



0814 Hydraulic Pumps

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00 Design principles

0.01 Main considerations

It is a requirement to undertake the [00 PLANNING AND DESIGN/0001R - DESIGN REFERENCE](#) and [GLOSSARY OF TERMS](#) information into all aspects of design, detailing and delivery when developing the content here within. Clear demonstration of adherence to these requirements is part of the services and will be called upon at key points in the project and during at the discretion of the Department of Education (DoE).

GUIDE NOTE: Refer to [00 PLANNING AND DESIGN/0001C DESIGN CHECKLIST - HYDRAULIC](#) and [08 HYDRAULIC/0822 WASTEWATER](#)

Specification

01 General

As per current NATSPEC except as follows:

In accordance with the NSW Government Resource Efficiency Policy, all fixtures and fittings must be at least the average WELS star rating by product type. Where WELS rating is not available, use the alternative WaterMark rating scheme.

All new water-using appliances must be at least 0.5 stars above the average Water Efficiency Labelling and Standards (WELS) star rating by product type, except toilets and urinals, must be purchased at the average WELS star rating.

02 Product

As per current NATSPEC.

03 Execution

As per current NATSPEC.

04 Selections

As per current NATSPEC except as follows:

GUIDE NOTE: Delete subclause "4.1 Hydraulic Pumps" nominated in NATSPEC Building Template/ Worksection and replace with the following text:

4.1 Hydraulic Pump Schedules

Table 01: Hydraulic Pump schedule

Property	P1	P2	P3
Pump type			
Liquid being pumped			
Number of pumps in system			
Flow (L/s) per pump			
Duty head at flow rate (kPa)			
Shut-off head (kPa)			
Net positive suction head (NPSH) (m)			
Maximum fluid temperature (°C)			
Maximum pump speed (r/min)			
Minimum efficiency at duty point (%)			
Impeller material			
Casing material			
Minimum motor (kW)			