

# Pressure Management Valves

The Singer Pressure Management Valve is configured to save water loss and money. It meets system needs by providing higher pressure when called for 24/7 and reduced pressure to save water leakage (and money) at all other times.



TECHNICAL GUIDE: **AVH1.23**

## Applications

Pressure Control  
Potable water  
Municipal  
Mining Applications  
Irrigation Applications

## Product Attributes

Substantially reduces water loss (non-revenue water) due to leakage  
Decreases downstream pipe bursts and associated repair costs  
Allows constant reliable pressure to users, minimising over pressure at off peak (flow) periods

## Approvals/Standards

AS 5081:2008  
Flanges to AS/NZS4087 Fig. B5  
Coating complies with AS/NZS 4158

## Quality

ISO 9001:2015 Quality Management Systems



**Licence Number:**  
WMK/SMK26726

## KEY FEATURES

- Valve switches between high and low pressure pilots based on flow rate.
- Pressure reducing pilots independently adjustable to suit the desired downstream pressure.
- Orifice is upstream of control valve so downstream pressure setting is unaffected by flow.
- Standard components completely submersible - no electrical power required.
- Simple field retrofit is possible using the paddle style orifice plate.

## SELECTION SUMMARY

1. Sizes: 100 - 300mm. For other sizes please consult Hygrade.
2. Pressures: Minimum of 2 Bar at valve inlet. Consult with Hygrade for lower pressure applications.
3. Differential required across Orifice plate: 0.1 – 0.14 Bar.
4. Fire Flow: If fire flow is greater than twice the normal high flow rate set point, please consult Hygrade.

## ORDERING INSTRUCTIONS

Refer to the order form and ordering instructions.

Additionally, include the following information for this product:

1. Single Chamber (106), (206), or (306)
2. Pilot Range

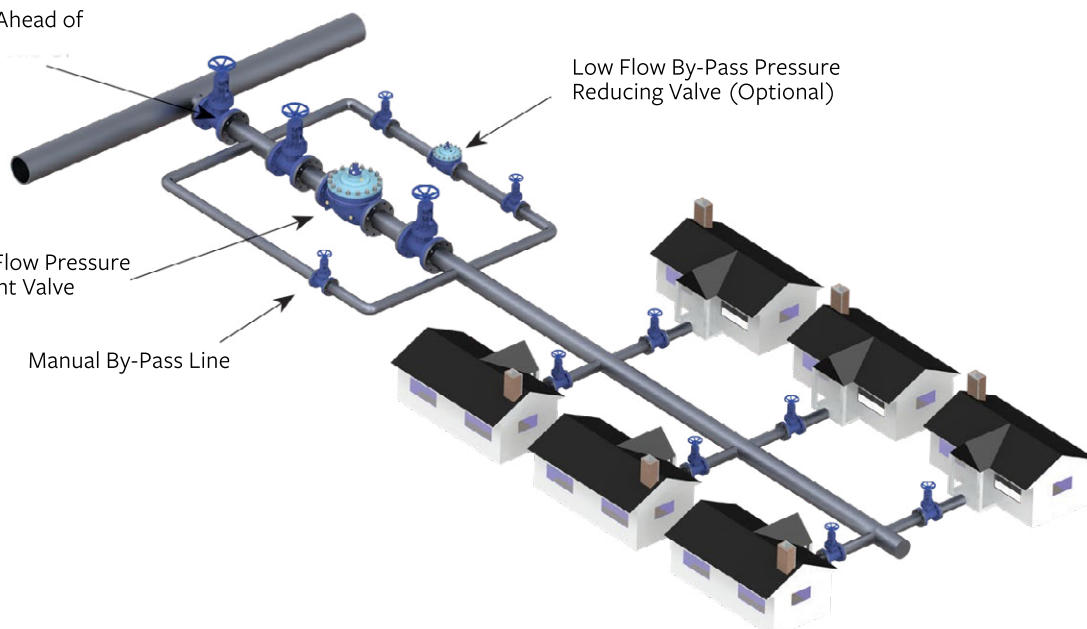
## TYPICAL APPLICATION

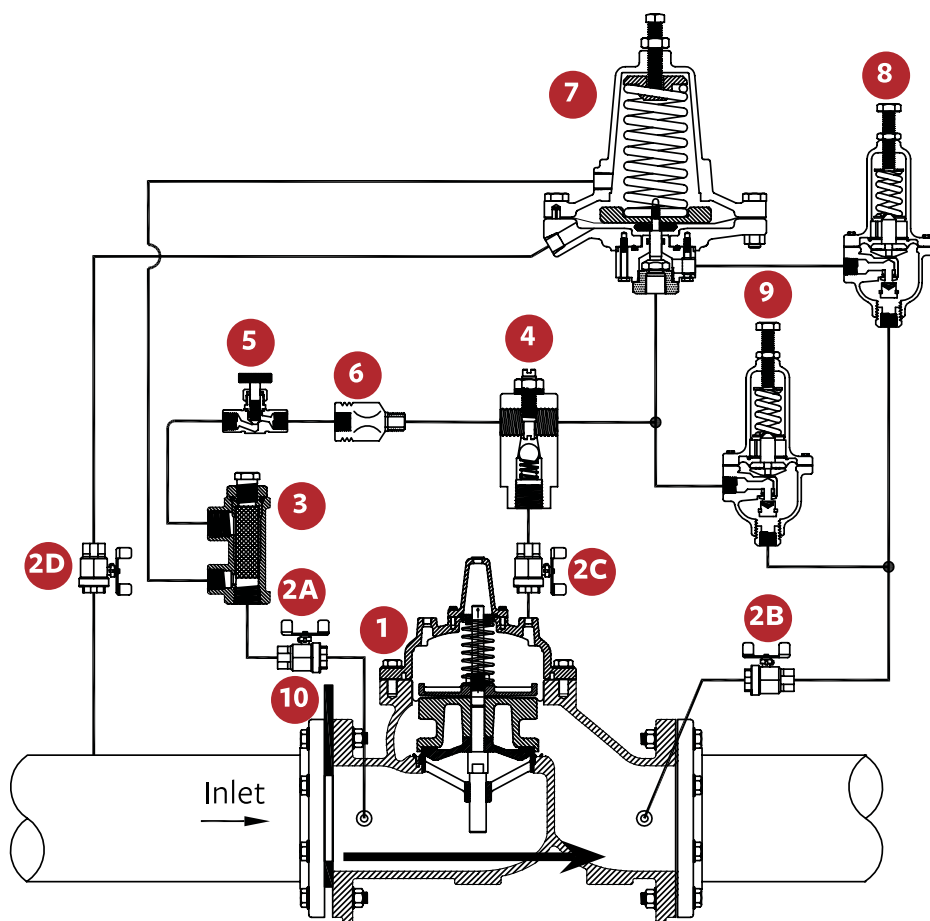
Orifice Plate Installed Ahead of Both Reducing Valves

Low Flow By-Pass Pressure Reducing Valve (Optional)

Main High Flow Pressure Management Valve

Manual By-Pass Line





SCHEMATIC A-10496A2

#### SCHEMATIC DRAWING

1. Main Valve – 106-PG, 206-PG, or 306-PG
2. Isolation Valve
3. Strainer – 40 Mesh
4. Model 26 Flow Stabiliser/Opening Speed Control
5. Closing Speed Control
6. Fixed Restriction
7. Differential Pilot – Normal Closed – Model 630-RPD
8. Pressure Reducing Pilot – Model 160 Higher Setting
9. Pressure Reducing Pilot – Model 160 Lower Setting
10. Orifice Plate – Paddle style standard – Optional with Housing



Scan for more  
information

**Disclaimer:** While every effort has been made to ensure that the information in this document is correct and accurate, users of Hygrade Water Infrastructure product or information within this document must make their own assessment of suitability for their particular application. Product dimensions are nominal only, and should be verified if critical to a particular installation. No warranty is either expressed, implied, or statutory made by Hygrade Water Infrastructure unless expressly stated in any sale and purchase agreement entered into between Hygrade Water Infrastructure and the user.

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