

Straight Pattern/OS&Y Flat Glass Gage Valves

Series 500



1500lb. ANSI rating –
Pressures to 4000 psi @ +100°F [27600 kPa
@ +38°C]
Temperature Range from -20°F to +750°F [-
29°C to +399°C]

Design Features

The 500 series includes models 520R and 530R with these standard features:

- Straight pattern
- Outside screw and yoke
- Solid shank vessel connection
- Gage connection: Model 520R Union / Model 530R Rigid
- Ball check shutoff
- Threaded renewable seat
- Backseating stem

A variety of optional features are available when specified.

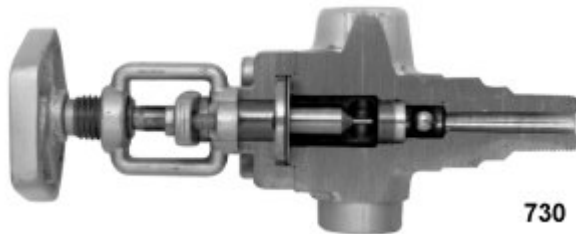
Optional materials can be specified for the valve body and trim. (Trim consists of the stem, stem packing retainer, ball check and seat.) Standard and optional materials conform to AISI or ASTM Specifications.

ASME Boiler Code

Series 500 valve sets that are acceptable for ASME Boiler Code are available as an option. Valve sets with this option are supplied with ball check shut-offs omitted.

Offset Pattern/OS&Y Flat Glass Gage Valves

Series 700



**1500lb. ANSI rating –
Pressures to 4000 psi @ +100°F [27600
kPa @ +38°C]
Temperature Range from -20°F to
+750°F [-29°C to +399°C]**

Design Features

The 700 series includes models 720R, 730R and 780R with these standard features:

- Offset pattern
- Outside screw and yoke
- Solid shank vessel connection
- Gage connection: Model 720R-Union / Model 730R-Rigid / Model 780R-Stuffing Box
- Ball check shutoff
- Threaded renewable seat

A variety of optional features are available when specified.

Optional materials can be specified for the valve body and trim. (Trim consists of the stem, stem packing retainer, ball check, and seat.) Standard and optional materials conform to AISI or ASTM Specifications.

ASME Boiler Code

Series 700 valve sets that are acceptable for ASME Boiler Code are available as an option. Ball check shut-off can be omitted; or the Model 720R and 780R can have a vertical rising lower ball check and horizontal, leaky upper ball check.

OS&Y Fugitive Emission Valves

Series 550/750



**1500lb. ANSI rating –
Pressures to 4000 psi @
+100°F [27600 kPa
@ +38°C]
Temperature Range from -20°F to
+400°F [-29°C to +204°C]**

The "Arrester" Fugitive Emission Valve

Environmental pollution is a global issue. Environmental regulations impacting plant operations include valves. The "ARRESTER" OS&Y valve is utilized with gage glass, mag gage or other apparatus when process fluid vapors or gases are considered to be environmentally harmful.

Penberthy's "ARRESTER" valves are individually serialized and tested to meet EPA emission test requirements. Each valve (550R/750R valve) is shipped with its individual test report that certifies less than 5 ppm methane equivalent leak rates using Kalrez® packing. Kalrez®/ Zymaxx™, API 607 III Edition Fire Test qualified, is a packing material option.

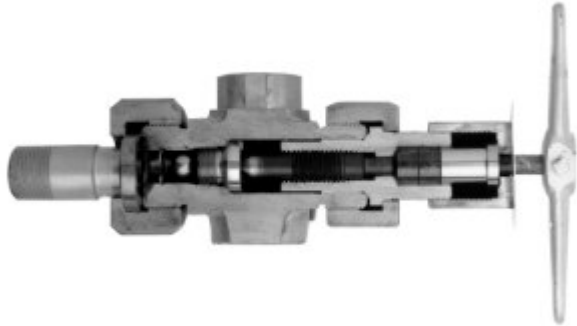
Models 551R/751R are available with type-accepted packing, rated to leak rates of 500 ppm methane equivalent.

Optional materials of construction can be specified for the valve body and trim. (Trim consists of the stem, stem packing retainer, ball and seat.) Reference Penberthy Material Specification sheets for optional materials.

Model 530R and 730R center-to-center dimensional information corresponds to the fugitive emission 550R/551R and 750R/751R valves, respectively.

Offset Pattern Flat Glass Gage Valves

Series 600



Pressures to 6000 psi @ +250°F [41400 kPa @+121°C]
Temperature Range from -50°F to +250°F
[-46°C to +121°C]

Design Features

The 600 series includes model 630J with these standard features:

- Offset pattern
- Union bonnet
- Union vessel connection
- Rigid gage connection
- Ball check shutoff
- Threaded renewable seat

A variety of optional features are available when specified.

Optional materials can be specified for the valve body and trim. (Trim consists of the stem, stem packing retainer, ball check, and seat.) Standard and optional materials conform to AISI or ASTM Specifications.

Pressure/Temperature Range

Model 630J valves are rated for pressures up to 6000 psi [41400 kPa] over a temperature range of -50°F to +250°F [-46°C to +121°C]. Optional O-ring materials and vessel tail pipe can be used to increase temperature capability.