

NOVA SWISS



UP TO 4500 BAR (65000 PSI)
SAFETY VALVES

High-Pressure Safety Valves

Nova Swiss among wide range of components offers a range of safety valves to protect high-pressure circuits. Set pressures are available from 50 bar (730 psi) up to 4500 bar (65000 psi) for both gases and liquids.

The versatility of Nova Swiss safety valves can further accommodate a wide spread of temperatures and are available also for explosive environments.

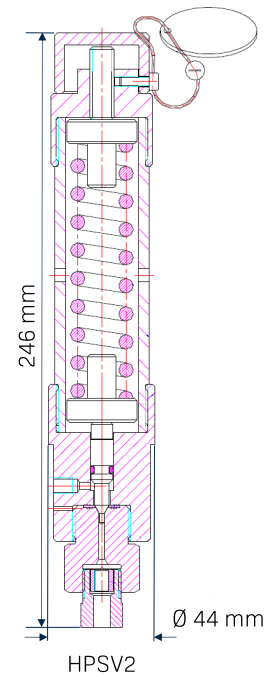
Compatibility of all components in contact with circuit fluid, temperature and connections are checked and validated and, if required, customized.

Exhaust port is pipeable for most of the available models, increasing the safety of high-pressure circuits.

Each valve supplied is set and certified based on customer specification and factory lead sealed.

Safety Valve Features:

- 4E pressure connection
- 1/4" NPT-F (4N) exhaust connection (HPSV2)
- Orifice Ø 0.75 mm (0.0012 inch)
- Flow rates, H₂O, from 45 to 370 l/h (11.9 to 95.1 usg/h)
- Flow rates, air, from 720 to 5800 l/h (190.2 to 1268 usg/h)
- Temperature range -40°C to +360°C (-4F - 680 F)
- Std. materials 1.4418, 1.4404, 1.4980, 2.4819
- Compliant with PED 2014/68/EU
- Atex compliant
- Full traceability of manufactured parts
- Unique serial number
- Lead sealed—CE marked
- Calculations according ASME and CODAP



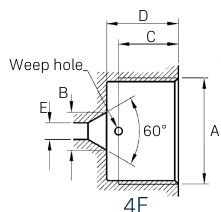
Nova Part No.	Material **	Setting range bar (psi)	Temperature °C (F)	Orifice Ø mm (inch)	Flow rate H ₂ O l/h (usg/h) ***	Flow rate air l/h (usg/h) ***
HPSV1-16-M105	1.4418 (APX4)	50-1100 (730-15950)	-40/+75 (-40/167)	0.75 (0.0012)	45-216 (11.9-56.8)	720-3360 (190.2-887.6)
HPSV2-12-M103*	1.4404 (316L)	80-800 (1160-11630)	-10/+250 (14/482)	0.75 (0.0012)	45-150 (11.9-39.6)	750-2400 (198.1-634)
HPSV2-36-M105	1.4418 (APX4)	80-2500 (1160-36260)	-10/+250 (14/482)	0.75 (0.0012)	45-270 (11.9-71.3)	750-4300 (198.1-1135.9)
HPSV2-36-M105-ET	1.4418 (APX4)	80-2500 (1160-36260)	-20/+360 (-4/680)	0.75 (0.0012)	45-270 (11.9-71.3)	750-4300 (198.1-1135.9)
HPSV2-22-M205	2.4819 (Hastelloy C276)	80-1500 (1160-21760)	-10/+250 (14/482)	0.75 (0.0012)	45-210 (11.9-55.5)	750-3350 (198.1-885)
HPSV2-30-M207*	1.4980 (Incoloy A286)	80-1900 (1160-27560)	-20/+220 (-4/428)	0.75 (0.0012)	45-235 (11.9-62.1)	750-3750 (198.1-990.6)
HPSV2-30-M207-ET*	1.4980 (Incoloy A286)	80-1900 (1160-27560)	-20/+320 (-4/608)	0.75 (0.0012)	45-235 (11.9-62.1)	750-3750 (198.1-990.6)
HPSV2-65-M105	1.4418 (APX4)	2500-4500 (36260-65270)	+5/+150 (41/302)	0.75 (0.0012)	270-360 (71.3-95.1)	4300-5800 (1135.9-1268)

* Add suffix '-AT' for ATEX version

** Other materials on request, consult Nova Swiss

*** Flow rate at min./max. setting of the range, temp. +15°C, according to ISO 4126 Standard

Pressure Connection Details



A	B	C	D	E
Thread	mm (inch)	mm (inch)	mm (inch)	mm (inch)
M16 x 1.5	5.0 (0.20)	9.7 (0.38)	11.5 (0.45)	2.4 (0.09)

HPSV1 is with free exhaust
HSPV2 exhaust connection 1/4" NPT-F (4N)

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