Steam Trap Selection Guide Chart

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                              Steam System Conditions
                                        │
            ┌───────────────────────────┴───────────────────────────┐
            │                                                        │
  Condensate must be completely                         Condensate must be sub-cooled
  removed at saturation condition                       ahead of trap to improve
  to prevent water hammer                               operating efficiency of system
   │         │             │                                         │
   ▼         ▼             ▼                                         ▼
Modulating load,   Constant load   Outdoor location        Varying pressure and load where
wide range of                                              fast response is required
condensate load                                                     │
   │                                    ▼                           ▼
   ▼                             Super heat or            Pressure up to
Water hammer                     water hammer             125 psig
due to wet                                                          │
returns or lifts   ┌──────┬──────┐                                  │
   │               ▼      ▼                                         │
   ▼          Fast air   Air vent                                   │
Fast air       venting   rate not                                   │
venting       required   important                                  │
required                                                            │
   │                                                                │
   ▼                                                                │
Pressure over                                                       │
175 psig                                                            │
   │                                                                │
   ▼           ▼          ▼              ▼                          ▼
Float and    Bucket trap  Bucket trap  Disc trap    Thermostatic bellows
Thermostatic with thermal                            type trap
             vent
```