



NOVA SWISS

NOVA SWISS is a proud member of



UP TO 1'380 BAR – 20'000 PSI
CHECK VALVES




Check Valves H₂

Nova Swiss check valves are available in several patterns with connections from 1/4" up to 1" and MAWP 1'380 bar (20'000 psi). All valves are with semi-soft seat guaranteeing leak tight service.

All wetted parts are manufactured of high-grade corrosion resistant stainless steel.

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)
- Available patterns: female / female, female / male & male / female
- Connections for tubing Ø 1/4", 3/8", 1/2", 9/16", 3/4" & 1"
- Orifice Ø: from 2.8 mm up to ~17.5 mm
- Medium: H₂, N₂, Ar, He, inert gases
- HP connections with vent holes
- Medium temperature range: -40 °C / +150 °C (ATEX T3)
- Ambient temperature range: -20 °C / +40 °C (ATEX)
- Compliant with PED 2014/68/EU
- ATEX compliant
 II 2G Ex h IIC T6..T3 Gb X
- Full traceability of pressure-retaining parts
- All MPCT female connectors can be provided with -AVA (anti-vibration) connection

MAWP 10'000 psi (690 bar)

FEMALE / FEMALE – BSPP				
Conn.	Nova Ref.	Orif. Ø	Open bar (psi)	
1/4"	CVP-10-4B-4	4.5	~ 4.0/5.0	(58.0/72.5)
1/4"	CVP-10-4B-100	4.5	~ 0.35/0.5	(58.0/72.5)
3/8"	CVP-10-6B-100	6.5	~ 0.35/0.5	(5.0/7.0)
1/2"	CVP-10-8B-4	9.0	~ 4.0/5.0	(58.0/72.5)
1/2"	CVP-10-8B-100	9.0	~ 0.35/0.5	(5.0/7.0)

MAWP 10'000 psi (690 bar)

Female / Female – NPT				
Conn.	Nova Ref.	Orif. Ø	Open bar (psi)	
1/4"	CVP-10-4N-4	4.5	~ 4.0/5.0	(58.0/72.5)
1/2"	CVP-10-8N-4	9.0	~ 4.0/5.0	(58.0/72.5)

MAWP 14'000 psi (965 bar)

FEMALE / FEMALE – MPCT				
Conn.	Nova Ref.	Orif. Ø	Open bar (psi)	
1/4"	CVP-14-4M-300	2.8	~ 0.35/0.5	(5.0/7.0)
3/8"	CVP-14-6M-300	5.2	~ 0.35/0.5	(5.0/7.0)
9/16"	CVP-14-9M-300	9.0	~ 0.35/0.5	(5.0/7.0)

MAWP 20'000 psi (1'380 bar)

FEMALE / FEMALE – MPCT				
Conn.	Nova Ref.	Orif. Ø	Open bar (psi)	
1/4"	CVP-20-4M-4	2.8	~ 4.0/5.0	(58.0/72.5)
1/4"	CVP-20-4M-100	2.8	~ 0.35/0.5	(5.0/7.0)
1/4"	CVP-20-4M-101	2.8	~ 9.0/11.0	(130.0/160.0)
1/4"	CVP-20-4M-102	2.8	~ 13.8/15.9	(200.0/230.0)
3/8"	CVP-20-6M-4	5.2	~ 4.0/5.0	(58.0/72.5)
3/8"	CVP-20-6M-100	5.2	~ 0.35/0.5	(5.0/7.0)
9/16"	CVP-20-9M-4	9.0	~ 4.0/5.0	(58.0/72.5)
9/16"	CVP-20-9M-100	9.0	~ 0.35/0.5	(5.0/7.0)
9/16"	CVP-20-9M-101	9.0	~ 3.5/4.2	(50.0/60.0)
3/4"	CVP-20-12M-4	13.1	~ 4.0/5.0	(58.0/72.5)
3/4"	CVP-20-12M-100	13.1	~ 0.35/0.5	(5.0/7.0)
1"	CVP-20-16M-4	17.5	~ 4.0/5.0	(58.0/72.5)
1"	CVP-20-16M-100	17.5	~ 0.35/0.5	(5.0/7.0)

MAWP 20'000 psi (1'380 bar)

FEMALE / MALE – MPCT				
Conn.	Nova Ref.	Orif. Ø	Open bar (psi)	
1/4"	CVP-20-4M-4-M	2.8	~ 4.0/5.0	(58.0/72.5)
3/8"	CVP-20-6M-4-M	5.2	~ 4.0/5.0	(58.0/72.5)
9/16"	CVP-20-9M-4-M	9.0	~ 4.0/5.0	(58.0/72.5)
3/4"	CVP-20-12M-4-M	13.1	~ 4.0/5.0	(58.0/72.5)

MAWP 20'000 psi (1'380 bar)

MALE / FEMALE – MPCT				
Conn.	Nova Ref.	Orif. Ø	Open bar (psi)	
1/4"	CVP-20-4M-4-F	5.2	~ 4.0/5.0	(58.0/72.5)
3/4"	CVP-20-12M-4-F	13.1	~ 4.0/5.0	(58.0/72.5)