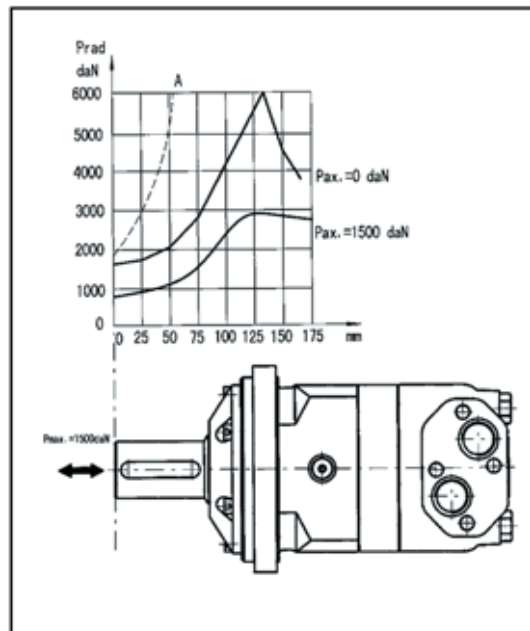


## Motordrehrichtung Motor rotation

Drehrichtung rechts: Anschluss „A“ ist druckbeaufschlagt.  
Drehrichtung links: Anschluss „B“ ist druckbeaufschlagt.  
*Clockwise rotation: port „A“ is pressurized.*  
*Counter-clockwise rotation: port „B“ is pressurized.*



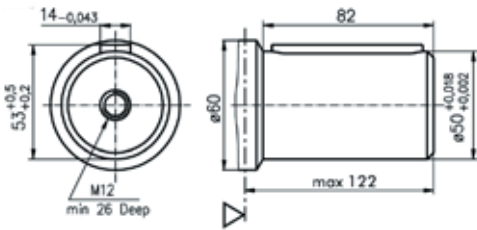
## Wellenbelastung Shaft Load



Durch die integrierten Schrägrollenlager sind die Motoren vom Typ FFPMV in der Lage hohe Axial- und Radialkräfte aufzunehmen. Die gestrichelte Linie im seitlichen Diagramm zeigt die maximal zulässige Radialkraft. Belastungen oberhalb dieser Grenze können zum Bruch der Welle führen. Die durchgezogenen Linien zeigen die zulässigen Radialbelastungen bei einer Lebensdauer von 3000h bei 200 U/min.  
*The tapered roller bearings on the output shaft can accept high levels of axial and radial load for FFPMV motors. The broken curve shows the maximum permissible radial load. Loads above and beyond this level can lead to breakage. The solid curve plots the permissible radial loads for a theoretical service life of 3000 hours at 200 RPM.*

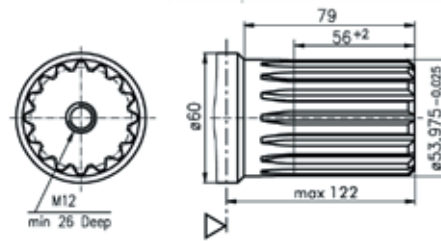
## Abtriebswellen

**C** -  $\emptyset$  50 mm zylindrisch mit Passfeder A14 x 9 x 70 (DIN 6885) /  $\emptyset$  50mm straight, parallel key A14 x 9 x 70 (DIN 6885)

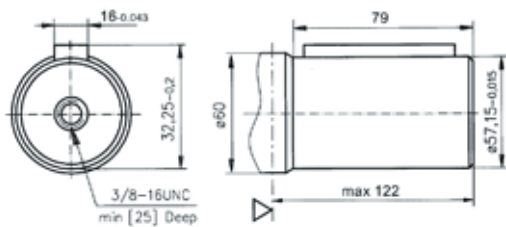


## Output shafts

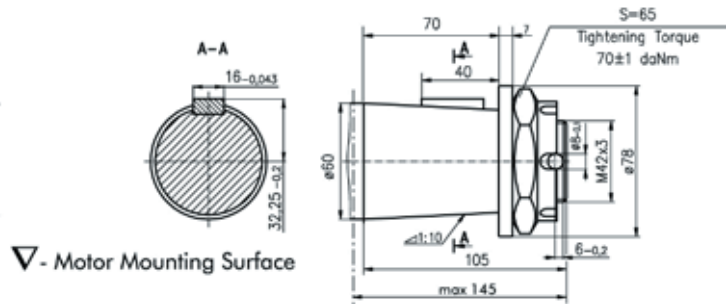
**SH** -  $\emptyset$  2 1/8" verzahnt, 16 DP 8/16 ANS B92.1-1976 /  $\emptyset$  2 1/8" splined, 16 DP 8/16 ANS B92.1-1976



**CO** -  $\emptyset$  57.15 mm (2 1/4") zylindrisch mit Passfeder 1/2" x 1/2" x 2 1/4" BS46.  $\emptyset$  57.15 mm (2 1/4") straight, parallel key 1/2" x 1/2" x 2 1/4" BS46.



**K** - kon. 1:10 mit Passfeder B16 x 10 x 32 DIN 6885 / conical 1:10, parallel key B16 x 10 x 32 DIN 6885.



## Bestellinformationen

	1	2	3	4	5	6	7
<b>FFPMV</b>							

**Pos. 1** Montageflansch / Mounting flange

Leer / Omit Quadratflansch 4-loch / Square flange 4-holes

**W** Radflansch / Wheel mount

**Pos. 2** Schluckvolumen / Displacement

315 315 cm<sup>3</sup>/U / 315 ccm/REV

400 400 cm<sup>3</sup>/U / 400 ccm/REV

500 500 cm<sup>3</sup>/U / 500 ccm/REV

630 630 cm<sup>3</sup>/U / 630 ccm/REV

800 800 cm<sup>3</sup>/U / 800 ccm/REV

1000 1000 cm<sup>3</sup>/U / 1000 ccm/REV

**Pos. 3** Wellenausführungen / Shaft extensions

**C**  $\emptyset$  50 mm zylindrisch mit Passfeder A14 x 9 x 70 (DIN6885)  
 $\emptyset$  50 mm straight, parallel key A14 x 8 x 70.

**CO**  $\emptyset$  57.15 mm (2 1/4") zylindrisch mit Passfeder 1/2" x 1/2" x 2 1/4"  
 $\emptyset$  57.15 mm (2 1/4") zylindrisch mit Passfeder 1/2" x 1/2" x 2 1/4"

## Order Information

**K** Konisch 1:10 mit Passfeder B16 x 10 x 32  
Conical 1:10 with key B16 x 10 x 32

**SH**  $\emptyset$  2 1/8" verzahnt, 17 Zähne  
 $\emptyset$  2 1/8" splined, 17T.

**Pos. 5** Anschlüsse / Porting

Leer / Omit G 1" / G 1"

**M** Metrisch 2 x M33 x 2 / Metric 2 x M33 x 2

**U** 2 x 1 1/16"-12 UN, T: 9/16" - 18 UNF  
2 x 1 5/16"-12 UN, T: 9/16" - 18 UNF

**Pos. 6** Farbe / Painting

Leer / Omit Grau / Grey

**RAL...** + Ralfarbe (z.B. 7021) / + Ral colour (e.g. 7021)

**Pos. 7** Drehrichtung / Rotation direction

Leer / Omit Standarddrehrichtung / Standard Rotation

**R** Umgekehrte Drehrichtung / Reverse Rotation

# HYDRAULIC MOTOR PRICE LIST - BUILD YOUR OWN

## FFPMV HYDRAULIC MOTOR

STANDARD OPTIONS INCLUDED FFPMV	PART NUMBER	PRICE
SIDE PORTS: 2 X G 1" (BSP)	FFPMV 315	£536.89
Ø 50 C	FFPMV 400	£558.72
SHAFTTYPE Ø 50 C	FFPMV 500	£591.34
	FFPMV 630	£619.16
Q.-FLANGE TYPE 179, 4 X Ø 18 ON DIA 200	FFPMV 800	£694.34
SHAFT OPTIONAL EXTRAS FFPMV		
SPLINED Ø 53,975, 8/16 D.PITCH, 30°, Z/T = 16	SH: ADD	£10.10
SHAFT TAPERED 1:10, B16X10X32	TB = (K) :ADD	£12.58
FLANGE OPTIONAL EXTRAS FFPMV		
WHEEL FLANGE	W: ADD	£40.44
SEAL KIT FFPMV	SEAL KIT FFPMV	£26.70

# HYDRAULIC MOTOR PRICE LIST - COMPLETE

PART NUMBER	DESCRIPTION	PRICE
FFPMV315C	HYDRAULIC MOTOR FFPMV315C, 333 CCM/REV, CYL. SHAFT 50MM, 4-HOLE FLANGE	£536.88
FFPMV315SH	HYDRAULIC MOTOR FFPMV315SH, 333 CCM/REV, SPLINED SHAFT, 4-HOLE FLANGE	£546.98
FFPMV400C	HYDRAULIC MOTOR FFPMV400C, 419 CCM/REV, CYL. SHAFT 50MM, 4-HOLE FLANGE	£558.70
FFPMV500C	HYDRAULIC MOTOR FFPMV500C, 518 CCM/REV, CYL. SHAFT 50MM, 4-HOLE FLANGE	£591.35
FFPMV630C	HYDRAULIC MOTOR FFPMV630C, 666 CCM/REV, CYL. SHAFT 50MM, 4-HOLE FLANGE	£619.16
FFPMV800C	HYDRAULIC MOTOR FFPMV800C, 801 CCM/REV, CYL. SHAFT 50MM, 4-HOLE FLANGE	£694.33
FFPMV800K	HYDRAULIC MOTOR FFPMV800K, 801 CCM/REV, CONICAL SHAFT 1:10, 4-HOLE FLANGE	£706.91
FFPMVW400K	HYDRAULIC MOTOR FFPMVW400K, 419 CCM/REV, CON. SHAFT 1:10, WHEEL FLANGE	£611.72
FFPMVW500K	HYDRAULIC MOTOR FFPMVW500K, 518 CCM/REV, CON. SHAFT 1:10, WHEEL FLANGE	£644.36
FFPMVW630C	HYDRAULIC MOTOR FFPMVW630C, 666 CCM/REV, CON. SHAFT 50MM, WHEEL FLANGE	£659.59
FFPMVW630K	HYDRAULIC MOTOR FFPMVW630K, 666 CCM/REV, CON. SHAFT 1:10, WHEEL FLANGE	£672.17
FFPMVW800C	HYDRAULIC MOTOR FFPMVW800C, 801 CCM/REV, CYL. SHAFT 50MM, WHEEL FLANGE	£734.76
FFPMVW800K	HYDRAULIC MOTOR FFPMVW800K, 801 CCM/REV, CONICAL SHAFT 1:10, WHEEL-FLANGE	£747.33

## Calculation of hydraulic motors

### Calculation of wheel drives:

1. Motor speed  $n$  of wheel drive:

$$n = \frac{2,65 \cdot v_{km} \cdot i}{R_m}$$

$v_{km}$  = Vehicle speed [km/h]

$R_m$  = Wheel rolling radius [m]

$i$  = Gear ratio between motor and wheels, if there's no gearbox use  $i=1$

### 2. Rolling resistance $R$ , [daN]

The resistance force resulted in wheels contact with different surfaces:

$$R = G \cdot \varphi$$

$G$  = Total weight of vehicle [daN]

$\varphi$  = Rolling resistance coefficient (s. below)

Rolling resistance coefficient in case of rubber tire rolling on different surfaces	
Surface	$\varphi$
Concrete - faultless -	0.010
Concrete - good -	0.015
Concrete - bad -	0.020
Asphalt - faultless -	0.012
Asphalt - good -	0.017
Asphalt - bad -	0.022
Macadam - faultless -	0.015
Macadam - gut -	0.022
Macadam - bad -	0.037
Snow - 5cm -	0.025
Snow 10 cm -	0.037
Mud	0.037 - 0.150
Sand-gravel	0.060 - 0.150
Sand, loose	0.160 - 0.300

3. Grade resistance  $G_R$  daN

$$G_R = G \cdot (\sin \alpha + \rho \cdot \cos \alpha)$$

$\alpha$  = gradient negotiation angle (see below table)

Grade [%]	$\alpha$ degrees	Grade [%]	$\alpha$ degrees
1	0°35'	12	6°5'
2	1°9'	15	8°31'
5	2°51'	20	11°19'
6	3°26'	25	14°3'
8	4°35'	32	18°
10	5°43'	60	31°

### 4. Accelerate force $FA$ [daN]

Force  $FA$  necessary for acceleration from 0 to maximum speed  $v$  and time  $t$  can be calculated with::

$$FA = \frac{v_{km} \cdot G}{3,6 \cdot t} \text{ [daN]}$$

$FA$  = Acceleration force [daN]

$t$  = Time [s]

Additional there are tractive efforts possible, e.g. if you use an additional trailer.

### 5. Total tractive effort $F_{ges}$ [daN]

The necessary total tractive effort  $F_{ges}$  of the vehicle is calculated with the sum of single forces (point 2. - 4.). It is also necessary to consider 10% for safety reasons (e.g. for air resistance).

$$F_{ges} = 1,1 \cdot (R + G_R + FA)$$

$R$  = Rolling resistance [daN]

$G_R$  = Grade resistance [daN]

$FA$  = Acceleration force [daN]

### 6. Motordrehmoment $M_M$

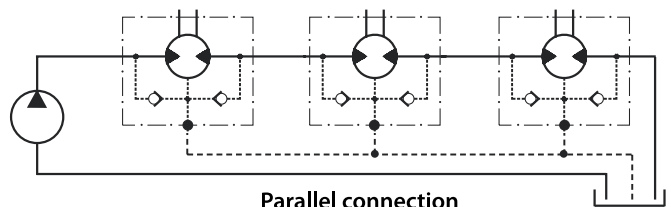
Necessary torque for every hydraulic motor can be calculated with:

$$M_M = \frac{F_{Ges} \cdot R_m}{N \cdot i \cdot \eta_M}$$

$N$  = Number of motors

$\eta_M$  = Mechanical gear efficiency (if it is available)

### 7. Connection of hydraulic motors



We are allways advise to connect the drain port because the cooling and the lifetime of the motors is much better.

