

# A Quick Look at Medium & High Pressure Solutions

## IPT Series



### INTRODUCING...

Swagelok's expanding portfolio of medium and high pressure products for your fluid system applications. • Ball Valves • Check Valves • Double Block & Bleed Valves • Needle Valves • Relief Valves • Medium & High Pressure Tubing • Coned and Threaded Fittings • Tools and Accessories

These IPT Series precision medium and high pressure valves, fittings, and fluid control devices are made standard from cold worked 316SS. Annealed 316SS and other exotic materials are available to meet NACE MR0175/ISO 15156. They are designed specifically for the oil and gas, chemical, petrochemical, water jet cutting and blasting, and aerospace industries.

**Swagelok Company** is a major designer, manufacturer, and provider of high-quality fluid system products, assemblies, and services. The components we manufacture and the services we provide help make our customers successful and are often critical to the safety of those who work in high-risk environments. Those environments include oil and gas production, chemical processing, biopharmaceutical production, research, and semiconductor manufacturing, among others.

Access our products and services through our dedicated network of authorized Swagelok sales and service centers. With 200+ locations in 56 countries, Swagelok sales and service centers deliver fluid system knowledge, products, and services tailored to the local market.

Locally, representatives can deliver assembly, energy management, and training services to help improve your fluid system. All sales and service centers directly connect to the global research and development, innovation, manufacturing, and logistics resources of Swagelok Company.



- Subsea • Waterblasting • Waterjet Cutting
- PetroChemical • Automotive • Aerospace • Testing



## Coned & Threaded Fittings

- Medium pressure (MP), maximum working pressure 20 000 psig (1378 bar)
- High pressure (HP), maximum working pressure 60 000 psig (4136 bar)
- All fittings supplied complete with gland and collars
- Custom manifolds available



## Check Valves

- NPT, maximum working pressure up to 15 000 psig (1030 bar)
- MP cone and thread, maximum working pressure up to 20 000 psig (1378 bar)
- HP cone and thread, maximum working pressure up to 60 000 psig (4136 bar)
- Ball, O-ring and dual seal available
- Nominal crack pressure 15 psig (1 bar) – optional 100 psi (7 bar) available



## Ball Valves

- Trunnion style - maximum working pressure up to 20 000 psig (1378 bar)
- Port sizes – 3/16, 1/4, 3/8 or 1/2 in.
- Male and female NPT up to 10 000 psig (689 bar)
- MP and HP cone and thread up to 20 000 psi (1 380 bar)



## Double Block & Bleed Valves

- Maximum working pressure up to 20 000 psig (1378 bar)
- NPT or MP and HP cone and thread end connections available
- 316 cold-worked SS
- Configured to meet customer needs



## Needle Valves

- NPT maximum working pressure up to 15 000 psig (1030 bar)
- MP cone & thread, maximum working pressure up to 20 000 psig (1378 bar)
- HP cone & thread, maximum working pressure up to 60 000 psig (4136 bar)
- Six body styles for a wide variety of applications
- Gland locking device prevents loosening of packing gland



## Relief Valves

- Maximum working pressure up to 20 000 psig (1378 bar)
- 3/8 or 9/16 in. MP cone & thread inlet
- 3/4 in. FNPT outlet
- 316 SS
- Proportional lift design; full flow at 10% overpressure
- Customer adjustable or factory pre-set to customer specifications



## Medium & High Pressure Tubing

- MP, maximum working pressure 20 000 psig (1378 bar), 1/4, 3/8, 9/16, 3/4 and 1 in. O.D available
- HP, maximum working pressure 60 000 psig (4140 bar), 1/4, 3/8 and 9/16 in. O.D available
- Tubing available in random lengths averaging 24 ft (20 to 27 ft). Custom lengths available upon request.
- Pre-cut, coned and threaded nipples available in various lengths
- Tubing is seamless, austenitic, cold-drawn 316 SS



## Tools & Accessories

- Precision, quality coning and threading tools for tubing sizes through 9/16 in. O.D.
- Components are made from 316 cold-worked SS for long life
- Blades, bushings and dies are interchangeable
- Kit contains everything needed to prepare medium and high pressure tubing in 1/4, 3/8 and 9/16 in.
- Tools can be used by hand or with a power drill with minor adaptations
- Power coning and threading machine is available

## Warranty Information

Swagelok products are backed by The Swagelok Limited Lifetime Warranty. For a copy, visit [swagelok.com](http://swagelok.com) or contact your authorized Swagelok representative.

For more information contact your authorized Swagelok representative.