

System combinations for 1 cylinder per MF-pump.

Date: 2023-01-15

| Stroke length | Maximal system load | Cylinder speed | | Pump type | Cylinder type | |
|---------------|-------------------------|----------------|------------|-----------|---------------|----------|
| | | Max. w motor | w. crank | | Leg cylind | Build in |
| | | [mm/s] | [mm/reeve] | | | |
| 150 mm | 100 kg | 26 | 8,5 | MF14053 | AB1150 | Ax1150 |
| 212 mm | | | | MF14075 | AB1212 | Ax1212 |
| 300 mm | | | | MF14106 | AB1300 | Ax1300 |
| 424 mm | | | | MF14150 | AB1424 | Ax1424 |
| 505 mm | | | | MF14212 | AB1505 | Ax1505 |
| 600 mm | | | | MF14212 | AB1600 | Ax1600 |
| 150 mm | 140 kg | 18 | 6 | MF14075 | AB2150 | Ax2150 |
| 212 mm | | | | MF14106 | AB2212 | Ax2212 |
| 300 mm | | | | MF14150 | AB2300 | Ax2300 |
| 424 mm | | | | MF14212 | AB2424 | Ax2424 |
| 505 mm | | | | MF14300 | AB2505 | Ax2505 |
| 600 mm | | | | MF14300 | AB2600 | Ax2600 |
| 150 mm | 140 kg (D4/D3 200kg) | 13,5 | 4,5 | MF13106 | AB2150 | Ax2150 |
| 212 mm | | | | MF13150 | AB2212 | Ax2212 |
| 300 mm | | | | MF13212 | AB2300 | Ax2300 |
| 424 mm | | | | MF13300 | AB2424 | Ax2424 |
| 505 mm | | | | MF13424 | AB2505 | Ax2505 |
| 600 mm | | | | MF13424 | AB2600 | Ax2600 |
| 150 mm | 200 kg (D4/D4 275kg) | 9 | 3 | MF13150 | AD3150 | Ax3150 |
| 212 mm | | | | MF13212 | AD3212 | Ax3212 |
| 300 mm | | | | MF13300 | AD3300 | Ax3300 |
| 424 mm | | | | MF13424 | AD3424 | Ax3424 |
| 505 mm | | | | MF13505 | AD3505 | Ax3505 |
| 600 mm | | | | MF13505 | AD3505 | Ax3505 |
| 150 mm | 275 kg* | 7,5 | 2,5 | MF13212 | AD4150 | Ax4150 |
| 212 mm | | | | MF13300 | AD4212 | Ax4212 |
| 300 mm | | | | MF13424 | AD4300 | Ax4300 |
| 356 mm | | | | MF13505 | AD4424 | Ax4424 |
| 600 mm | | | | MF13505 | AD4424 | Ax4424 |

* If You need longer strokes at the higher loads, please contact us and we will help You.

NOTE!! If the system is loaded unevenly, the load on each separate cylinder has to be checked, so that the max allowed load on each separate cylinder is not exceeded. See list below.

| Cylinder dimension | | 1 | 2 | 3 | 4 |
|-------------------------------------|---------------------|--------|--------|--------|--------|
| Max. allowed load per cylinder [kg] | -w. plastic tubing: | 100 kg | 140 kg | 200 kg | 275 kg |
| | -w. copper tubing: | 125 kg | 175 kg | 250 kg | 350 kg |

The technical data given in this document can be subject to a change without any further notice.

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System combinations for 2 cylinders per MF-pump.

Date: 2023-01-15

| Strokelengh | Maximal system load | Cylinder speed | | Pump type | Cylinder type | |
|-------------|--------------------------|------------------------|-------------------------|-----------|----------------------|--------------------|
| | | Max. w motor [mm/s] | w. crank [mm/reevel] | | Leg cylind AB, AD | Build in AC, AS |
| 150 mm | 200 kg | 26 | 8,5 | MF24053 | AB1150 | Ax1150 |
| 212 mm | | | | MF24075 | AB1212 | Ax1212 |
| 300 mm | | | | MF24106 | AB1300 | Ax1300 |
| 424 mm | | | | MF24150 | AB1424 | Ax1424 |
| 505 mm | | | | MF24212 | AB1505 | Ax1505 |
| 600 mm | | | | MF24212 | AB1600 | Ax1600 |
| 150 mm | 280 kg | 18 | 6 | MF24075 | AB2150 | Ax2150 |
| 212 mm | | | | MF24106 | AB2212 | Ax2212 |
| 300 mm | | | | MF24150 | AB2300 | Ax2300 |
| 424 mm | | | | MF24212 | AB2424 | Ax2424 |
| 505 mm | | | | MF24300 | AB2505 | Ax2505 |
| 600 mm | | | | MF24300 | AB2600 | Ax2600 |
| 150 mm | 280 kg (D4/D3 400kg) | 13,5 | 4,5 | MF23106 | AB2150 | Ax2150 |
| 212 mm | | | | MF23150 | AB2212 | Ax2212 |
| 300 mm | | | | MF23212 | AB2300 | Ax2300 |
| 424 mm | | | | MF23300 | AB2424 | Ax2424 |
| 505 mm | | | | MF23424 | AB2505 | Ax2505 |
| 600 mm | | | | MF23424 | AB2600 | Ax2600 |
| 150 mm | 400 kg (D4/D4 550 kg) | 9 | 3 | MF23150 | AD3150 | Ax3150 |
| 212 mm | | | | MF23212 | AD3212 | Ax3212 |
| 300 mm | | | | MF23300 | AD3300 | Ax3300 |
| 424 mm | | | | MF23424 | AD3424 | Ax3424 |
| 505 mm | | | | MF23505 | AD3505 | Ax3505 |
| 150 mm | 550 kg* | 7,5 | 2,5 | MF23212 | AD4150 | Ax4150 |
| 212 mm | | | | MF23300 | AD4212 | Ax4212 |
| 300 mm | | | | MF23424 | AD4300 | Ax4300 |
| 356 mm | | | | MF23505 | AD4424 | Ax4424 |
| 150 mm | 550 kg* | 5 | 1,5 | MF22300 | AD4150 | Ax4150 |
| 212 mm | | | | MF22424 | AD4212 | Ax4212 |
| 252 mm | | | | MF22505 | AD4300 | Ax4300 |

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NOTE!! If the system is loaded unevenly, the load on each separate cylinder has to be checked, so that the max allowed load on each separate cylinder is not exceeded. See list below.

| Cylinder dimension | | 1 | 2 | 3 | 4 |
|-------------------------------------|---------------------|--------|--------|--------|--------|
| Max. allowed load per cylinder [kg] | -w. plastic tubing: | 100 kg | 140 kg | 200 kg | 275 kg |
| | -w. copper tubing: | 125 kg | 175 kg | 250 kg | 350 kg |

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System combinations for 3 cylinders per MF-pump.

Date: 2023-01-15

| Stroke length | Maximal system load | Cylinder speed | | Pump type | Cylinder type | |
|---------------|---------------------|------------------------|------------------------|------------|----------------------|--------------------|
| | | Max. w motor [mm/s] | w. crank [mm/reeve] | | Leg cylind AB, AD | Build in AC, AS |
| 150 mm | 212 kg | 26 | 8,5 | MF34053 | AB1150 | Ax1150 |
| 212 mm | | | | MF34075 | AB1212 | Ax1212 |
| 300 mm | | | | MF34106 | AB1300 | Ax1300 |
| 424 mm | | | | MF34150 | AB1424 | Ax1424 |
| 505 mm | | | | MF34212P34 | AB1505 | Ax1505 |
| 600 mm | | | | MF34212 | AB1600 | Ax1600 |
| 150 mm | 300 kg | 18 | 6 | MF34075 | AB2150 | Ax2150 |
| 212 mm | | | | MF34106 | AB2212 | Ax2212 |
| 300 mm | | | | MF34150 | AB2300 | Ax2300 |
| 424 mm | | | | MF34212 | AB2424 | Ax2424 |
| 505 mm | | | | MF34300 | AB2505 | Ax2505 |
| 600 mm | | | | MF34300P48 | AB2600 | Ax2600 |
| 150 mm | 425 kg | 13,5 | 4,5 | MF33106 | AB2150 | Ax2150 |
| 212 mm | | | | MF33150 | AB2212 | Ax2212 |
| 300 mm | | | | MF33212 | AB2300 | Ax2300 |
| 424 mm | | | | MF33300 | AB2424 | Ax2424 |
| 505 mm | | | | MF33424P66 | AB2505 | Ax2505 |
| 600 mm | | | | MF33424 | AB2600 | Ax2600 |
| 150 mm | 600 kg | 9 | 3 | MF33150 | AD3150 | Ax3150 |
| 212 mm | | | | MF33212 | AD3212 | Ax3212 |
| 300 mm | | | | MF33300 | AD3300 | Ax3300 |
| 424 mm | | | | MF33424 | AD3424 | Ax3424 |
| 505 mm | | | | MF33505 | AD3505 | Ax3505 |
| | | | | | | |
| 150 mm | 825 kg* | 7,5 | 2,5 | MF33212 | AD4150 | Ax4150 |
| 212 mm | | | | MF33300 | AD4212 | Ax4212 |
| 300 mm | | | | MF33424 | AD4300 | Ax4300 |
| 356 mm | | | | MF33505 | AD4424 | Ax4424 |
| 150 mm | 825 kg* | 5 | 1,5 | MF32300 | AD4150 | Ax4150 |
| 212 mm | | | | MF32424 | AD4212 | Ax4212 |
| 252 mm | | | | MF32505 | AD4300 | Ax4300 |

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NOTE!! If the system is loaded unevenly, the load on each separate cylinder has to be checked, so that the max allowed load on each separate cylinder is not exceeded. See list below.

| Cylinder dimension | 1 | 2 | 3 | 4 |
|---|--------|--------|--------|--------|
| Maximal allowed load -w. plastic tubing: per cylinder [kg] | 100 kg | 140 kg | 200 kg | 275 kg |
| -w. copper tubing: | 125 kg | 175 kg | 250 kg | 350 kg |

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| Stroke length | System load | | Max load per cylinder** | Cylinder speed Max. w motor [mm/s] | No. of revs for stroke | Pump type | Cylinder type | |
|---------------|-------------|----------------------------|-------------------------|------------------------------------|------------------------|------------|-------------------|-----------------|
| | Maximal | Recommended for hand crank | | | | | Leg cylind AB, AD | Build in AC, AS |
| 150 mm | | | | | 17 | MF44053 | AB1150 | AX1150 |
| 212 mm | 212 kg | | 100 kg | 26 | 25 | MF44075 | AB1212 | AX1212 |
| 300 mm | | 150 kg | | | 35 | MF44106 | AB1300 | AX1300 |
| 424 mm | | | | | 50 | MF44150 | AB1424 | AX1424 |
| 505 mm | | | | | 59 | MF44212P34 | AB1505 | AX1505 |
| 600 mm | | | | | 70 | MF44212 | AB1600 | AX1600 |
| 150 mm | | | | | 25 | MF44075 | AB2150 | AX2150 |
| 212 mm | 300 kg | 212 kg | 140 kg | 18 | 35 | MF44106 | AB2212 | AX2212 |
| 300 mm | | | | | 50 | MF44150 | AB2300 | AX2300 |
| 424 mm | | | | | 70 | MF44212 | AB2424 | AX2424 |
| 505 mm | | | | | 84 | MF44300P48 | AB2505 | AX2505 |
| 600 mm | | | | | 100 | MF44300 | AB2600 | AX2600 |
| 150 mm | | | | | 35 | MF43106 | AB2150 | AX2150 |
| 212 mm | 425 kg | 300 kg | 140 kg | 13,5 | 50 | MF43150 | AB2212 | AX2212 |
| 300 mm | | | | | 70 | MF43212 | AB2300 | AX2300 |
| 424 mm | | | | | 100 | MF43300 | AB2424 | AX2424 |
| 505 mm | | | | | 119 | MF43424P66 | AB2505 | AX2505 |
| 600 mm | | | | | 141 | MF43424 | AB2600 | AX2600 |
| 150 mm | | | | | 50 | MF42150 | AB2150 | AX2150 |
| 212 mm | 560 kg | 425 kg | 140 kg | 9 | 70 | MF42212 | AB2212 | AX2212 |
| 300 mm | | | | | 100 | MF42300 | AB2300 | AX2300 |
| 424 mm | | | | | 141 | MF42424 | AB2424 | AX2424 |
| 505 mm | | | | | 168 | MF42505 | AB2505 | AX2505 |
| 150 mm | | | | | 50 | MF43150 | AD3150 | AX3150 |
| 212 mm | 600 kg | 425 kg | 200 kg | 9 | 70 | MF43212 | AD3212 | AX3212 |
| 300 mm | | | | | 100 | MF43300 | AD3300 | AX3300 |
| 424 mm | | | | | 141 | MF43424 | AD3424 | AX3424 |
| 505 mm | | | | | 168 | MF43505 | AD3505 | AX3505 |
| 150 mm | | | | | 70 | MF43212 | AD4150 | AX4150 |
| 212 mm | 850 kg* | 600 kg | 275 kg | 7,5 | 100 | MF43300 | AD4212 | AX4212 |
| 300 mm | | | | | 141 | MF43424 | AD4300 | AX4300 |
| 356 mm | | | | | 168 | MF43505 | AD4424 | AX4424 |
| 150 mm | | | | | 100 | MF42300 | AD4150 | AX4150 |
| 212 mm | 1100 kg* | 850 kg | 275 kg | 5 | 141 | MF42424 | AD4212 | AX4212 |
| 252 mm | | | | | 168 | MF42505 | AD4300 | AX4300 |
| 150 mm | | | | | 141 | MF42424 | - | AX5150 |
| 178 mm | 1600 kg* | 1200 kg | 400 kg | 3,5 | 168 | MF42505 | - | AX5212 |