

# Changelog for `pfdicons` package

Aaron Drews  
`adrews at ucsd dot edu`

11 February, 2026

**Version 1.1, 2026/02/11:** Added icons for control, solids processing, and utilities. Added anchor border code to support polar coordinates for alignment operations. Added pin option for stream descriptions.

- (new) Added 13 new flowsheet icons:
  - COOLING TOWER: utility heat exchanger (induced, forced, natural)
  - PRV: pressure relief valve
  - NRV: no return valve
  - CTRL: controller with options for type, sense, alarm, field display type
  - PRESS FILTER: press filter (solids separator)
  - CENTRIFUGE: centrifuge (solids separator)
  - BELT DRYER: belt dryer (solids separator)
  - ROTARY DRYER: rotary dryer (solids separator)
  - CYCLONE: cyclone (solids separator)
  - BALL MILL: ball mill (solids size reduction)
  - ROLL CRUSHER: roll crusher (solids size reduction)
  - GRANULATOR: granulator, aka agglomerator (solids production)
  - CRYSTALLIZER: crystallizer with integrated heat exchanger loop (solids production)
- (new) Added `pfdpin`, a modified TikZ pin, to provide up to three stream descriptors
- (new) Added `anchorborder` code for most shapes to support polar alignment notation (e.g., `shape.45`).
- Changed default `unit int` key value to be `none` (instead of `empty`) to be more consistent with other TikZ and PFDIcons defaults.
- Forced text color of numbered columns to always be black (supports column fill colors).

**Version 1.0a, 2021/07/26:** Documentation updated

- Fixed a few typos in the stream crossing example of the Quick Reference.
- Changed the revision date to be fixed (not using `February 11, 2026`).
- License normalized to LPPL 1.3c in both `pfdicons.sty` and `README.md`.
- Forced a page break at Fluid transport to stop a runoff on pg. 10.
- Incorporated the `accsupp` package to enable copy/paste without line numbers, and enabled `columns=fullflexible` to help minimize the number of erroneous whitespaces.
- Fixed a few miscellaneous code alignment mistakes (remnants from an accidental “hard line break” in TeXstudio).

**Version 1.0, 2021/07/23:** Initial release

- Package file: `pfdicons.sty`
- Primary files: `README.md`, `pfdicons-doc.tex`, `pfdicons-changelog.tex`
- Derived files: `pfdicons-doc.pdf`, `pfdicons-changelog.pdf`.