

Fuji

FL *3 Series Non Shut-off Pulse Tools



- 3 Times Longer Service Life
- High Torque Accuracy
- Low Noise/Vibration
- High Productivity
- Ergonomic Design

FL *3 series pulse tools provide longer service life with advanced pulse unit design. It brings you reduction of maintenance cost and improvement of productivity. FL *3 series are ideal fastening tools in various assembly applications.



FL *3 Series Non Shut-off Pulse Tools

FEATURES & BENEFITS

Advanced Pulse Unit Design
Improve durability 3 times longer

Accumulator Mechanism
Minimize torque scatter



Ergonomic Friendly Design
Easily operate with perfect balance

● ACCUMULATOR MECHANISM

The accumulator functions to compensate against the sudden rise of oil pressure when tightening a hard joint. Torque scatter and error are minimized. As the oil temperature increases during consecutive tightening, the accumulator takes in the expanded volume of oil to maintain a consistent oil volume in the pulse unit. This ensures high tightening torque accuracy.

● ADVANCED PULSE UNIT DESIGN

Advanced pulse unit design provides generation of high hydraulic pressure and reduction of oil deterioration speed during consecutive tightening. Oil deterioration and leakage from metal constructed pulse unit with high sealing technology becomes minimized level to ensure long service life.

● ERGONOMIC DESIGN

Compared with conventional tools, weight is kept to a minimum. The grip handle size is optimized to provide enhanced levels of operator comfort. This special grip also absorbs vibration more effectively. Furthermore, reduced noise and vibration levels are standard with FL *3 series due to the optimized dimension.

STANDARD MODELS



FL-4SC, 5SC, 6SC

GLOBAL SPECIFICATIONS

Angle Head Type – Square Drive

| Model | Capacity (Bolt Size) | Recommended Torque Range | | Free Speed | Square Drive Size | | Overall Length (without socket) | | Weight (without socket) | | Air Consumption (At Load) | | Air Inlet Thread | Air Hose Size | |
|----------|-------------------------|-----------------------------|-------------|---------------|-------------------|-------|------------------------------------|------|----------------------------|------|------------------------------|------|---------------------|---------------------|-----|
| | | mm | N.m | | ft.lb | min-1 | mm | in | mm | in | kg | lb | | m ³ /min | cfm |
| FL-4SC-3 | M5~M6 | 5 ~ 13 | 3.7 ~ 9.6 | 5000 | 9.5 | 3/8 | 238 | 9.37 | 1.20 | 2.65 | 0.32 | 11.3 | 1/4" Rc | 6.3 | 1/4 |
| FL-5SC-3 | M6~M8 | 10 ~ 22 | 7.4 ~ 16.2 | 6600 | 9.5 | 3/8 | 238 | 9.37 | 1.20 | 2.65 | 0.33 | 11.7 | 1/4" Rc | 6.3 | 1/4 |
| FL-6SC-3 | M8 | 19 ~ 29 | 14.0 ~ 21.4 | 5900 | 9.5 | 3/8 | 252 | 9.92 | 1.30 | 2.89 | 0.34 | 12.0 | 1/4" Rc | 9.5 | 3/8 |

FL *3 Series Non Shut-off Pulse Tools

STANDARD MODELS



FL-4, 5, 6
Square drive



FL-7, 9, 11, 13
Square drive



FL-4D, 5D, 6D
Bit shank



FL-4S, 5S, 6S
Square drive



FL-4SD, 5SD, 6SD
Bit shank

GLOBAL SPECIFICATIONS

Pistol Type – Square Drive

| Model | Capacity (Bolt Size) | Recommended Torque Range | | Free Speed min-1 | Square Drive Size | | Overall Length (without socket) | | Weight (without socket) | | Air Consumption (At Load) | | Air Inlet Thread | Air Hose Size | |
|---------|----------------------|--------------------------|--------------|---------------------|-------------------|-----|---------------------------------|------|-------------------------|------|---------------------------|------|------------------|---------------|-----|
| | mm | N.m | ft.lb | | mm | in | mm | in | kg | lb | m ³ /min | cfm | in | mm | in |
| FL-4-3 | M6 | 16 ~ 24 | 11.8 ~ 17.7 | 6700 | 9.5 | 3/8 | 140 | 5.51 | 0.79 | 1.74 | 0.36 | 12.7 | 1/4" Rc | 6.3 | 1/4 |
| FL-5-3 | M6~M8 | 20 ~ 40 | 14.7 ~ 29.5 | 6300 | 9.5 | 3/8 | 140 | 5.51 | 0.79 | 1.74 | 0.40 | 14.1 | 1/4" Rc | 6.3 | 1/4 |
| FL-6-3 | M8 | 28 ~ 56 | 20.6 ~ 41.3 | 6700 | 9.5 | 3/8 | 152 | 5.98 | 0.83 | 1.83 | 0.42 | 14.8 | 1/4" Rc | 9.5 | 3/8 |
| FL-7-3 | M8~M10 | 34 ~ 60 | 25.1 ~ 44.2 | 6100 | 9.5 | 3/8 | 155 | 6.10 | 1.02 | 2.25 | 0.60 | 21.2 | 1/4" Rc | 9.5 | 3/8 |
| FL-9-3 | M10 | 52 ~ 96 | 38.3 ~ 70.8 | 4600 | 12.7 | 1/2 | 173 | 6.81 | 1.45 | 3.20 | 0.65 | 23.0 | 1/4" Rc | 9.5 | 3/8 |
| FL-11-3 | M10~M12 | 80 ~ 136 | 59.0 ~ 100.2 | 5000 | 12.7 | 1/2 | 184 | 7.24 | 1.80 | 3.97 | 0.80 | 28.3 | 1/4" Rc | 9.5 | 3/8 |
| FL-13-3 | M12~M14 | 120 ~ 172 | 88.4 ~ 126.8 | 3800 | 12.7 | 1/2 | 192 | 7.56 | 2.10 | 4.63 | 0.85 | 30.0 | 1/4" Rc | 9.5 | 3/8 |

Pistol Type – Bit Shank

| Model | Capacity (Bolt Size) | Recommended Torque Range | | Free Speed min-1 | Bit Shank Size | | Overall Length (without socket) | | Weight (without socket) | | Air Consumption (At Load) | | Air Inlet Thread | Air Hose Size | |
|----------|----------------------|--------------------------|-------------|---------------------|----------------|-----|---------------------------------|------|-------------------------|------|---------------------------|------|------------------|---------------|-----|
| | mm | N.m | ft.lb | | mm | in | mm | in | kg | lb | m ³ /min | cfm | in | mm | in |
| FL-4D-3 | M6 | 14 ~ 20 | 10.3 ~ 14.7 | 6700 | 6.35 | 1/4 | 140 | 5.51 | 0.79 | 1.74 | 0.36 | 12.7 | 1/4" Rc | 6.3 | 1/4 |
| FL-4D-30 | M6 | 14 ~ 20 | 10.3 ~ 14.7 | 6700 | 6.35 | 1/4 | 140 | 5.51 | 0.79 | 1.74 | 0.36 | 12.7 | 1/4" Rc | 6.3 | 1/4 |
| FL-5D-3 | M6~M8 | 18 ~ 32 | 13.3 ~ 23.6 | 6300 | 6.35 | 1/4 | 140 | 5.51 | 0.79 | 1.74 | 0.40 | 14.1 | 1/4" Rc | 6.3 | 1/4 |
| FL-5D-30 | M6~M8 | 18 ~ 32 | 13.3 ~ 23.6 | 6300 | 6.35 | 1/4 | 140 | 5.51 | 0.79 | 1.74 | 0.40 | 14.1 | 1/4" Rc | 6.3 | 1/4 |
| FL-6D-3 | M8 | 25 ~ 42 | 18.4 ~ 31.0 | 6700 | 6.35 | 1/4 | 152 | 5.98 | 0.83 | 1.83 | 0.42 | 14.8 | 1/4" Rc | 9.5 | 3/8 |
| FL-6D-30 | M8 | 25 ~ 42 | 18.4 ~ 31.0 | 6700 | 6.35 | 1/4 | 152 | 5.98 | 0.83 | 1.83 | 0.42 | 14.8 | 1/4" Rc | 9.5 | 3/8 |

Straight Type – Square Drive

| Model | Capacity (Bolt Size) | Recommended Torque Range | | Free Speed min-1 | Square Drive Size | | Overall Length (without socket) | | Weight (without socket) | | Air Consumption (At Load) | | Air Inlet Thread | Air Hose Size | |
|---------|----------------------|--------------------------|-------------|---------------------|-------------------|-----|---------------------------------|------|-------------------------|------|---------------------------|------|------------------|---------------|-----|
| | mm | N.m | ft.lb | | mm | in | mm | in | kg | lb | m ³ /min | cfm | in | mm | in |
| FL-4S-3 | M6 | 6 ~ 14 | 4.4 ~ 10.3 | 6000 | 9.5 | 3/8 | 210 | 8.27 | 0.85 | 1.87 | 0.36 | 12.7 | 1/4" Rc | 6.3 | 1/4 |
| FL-5S-3 | M6~M8 | 11 ~ 24 | 8.1 ~ 17.7 | 7000 | 9.5 | 3/8 | 210 | 8.27 | 0.85 | 1.87 | 0.40 | 14.1 | 1/4" Rc | 6.3 | 1/4 |
| FL-6S-3 | M8 | 21 ~ 32 | 15.5 ~ 23.6 | 6400 | 9.5 | 3/8 | 221 | 8.70 | 0.90 | 1.98 | 0.42 | 14.8 | 1/4" Rc | 9.5 | 3/8 |

Straight Type – Bit Shank

| Model | Capacity (Bolt Size) | Recommended Torque Range | | Free Speed min-1 | Bit Shank Size | | Overall Length (without socket) | | Weight (without socket) | | Air Consumption (At Load) | | Air Inlet Thread | Air Hose Size | |
|-----------|----------------------|--------------------------|-------------|---------------------|----------------|-----|---------------------------------|------|-------------------------|------|---------------------------|------|------------------|---------------|-----|
| | mm | N.m | ft.lb | | mm | in | mm | in | kg | lb | m ³ /min | cfm | in | mm | in |
| FL-4SD-3 | M6 | 6 ~ 14 | 4.4 ~ 10.3 | 6000 | 6.35 | 1/4 | 210 | 8.27 | 0.85 | 1.87 | 0.36 | 12.7 | 1/4" Rc | 6.3 | 1/4 |
| FL-4SD-30 | M6 | 6 ~ 14 | 4.4 ~ 10.3 | 6000 | 6.35 | 1/4 | 210 | 8.27 | 0.85 | 1.87 | 0.36 | 12.7 | 1/4" Rc | 6.3 | 1/4 |
| FL-5SD-3 | M6~M8 | 11 ~ 24 | 8.1 ~ 17.7 | 7000 | 6.35 | 1/4 | 210 | 8.27 | 0.85 | 1.87 | 0.40 | 14.1 | 1/4" Rc | 6.3 | 1/4 |
| FL-5SD-30 | M6~M8 | 11 ~ 24 | 8.1 ~ 17.7 | 7000 | 6.35 | 1/4 | 210 | 8.27 | 0.85 | 1.87 | 0.40 | 14.1 | 1/4" Rc | 6.3 | 1/4 |
| FL-6SD-3 | M8 | 21 ~ 32 | 15.5 ~ 23.6 | 6400 | 6.35 | 1/4 | 221 | 8.70 | 0.90 | 1.98 | 0.42 | 14.8 | 1/4" Rc | 9.5 | 3/8 |
| FL-6SD-30 | M8 | 21 ~ 32 | 15.5 ~ 23.6 | 6400 | 6.35 | 1/4 | 221 | 8.70 | 0.90 | 1.98 | 0.42 | 14.8 | 1/4" Rc | 9.5 | 3/8 |

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TOOL SELECTION GUIDE

Pistol Type – Square Drive

| Model No. | Part No. | P type anvil | BF type anvil | CE certified |
|---------------|------------|--------------|---------------|--------------|
| FL-4-3 P | 5412105348 | x | | |
| FL-4-3 BF | 5412105713 | | x | |
| FL-4-3 BF EC | 5412105714 | | x | x |
| FL-5-3 P | 5412105351 | x | | |
| FL-5-3 BF | 5412105715 | | x | |
| FL-5-3 BF EC | 5412105716 | | x | x |
| FL-6-3 P | 5412105354 | x | | |
| FL-6-3 BF | 5412105717 | | x | |
| FL-6-3 BF EC | 5412105718 | | x | x |
| FL-7-3 P | 5412105357 | x | | |
| FL-7-3 BF | 5412105719 | | x | |
| FL-7-3 BF EC | 5412105720 | | x | x |
| FL-9-3 P | 5412105604 | x | | |
| FL-9-3 BF | 5412105605 | | x | |
| FL-9-3 BF EC | 5412105614 | | x | x |
| FL-11-3 P | 5412105615 | x | | |
| FL-11-3 BF | 5412105616 | | x | |
| FL-11-3 BF EC | 5412105617 | | x | x |
| FL-13-3 P | 5412105627 | x | | |
| FL-13-3 BF | 5412105628 | | x | |
| FL-13-3 BF EC | 5412105629 | | x | x |

Pistol Type – Bit Shank

| Model No. | Part No. | Short type | Long type | CE certified |
|------------|------------|------------|-----------|--------------|
| FL-4D-3 | 5412105349 | x | | |
| FL-4D-3 EC | 5412105727 | x | | x |
| FL-4D-30 | 5412105350 | | x | |
| FL-5D-3 | 5412105352 | x | | |
| FL-5D-3 EC | 5412105728 | x | | x |
| FL-5D-30 | 5412105353 | | x | |
| FL-6D-3 | 5412105355 | x | | |
| FL-6D-3 EC | 5412105729 | x | | x |
| FL-6D-30 | 5412105356 | | x | |

Straight Type – Square Drive

| Model No. | Part No. | P type anvil | BF type anvil | CE certified |
|---------------|------------|--------------|---------------|--------------|
| FL-4S-3 P | 5412105358 | x | | |
| FL-4S-3 BF EC | 5412105721 | | x | x |
| FL-5S-3 P | 5412105361 | x | | |
| FL-5S-3 BF EC | 5412105722 | | x | x |
| FL-6S-3 P | 5412105364 | x | | |
| FL-6S-3 BF EC | 5412105723 | | x | x |

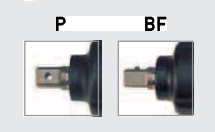
Straight Type – Bit Shank

| Model No. | Part No. | Short type | Long type | CE certified |
|-------------|------------|------------|-----------|--------------|
| FL-4SD-3 | 5412105359 | x | | |
| FL-4SD-3 EC | 5412105730 | x | | x |
| FL-4SD-30 | 5412105360 | | x | |
| FL-5SD-3 | 5412105362 | x | | |
| FL-5SD-3 EC | 5412105731 | x | | x |
| FL-5SD-30 | 5412105363 | | x | |
| FL-6SD-3 | 5412105365 | x | | |
| FL-6SD-3 EC | 5412105732 | x | | x |
| FL-6SD-30 | 5412105366 | | x | |

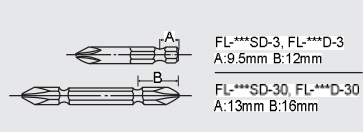
Angle Head Type – Square Drive

| Model No. | Part No. | P type anvil | BF type anvil | CE certified |
|------------------|------------|--------------|---------------|--------------|
| FL-4SC-3 P | 5412105562 | x | | |
| FL-4SC-3 BF N EC | 5412105563 | | x | x |
| FL-5SC-3 P | 5412105564 | x | | |
| FL-5SC-3 BF N EC | 5412105565 | | x | x |
| FL-6SC-3 P | 5412105566 | x | | |
| FL-6SC-3 BF N EC | 5412105567 | | x | x |

SQUARE DRIVE ANVIL



BIT SIZE



Fuji Authorized Distributor:



www.fujitools.com