

# Backflow preventer pressure losses

NFPA 13 / AWWA

Typical pressure loss across reduced-pressure (RP) and double-check (DC) backflow assemblies at design flow.

## Reference table

| Size (in) | DCVA loss (psi) | DCVA loss (bar) | RPZ loss (psi) | RPZ loss (bar) |
|-----------|-----------------|-----------------|----------------|----------------|
| 2         | 6               | 0.41            | 12             | 0.83           |
| 3         | 5               | 0.34            | 11             | 0.76           |
| 4         | 4.5             | 0.31            | 10             | 0.69           |
| 6         | 4               | 0.28            | 9              | 0.62           |
| 8         | 3.5             | 0.24            | 8              | 0.55           |
| 10        | 3               | 0.21            | 7.5            | 0.52           |

## Notes

- Values are typical mid-range; use manufacturer curves for final calc.

Source: Manufacturer published curves (Watts, Wilkins, Ames); USC FCCCHR.