

# 298 - 398

## PROCESS VALVES PN40 FOR SEVERE APPLICATIONS



**ASCO**<sup>™</sup>

  
**EMERSON**<sup>™</sup>  
Industrial Automation



## Process valves PN40

A new generation of valves with innovative design and material technology to meet the requirements for harsh environments in different industrial sectors.

Tyre press or rubber parts manufacturers (vulcanisation) – iron and steel, chemical/petrochemical, paper, food processing and sugar industries – industrial autoclaves and boilers – industrial dyeing processes etc ...

### Process reliability

- Exceptional long service life, 4 times longer than the service life of a 1/4-turn valve: **2 million cycles without maintenance in saturated steam applications**
- Robust valve made of austenitic stainless steel, resistant to thermal shocks, corrosive environments and fluids
- Process protection with **anti-waterhammer** design rated to withstand **backpressures of up to 40 bar**

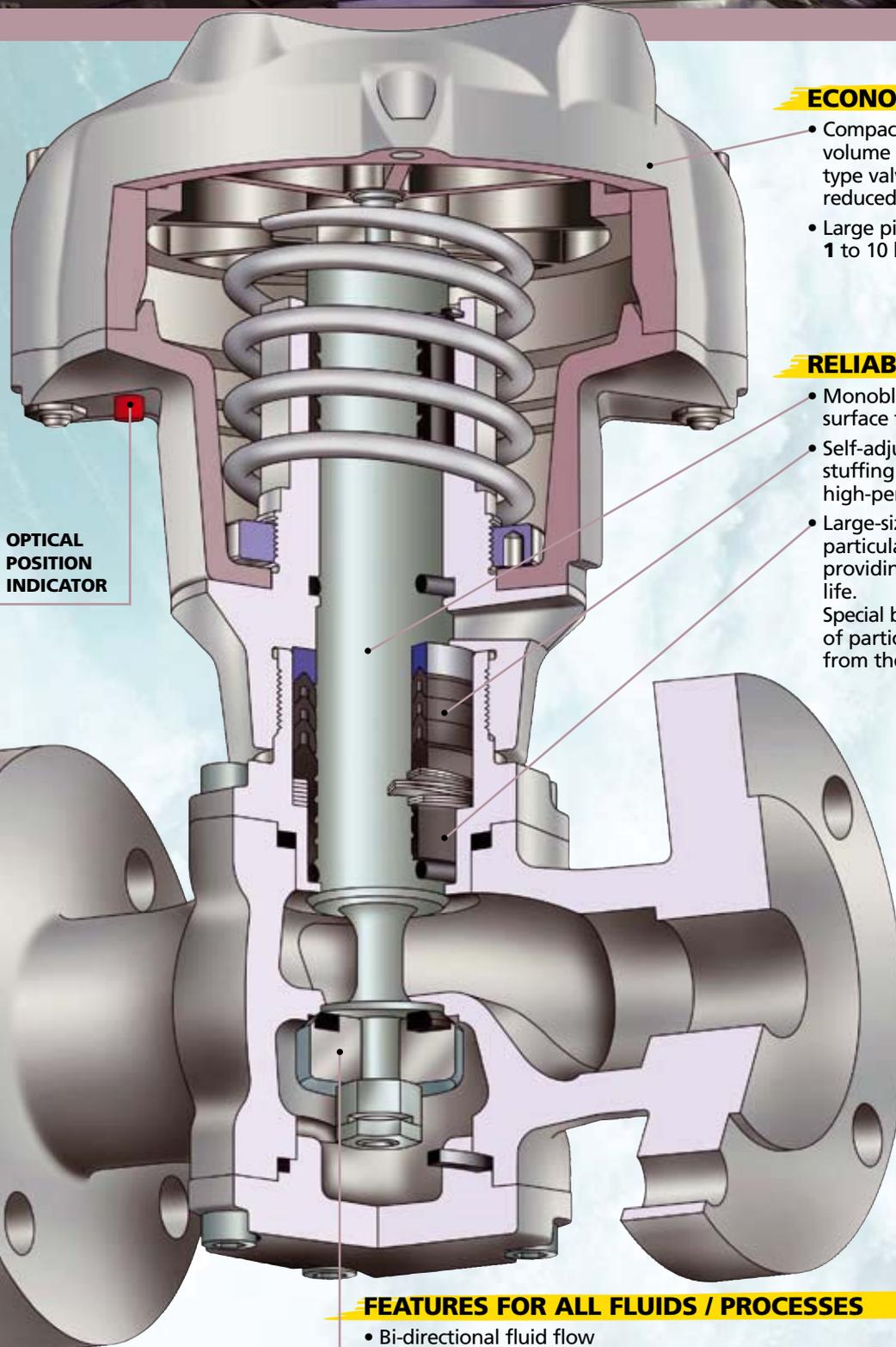
### Performance features

- Compact actuator with low air volume designed to **reduce cycling times**
- Optimised fluid flow geometry allowing **high flow rates**
- Autoclavable valve for operation at ambient temperatures of up to **180°C**

### Easy installation and reduced costs

- Large choice of connections: threaded ports, flanges, socket weldings
- Fully disassemblable valve, suitable for **outdoor installation in any mounting position**: watertight actuator, non-oxidizable materials
- Low heat dissipation: No heat insulation required

# Valves for steam, superheated water and corrosive fluid applications



## ECONOMIC DESIGN

- Compact actuator (50% of the volume of a 1/4 turn or diaphragm-type valve actuator) allowing for reduced air consumption
- Large pilot pressure range from 1 to 10 bar

## RELIABILITY

- Monobloc stem (mirror-polish surface finish, Ra 0,03  $\mu\text{m}$ )
- Self-adjusting, reinforced PTFE stuffing box protected with a high-performing **TFE/P** wiper seal
- Large-size stem bearing with particulate retention capability providing for long-lasting disc seal life.  
Special bearing design for retention of particulate matter removed from the stem.

OPTICAL  
POSITION  
INDICATOR

## FEATURES FOR ALL FLUIDS / PROCESSES

- Bi-directional fluid flow
- 3-way version with distribution or mixing function
- **Vacuum  $10^{-2}$  mbar to 40 bar**
- High-resistance stainless steel disc with PTFE-reinforced bronze seal  
**Seat leakage: ANSI/FCI 70-2, Class V** (class VI, option)
- Option: All stainless steel disc with metal-to-metal sealing

## TECHNICAL CHARACTERISTICS

Functions:	2/2 NC - NO, 3/2 U
Nominal diameter:	15 - 20 - 25 - 32 - 40 - 50
Differential pressure:	0 to 40 bar
Max. backpressure:	40 bar
Fluid temperature:	-10° C to +250° C
Ambient temperature:	-25° C to +180° C (-50° C optional)
Maximum viscosity:	5000 cSt (mm <sup>2</sup> /s) for optimum response times
Pilot pressure:	1 to 10 bar
Connections:	Threaded G1/2 to G2 G/Rp - NPT - Rc Flanges DIN - ANSI - JIS DN 15 to 50 or socket welding ends

Versions according to ATEX 94/9/EC  
for use in explosive atmospheres,  
categories 2 GD - 3 GD



## PILOTING SOLUTIONS

### Direct

Solenoid valves 3/2 NC 1/8  
1/4

Brass or stainless steel body  
Versions according to ATEX 94/9/EC  
for use in explosive atmospheres



CSA



### Remote

(for optional cabinet installation)

Spool valve islands  
Multi-wire cabling or  
fieldbus compatibility

Solenoid pilot valves  
mounted on joinable subbases



A wide range of valves available in different diameters and connection types



Non-contractual document.

**ASCO<sup>®</sup>**  
**numatics<sup>®</sup>**  
[www.asconumatics.eu](http://www.asconumatics.eu)

ASCO JOUCOMATIC SA  
BP 312 - 92506 RUEIL-MALMAISON CEDEX - FRANCE  
☎ 33 (0)1 47 14 32 00 - FAX 33 (0)1 47 08 53 85

383 72 96 - 3M0708