# FLOW DIVIDERS



HYDRAULIC MOTORS LD I MD I HD





**Delivering The Power To Get Work Done** 



#### OVERVIEW

White Drive Products flow dividers represent an ingenious use of the patented Roller Stator® gerotor assembly. These highly effective devices use a common housing to supply the input flow to two gerotor assemblies linked by a common drive link. By linking the two gerotor assemblies together, accurate splitting of the flow is assured. These flow dividers use no bearings or rotating seals, eliminating the typical failures in other designs. By using the highly efficient Roller Stator® gerotor elements, high efficiencies are maintained, even at low flows. Because White Drive Products flow dividers work at much lower RPMs than most gear dividers, they are noticeably quieter. These flow dividers are an excellent way to synchronize cylinders or motors. Because they tolerate higher output pressure differentials than other designs, they may also be used for pressure intensification by connecting one output to tank. The maximum pressure for the Flowdivider is 207 bar [3000 psi]. The maximum pressure differential between the output ports is 172 bar [2500 psi].

#### **FEATURES / BENEFITS**

- Most accurate flow divider on the market.
- Patented Roller Stator<sup>®</sup> design reduces internal leakage and friction.
- · High Efficiency with accurate output flows.
- Quiet operation.

#### **TYPICAL APPLICATIONS**

Cylinder synchronization, parallel motor circuits, pressure intensification, and more

## SERIES DESCRIPTIONS

950 - Hydraulic Flow Divider



#### PRESSURE DROP

Flow dividers are not available with internal relief protection. In-line relief protection for the output lines should be provided due to the possibility of encountering pressure intensification if pressure in one outlet line drops dramatically.



# FD (950 Series)



Hydraulic Flow Divider

#### 2-WAY FLOW DIVIDER

Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

950600M8699AAAAA

ORDER CODES

950320M8699AAAAA

950750M8699AAAAA







\* This displacement affects Output Port B. \*\*This displacement affects Output Port C. For the 950320M8699AAAA - dimension AJ equals 59 [2.32], the flow rate range is 8-38 lpm [2-10 gpm] and has a weight of 15.4 kg [34 lb]. For the 950600M8699AAAA - dimension AJ equals 71 [2.78], the flow rate range is 38-114 lpm [10-30 gpm] and has a weight of 17.0 kg [37 lb]. For the 950750M8699AAAAA - dimension AJ equals 71 [2.78], the flow rate range is 38-114 lpm [10-30 gpm] and has a weight of 17.0 kg [37 lb]. For the 950750M8699AAAAA - dimension AJ equals 71 [2.78], the flow rate range is 38-114 lpm [10-30 gpm] and has a weight of 17.0 kg [37 lb]. For the 950750M8699AAAAA - dimension AJ equals 77 [3.03], the flow rate range is 114-151 lpm [30-40 gpm] and has a weight of 18.0 kg [40 lb]. 950 Series weights vary ± 0.9 kg [2 lb] based on model configuration. By changing the first A in the model code to a Z, the unit will be unpainted instead of the standard black paint. Ports A, B & C are 11/16-12 UN.

#### Inlet Port A Outlet Port B Outlet Port C Outlet Port D Outlet Port E Inlet Port A Outlet Port B Outlet Port C Outlet Port D Outlet Port E lpm [gpm] lpm [gpm] lpm [gpm] Ipm [gpm] lpm [gpm] bar [psi] bar [psi] bar [psi] bar [psi] bar [psi] 30 [8] 17.0 [4.49] 13.5 [3.56] 76 [1099] 138 [2003] N/A N/A N/A 2 [24] N/A 38 [10] 20.8 [5.49] 17.3 [4.58] N/A N/A 77 [1109] 2 [32] 139 [2013] N/A N/A 57 [15] 29.9 [7.89] 27.1 [7.15] N/A N/A 79 [1145] 4 [58] 138 [2007] N/A N/A 39.6 [10.46] 139 [2009] 76 [20] 36.1 [9.54] N/A N/A 82 [1194] 6 [87] N/A N/A 95 [25] 49.0 [12.94] 45.4 [11.99] N/A N/A 87 [1263] 9 [123] 139 [2008] N/A N/A 114 [30] 58.3 [15.41] 54.4 [14.38] N/A N/A 93 [1341] 11 [163] 138 [2007] N/A N/A 30 [8] 17.7 [4.68] 12.6 [3.32] N/A N/A 120 [1744] 21 [297] 206 [2991] N/A N/A 21.7 [5.73] 16.3 [4.31] N/A N/A 21 [300] 207 [3006] N/A N/A 38 [10] 121 [1756] 25.5 [6.74] 57 [15] 31.3 [8.27] N/A N/A 123 [1783] 21 [306] 207 [2996] N/A N/A 40.6 [10.72] 34.8 [9.20] N/A N/A 126 [1820] 21 [308] 206 [2993] N/A N/A 76 [20] 49.9 [13.18] N/A N/A N/A N/A 95 [25] 44.0 [11.64] 129 [1875] 21 [305] 207 [3001] 114 [30] 59.2 [15.63] 53.2 [14.05] N/A N/A 134 [1938] 21 [300] 208 [3011] N/A N/A N/A N/A 69 [1003] 138 [2005] N/A 30 [8] 17.1 [4.52] 13.2 [3.50] 107 [1545] N/A 38 [10] 20.7 [5.48] 17.2 [4.54] N/A N/A 107 [1553] 69 [1001] 138 [2001] N/A N/A 57 [15] 30.1 [7.94] 26.6 [7.02] N/A N/A 109 [1584] 69 [1007] 137 [1994] N/A N/A 76 [20] 39.4 [10.42] 35.9 [9.48] N/A N/A 112 [1623] 69 [1001] 138 [2001] N/A N/A 95 [25] 48.6 [12.85] 45.2 [11.95] N/A N/A 116 [1679] 69 [1003] 138 [2005] N/A N/A 114 [30] 58.0 [15.33] 54.3 [14.36] N/A N/A 120 [1742] 69 [1003] 138 [2007] N/A N/A 15.0 [3.97] 140 [2030] 139 [2008] 30 [8] 15.2 [4.03] N/A N/A 138 [2003] N/A N/A 38 [10] 19.1 [5.03] 18.8 [4.97] N/A N/A 140 [2035] 138 [1999] 138 [1996] N/A N/A 57 [15] 28.5 [7.52] 28.1 [7.41] N/A N/A 143 [2075] 138 [2003] 138 [2007] N/A N/A 76 [20] 37.5 [9.90] N/A 146 [2112] 138 [2005] 138 [1995] N/A N/A 37.8 [9.99] N/A 95 [25] 47.1 [12.45] 46.5 [12.29] N/A N/A 150 [2171] 138 [2007] 138 [2003] N/A N/A 138 [2006] N/A N/A N/A N/A 114 [30] 56.5 [14.91] 55.7 [14.72] 154 [2232] 138 [2000]

#### 2-WAY FLOW DIVIDER PERFORMANCE

Performance data is typical. Performance of production units varies slightly from one motor to another. The above data reflects the equal split ratio model 950600M8699AAAAA. Unequal split ratios are also available on the 2-way flow divider. For more information please contact your White Drive Products Representative. Performance data was averaged using 3 test units.



# FD (950 Series) Hydraulic Flow Divider

## **3-WAY FLOW DIVIDER**

Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

#### ORDER CODE

950900M8699AAAAA







The flow rate range is 15-141 lpm [4-40 gpm] and has a weight of 24.1 kg [53 lb]. 950 Series weights vary ± 0.9 kg [2 lb] based on model configuration. By changing the first A in the model code to a Z, the unit will be unpainted instead of the standard black paint. Ports A, B & C are 1 1/16-12 UN. Port F is 7/18-14 UNF.

Inlet Port A	Outlet Port B	Outlet Port C	Outlet Port F	Outlet Port	Inlet Port A	Outlet Port B	Outlet Port C	Outlet Port F	Outlet Port
lpm [gpm]	lpm [gpm]	lpm [gpm]	lpm [gpm]	lpm [gpm]	bar [psi]	bar [psi]	bar [psi]	bar [psi]	bar [psi]
15 [4]	4.0 [1.06]	5.0 [1.32]	4.3 [1.14]	N/A	100 [1452]	0 [5]	139 [2016]	138 [2002]	N/A
38 [10]	14.1 [3.71]	12.9 [3.41]	11.2 [2.97]	N/A	102 [1481]	1 [20]	140 [2033]	138 [2007]	N/A
57 [15]	20.6 [5.44]	19.2 [5.08]	17.2 [4.45]	N/A	103 [1491]	2 [32]	138 [2006]	139 [2017]	N/A
76 [20]	27.0 [7.13]	25.5 [6.72]	23.5 [6.20]	N/A	105 [1522]	3 [48]	139 [2009]	138 [2000]	N/A
95 [25]	33.4 [8.83]	31.8 [8.39]	29.6 [7.81]	N/A	108 [1562]	5 [67]	138 [2004]	140 [2029]	N/A
114 [30]	39.7 [10.49]	37.9 [10.02]	35.7 [9.43]	N/A	110 [1597]	6 [89]	139 [2015]	137 [1992]	N/A
133 [35]	46.0 [12.16]	44.1 [11.66]	41.7 [11.01]	N/A	114 [1650]	8 [113]	138 [2003]	139 [2014]	N/A
151 [40]	52.2 [13.79]	50.2 [13.27]	47.7 [12.61]	N/A	118 [1707]	9 [136]	138 [1999]	138 [2007]	N/A
15 [4]	6.9 [1.83]	5.2 [1.37]	3.1 [0.82]	N/A	155 [2249]	21 [303]	205 [2980]	208 [3018]	N/A
38 [10]	15.0 [3.96]	12.6 [3.32]	10.6 [2.80]	N/A	155 [2251]	21 [301]	207 [2996]	207 [3003]	N/A
57 [15]	21.5 [5.69]	18.9 [4.99]	16.6 [4.39]	N/A	156 [2267]	21 [303]	207 [2997]	206 [2989]	N/A
76 [20]	28.1 [7.42]	25.1 [6.64]	22.7 [6.00]	N/A	158 [2299]	21 [303]	206 [2995]	207 [2997]	N/A
95 [25]	34.6 [9.14]	31.4 [8.29]	28.8 [7.60]	N/A	161 [2332]	21 [300]	207 [2997]	206 [2991]	N/A
114 [30]	41.0 [10.84]	37.5 [9.91]	34.7 [9.18]	N/A	164 [2379]	21 [301]	207 [3008]	207 [2999]	N/A
133 [35]	47.4 [12.52]	43.6 [11.53]	40.6 [10.73]	N/A	167 [2418]	21 [299]	205 [2975]	205 [2978]	N/A
151 [40]	53.6 [14.16]	49.5 [13.08]	46.9 [12.40]	N/A	176 [2550]	20 [295]	207 [2998]	206 [2992]	N/A
15 [4]	5.8 [1.52]	5.2 [1.38]	4.2 [1.11]	N/A	119 [1722]	69 [1000]	138 [2004]	139 [2016]	N/A
38 [10]	13.4 [3.54]	12.8 [3.37]	11.9 [3.15]	N/A	119 [1728]	69 [994]	138 [2002]	138 [1995]	N/A
57 [15]	19.7 [5.21]	19.0 [5.03]	18.1 [4.78]	N/A	121 [1753]	69 [1004]	138 [2007]	138 [1994]	N/A
76 [20]	26.2 [6.91]	25.4 [6.70]	24.3 [6.41]	N/A	123 [1780]	69 [1004]	137 [1990]	138 [1999]	N/A
95 [25]	32.5 [8.59]	31.6 [8.36]	30.4 [8.03]	N/A	125 [1816]	69 [1002]	138 [2003]	138 [1998]	N/A
114 [30]	38.8 [10.26]	37.8 [9.99]	36.5 [9.63]	N/A	128 [1853]	69 [1003]	138 [1999]	138 [1998]	N/A
133 [35]	45.1 [11.90]	44.0 [11.62]	42.5 [11.22]	N/A	131 [1896]	69 [1003]	138 [1996]	138 [2002]	N/A
151 [40]	51.3 [13.55]	50.1 [13.24]	48.6 [12.83]	N/A	134 [1943]	69 [1005]	138 [1997]	138 [1998]	N/A
15 [4]	5.0 [1.33]	5.0 [1.32]	5.1 [1.36]	N/A	140 [2026]	139 [2010]	138 [2001]	138 [1995]	N/A
38 [10]	12.7 [3.35]	12.6 [3.32]	12.8 [3.37]	N/A	141 [2051]	139 [2011]	138 [2006]	138 [2008]	N/A
57 [15]	19.0 [5.02]	18.8 [4.98]	19.0 [5.02]	N/A	142 [2063]	138 [1997]	138 [2001]	138 [1994]	N/A
76 [20]	25.4 [6.70]	25.2 [6.65]	25.3 [6.67]	N/A	144 [2095]	138 [2000]	138 [2000]	138 [2002]	N/A
95 [25]	31.6 [8.36]	31.4 [8.31]	31.4 [8.31]	N/A	147 [2128]	138 [2004]	138 [1996]	138 [1996]	N/A
114 [30]	37.9 [10.02]	37.7 [9.96]	37.6 [9.93]	N/A	149 [2167]	138 [2001]	138 [2003]	138 [2001]	N/A
133 [35]	44.1 [11.64]	43.8 [11.57]	43.6 [11.52]	N/A	152 [2207]	138 [1999]	138 [1999]	138 [1994]	N/A
151 [40]	50.2 [13.26]	50.0 [13.21]	49.6 [13.11]	N/A	155 [2252]	138 [1995]	137 [1994]	138 [1998]	N/A

#### 3-WAY FLOW DIVIDER PERFORMANCE

> Performance data is typical. Performance of production units varies slightly from one motor to another. Performance data was averaged using 3 test units.

# FD (950 Series)



#### Hydraulic Flow Divider

#### **4-WAY FLOW DIVIDER**

▶ Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

#### ORDER CODE

#### 9501K2M8699AAAAA



The flow rate range is 19-189 Ipm [5-50 gpm] and has a weight of 34.9 kg [77 lb]. 950 Series weights vary ± 0.9 kg [2 lb] based on model configuration. By changing the first A in the model code to a Z, the unit will be unpainted instead of the standard black paint. Ports A, B, C, D & E are 1 1/16-12 UN.

Inlet Port A	Outlet Port B	Outlet Port C	Outlet Port F	Outlet Port	Inlet Port A	Outlet Port B	Outlet Port C	Outlet Port F	Outlet Port
lpm [gpm]	lpm [gpm]	lpm [gpm]	lpm [gpm]	lpm [gpm]	bar [psi]	bar [psi]	bar [psi]	bar [psi]	bar [psi]
15 [4]	4.7 [1.25]	3.2 [0.86]	3.7 [0.97]	3.6 [0.95]	113 [1636]	0 [3]	137 [1990]	137 [1989]	138 [2002]
38 [10]	11.2 [2.95]	8.8 [2.33]	9.2 [2.43]	9.0 [2.39]	112 [1622]	1 [7]	138 [1996]	138 [2002]	139 [2014]
57 [15]	15.8 [4.17]	13.5 [3.57]	13.9 [3.67]	13.8 [3.65]	112 [1620]	1 [18]	138 [2005]	138 [1996]	138 [2001]
76 [20]	20.6 [5.45]	18.0 [4.76]	18.6 [4.91]	18.6 [4.91]	114 [1648]	2 [28]	140 [2024]	138 [2002]	137 [1993]
95 [25]	25.4 [6.72]	22.7 [6.01]	23.2 [6.12]	23.3 [6.15]	115 [1671]	3 [39]	137 [1994]	139 [2011]	138 [2009]
114 [30]	30.2 [7.98]	27.3 [7.22]	27.7 [7.33]	27.9 [7.38]	118 [1708]	4 [53]	138 [1997]	138 [2000]	138 [2005]
133 [35]	35.0 [9.25]	31.9 [8.44]	32.2 [8.52]	32.5 [8.58]	120 [1744]	4 [65]	138 [2001]	138 [2000]	138 [2008]
151 [40]	39.8 [10.51]	36.5 [9.66]	36.7 [9.71]	37.1 [9.79]	123 [1784]	6 [81]	138 [1999]	137 [1990]	138 [2001]
15 [4]	5.4 [1.42]	3.1 [0.81]	3.7 [0.98]	3.2 [0.83]	171 [2483]	21 [309]	206 [2993]	207 [2995]	207 [3002]
38 [10]	12.0 [3.16]	8.4 [2.22]	9.3 [2.46]	8.5 [2.24]	170 [2470]	21 [299]	207 [3000]	207 [3002]	207 [2998]
57 [15]	17.2 [4.54]	12.8 [3.39]	13.9 [3.67]	13.1 [3.47]	171 [2481]	21 [304]	207 [3004]	207 [3003]	206 [2994]
76 [20]	22.4 [5.92]	17.1 [4.52]	18.6 [4.90]	17.8 [4.70]	172 [2501]	21 [302]	207 [3002]	207 [3009]	207 [2998]
95 [25]	27.5 [7.25]	21.6 [5.71]	23.1 [6.10]	22.4 [5.92]	174 [2525]	21 [304]	206 [2994]	207 [3001]	207 [3006]
114 [30]	32.5 [8.58]	26.2 [6.93]	27.6 [7.30]	26.9 [7.12]	176 [2557]	21 [302]	207 [3002]	207 [3008]	207 [2999]
133 [35]	37.4 [9.88]	30.6 [8.09]	32.2 [8.51]	31.6 [8.34]	179 [2595]	21 [302]	207 [3007]	207 [2998]	207 [3002]
151 [40]	42.5 [11.22]	35.1 [9.28]	36.6 [9.68]	36.0 [9.51]	182 [2636]	21 [299]	207 [3008]	207 [3002]	208 [3011]
15 [4]	4.7 [1.23]	3.4 [0.91]	3.7 [0.96]	3.5 [0.92]	124 [1797]	69 [997]	138 [2006]	138 [2007]	137 [1990]
38 [10]	10.3 [2.73]	9.1 [2.40]	9.5 [2.51]	9.2 [2.44]	124 [1798]	69 [1005]	137 [1993]	137 [1994]	137 [1992]
57 [15]	15.1 [3.99]	13.8 [3.63]	14.1 [3.72]	14.0 [3.69]	125 [1814]	69 [996]	137 [1989]	138 [2001]	137 [1992]
76 [20]	20.0 [5.29]	18.4 [4.85]	18.7 [4.94]	18.6 [4.92]	127 [1841]	69 [1007]	138 [2006]	138 [1999]	138 [2001]
95 [25]	24.9 [6.58]	23.0 [6.09]	23.3 [6.15]	23.3 [6.16]	129 [1864]	69 [1001]	138 [2002]	138 [2002]	137 [1992]
114 [30]	29.6 [7.83]	27.7 [7.33]	27.8 [7.36]	27.9 [7.37]	131 [1899]	69 [1007]	138 [2000]	138 [2004]	138 [2000]
133 [35]	34.3 [9.08]	32.4 [8.57]	32.4 [8.56]	32.5 [8.59]	133 [1932]	69 [1004]	138 [1996]	138 [2002]	138 [1999]
151 [40]	39.0 [10.32]	37.1 [9.79]	36.9 [9.75]	37.1 [9.81]	136 [1966]	69 [996]	137 [1994]	137 [1993]	138 [1997]
15 [4]	3.8 [1.01]	3.8 [0.99]	3.8 [1.01]	3.8 [1.00]	140 [2025]	139 [2010]	139 [2011]	139 [2009]	138 [2007]
38 [10]	9.6 [2.53]	9.4 [2.49]	9.6 [2.53]	9.5 [2.51]	140 [2033]	138 [1997]	138 [1999]	138 [1999]	138 [2002]
57 [15]	14.3 [3.78]	14.2 [3.74]	14.2 [3.76]	14.2 [3.75]	142 [2054]	138 [2001]	138 [1997]	138 [2002]	138 [2000]
76 [20]	19.1 [5.04]	18.9 [4.99]	18.8 [4.98]	18.9 [5.00]	143 [2076]	138 [1995]	137 [1993]	138 [2002]	138 [1996]
95 [25]	23.8 [6.30]	23.6 [6.24]	23.5 [6.20]	23.6 [6.25]	145 [2108]	138 [2002]	138 [1999]	138 [2004]	138 [1999]
114 [30]	28.6 [7.55]	28.3 [7.48]	28.0 [7.40]	28.3 [7.47]	148 [2140]	138 [2002]	138 [1999]	138 [2002]	138 [2000]
133 [35]	33.3 [8.79]	33.0 [8.71]	32.5 [8.60]	32.9 [8.69]	150 [2175]	138 [2002]	138 [2005]	138 [1998]	138 [2000]
151 [40]	38.0 [10.03]	37.6 [9.94]	37.0 [9.77]	37.4 [9.89]	153 [2218]	138 [1997]	138 [2008]	138 [2002]	138 [2005]

#### 4-WAY FLOW DIVIDER PERFORMANCE

Performance data is typical. Performance of production units varies slightly from one motor to another. Performance data was averaged using 3 test units.

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#### PATENTED MOTOR DESIGN

Roller Stator® is the registered trademark (tradename) assigned to White Drive Products' patented rotor design. Found at the heart of every White Drive Products motor, this revolutionary rotor design is what sets White Drive Products motors apart from all other gerotor style hydraulic motors. Although other rotors may appear similar to the Roller Stator® design, closer examination reveals critical differences. The most important difference between White Drive Products motors and other designs lies in the profile of the rotor.

Through exhaustive analysis and testing, it was discovered that minute modifications to the profile of a standard rotor lead to increases in the life and efficiency of the motor. At any given point of rotor rotation, it is necessary for only three points on the rotor to maintain contact with the sealing rollers to isolate the high and low pressure areas of the motor from each other. Full contact by the remaining four rollers is functionally unnecessary, and robs power from the motor by producing additional friction. By making small dimensional changes to the rotor profile, measured in mere microns, the contact pressure of the rotor on the four rollers in noncritical positions was reduced, bringing about some very positive benefits to overall motor performance.

Reducing pressure on the four noncritical rollers leads to a reduction in drag, which increases the mechanical efficiency of the motor over the entire operating range, producing more usable power at the output shaft. Equally important, allowing the rollers in the noncritical sealing points to relax provides them the opportunity to rebuild the oil film, which is critical in reducing wear and extending motor life. These two key benefits give the Roller Stator® motor the technological edge over competitive designs, providing customers with motors that excel in efficiency and durability.

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