

# IN-LINE PIPELINE STRAINERS



## COMPANY



For over 30 years Paladon Systems has been supplying valve actuators and control systems on a global basis.



Since its inception in 1981, Paladon Systems has continuously developed its design, engineering, organisational, quality and management capabilities. Today Paladon Systems designs and manufactures many valve automation technologies that lead the industry in terms of cost efficiency, operational performance and environmental responsibility.



Paladon Systems' vast experience with supporting the Oil, Gas and Power industries with valve automation solutions for the most critical applications in extreme operating environments has resulted in product designs that offer unsurpassed quality and reliability across all industries and applications.

Holding ISO 9001 certification for over 20 years, today Paladon Systems hold accreditation and approvals from almost all major institutes, engineering companies and end users.

Headquartered in England, Paladon Systems has offices and facilities in Scotland, Italy, Malaysia, the Russian Federation and the United States. With a comprehensive suite of valve automation solutions backed by a dedicated team of field service engineers, Paladon Systems is **Total Valve Control**.





## INTRODUCTION

In the increasingly competitive marketplace operators are striving to reduce plant downtime and maintenance activities. In gas systems, damage to downstream equipment is frequently caused by pipeline debris such as scale, rust, jointing compound, weld metal and other solids. In-line pipeline strainers are mechanical devices which capture these solids to protect any downstream equipment from their harmful effects.

Originally developed in cooperation with British Gas and using novel and well-engineered design features, Paladon Systems in-line pipeline strainers help operators achieve improved plant efficiencies by providing:

- Low Blocking/Blinding
- Low Pressure Drops
- High Strength
- Simple Installation
- Reduced Maintenance
- Enhanced Equipment Protection



## SPECIFICATIONS

### ■ Pipeline Sizes

All standard pipe sizes from 4" to 36"

### ■ Gap Sizes

From 0.25 to 3mm

### ■ Materials

- ▶ Carbon steel AISI 304
- ▶ 316 stainless steel
- ▶ Monel 400
- ▶ Inconel 600
- ▶ Incoloy 825 (special)
- ▶ Hastelloy
- ▶ Titanium

### ■ Quality

Manufactured to the highest standards of the offshore Oil & Gas industry with full quality control and material certification if required.





## FEATURES & BENEFITS

### ■ High Strength

A feature of the profiled wire screen is an induction welding process which gives high integrity welds at each point of contact providing high strength. Novel designs utilizing strengthening webs and curved surfaces further add to the in-line strainer's strength, and allow for bursting pressures in excess of 20 Barg.

If excessive debris fill up the storage space and cause blocking, the high strength screen will retain the debris whilst the high back pressure is a signal for emergency action.



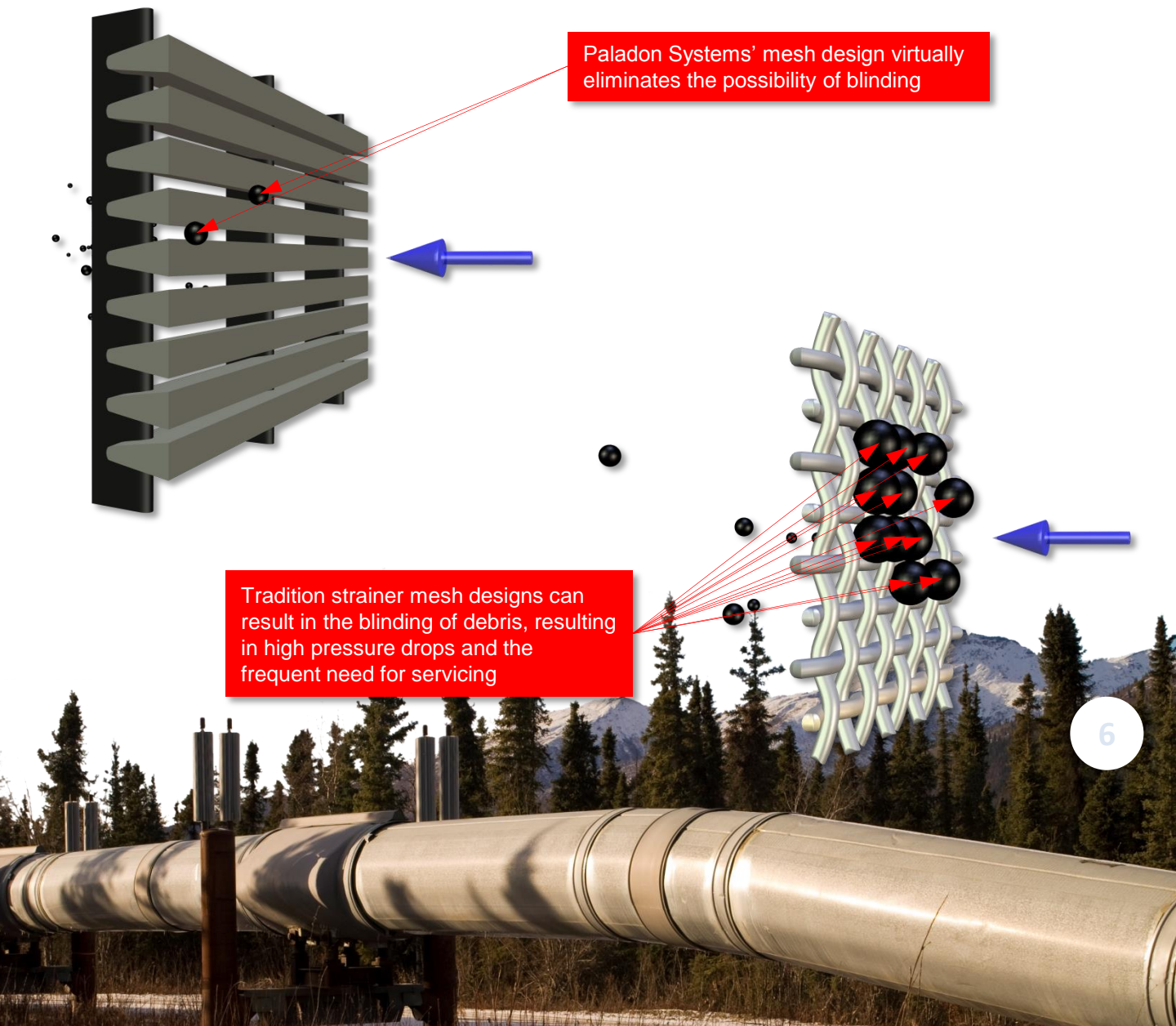
## FEATURES & BENEFITS

### ■ Low Pressure Drop

While pressure drop varies with flow, fluid density and the slot width, the pressure drop in Paladon Systems in-line pipeline strainers is minimized by the use of specially designed mesh contours.

### ■ Low Maintenance

The opening between the surface profiles present only a two-point contact to particles being screened. Undersize particles pass freely through the V-shaped slots, whilst oversize particles move cleanly across the unobstructed screen surface without blinding, unlike wire mesh designs. This design not only reduces the frequency of maintenance, but also contributes to a lower pressure drop when compared to traditional mesh designs.





**Paladon Systems**

Ferro Fields, Brixworth, Northampton  
NN6 9UA, England

Tel: +44 (0)1604 880700 Fax: +44 (0)1604 882424  
[info@paladonsystems.com](mailto:info@paladonsystems.com)

**Paladon Systems**

KingsPoint House, Unit 4, Kingshill Park  
Venture Drive, Arnhall Business Park  
Westhill, Aberdeen, Scotland, AB32 6FL

Tel: +44 (0)1224 772442 Fax: +44 (0)1604 882424  
[info.scotland@paladonsystems.com](mailto:info.scotland@paladonsystems.com)

**Paladon Italia**

Via Barbieri, 24 - 27040 Pinarolo Po (PV), Italy  
Tel: +39 0383 878524 Fax: +39 0383 878042

[info.italia@paladonsystems.com](mailto:info.italia@paladonsystems.com)

**Paladon Systems**

No. 8 Jalan Serendah 26/39, Seksyen 26  
40400 Shah Alam, Selangor Darul Ehsan, Malaysia  
Tel: +603 5614 3211 Fax: +603 5614 4511

[info.asiapacific@paladonsystems.com](mailto:info.asiapacific@paladonsystems.com)

**Paladon SDT**

121352 Davydkovskaya Str. 12/3  
Moscow, The Russian Federation  
Tel/Fax: +7 495 735 28 07 (08) (09)

[info.russianfederation@paladonsystems.com](mailto:info.russianfederation@paladonsystems.com)

**Paladon Americas**

14514 Luthe Road, Houston, TX 77039, USA  
Tel: +1 855 725 2366 Fax: +1 832 310 2370

[info.usa@paladonsystems.com](mailto:info.usa@paladonsystems.com)



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