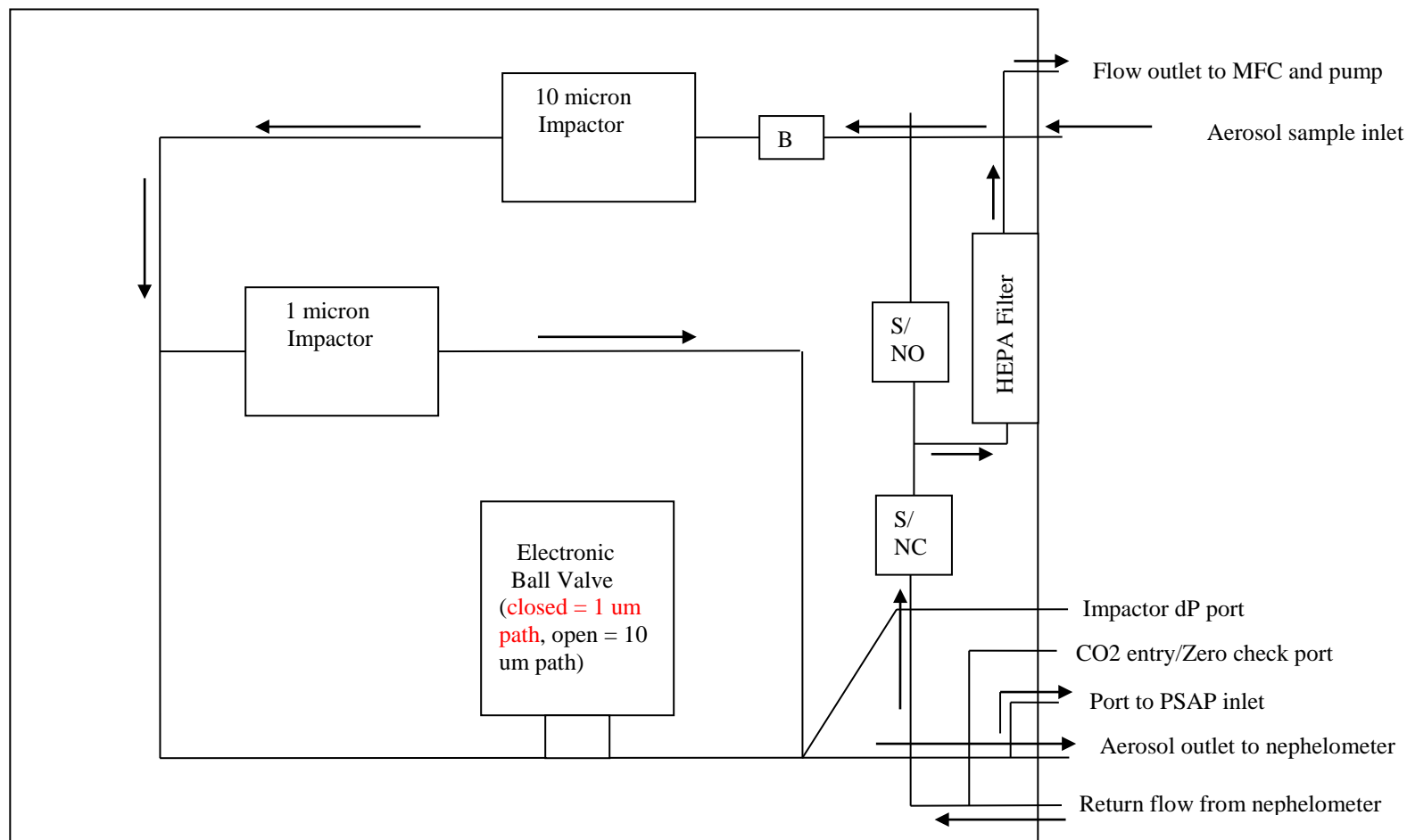


NOAA/CMDL Impactor Box Flow Schematic – Normal Operation, 1-micron cut

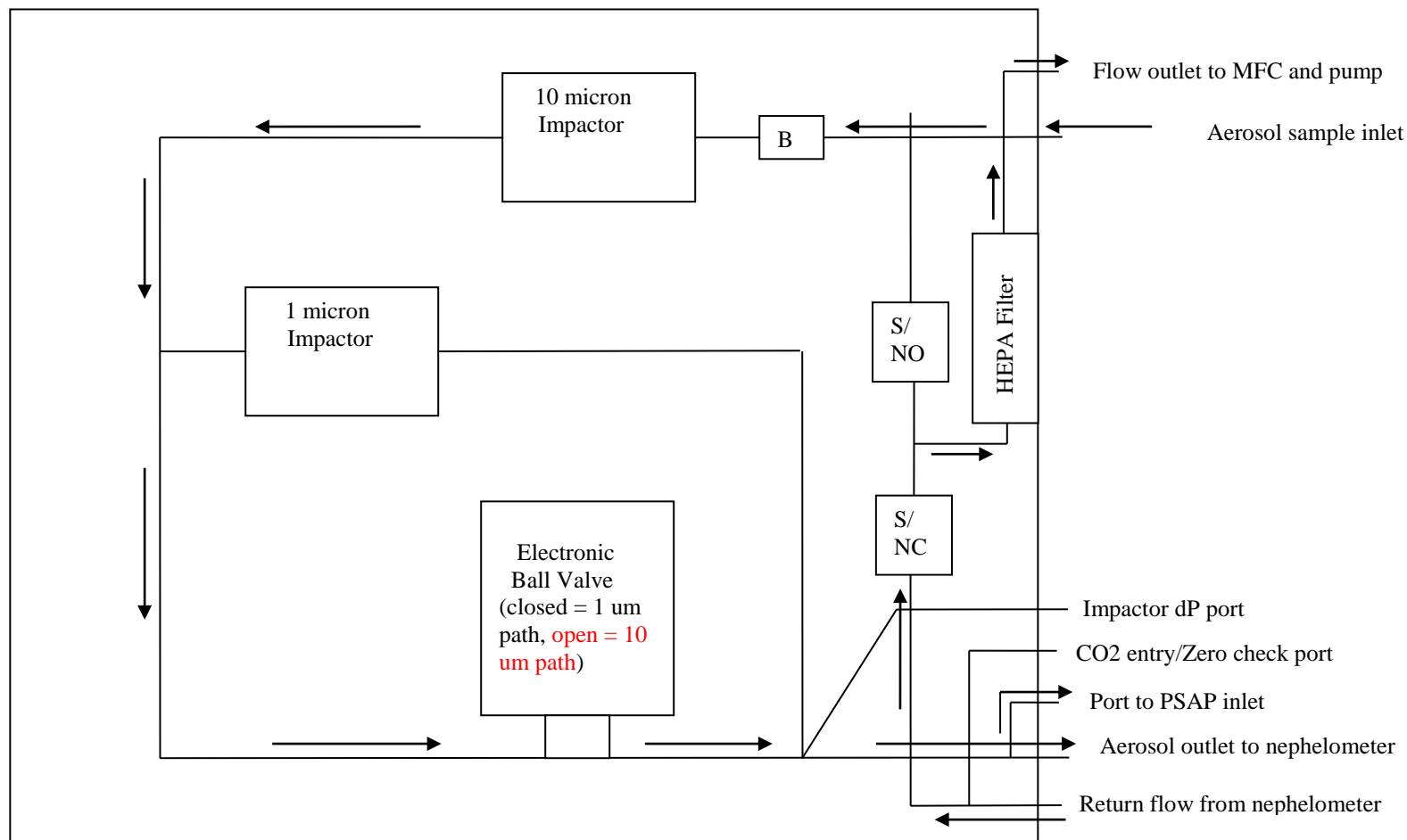


B = Manual Ball Valve (open position)

S/NO = Electronic Solenoid Valve, Normally Open (without power)

S/NC = Electronic Solenoid Valve, Normally Closed (without power)

NOAA/CMDL Impactor Box Flow Schematic – Normal Operation, 10-micron cut

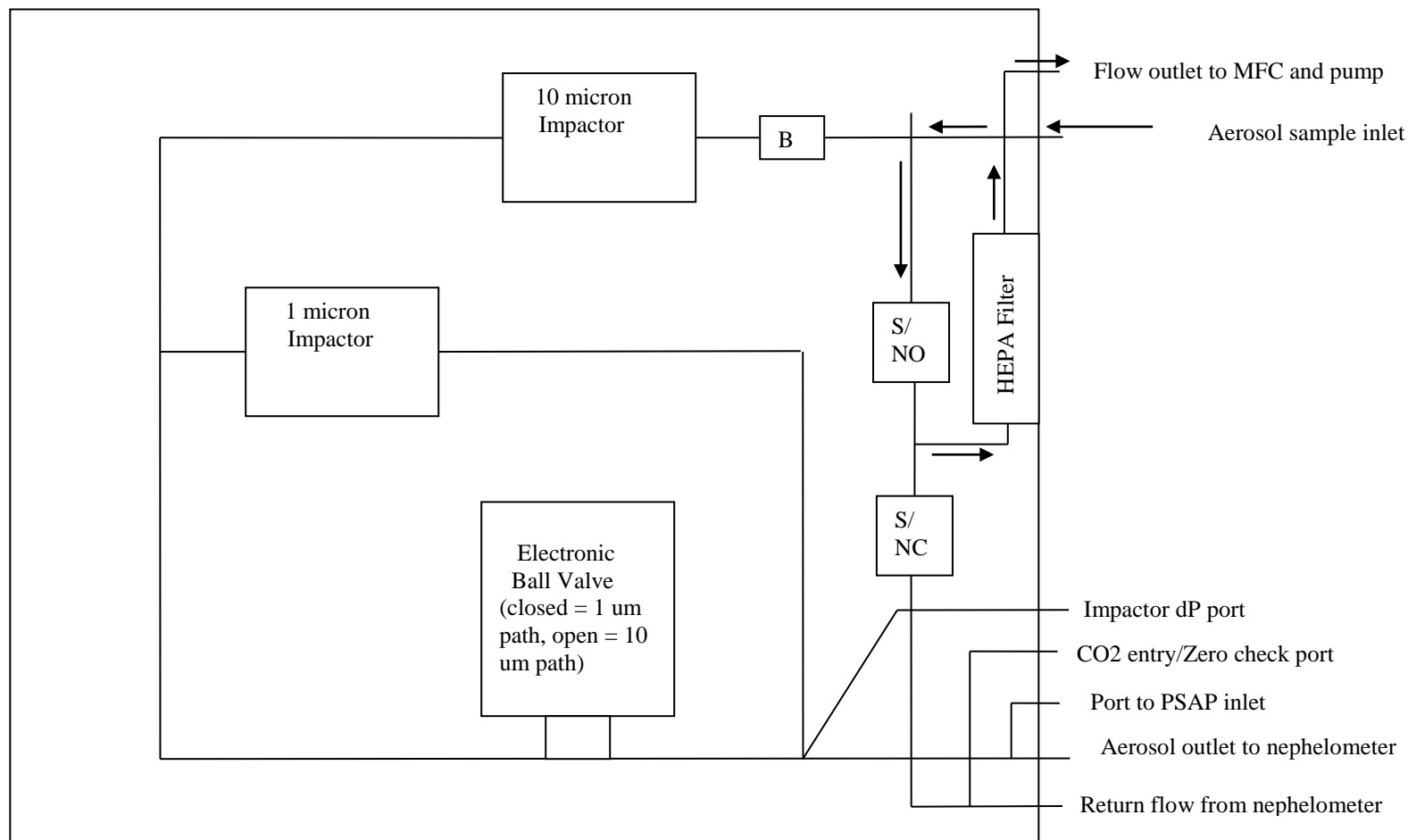


B = Manual Ball Valve (open position)

S/NO = Electronic Solenoid Valve, Normally Open (without power)

S/NC = Electronic Solenoid Valve, Normally Closed (without power)

NOAA/CMDL Impactor Box Flow Schematic – Impactor Bypass Operation (during impactor servicing)

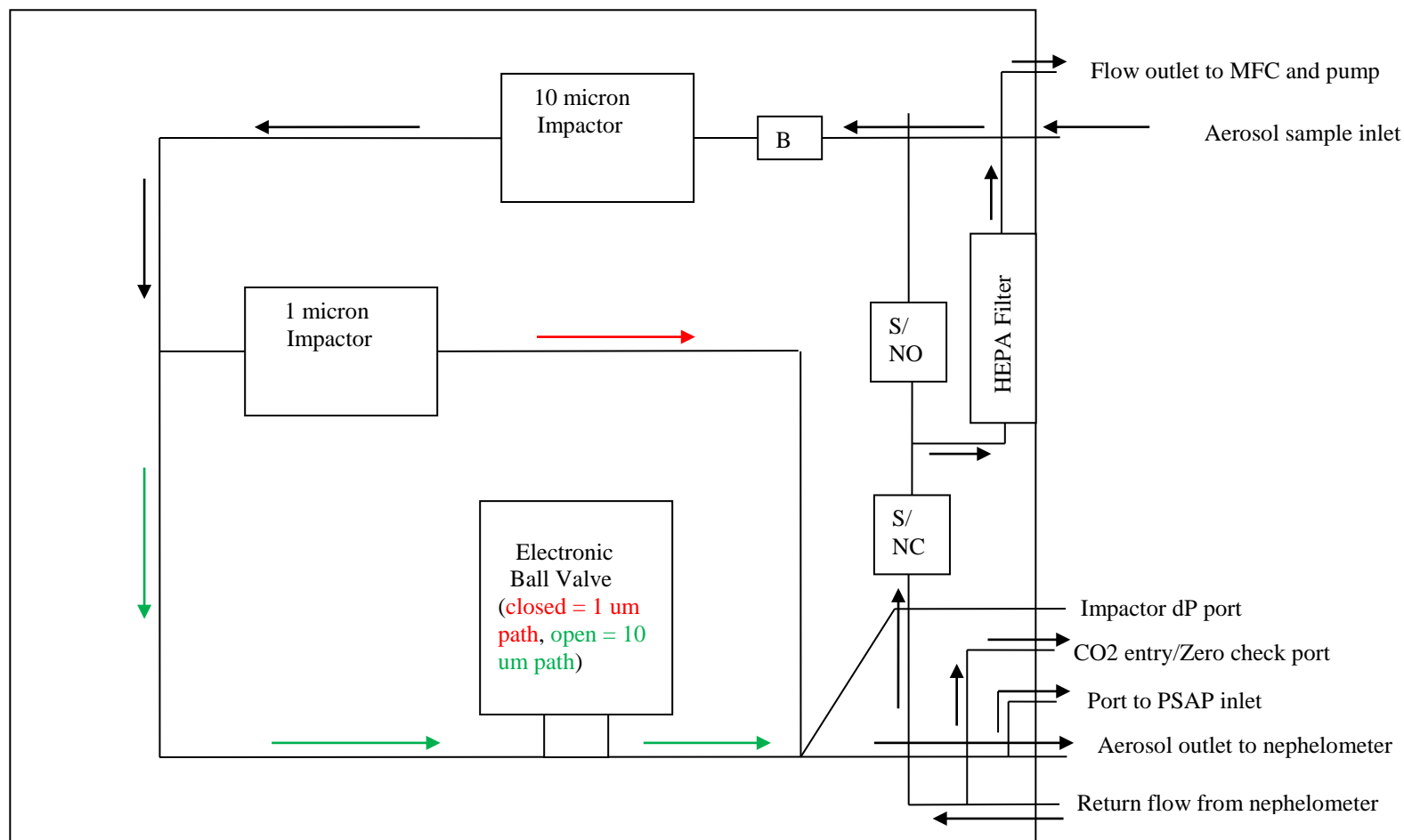


B = Manual Ball Valve (closed position)

S/NO = Electronic Solenoid Valve, Normally Open (without power)

S/NC = Electronic Solenoid Valve, Normally Closed (without power)

NOAA/CMDL Impactor Box Flow Schematic – Zero Check Operation (same as Normal Operation except zero check port is opened and connected to CPC using conductive tubing).

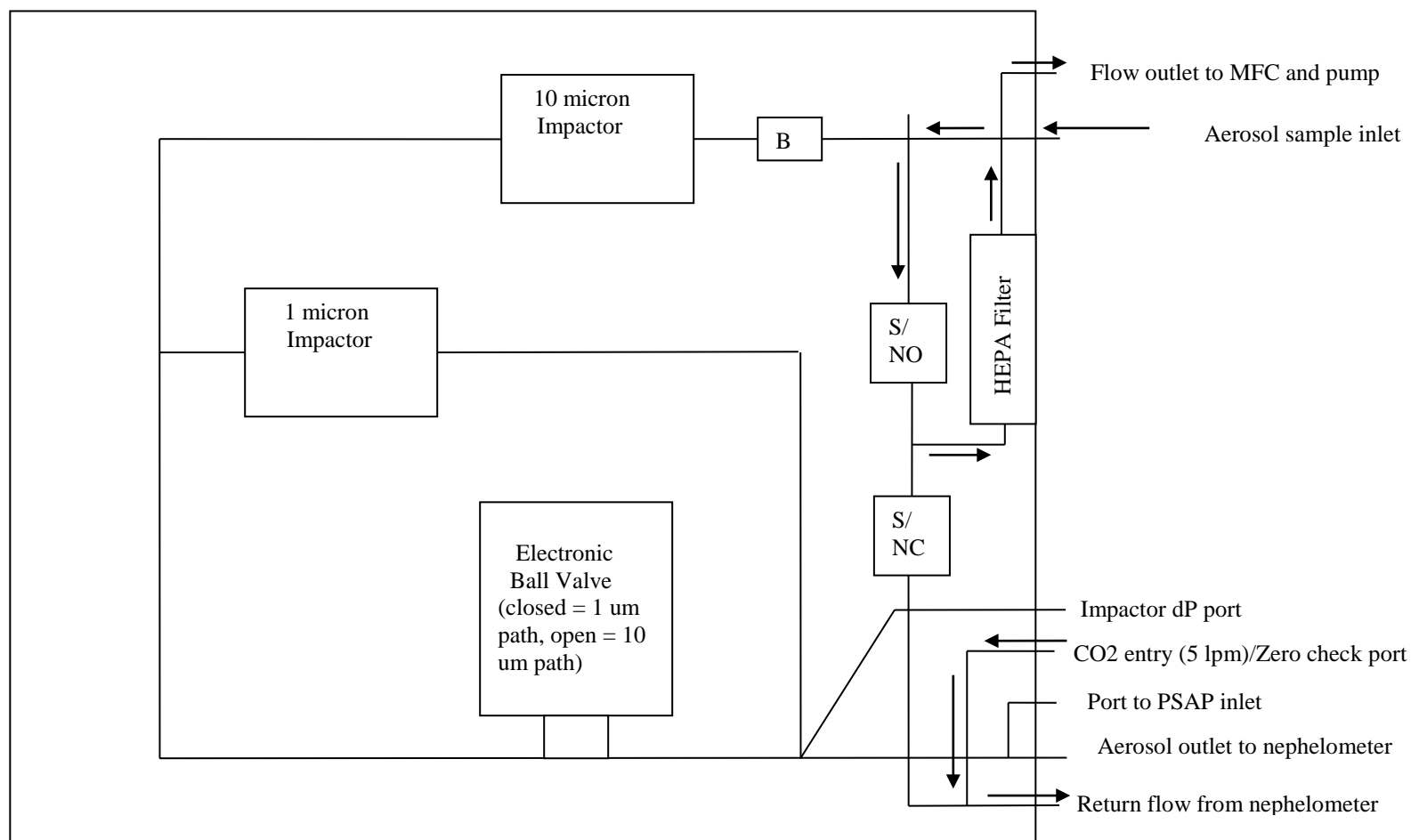


B = Manual Ball Valve (open position)

S/NO = Electronic Solenoid Valve, Normally Open (without power)

S/NC = Electronic Solenoid Valve, Normally Closed (without power)

NOAA/CMDL Impactor Box Flow Schematic – Span Check Operation



B = Manual Ball Valve (open position)

S/NO = Electronic Solenoid Valve, Normally Open (without power)

S/NC = Electronic Solenoid Valve, Normally Closed (without power)