

## SANITARY

Clamp Ends, Reduced or full Port.  
Strong construction in polished  
Stainless Steel.  
Three piece design  
ANSI 400 class (1/4" to 2").  
ANSI 300 Class S-45 (2 1/2", 3" and 4").  
Options: cavity filled,  
ISO 5211 pad and locking device.



SANITARY



OPTIONS

## OPTIONS

Integral seats, CF3M ends.  
Oval handle, Locking device.  
Selection of seats and seals.  
Materials for every application.  
Extended stem, API 6D Monogram.  
Fire safe Certification, Jacketed ball valves, etc.  
These are only some of the options  
you can order from Rhino Valves/Worcester.

## AUTOMATION

- Pneumatic actuators, "Rack and Pinion", quarter turn type, double acting or spring return.
- Electric actuators with different range of voltages and multivoltage option.
- Solenoid valves, limit switches, position indicators, NEMA 4 and 7.



AUTOMATION



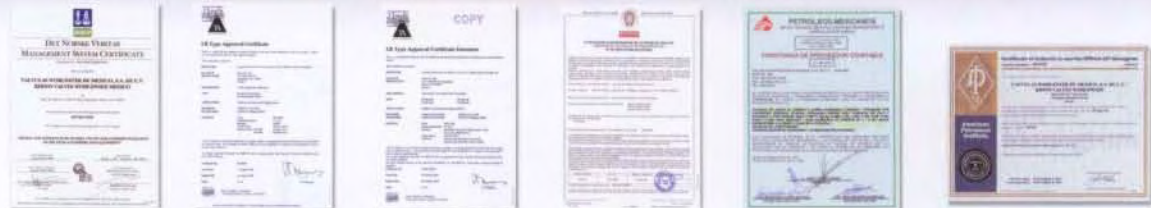
FIRE TEST

## FIRE SAFE VALVES

Design to delay Fire propagation.  
Include graphite seals, Teflon Seats  
for internal pressure relief.  
Valve provided with metal lips as  
secondary seal in fire conditions.  
Strong construction in Carbon  
and Stainless Steel.  
Tested in our own fire-test laboratory,  
certified by Lloyd's Register  
according with the American Petroleum  
Institute Standard: API 607 last edition.

ALL MODELS HAVE BLOW OUT PROOF STEM AND LIVE LOADED STEM SEALS (EXCEPT SOME-ECONOMICAL VALVES). The information and dimensions are subject to changes without notice.

## International and Domestic Certifications



## Válvulas Worcester de México®



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Rhino Valves  
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...The Best by design

Product GUIDE





**SERIES 150/300 ANSI Flanged 150 & 300 Class**



**SERIES 150/300**

Reduced Port.  
Strong construction in Carbon and Stainless Steel.  
Three piece design (1/2" to 2") or One piece design with threaded plug (3" to 8") in Series 300, (3" to 10") in Series 150. Heavy duty seals in a selection of materials. Optional locking device and ISO 5211 pad (1/2"-2") available, (standard in 3" to 8"), API-6D.

**SERIES 15 ANSI Flanged 150 Class**



**SERIES 15**

Reduced Port.  
Light construction in Carbon and Stainless Steel.  
One piece body design from "1 to 6".  
hermetic double seals in body and stem (optional).  
Lockable handle.  
Anti-static stem.  
Optional ISO 5211 pad, fire safe API 607, API-6D.  
Other options available: 3-way and cryogenic.

**SERIES 152/302 ANSI Flanged 150/300 Class**



**SERIES 152/302**

Full port.  
Strong construction in Carbon and Stainless Steel.  
Two piece design from 1/2" to 8" S-152 and 2" to 6" S-302.  
Lockable handle, anti-static SS stem.  
Optional ISO 5211 pad (direct mounting), API607 fire safe design and API-6D.

**PLUG VALVE ANSI Flanged 150 Class**



**PLUG VALVE**

Self lubricated, soft Teflon sleeve.  
Casted one piece body in 2", 3" and 4".  
Non-rotable sleeve.  
Live-loaded adjustable seals.  
Anti-static device.  
Back-seat metal lips.

**SERIES 1000**



**SERIES 1000**

Economical, NPT, BS Ends.  
Full port.  
Light construction in Carbon and Stainless Steel.  
Three piece design from 1/2" to 2".  
Working pressure: 1000 WOG.  
Heavy duty Teflon seats and seals.  
Lockable handle.  
SS Trim, Anti-static stem.

**SERIES 44 (Class 400/ 600, Option H600)**

NPT, BS, SW, BW, Clamp Ends.  
Reduced or full Port.  
Strong construction in Brass, Carbon and Stainless Steel.  
Three piece design 1/4" to 2".  
Working pressure: 990 psi (Class 400), 1480 psi (Class 600) 600 psi (brass) 2220 psi (class 900 in full port).  
Optional locking device, ISO 5211 pad, API-6D fire safe API 607.  
OPTION: H600  
Pressure test up to 3000 WOG.  
Heavy duty, High pressure seals.  
SS 17-4 PH stem, B7 bolting.



**SERIES 44**

**SERIES 6000**



**SERIES 6000**

Massive heavy duty valves designed for rugged high pressure service, made from bar stock in Carbon and Stainless Steel.  
Full port.  
Two piece design from 1/4" to 2".  
ANSI B16.34 2500 Class wall thickness.  
Maximum operating pressure 6000 psi.  
Heavy duty seals in a selection of materials.  
Optional locking device and Automation.

**SERIES 45**

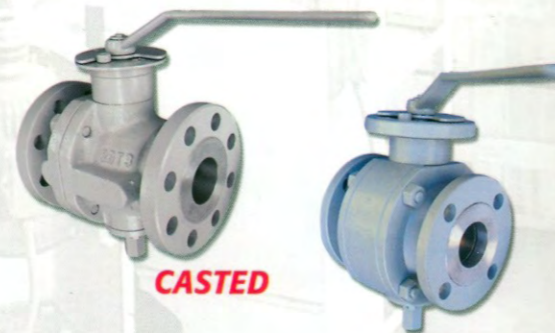


**S-15**

**SERIES 45**

NPT, BS, SW, BW or Clamp ends.  
Reduced Port.  
Strong construction in Carbon and Stainless Steel.  
Three piece design in 2 1/2", 3", 4" and 6".  
Working pressure: 740 psi.  
Heavy duty seals in a selection of materials.  
Standard ISO 5211 pad.  
Optional fire safe and API-6D.

**TRUNNION MOUNTED VALVES**



**CASTED**

**FORGED**

**SERIES 42**



**SERIES 42**

Economical brass valve.  
NPT, BS, SW Ends.  
Reduced Port.  
Two piece design from 1/4" to 2".  
Operating pressure: 600 psi.

**SERIES N44 (Class 400 / 600 / H600)**

**New**



**SERIES N44**

S-44 with improved design. Available with the same type of ends, materials, sizes and working pressures.  
Improvements:  
• Anti-static device.  
• Prepare for locking device.  
• Improved packing sealing and coupling for high cycling of operation.  
• Lower fugitive emission rate.

**STEAM TRAPS**

Type: Thermodynamic (Disc).  
Hardened and lapped disc and lip.  
1/2", 3/4" and 1".  
High duty cycle.  
Easy for maintenance.  
Best cost/durability relation.



**STEAM TRAPS**

**CRYOGENIC (C-44/C-600/S-150/S-15/S-300/S-45)**



**C-44**

**CRYOGENIC**

Unidirectional extended stem valve.  
NPT, BS, SW, BW ends, Reduced and Full port.  
From 1/2" to 2" in series C-44, C-600, and S-45 from 2 1/2" to 6".  
Strong construction in Brass and Stainless Steel.  
Options:  
Ansi flanged 150/300 class, stainless steel three piece body design from 1/2" to 2".  
One piece body design from 1" to 10" in class 150 and 300 class from 3" to 8".  
ISO 5211 pad.

**DIVERTER / 3-WAY**

NPT, BS, SW, BW, Clamp ends.  
Reduced or Full port.  
Strong construction in Brass, Carbon and Stainless Steel.  
Sizes: S-44 from 1/4" to 2" and S-15 from 1" to 6".  
0° to 90° operation (w/flow deviation)  
0° to 180° operation (w/mix possibilities)  
Bottom input (Diverter) or any input/output configuration (with integral seats.)  
Also available with flanged ends 300 class.



**DIVERTER / 3-WAY**