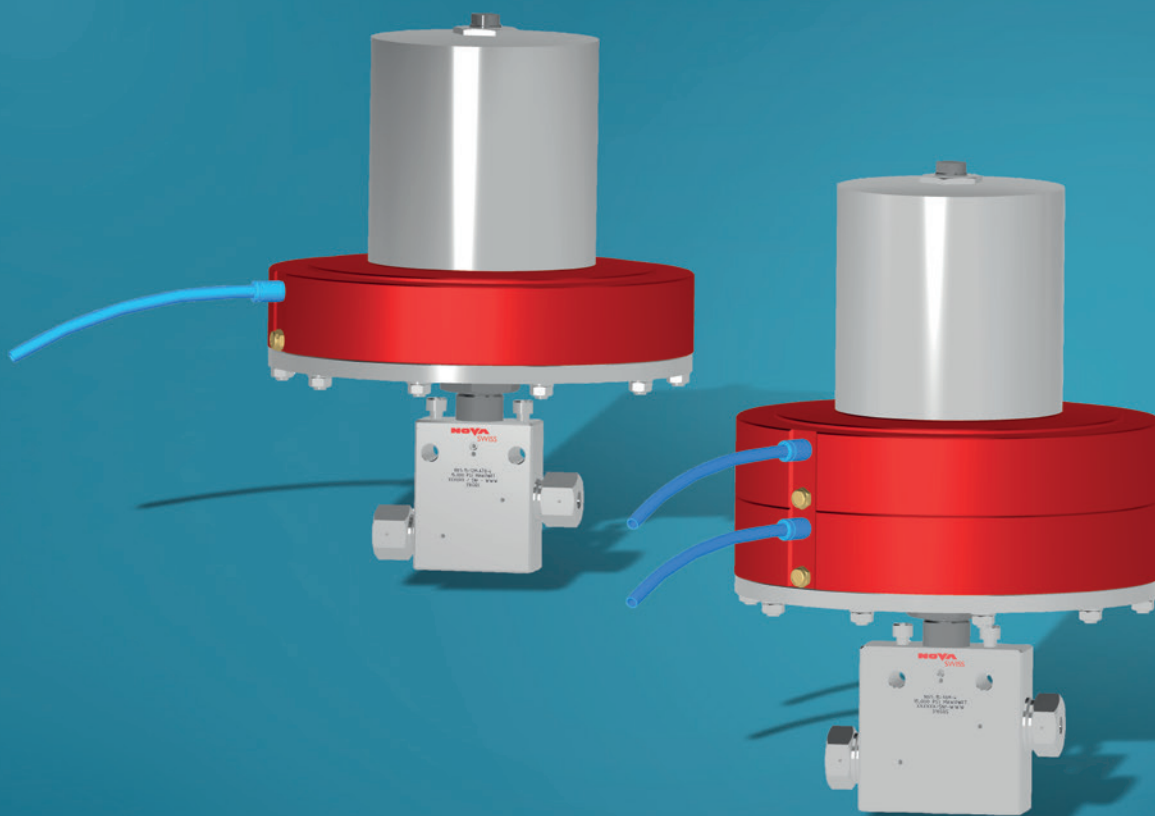




NOVA SWISS

NOVA SWISS is a proud member of



UP TO 1'050 BAR – 15'000 PSI
3/4" & 1"
ACTUATED NEEDLE VALVES



3/4" & 1" ACTUATED NEEDLE VALVES


Nova Swiss new 3/4" & 1" medium pressure needle valves for hydrogen offer, even with extremely hard operating conditions, maximum safety and reliability up to 15'000 psi (1'050 bar).

Extremely robust and simple sealing technology combined with specially shaped seat increases the longevity of the valve. The multi-piece stem reduces services cost due to easy exchange of the lower stem.

All wetted parts are manufactured of high-grade corrosion resistant stainless steel. As part of our stringent QA-system, each single valve body has a unique serial number. Valves are available, at request, with complete traceability of all pressure-retaining parts.

Medium-pressure connections can be installed and disconnected arbitrary number of times without any damage.

CHECK VALVE FEATURES

- MAWP 20'000 psi (1'380 bar)
- Bi-directional flow
- 2-way straight, -angle & -angle with replaceable seat
- Connections for tubing Ø 3/4" & 1"
- Actuator Ø: 270.0 mm
- Orifice Ø: 3/4" – 11.1 mm, 1" – 14.3 mm
- Actuation: -ATC (air to close) & ATO (air to open) with fail safe
- Actuator air connection orientation: 360°
- Max. air pressure actuator: 6.9 bar
- Multi-piece stem
- Actuator position indication with pin
- Medium: H₂, N₂, Ar, He, inert gases
- Life span: 10 years or 100'000 cycles
- HP connections with vent holes
- Medium temperature range: -50°C / +200°C (non ATEX)
- Medium temperature range: -40°C / +150°C (ATEX T3)
- Ambient temperature range: -40°C / +85°C
- Compliant with PED 2014/68/EU
- ATEX compliant  II 2G Ex h IIC T6...T3 Gb X
- Full traceability of pressure-retaining parts
- Unique serial number

-ATO2 (air to open)

2-WAY STRAIGHT				
Conn.	Nova Ref.	Kv	Weight kg	Act.Press.
3/4"	NV1-15-12M-ATO2-4	2.44	± 22.0	6.3
1"	NV1-15-16M-ATO2-4	3.82	± 32.0	5.3

-ATC2 (air to close)

2-WAY STRAIGHT				
Conn.	Nova Ref.	Kv	Weight kg	Act.Press.
3/4"	NV1-15-12M-ATC2-4	2.44	± 19.0	6.5
1"	NV1-15-16M-ATC2-4	3.82	± 28.0	5.5

-ATO2 (air to open)

2-WAY ANGLE				
Conn.	Nova Ref.	Kv	Weight kg	Act.Press.
3/4"	NV2-15-12M-ATO2-4	2.70	± 22.0	6.3
1"	NV2-15-16M-ATO2-4	4.68	± 32.0	5.3

-ATC2 (air to close)

2-WAY ANGLE				
Conn.	Nova Ref.	Kv	Weight kg	Act.Press.
3/4"	NV2-15-12M-ATC2-4	2.70	± 19.0	6.5
1"	NV2-15-16M-ATC2-4	4.68	± 28.0	5.5

-ATO2 (air to open)

2-WAY ANGLE, REPLACEABLE SEAT				
Conn.	Nova Ref.	Kv	Weight kg	Act.Press.
3/4"	NV5-15-12M-ATO2-4	2.70	± 22.0	6.3
1"	NV5-15-16M-ATO2-4	4.68	± 32.0	5.3

-ATC2 (air to close)

2-WAY ANGLE, REPLACEABLE SEAT				
Conn.	Nova Ref.	Kv	Weight kg	Act.Press.
3/4"	NV5-15-12M-ATC2-4	2.70	± 19.0	6.5
1"	NV5-15-16M-ATC2-4	4.68	± 28.0	5.5