

TECHNICAL BROCHURE

AUTO-VALVE

S E R I E S

Solenoid-actuated pneumatic valves · High-temperature, high-pressure

Up to 30,000 psi

Up to 160 °C

SS / Hastelloy

OVERVIEW

Auto-Valve Series — Key facts

DESIGN HIGHLIGHTS

- Solenoid-actuated pneumatic valves
- Computer-controlled via solenoids
- Corrosion-resistant construction
- **No volume or pressure change during cycle**
- Two configurations: ON/OFF & 3-way 4-pos

TECHNICAL SPECS

PRESSURE

5,000 – 30,000 psi

TEMPERATURE

80 °C / HT 160 °C

WETTED PARTS

Stainless Steel / Hastelloy

SEALS

Viton (std) · PU on 30K

AIR SUPPLY

80–115 psi pneumatic

KEY BENEFITS

Why engineers choose Floxlab Auto-Valves

Computer-Controlled

Remote, repeatable solenoid actuation.

Pneumatic Actuation

Fast response with 80–115 psi supply.

High Pressure

Proven from 5K up to 30K psi.

High Temperature

HT option rated to 160 °C.

Corrosion Resistant

SS or Hastelloy wetted parts.

Constant Volume

No volume/pressure change in cycle.

2 - WAY VALVES

ON/OFF Valves

Single valve configuration — pressure families from 5K to 30K psi



CONFIGURATION

TYPE

Single valve, ON/OFF

ACTUATION

Pneumatic, solenoid-piloted

AIR SUPPLY

80–115 psi

SEAL

Viton (std) · PU on 30K

APPLICATION

Ideal for isolation, shut-off and on/off control in high-pressure lines. Computer-controlled via solenoids with fast, clean pneumatic actuation.

PRESSURE FAMILIES

5,000 psi

1/4" LOK
80/160 °C
SS / Hast.

10,000 psi

1/8" LP
80/160 °C
SS / Hast.

10K psi HF

1/4" SLP
80/160 °C
High flow

20,000 psi

1/4" HP
80/160 °C
SS / Hast.

30,000 psi

1/4" HP
40 °C · PU
SS / Hast.

COMPLETE MODEL LIST

Model	Pressure	Temp	Wetted	Cv	Int. Vol.	Connection	Dimensions
SS05-AT	5,000 psi	80 °C	SS	0.10	0.50 cc	1/4" LOK	5.1 × 10.6 cm
SS05-HT	5,000 psi	160 °C	SS	0.10	0.50 cc	1/4" LOK	5.1 × 10.6 cm
SH05-AT	5,000 psi	80 °C	Hastelloy	0.10	0.50 cc	1/4" LOK	5.1 × 10.6 cm
SH05-HT	5,000 psi	160 °C	Hastelloy	0.10	0.50 cc	1/4" LOK	5.1 × 10.6 cm
SS10-AT	10,000 psi	80 °C	SS	0.055	0.11 cc	1/8" LP	5.1 × 6.8 cm
SS10-HT	10,000 psi	160 °C	SS	0.055	0.11 cc	1/8" LP	5.1 × 6.8 cm
SH10-AT	10,000 psi	80 °C	Hastelloy	0.055	0.11 cc	1/8" LP	5.1 × 6.8 cm
SH10-HT	10,000 psi	160 °C	Hastelloy	0.055	0.11 cc	1/8" LP	5.1 × 6.8 cm
SS10HF-AT	10,000 HF	80 °C	SS	0.085	0.44 cc	1/4" SLP	5.7 × 8.9 cm
SS10HF-HT	10,000 HF	160 °C	SS	0.085	0.44 cc	1/4" SLP	5.7 × 8.9 cm
SH10HF-AT	10,000 HF	80 °C	Hastelloy	0.085	0.44 cc	1/4" SLP	5.7 × 8.9 cm
SH10HF-HT	10,000 HF	160 °C	Hastelloy	0.085	0.44 cc	1/4" SLP	5.7 × 8.9 cm
SS20-AT	20,000 psi	80 °C	SS	0.05	0.22 cc	1/4" HP	5.7 × 8.0 cm
SS20-HT	20,000 psi	160 °C	SS	0.05	0.22 cc	1/4" HP	5.7 × 8.0 cm
SH20-AT	20,000 psi	80 °C	Hastelloy	0.05	0.22 cc	1/4" HP	5.7 × 8.0 cm
SH20-HT	20,000 psi	160 °C	Hastelloy	0.05	0.22 cc	1/4" HP	5.7 × 8.0 cm
SS30-AT	30,000 psi	40 °C	SS / PU	0.05	0.30 cc	1/4" HP	6.8 × 10.0 cm
SH30-AT	30,000 psi	40 °C	Hast./PU	0.05	0.30 cc	1/4" HP	6.8 × 10.0 cm

Nomenclature: S = Single · S = Stainless · H = Hastelloy · 05/10/20/30 = pressure × 1,000 psi · HF = High Flow · AT/HT = Ambient/High Temp

3 - WAY VALVES

4-Position Valves

Double-valve assembly for fluid routing and switching applications



CONFIGURATION

TYPE

Double valve, 3-way 4-pos

ACTUATION

Solenoid-piloted pneumatic

AIR SUPPLY

80–115 psi

SEAL

Viton (std) · PU on 30K

APPLICATION

Dual-valve configuration with three ports and four switching positions. Ideal for fluid routing, directional switching and multi-line control.

PRESSURE FAMILIES

5,000 psi

1/4" LOK
80/160 °C
SS / Hast.

10,000 psi

1/8" LP
80/160 °C
SS / Hast.

10K psi HF

1/4" SLP
80/160 °C
High flow

20,000 psi

1/4" HP
80/160 °C
SS / Hast.

30,000 psi

1/4" HP
40 °C · PU
SS / Hast.

COMPLETE MODEL LIST

Model	Pressure	Temp	Wetted	Cv	Int. Vol.	Connection	Dimensions
DS05-AT	5,000 psi	80 °C	SS	0.10	0.95 cc	1/4" LOK	5.1 × 15.9 cm
DS05-HT	5,000 psi	160 °C	SS	0.10	0.95 cc	1/4" LOK	5.1 × 15.9 cm
DH05-AT	5,000 psi	80 °C	Hastelloy	0.10	0.95 cc	1/4" LOK	5.1 × 15.9 cm
DH05-HT	5,000 psi	160 °C	Hastelloy	0.10	0.95 cc	1/4" LOK	5.1 × 15.9 cm
DS10-AT	10,000 psi	80 °C	SS	0.055	0.31 cc	1/8" LP	5.1 × 12.0 cm
DS10-HT	10,000 psi	160 °C	SS	0.055	0.31 cc	1/8" LP	5.1 × 12.0 cm
DH10-AT	10,000 psi	80 °C	Hastelloy	0.055	0.31 cc	1/8" LP	5.1 × 12.0 cm
DH10-HT	10,000 psi	160 °C	Hastelloy	0.055	0.31 cc	1/8" LP	5.1 × 12.0 cm
DS10HF-AT	10,000 HF	80 °C	SS	0.085	0.74 cc	1/4" SLP	5.7 × 15.2 cm
DS10HF-HT	10,000 HF	160 °C	SS	0.085	0.74 cc	1/4" SLP	5.7 × 15.2 cm
DH10HF-AT	10,000 HF	80 °C	Hastelloy	0.085	0.74 cc	1/4" SLP	5.7 × 15.2 cm
DH10HF-HT	10,000 HF	160 °C	Hastelloy	0.085	0.74 cc	1/4" SLP	5.7 × 15.2 cm
DS20-AT	20,000 psi	80 °C	SS	0.05	0.62 cc	1/4" HP	5.7 × 14.4 cm
DS20-HT	20,000 psi	160 °C	SS	0.05	0.62 cc	1/4" HP	5.7 × 14.4 cm
DH20-AT	20,000 psi	80 °C	Hastelloy	0.05	0.62 cc	1/4" HP	5.7 × 14.4 cm
DH20-HT	20,000 psi	160 °C	Hastelloy	0.05	0.62 cc	1/4" HP	5.7 × 14.4 cm
DS30-AT	30,000 psi	40 °C	SS / PU	0.05	0.70 cc	1/4" HP	6.8 × 17.2 cm
DH30-AT	30,000 psi	40 °C	Hast./PU	0.05	0.70 cc	1/4" HP	6.8 × 17.2 cm

Nomenclature: D = Double (3-way 4-pos) · S = Stainless · H = Hastelloy · 05/10/20/30 = pressure × 1,000 psi · HF = High Flow

REFERENCES & CONTACT

Nomenclature, Accessories & Contact

NOMENCLATURE — HOW TO READ A REFERENCE

S	S	10	HF	AT
Valve Type	Wetted Material	Pressure	Flow Option	Temperature
S = Single D = Double	S = Stainless H = Hastelloy	05 · 10 · 20 · 30 (×1,000 psi)	— standard HF = High Flow	AT = 80 °C HT = 160 °C

EXAMPLE **SS10HF-HT** → *Single · Stainless · 10,000 psi · High Flow · 160 °C*

MANIFOLDS & ACCESSORIES

Solenoid manifold bases — quoted separately

2-Station AMBIENT	2-Station HIGH TEMP	4-Station AMBIENT	4-Station HIGH TEMP
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Also available: Replaceable Viton seal kits — single valve & dual valve

GET IN TOUCH

Let's build your high-pressure solution

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