



# APPROVED PRODUCTS AND MANUFACTURERS - Mechanical

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## Document Control

**Document Owner:** Group Manager Planning & Engineering

**Document Approver:** Group Manager Planning & Engineering

### Document Version History

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## Table of Contents

<b>Document Control</b> .....	<b>3</b>
<b>1. INTRODUCTION</b> .....	<b>5</b>
<b>2. ACTUATORS</b> .....	<b>6</b>
2.1. Valve Actuators – Electric.....	6
2.2. Valve Actuators – Pneumatic.....	6
2.3. Valve Actuators – Solenoid .....	6
<b>3. AIR COMPRESSORS</b> .....	<b>7</b>
3.1. Screw mechanism .....	7
3.2. Reciprocating mechanism .....	7
<b>4. BLOWERS</b> .....	<b>7</b>
4.1. Process Liquid Aeration.....	7
<b>5. MATERIAL HANDLING</b> .....	<b>8</b>
5.1. Conveyors.....	8
5.2. Grit paddles.....	8
<b>6. MIXERS</b> .....	<b>8</b>
6.1. Mixers .....	8
6.2. Top Entry Agitation Mixers .....	9
<b>7. POWER TRANSMISSION (GENERAL)</b> .....	<b>9</b>
7.1. Bearings.....	9
7.2. Gearboxes.....	9
<b>8. PROCESS SYSTEM VALVES</b> .....	<b>10</b>
8.1. Air Valves.....	10
8.2. Air Release Valves .....	10
8.3. Butterfly Valves .....	10
8.4. Globe Valves.....	11
8.5. Gate / Stop Valves .....	11
8.6. Penstock Valves.....	11
8.7. PVC Valves – Treatment.....	12
8.8. Non Return Valves .....	12
<b>9. PUMPS</b> .....	<b>12</b>
9.1. Dosing Pumps.....	12
9.2. Grit Pumps .....	13
9.3. Bore Pumps .....	13
9.4. Potable Water Pumps .....	13
9.5. Sewerage Pumps – Submersible .....	14
9.6. Sewerage Pump Pedestals .....	14
<b>10. SCREENINGS</b> .....	<b>14</b>
10.1. STEP SCREENS .....	14
10.2. DRUM SCREENS .....	14
<b>11. WASH PRESS</b> .....	<b>15</b>
11.1. Wash Press.....	15

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## 1. INTRODUCTION

This document lists products authorised by Hunter Water for use in the Hunter Water systems, together with the names of manufacturers of the approved product. Information on suppliers of the products should be obtained directly from the manufacturers.

The document is intended to be read in conjunction with:

- (i) The project technical specification and design drawings
- (ii) Hunter Water Design and Construction Standards, including the WSA02 Sewerage Code (HW Version), WS03 Water Supply Code (HW Version), the Hunter Water Design Manual, Standard Technical Specifications and Hunter Water Standard Construction Practice Drawings.
- (iii) The Water Services Association of Australia (WSAA) Product Specifications Hunter Water Version

Further information and copies of Hunter Water Design Standards are available on the Hunter Water website:

<http://www.hunterwater.com.au/Building-and-Development/Drawings-Plans-Specifications/>

Further information on the process for product authorisation and the current copy of this document is available on the Hunter Water website:

<http://www.hunterwater.com.au/Building-and-Development/Approved-Designers-Suppliers-and-Contractors/Approved-Products-and-Manufacturers.aspx>

General background information on products and materials is also available on the WSAA website ([www.wsaa.asn.au](http://www.wsaa.asn.au)). Not all products and materials appraised by WSAA are approved for use in the Hunter Water systems. HWC undertakes an independent assessment of the suitability of each product with HWC infrastructure, requirements and policies.

## 2. ACTUATORS

### 2.1. Valve Actuators – Electric

Manufacturer	Description / Comments / Part No
<i>Rotork</i>	
<i>Auma</i>	
Bernard	
George Fischer	To be used on small process valves only
Festo	To be used on small process valves only
Sipos	

### 2.2. Valve Actuators – Pneumatic

Electronic proximity position detection to be by conductive productive switches is preferred.

Manufacturer	Description / Comments / Part No
<i>Bray</i>	
<i>Accord</i>	
<i>Festo</i>	
<i>Burkert</i>	
<i>Motivact</i>	
George Fischer	
BIFFI	

### 2.3. Valve Actuators – Solenoid

Applies for valve bore up to 50mm.

Manufacturer	Description / Comments / Part No
<i>Burkert</i>	
George Fischer	
Festo	

### 3. AIR COMPRESSORS

#### 3.1. Screw mechanism

Manufacturer	Description / Comments / Part No
<i>Kaeser</i>	
<i>Atlas Copco</i>	

#### 3.2. Reciprocating mechanism

Manufacturer	Description / Comments / Part No
<i>Pilot</i>	
<i>Pulford</i>	

### 4. BLOWERS

#### 4.1. Process Liquid Aeration

Manufacturer	Description / Comments / Part No
<i>Ingersol Rand Hibon (PDA)</i>	
<i>Aerzen</i>	
<i>Atlas Copco</i>	
<i>APG Neuros</i>	
<i>Sulzer</i>	

## 5. MATERIAL HANDLING

### 5.1. Conveyors

Manufacturer	Description / Comments / Part No
<i>Spirac</i>	For screw conveyors
MEVA (VoR Environmental)	
<i>Sanki</i>	For belt conveyors
<i>Spirac</i>	For sluice conveyors
Rite-veyor	

### 5.2. Grit paddles

Manufacturer	Description / Comments / Part No
<i>Spirac</i>	
<i>Jones &amp; Attwood</i>	
<i>VoR Environmental</i>	

## 6. MIXERS

### 6.1. Mixers

Manufacturer	Description / Comments / Part No
<i>ITT Flygt</i>	Fitted with cutter rings
ABS	
<i>KSB</i>	



## 6.2. Top Entry Agitation Mixers

Manufacturer	Description / Comments / Part No
<i>Lightnin (SPX Flow)</i>	
<i>Milton Roy</i>	

## 7. POWER TRANSMISSION (GENERAL)

### 7.1. Bearings

Manufacturer	Description / Comments / Part No
<i>SKF</i>	
<i>FAG</i>	
<i>NSK</i>	
<i>Timken</i>	

### 7.2. Gearboxes

Manufacturer	Description / Comments / Part No
<i>SEW-Eurodrive</i>	
<i>Hansen</i>	
<i>Benzler</i>	
<i>Flender</i>	
<i>Bonfiglioli</i>	

## 8. PROCESS SYSTEM VALVES

### 8.1. Air Valves

Manufacturer	Description / Comments / Part No
<i>Festo</i>	
<i>Telemecanique</i>	
<i>Burkert</i>	
<i>George Fischer</i>	

### 8.2. Air Release Valves

Manufacturer	Description / Comments / Part No
<i>Amiad ARI</i>	
<i>Valmatic</i>	
<i>AVK</i>	
<i>WSAA appraised</i>	For water applications

### 8.3. Butterfly Valves

Manufacturer	Description / Comments / Part No
<i>Bray</i>	
<i>Keystone</i>	
<i>AVK</i>	
<i>Ebro</i>	
<i>Powell</i>	
<i>Challenger</i>	

## 8.4. Globe Valves

Manufacturer	Description / Comments / Part No
<i>Cla-val</i>	
<i>Singer</i>	
<i>Tecofi</i>	
<i>Bernad</i>	

## 8.5. Gate / Stop Valves

Manufacturer	Description / Comments / Part No
<i>AVK</i>	
<i>Bray</i>	
<i>Derwent</i>	
<i>Challenger</i>	
<i>WSAA appraised</i>	By project specific acceptance

## 8.6. Penstock Valves

Manufacturer	Description / Comments / Part No
<i>Keystone</i>	
<i>Orbinox</i>	
<i>AWE</i>	
<i>AWME</i>	
<i>Ludiwici Watergates</i>	

## 8.7. PVC Valves – Treatment

Manufacturer	Description / Comments / Part No
<i>Asahi</i>	
<i>George Fischer</i>	Compliant with Australian standards
<i>Plastomatic</i>	Control valves
<i>Gemue</i>	
<i>FIP</i>	

## 8.8. Non Return Valves

Manufacturer	Description / Comments / Part No
<i>AVK</i>	
<i>Dobbie Dico</i>	
<i>Val-matic</i> <i>(Swing-Flex Check)</i>	Soft Closing
<i>Bray</i>	
<i>Challenger</i>	

## 9. PUMPS

### 9.1. Dosing Pumps

Manufacturer	Description / Comments / Part No
<i>Prominent</i>	Diaphragm
<i>Netzsch</i>	Mono– Progressive Cavity
<i>Seepex</i>	Mono– Progressive Cavity
<i>Mono Pumps</i>	Mono (General purpose application) – Progressive Cavity
<i>Watson Marlow Bredel Pumps</i>	
<i>Vogelsang</i>	Membrane plants
<i>Grundfos</i>	

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## 9.2. Grit Pumps

Manufacturer	Description / Comments / Part No
<i>Wemco Weir</i>	
<i>Gorman-Rupp</i>	

## 9.3. Bore Pumps

Manufacturer	Description / Comments / Part No
<i>Pomona</i>	
<i>Southern Cross</i>	
<i>Wilo</i>	
<i>Flowserve</i>	
<i>Lowara</i>	

## 9.4. Potable Water Pumps

To use HWC approved VSD - not inbuilt VSD

Manufacturer	Description / Comments / Part No
<i>Grundfos</i>	
<i>KSB</i>	
<i>Southern Cross Machinery</i>	
<i>Flowserve</i> <i>(Thompson, Kelly &amp; Lewis)</i>	
<i>Weir Engineering</i>	
<i>Xylem(Lowara)</i>	
<i>Wilo</i>	

## 9.5. Sewerage Pumps – Submersible

Manufacturer	Description / Comments / Part No
<i>Grundfos</i>	
<i>Flygt (Xylem)</i>	
<i>KSB</i>	
<i>ABS</i>	For pumps under 22kW

## 9.6. Sewerage Pump Pedestals

Manufacturer	Description / Comments / Part No
<i>Flygt</i>	
<i>KSB / Forrers</i>	

## 10. SCREENINGS

### 10.1. STEP SCREENS

Manufacturer	Description / Comments / Part No
<i>Meva</i>	
<i>M &amp; N</i>	
<i>Spirac</i>	

### 10.2. DRUM SCREENS

Manufacturer	Description / Comments / Part No
<i>Non approved at this time</i>	

## 11. WASH PRESS

### 11.1. Wash Press

<b>Manufacturer</b>	<b>Description / Comments / Part No</b>
<i>Spirac</i>	
MEVA	
<i>Huber</i>	
<i>Jones and Attwood</i>	