

Soft starter benefits for
WATER UTILITY APPLICATIONS

| BENEFIT | FEATURE | MILLISCREEN | PUMP | SEPARATOR | |
|--|---|---------------------------|------|-----------|---|
| Protect equipment | Prevent damage due to reverse operation | Phase sequence | ■ | ■ | |
| | Prevent damage from debris in water | Instantaneous overcurrent | ■ | | |
| | Prolong life of pumps, pipes, valves and headworks by preventing water hammer | Soft stop | ■ | | |
| | Early warning of abnormal load conditions (broken couplings, blocked pipes etc) | Undercurrent | | ■ | ■ |
| | Prevent chain breakages | Gentle acceleration | ■ | | ■ |
| Maximise productivity | Safely use full motor capacity without nuisance tripping | Motor thermal model | ■ | ■ | |
| | Keep critical process running | PowerThrough | ■ | ■ | |
| Smoother operation | Minimise stress on electrical supply | Reduced start current | ■ | ■ | |
| | Reduce mechanical stress during start | Gentle acceleration | ■ | ■ | |
| | Minimise pressure surges | | ■ | | |
| Intelligent control of the whole system | Simplify control circuits by directly connecting pressure switches | Digital inputs | ■ | | |

Soft starter benefits for WATER TREATMENT APPLICATIONS

| BENEFIT | FEATURE | AERATOR | BLOWER / FAN | MILLISCREEN | PUMP | SEPARATOR |
|--|---|---------|--------------|-------------|------|-----------|
| Protect equipment | Prevent damage due to reverse operation | | | ■ | ■ | |
| | Prevent damage from debris in water | | ■ | | ■ | |
| | Prolong life of pumps, pipes, valves and headworks by preventing water hammer | | | | ■ | |
| | Early warning of abnormal load conditions (broken couplings, blocked pipes etc) | ■ | ■ | ■ | ■ | ■ |
| | Prevent chain breakages | | | ■ | | |
| Maximise productivity | Safely use full motor capacity without nuisance tripping | ■ | ■ | ■ | ■ | ■ |
| | Complete critical processes | □ | ■ | ■ | ■ | ■ |
| Smoother operation | Minimise stress on electrical supply | ■ | ■ | ■ | ■ | ■ |
| | Reduce mechanical stress during start | ■ | ■ | ■ | ■ | ■ |
| | Minimise pressure surges | | | | ■ | |
| | Keep aerator stable during start | ■ | | | | |
| Intelligent control of the whole system | Simplify control circuits by directly connecting pressure switches | | | | ■ | |