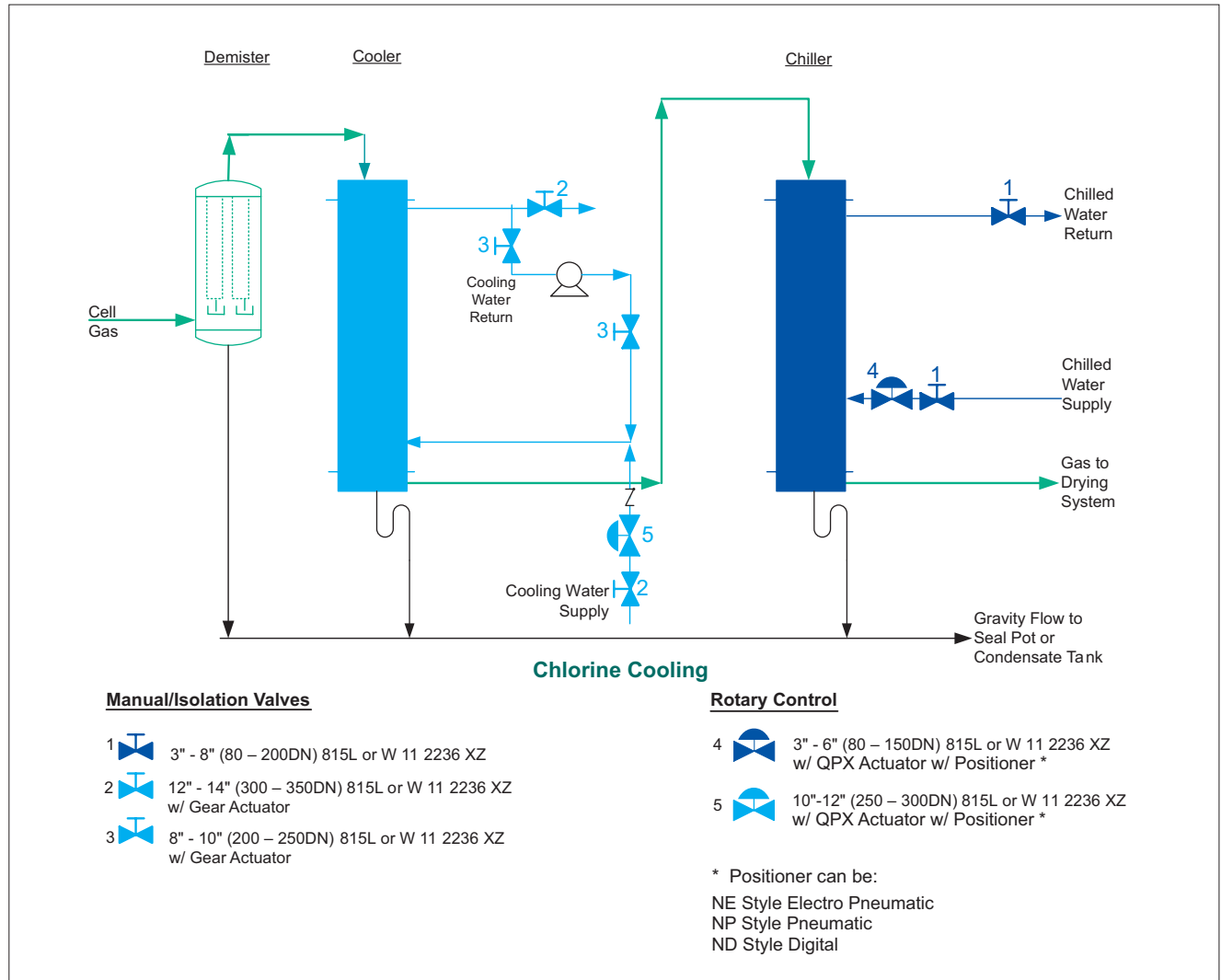


Chlorine Cooling



Chlorine Processing

Converting the hot, wet cell gas produced at essentially atmospheric pressure into cold, dry chlorine under moderate pressure requires extensive processing.

Cooling

Cooling is the first of several steps in the process. Cooling from a cell temperature of about 194° F (90°C) removes most of the water from gas. If the cooling water temperature is not low enough to reduce the water content of the gas to the required level, the cooling is enhanced by a second unit that operates on chilled water. This further reduces the temperature to about 60° F (15°C) and produces a drier gas.

Valve Requirements

Cooling and chill water applications are ideal for Wafer-Sphere® valves. Applications include chilled water return and supply (1 ); cooling water pump isolation (3 ); cooling water supply (2 ); cooling water temperature control (5 ); and chilled water control (4 ). Cooling water operating conditions are about 80°F (27°C) and 90 psi (6 bar). Chill water conditions are 45°F (7°C) and 90 psi (6 bar).

Neles Solution

Modulating control valves include QPX spring diaphragm actuator with positioner and accessories as specified.

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