MVW Hydraulic Orbit Motor

Type / data	MVW 315	MVW 400	MVW 630	MVW 800
Geometric displacement	315	400	630	800
Max spd. (rpm) *	510	400	320	250
Max Torque (Nm) *	920	1180	1660	1880
Max output (kW) *	38	47	40	33
Max pressure drop (bar)	200	200	180	160
Max flow (l/min) *	160	200	200	200
Weight (kg)	31,8	32,6	34,9	36,5

* continuous max

MW series motor use the advanced Geroler gear set, designed with disc distribution flow and high pressure.

The unit can be supplied as individual variant in operating multifunction, in accordance with requirement of applications.

CHARACTERISTICS FEATURES

* Advanced manufacturing devices for the Geroler gear set, which use low pressure of startup, provide smooth and reliable operation and high efficiency.

* The output shaft adapts in tapered roller bearings that permit high axial and radial forces. The case can offer capacities of high pressure and high torque in the wide of applications.

* Advanced design in disc distribution flow, which can automatically compensate in operating with high volume efficiency and long life, provide smooth and reliable operation.

MVW Hydraulic Orbit Motor

PERFORMANCE DATA

MVW 315

Pressure (MPa)

Flow (L/min)	3.5	7	10	14	18	20 (Max.cont.)	24 (Max.int.)
10	140 / **26**	294 / **24**	440 / **23**	610 / **22**	742 / **20**	845 / **17**	1000 / **14**
20	153 / **55**	314 / **54**	466 / **53**	636 / **52**	787 / **51**	895 / **48**	1070 / **44**
50	149 / **145**	312 / **144**	465 / **142**	654 / **140**	815 / **137**	935 / **133**	1112 / **127**
75	143 / **220**	304 / **218**	458 / **215**	642 / **211**	816 / **207**	940 / **202**	1119 / **195**
100	136 / **294**	297 / **292**	452 / **290**	636 / **287**	810 / **283**	936 / **278**	1108 / **270**
125	123 / **368**	286 / **366**	442 / **364**	626 / **361**	799 / **357**	921 / **352**	1093 / **345**
150	114 / **445**	275 / **443**	435 / **441**	615 / **437**	788 / **430**	906 / **422**	1078 / **410**
Max.cont. 160	107 / **475**	268 / **473**	430 / **470**	608 / **466**	780 / **460**	895 / **452**	1070 / **439**
Max.int. 200	82 / **596**	249 / **594**	412 / **590**	593 / **584**	758 / **576**	871 / **565**	1047 / **544**

MVW 400

Pressure (MPa)

Flow (L/min)	3.5	7	10	14	18	20 (Max.cont.)	24 (Max.int.)
10	183 / **20**	385 / **20**	568 / **19**	776 / **18**	968 / **17**	1101 / **16**	1292 / **14**
20	196 / **44**	398 / **44**	590 / **43**	815 / **42**	1010 / **40**	1152 / **39**	1346 / **37**
50	200 / **114**	402 / **113**	603 / **113**	842 / **112**	1040 / **110**	1186 / **108**	1430 / **103**
75	195 / **175**	394 / **173**	596 / **170**	838 / **166**	1043 / **163**	1188 / **157**	1432 / **152**
100	172 / **236**	385 / **235**	593 / **233**	827 / **231**	1036 / **227**	1184 / **223**	1425 / **215**
125	167 / **296**	374 / **294**	583 / **291**	816 / **288**	1021 / **282**	1177 / **275**	1413 / **268**
150	158 / **355**	361 / **354**	559 / **352**	801 / **349**	1008 / **344**	1165 / **335**	1390 / **324**
175	143 / **416**	346 / **414**	553 / **411**	784 / **407**	989 / **403**	1145 / **396**	1377 / **388**
Max.cont. 200	118 / **475**	331 / **473**	536 / **469**	770 / **463**	969 / **455**	1128 / **448**	1356 / **439**
Max.int. 240	82 / **571**	301 / **569**	506 / **565**	740 / **548**	943 / **539**	1104 / **530**	1332 / **520**

MVW 630

Pressure (MPa)

Flow (L/min)	3.5	6	9	12	15	18 (Max.cont.)	21 (Max.int.)
10	280 / **14**	522 / **13**	812 / **13**	1100 / **12**	1268 / **12**	1549 / **11**	1784 / **10**
20	288 / **28**	552 / **28**	839 / **27**	1101 / **27**	1315 / **26**	1607 / **24**	1864 / **22**
50	289 / **72**	555 / **72**	868 / **71**	1137 / **69**	1364 / **68**	1682 / **66**	1956 / **62**
75	270 / **109**	548 / **108**	863 / **106**	1120 / **104**	1352 / **102**	1680 / **99**	1964 / **94**
100	264 / **146**	538 / **145**	856 / **143**	1093 / **141**	1350 / **138**	1674 / **135**	1965 / **130**
125	251 / **184**	516 / **183**	837 / **181**	1071 / **179**	1336 / **177**	1659 / **173**	1950 / **168**
150	240 / **221**	495 / **220**	817 / **219**	1063 / **217**	1330 / **215**	1650 / **212**	1928 / **205**
175	210 / **259**	485 / **258**	796 / **257**	1052 / **254**	1300 / **250**	1636 / **246**	1908 / **241**
Max.cont. 200	182 / **297**	469 / **297**	751 / **295**	1018 / **293**	1280 / **290**	1611 / **284**	1883 / **273**
Max.int. 240	130 / **358**	416 / **357**	712 / **355**	978 / **351**	1237 / **346**	1563 / **340**	1835 / **332**

MVW 800

Pressure (MPa)

Flow (L/min)	2.5	5	8	10	13	16 (Max.cont.)	18 (Max.int.)
10	278 / **11**	565 / **10**	830 / **10**	1095 / **9**	1405 / **8**	1712 / **8**	1915 / **7**
20	282 / **23**	571 / **22**	845 / **22**	1150 / **21**	1456 / **20**	1783 / **18**	1994 / **16**
50	288 / **60**	582 / **59**	856 / **57**	1162 / **56**	1463 / **54**	1790 / **52**	2001 / **48**
75	269 / **91**	580 / **90**	855 / **89**	1165 / **87**	1465 / **84**	1786 / **81**	1993 / **77**
100	251 / **122**	566 / **121**	840 / **120**	1140 / **118**	1448 / **115**	1767 / **111**	1985 / **105**
125	242 / **153**	535 / **152**	824 / **150**	1118 / **147**	1427 / **143**	1739 / **139**	1976 / **133**
150	236 / **185**	526 / **183**	808 / **181**	1102 / **178**	1401 / **174**	1714 / **169**	1959 / **163**
175	215 / **216**	504 / **214**	793 / **212**	1079 / **209**	1377 / **206**	1698 / **203**	1936 / **196**
Max.cont. 200	197 / **247**	468 / **245**	765 / **243**	1063 / **240**	1362 / **237**	1681 / **232**	1913 / **225**
Max.int. 240	118 / **297**	388 / **296**	713 / **295**	1020 / **293**	1318 / **288**	1637 / **283**	1838 / **277**

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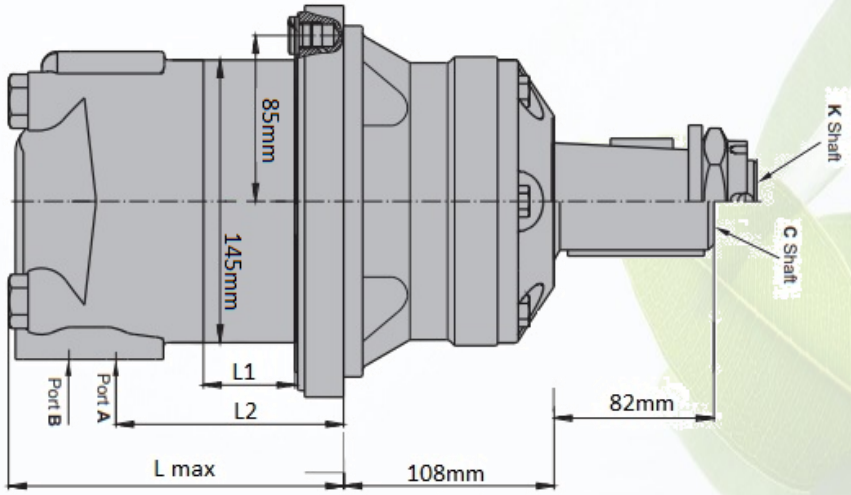
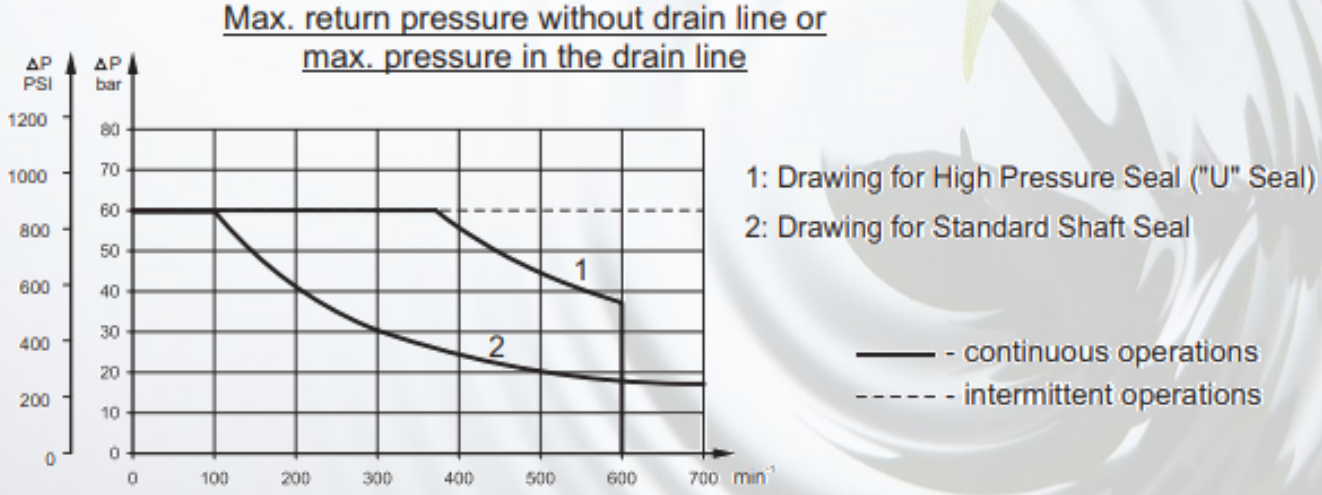
MVW Hydraulic Orbit Motor

OVERWIEV DRAWING



MODEL	L	L1	L2
MVW315	148,5	20	93,5
MVW400	155,5	27	100,5
MVW630	175,5	47	120,5
MVW800	186,5	58	131,5

PERMISSIBLE SHAFT SEAL PRESSURE



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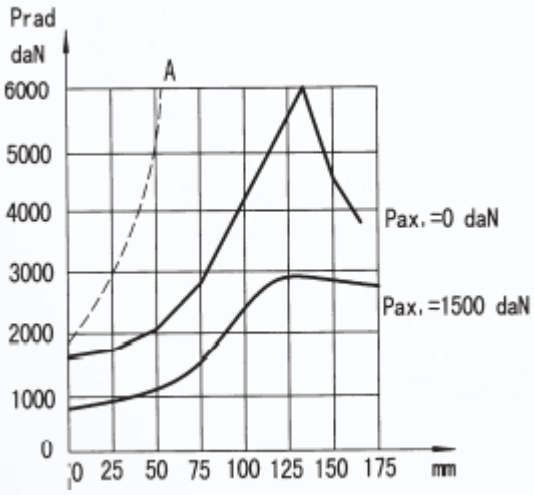
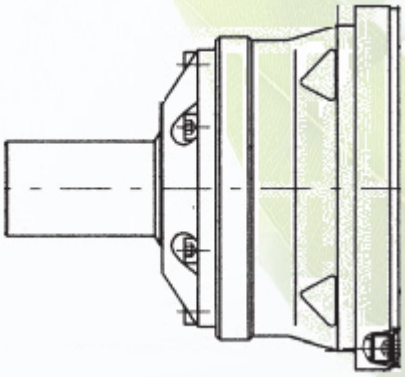
MVW Hydraulic Orbit Motor

AXIAL AND RADIAL FORCES



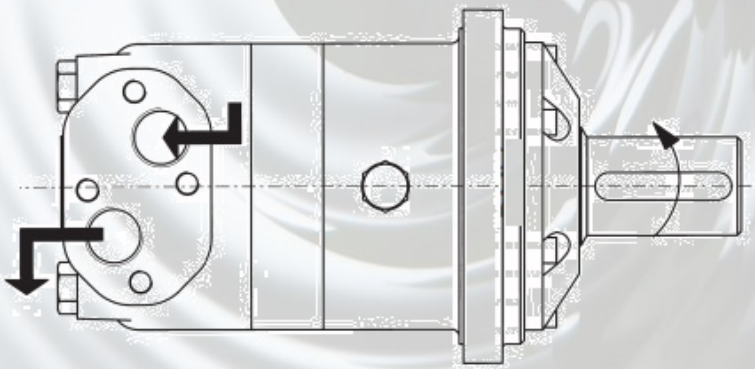


OIL FLOW IN DRAIN LINE

Pressure drop (bar)	Viscosity (mm^2/s)	Oil flow in drain line (L/min.)
140	20	3
	35	2
210	20	6
	35	4

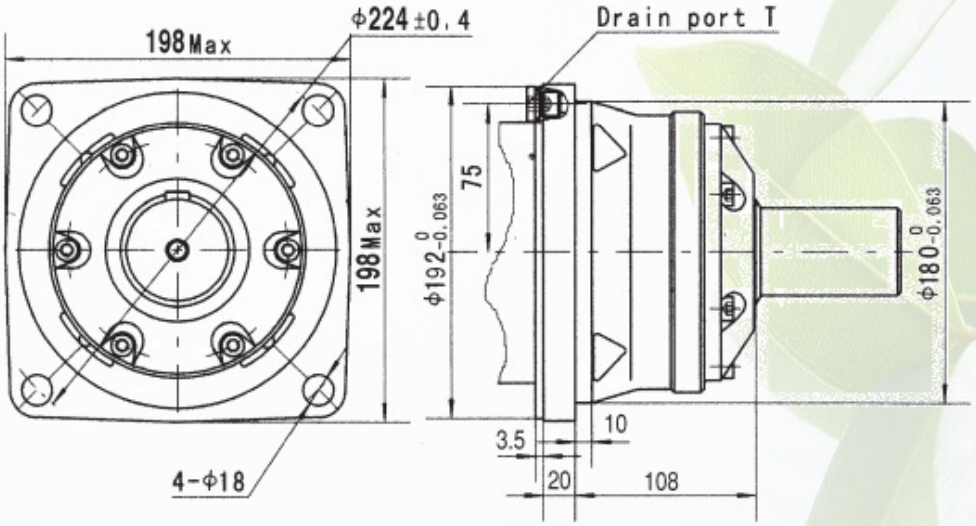
STANDARD DIRECTION OF SHAFT ROTATION

Clockwise when port "A" is pressurized.
Counter-clockwise port "B" is pressurized.



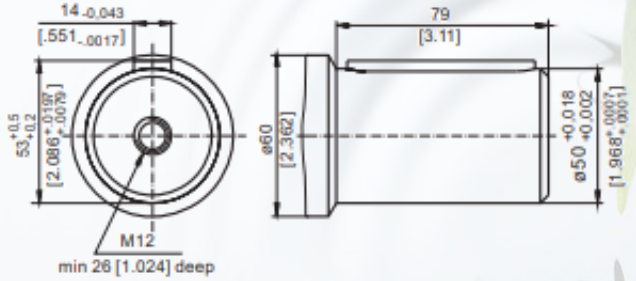
MVW Hydraulic Orbit Motor

Mounting



Shafts

C - ø50 straight, Parallel key A14x9x70 DIN 6885



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