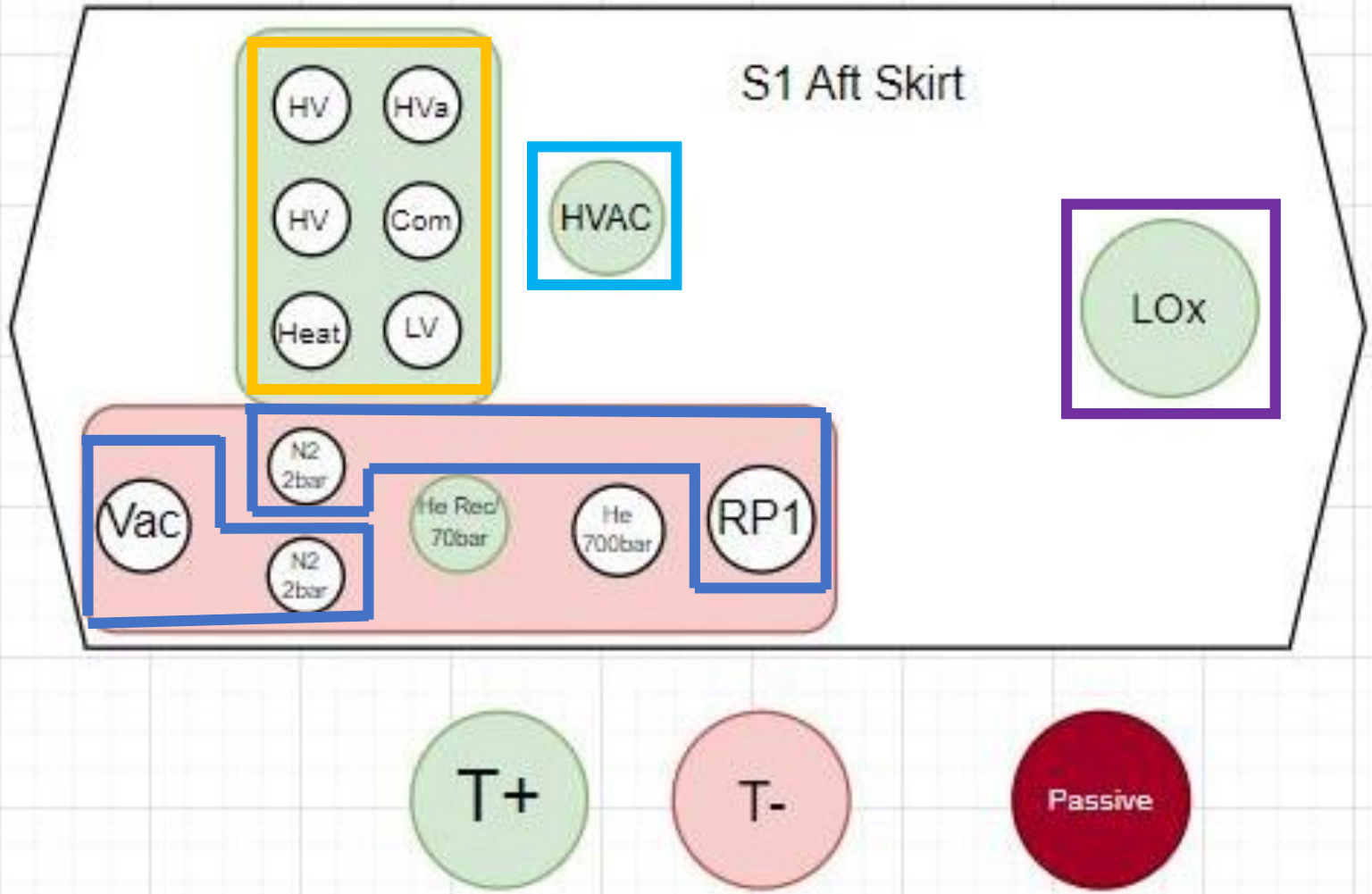
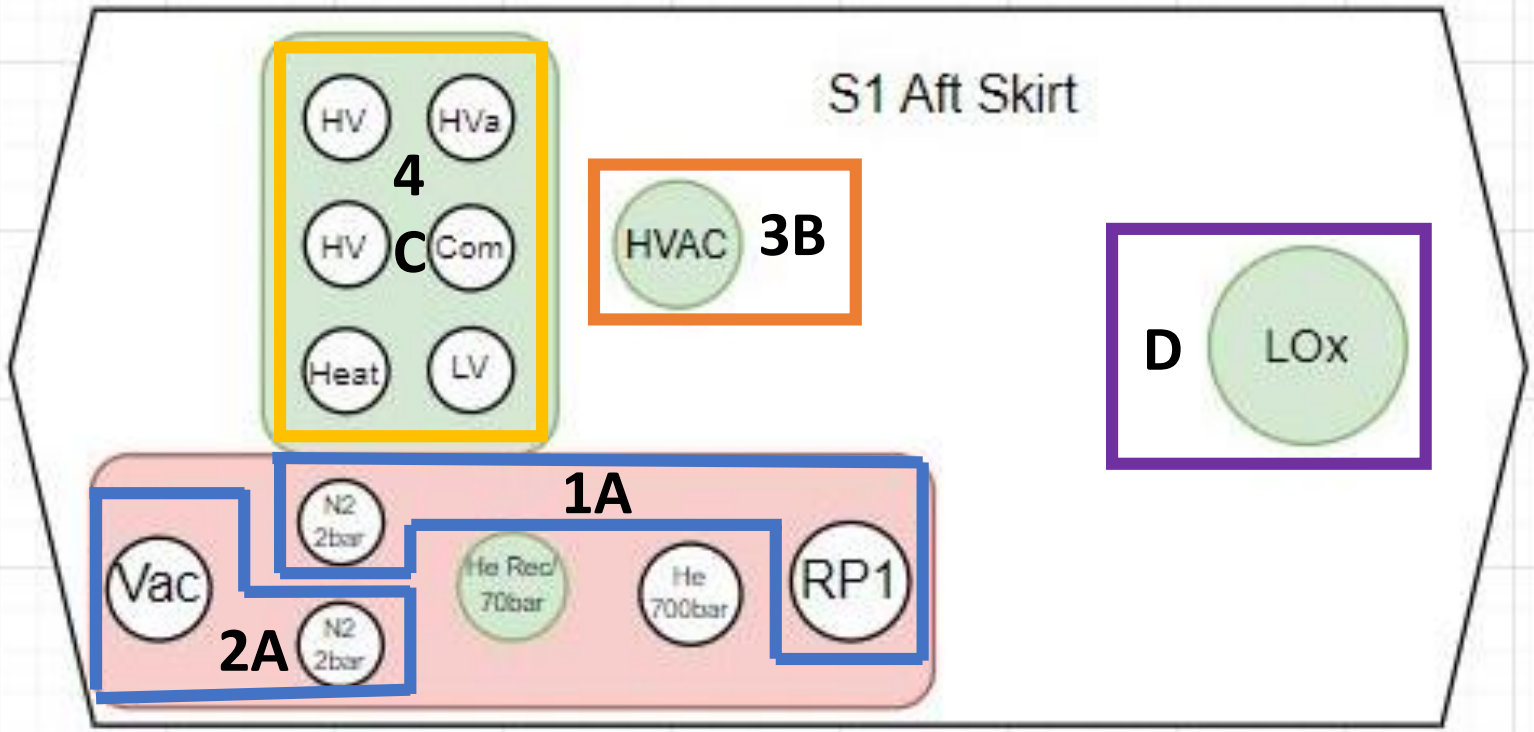
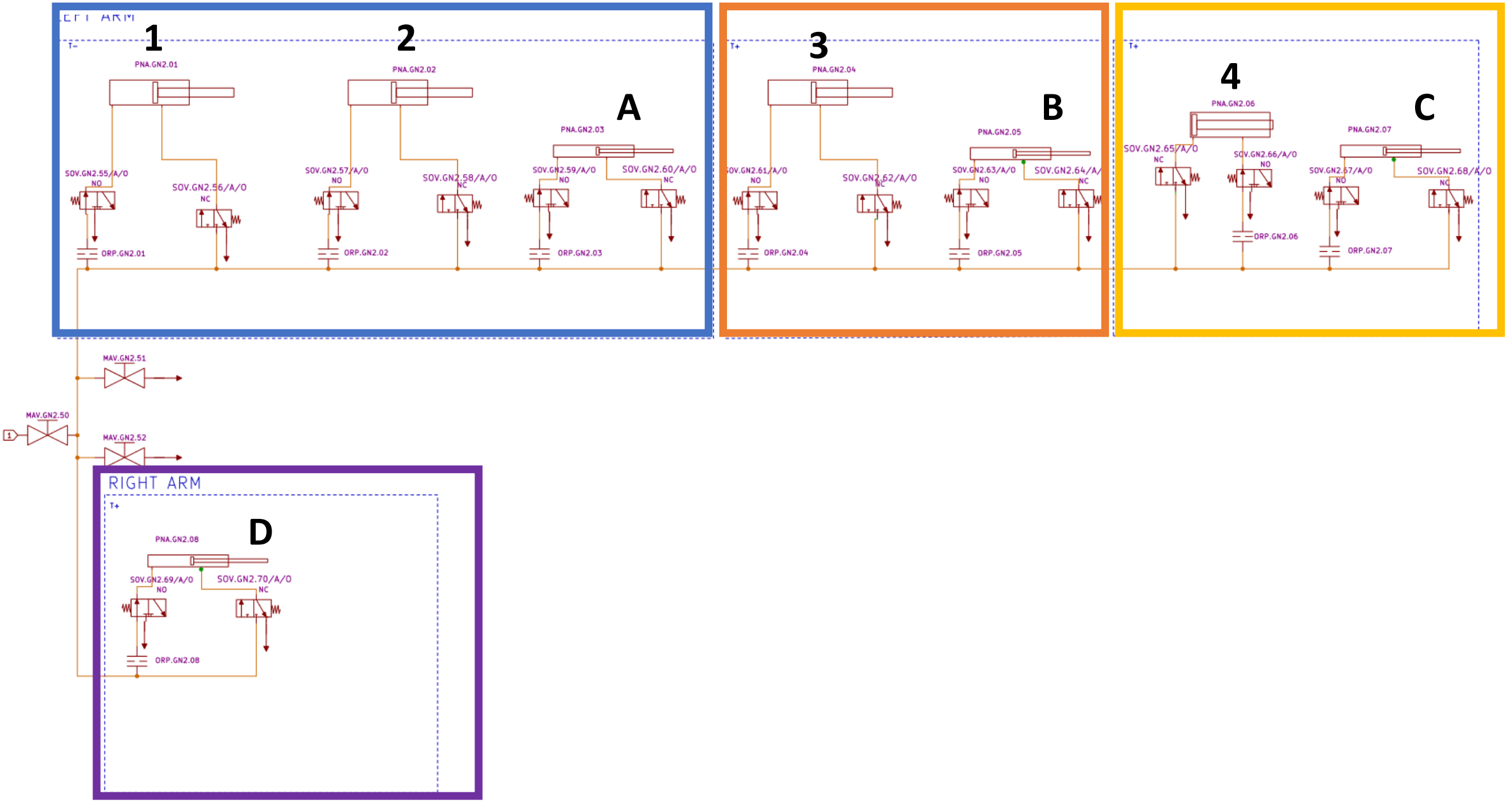
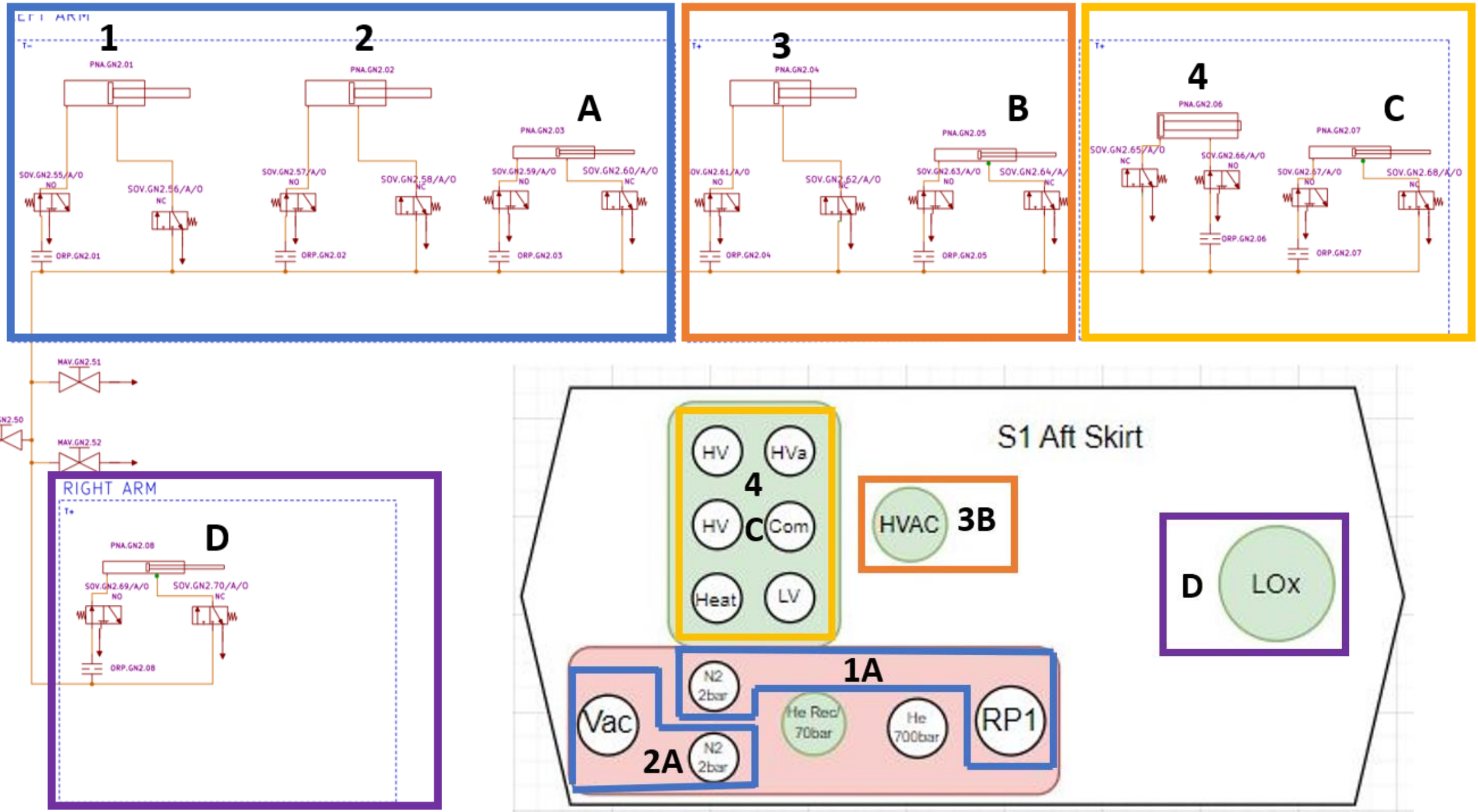
# S1L


S1 Aft Skirt
HV
HVa
HV
Com
Heat
LV
HVAC
LOx
N2
2bar
Vac
N2
2bar
He Rec
70bar
He
700bar
RP1
T+
T-
Passive

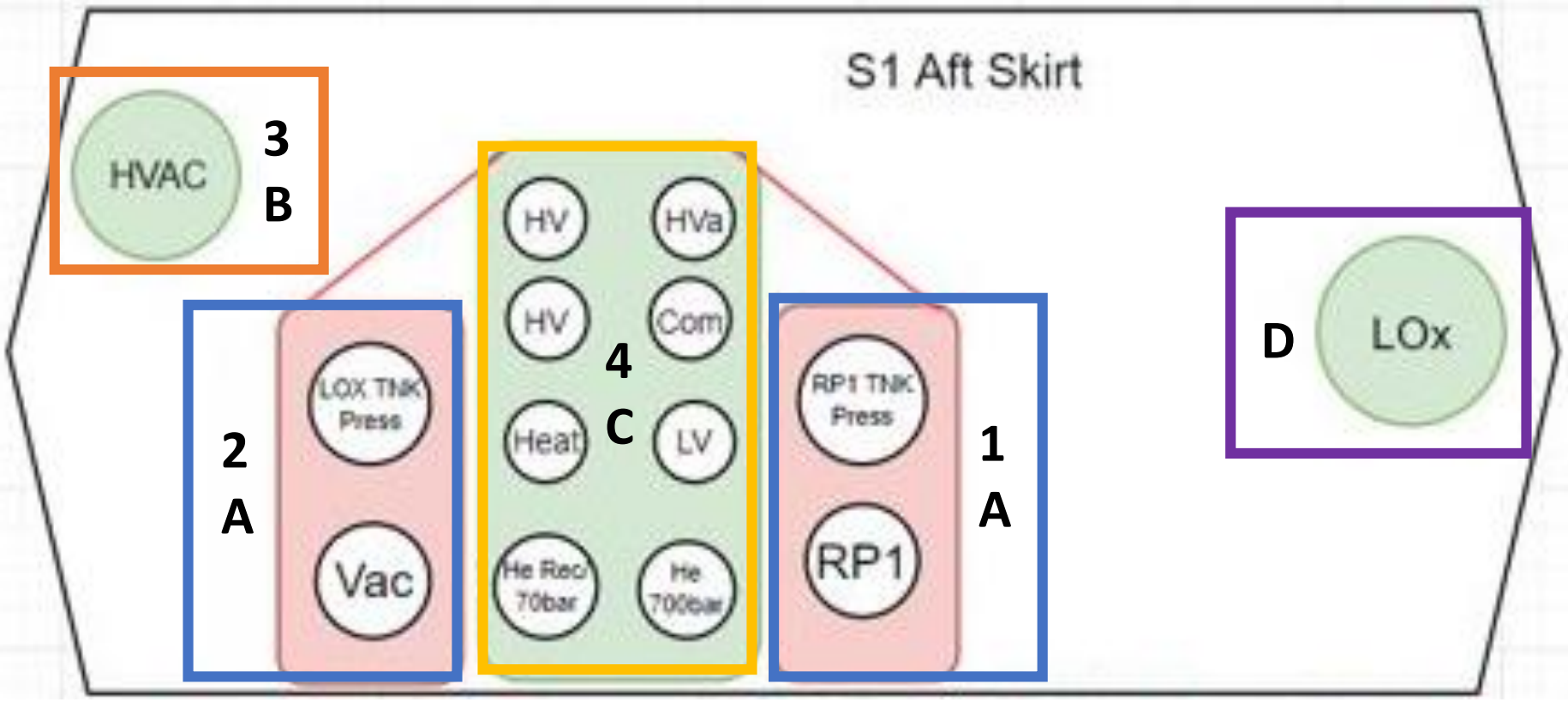
# S1L

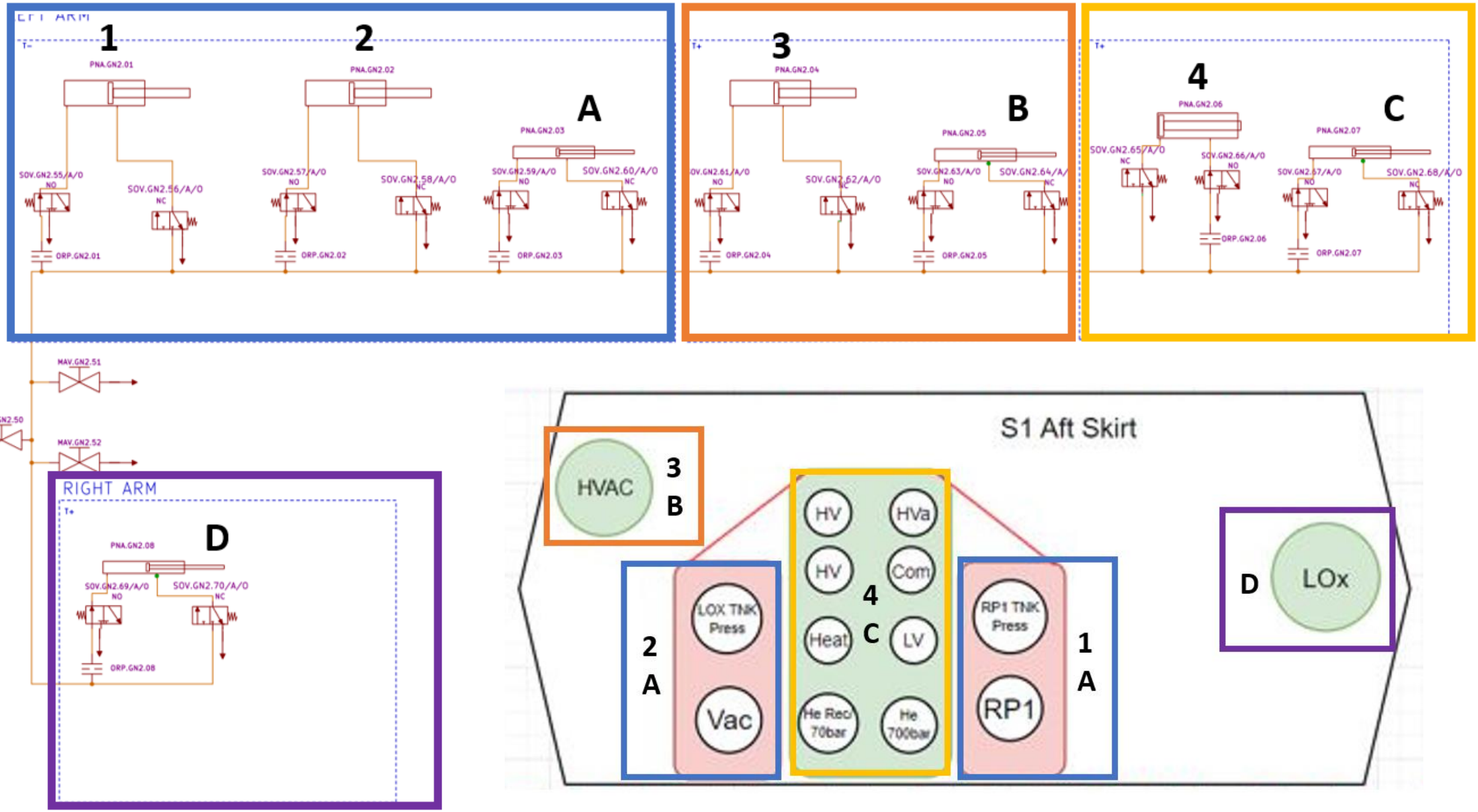

S1 Aft Skirt
HV
HVa
4
HV
C
Com
Heat
LV
HVAC
3B
D
LOx
1A
N2
2bar
Vac
He Rec/
70bar
He
700bar
RP1
2A
N2
2bar

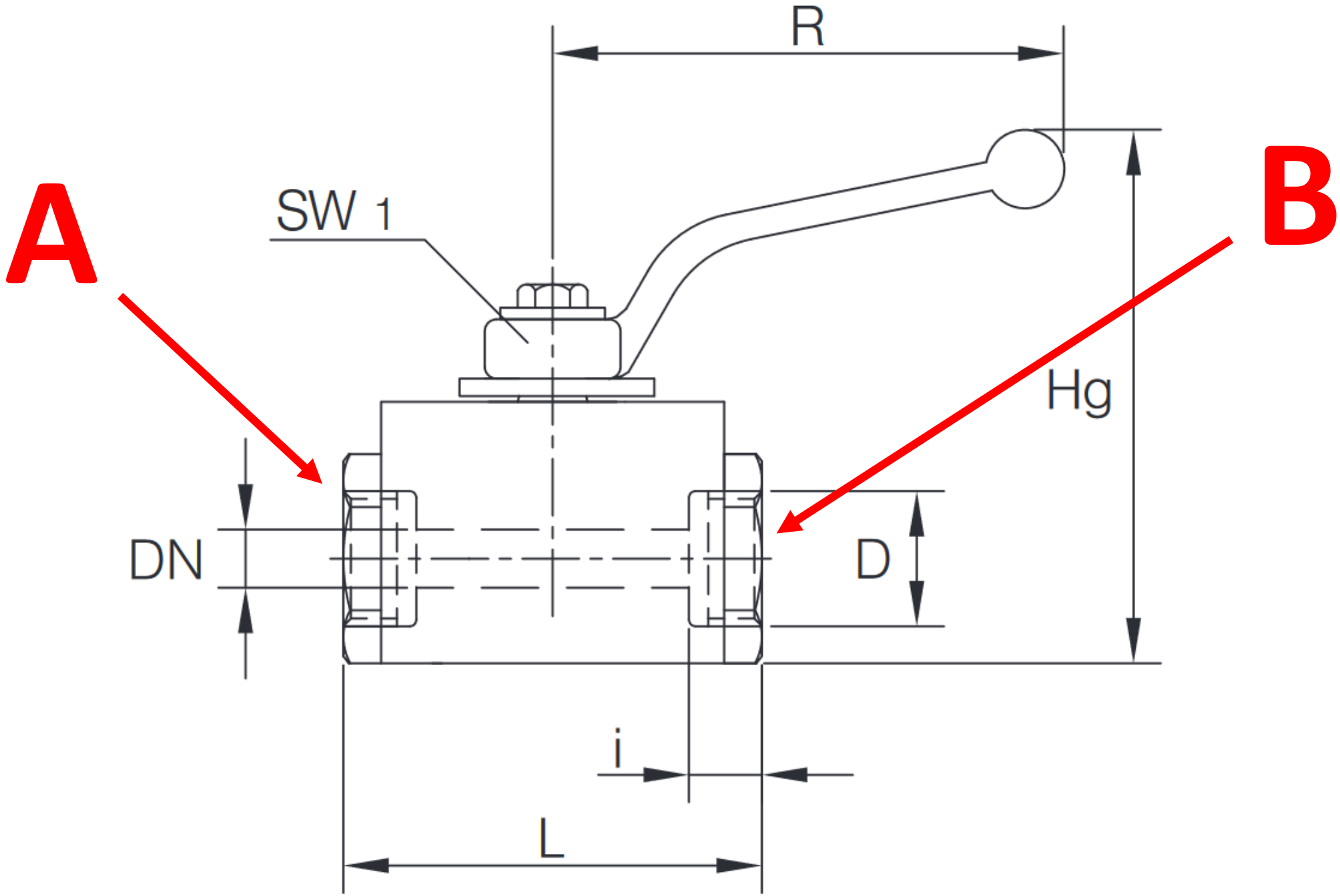

1
2
3
4
A
B
C
D
T-
T+
PNA.GN2.01
PNA.GN2.02
PNA.GN2.03
PNA.GN2.04
PNA.GN2.05
PNA.GN2.06
PNA.GN2.07
PNA.GN2.08
SOV.GN2.55/A/O
NO
SOV.GN2.56/A/O
NC
SOV.GN2.57/A/O
NO
SOV.GN2.58/A/O
NC
SOV.GN2.59/A/O
NO
SOV.GN2.60/A/O
NC
SOV.GN2.61/A/O
NO
SOV.GN2.62/A/O
NC
SOV.GN2.63/A/O
NO
SOV.GN2.64/A/
NC
SOV.GN2.65/A/O
NC
SOV.GN2.66/A/O
NO
SOV.GN2.67/A/O
NO
SOV.GN2.68/A/O
NC
SOV.GN2.69/A/O
NO
SOV.GN2.70/A/O
NC
ORP.GN2.01
ORP.GN2.02
ORP.GN2.03
ORP.GN2.04
ORP.GN2.05
ORP.GN2.06
ORP.GN2.07
ORP.GN2.08
MAV.GN2.50
MAV.GN2.51
MAV.GN2.52
RIGHT ARM

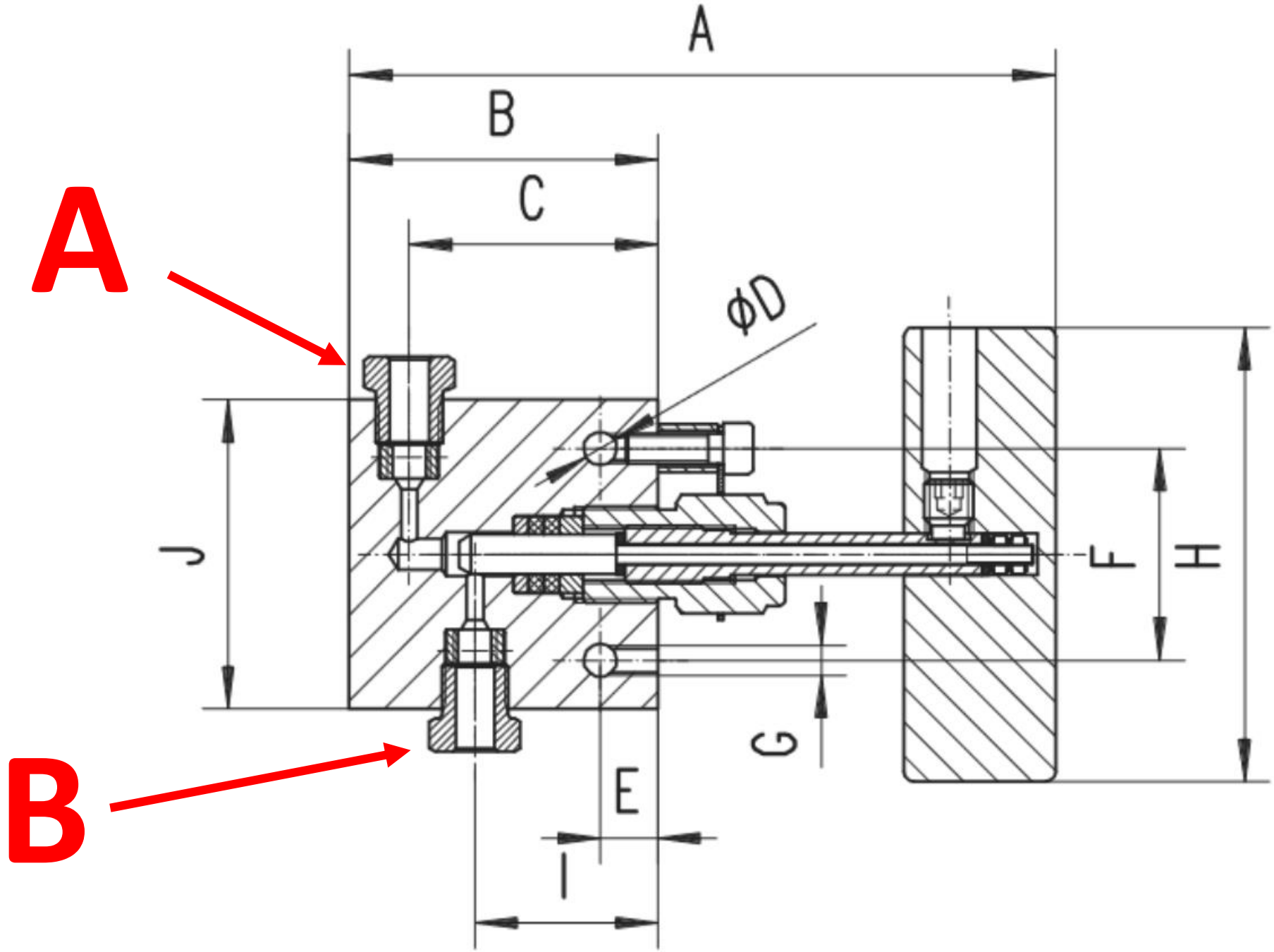

1
2
3
4
A
B
C
D
PNA.GN2.01
PNA.GN2.02
PNA.GN2.03
PNA.GN2.04
PNA.GN2.05
PNA.GN2.06
PNA.GN2.07
PNA.GN2.08
SOV.GN2.55/A/O
SOV.GN2.56/A/O
SOV.GN2.57/A/O
SOV.GN2.58/A/O
SOV.GN2.59/A/O
SOV.GN2.60/A/O
SOV.GN2.61/A/O
SOV.GN2.62/A/O
SOV.GN2.63/A/O
SOV.GN2.64/A/O
SOV.GN2.65/A/O
SOV.GN2.66/A/O
SOV.GN2.67/A/O
SOV.GN2.68/A/O
SOV.GN2.69/A/O
SOV.GN2.70/A/O
ORP.GN2.01
ORP.GN2.02
ORP.GN2.03
ORP.GN2.04
ORP.GN2.05
ORP.GN2.06
ORP.GN2.07
ORP.GN2.08
MAV.GN2.50
MAV.GN2.51
MAV.GN2.52
RIGHT ARM
S1 Aft Skirt
HV
HVa
HV
Com
Heat
LV
HVAC
3B
LOx
N2
2bar
1A
Vac
2A
He Rec/
70bar
He
700bar
RP1

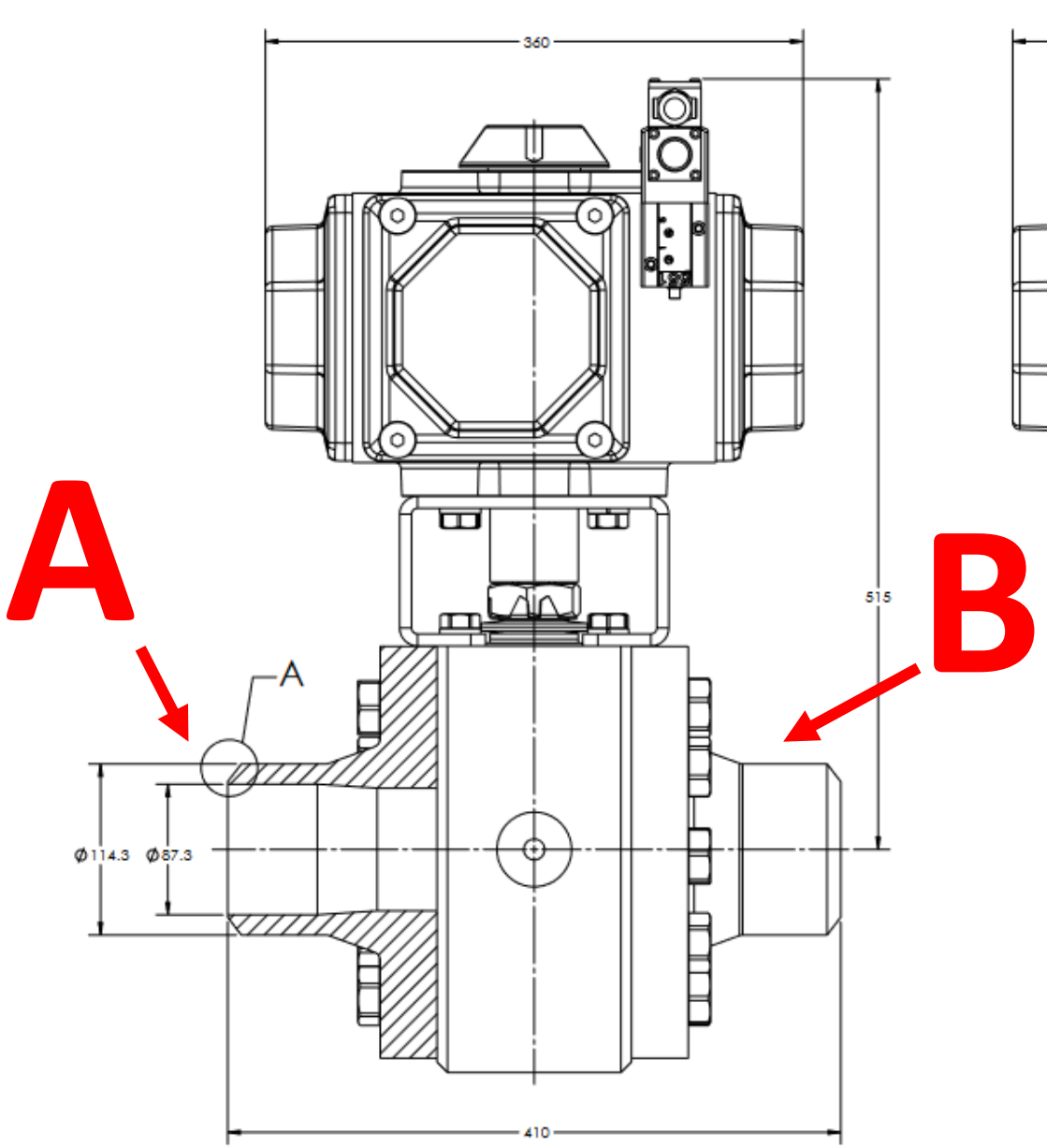
# S1L

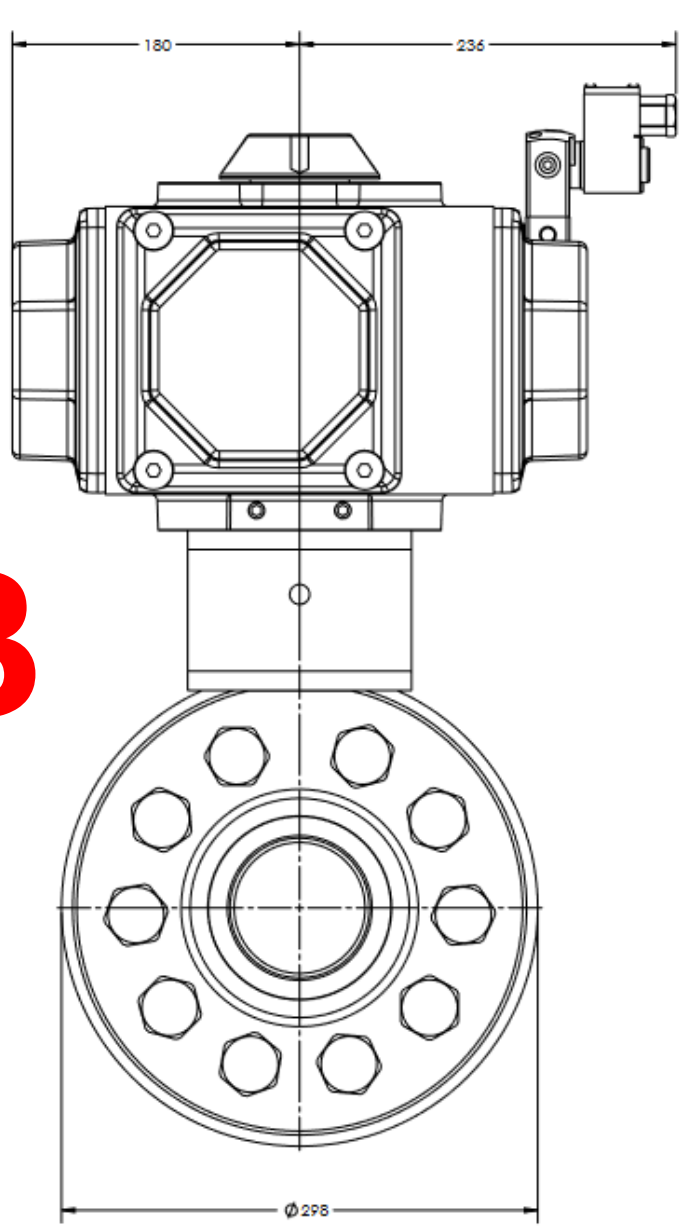

S1 Aft Skirt
HVAC
3
B
HV
HVa
HV
Com
4
C
Heat
LV
He Rec 70bar
He 700bar
2
A
LOX TNK Press
Vac
RP1 TNK Press
RP1
1
A
D
LOx

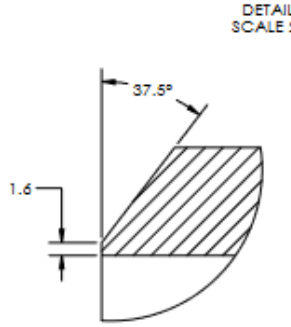

1
2
3
4
A
B
C
D
PNA.GN2.01
PNA.GN2.02
PNA.GN2.03
PNA.GN2.04
PNA.GN2.05
PNA.GN2.06
PNA.GN2.07
PNA.GN2.08
SOV.GN2.55/A/O
SOV.GN2.56/A/O
SOV.GN2.57/A/O
SOV.GN2.58/A/O
SOV.GN2.59/A/O
SOV.GN2.60/A/O
SOV.GN2.61/A/O
SOV.GN2.62/A/O
SOV.GN2.63/A/O
SOV.GN2.64/A/O
SOV.GN2.65/A/O
SOV.GN2.66/A/O
SOV.GN2.67/A/O
SOV.GN2.68/A/O
SOV.GN2.69/A/O
SOV.GN2.70/A/O
ORP.GN2.01
ORP.GN2.02
ORP.GN2.03
ORP.GN2.04
ORP.GN2.05
ORP.GN2.06
ORP.GN2.07
ORP.GN2.08
MAV.GN2.50
MAV.GN2.51
MAV.GN2.52
RIGHT ARM
S1 Aft Skirt
HVAC
HV
HVa
HV
Com
Heat
LV
LOX TNK Press
Vac
RP1 TNK Press
RP1
LOx

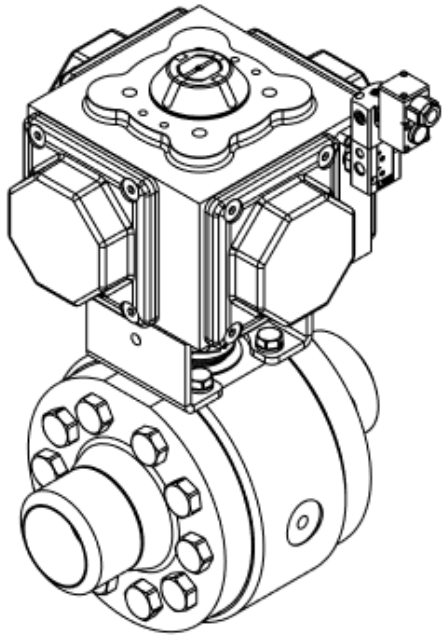

A
B
R
SW 1
Hg
DN
D
i
L


A
B
C
ϕD
J
F
H
G
E
I
A
B

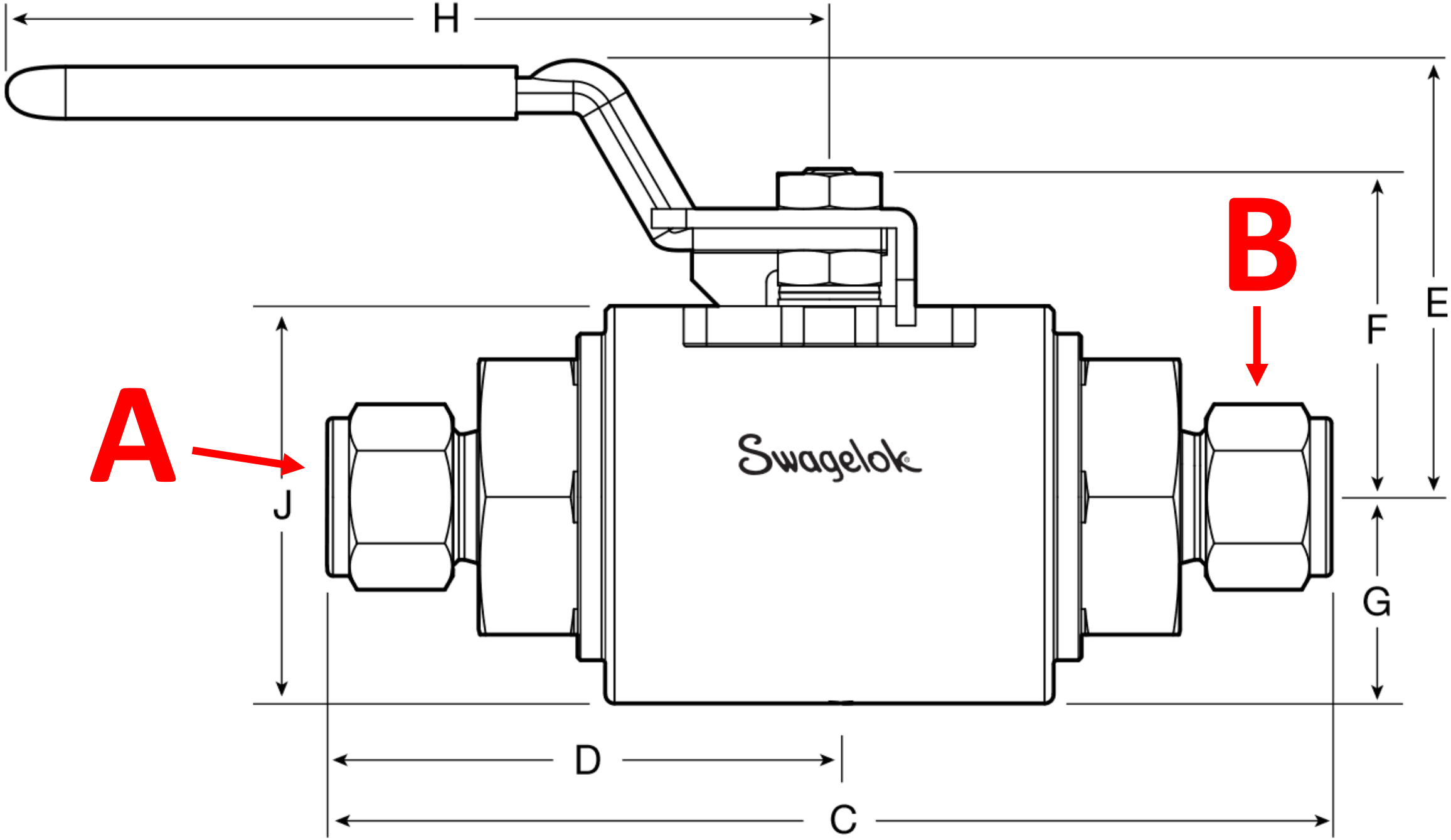


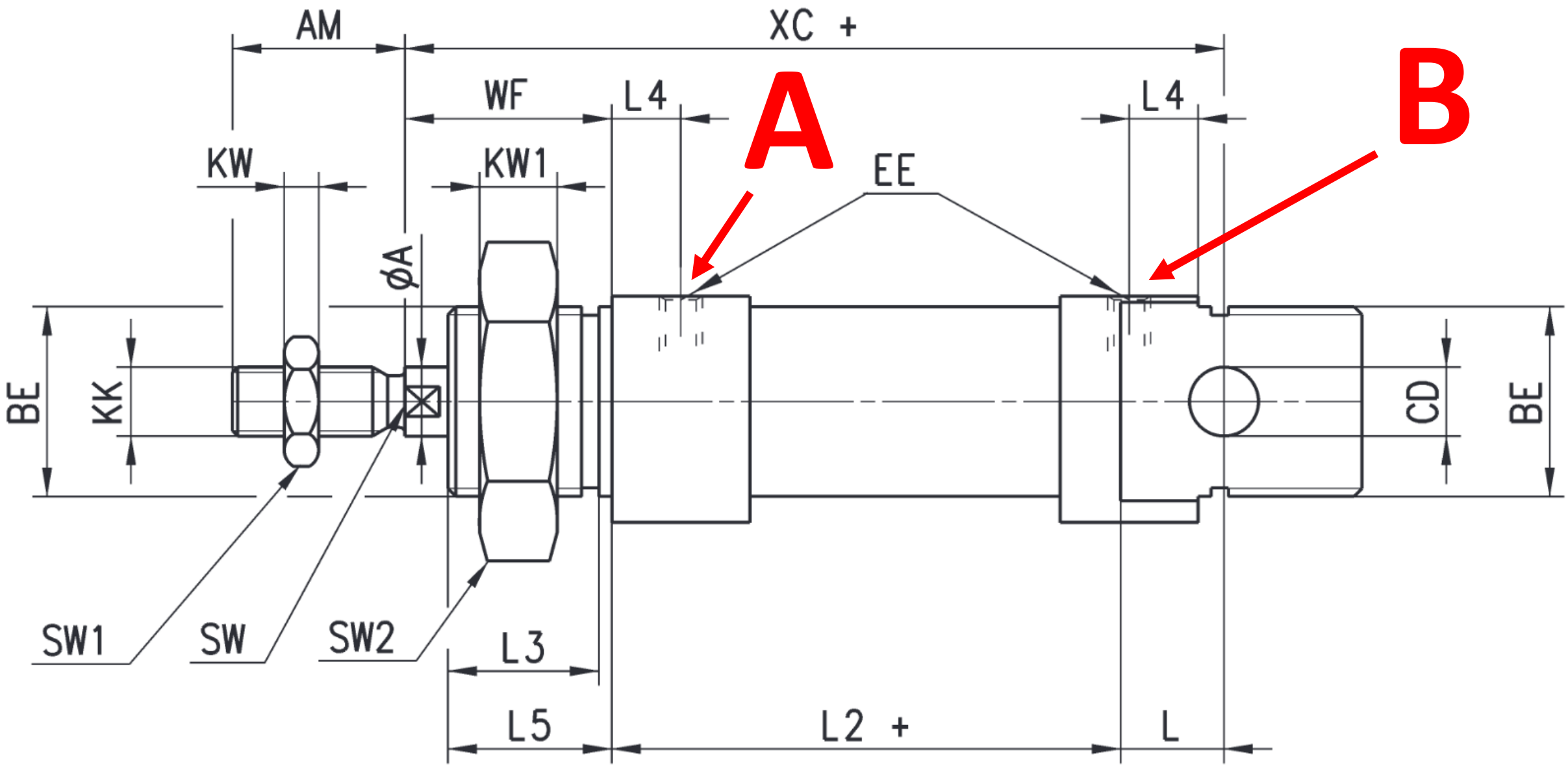



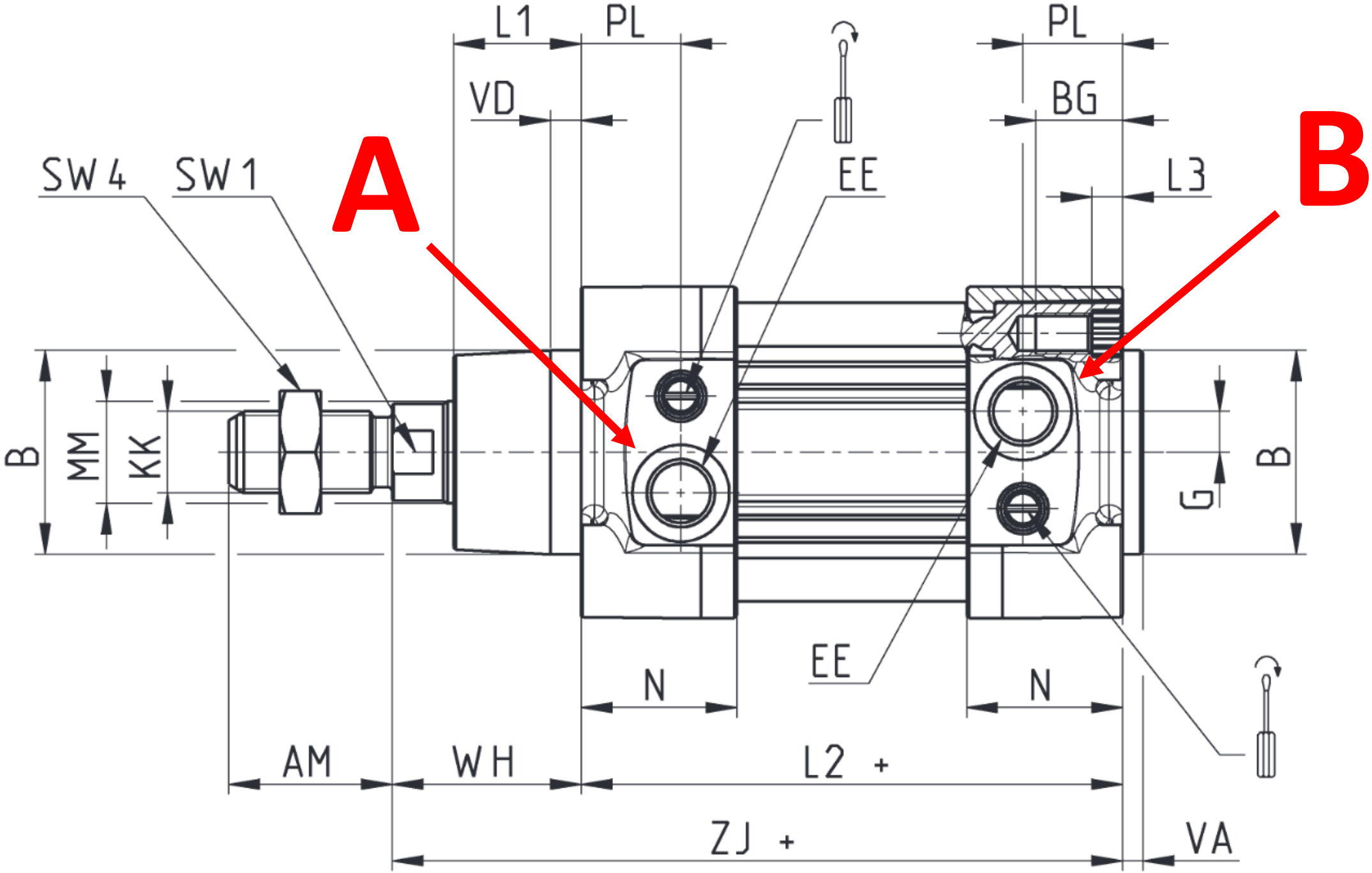



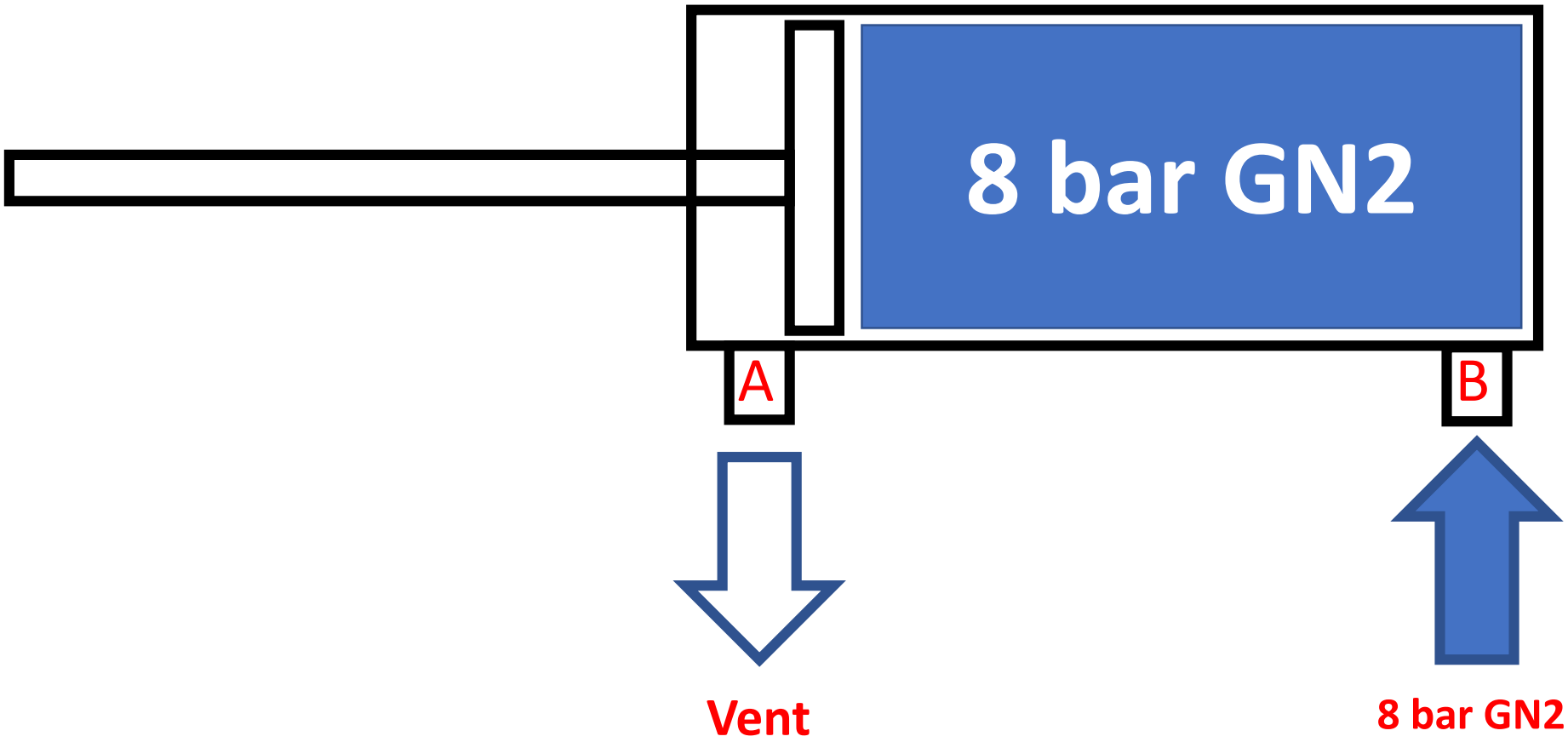
ALL DIMENSIONS ARE GIVEN IN MILIMETERS


H
E
F
B
A
J
Swagelok
G
D
C

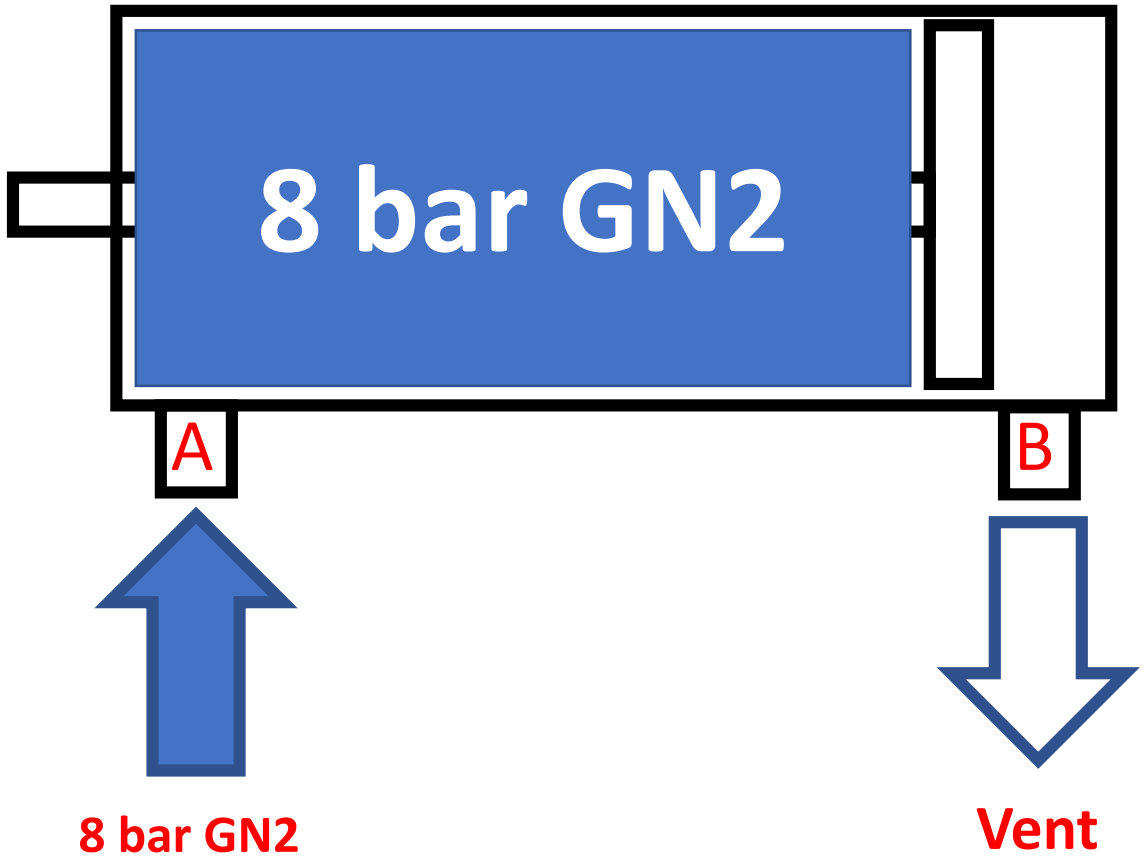

AM
XC +
WF
L4
L4
A
B
KW
KW1
EE
ØA
BE
KK
CD
BE
SW1
SW
SW2
L3
L5
L2 +
L


L1
PL
PL
VD
BG
A
B
SW 4
SW 1
EE
L3
B
MM
KK
G
B
EE
N
N
AM
WH
L2 +
ZJ +
VA

# Primary Pulling Piston: Extended

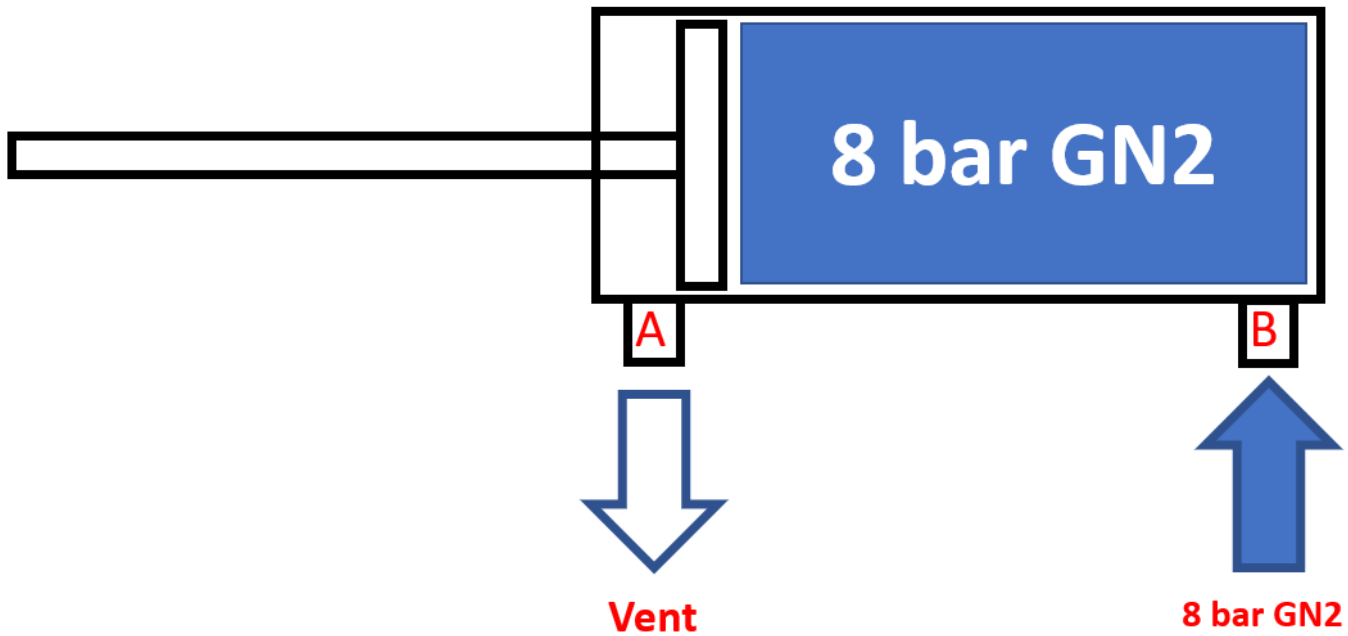


# Primary Pulling Piston: Retracted

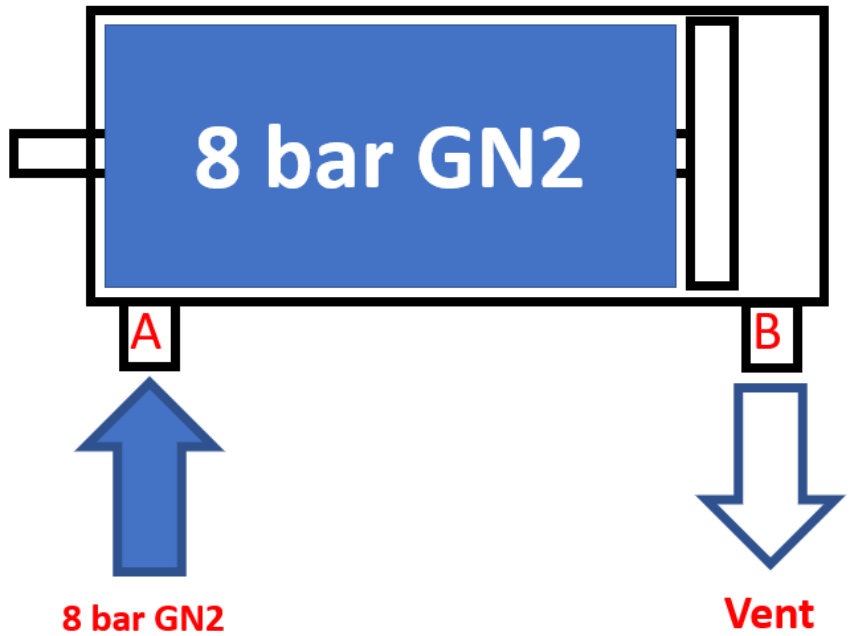


| In case of losing | Piston behavior |
| --- | --- |
| Electrical power | Extended |
| Pneumatics | Undefined<br>(influenced by friction in the piston<br>and external forces) |

## Primary Pulling Piston: Extended

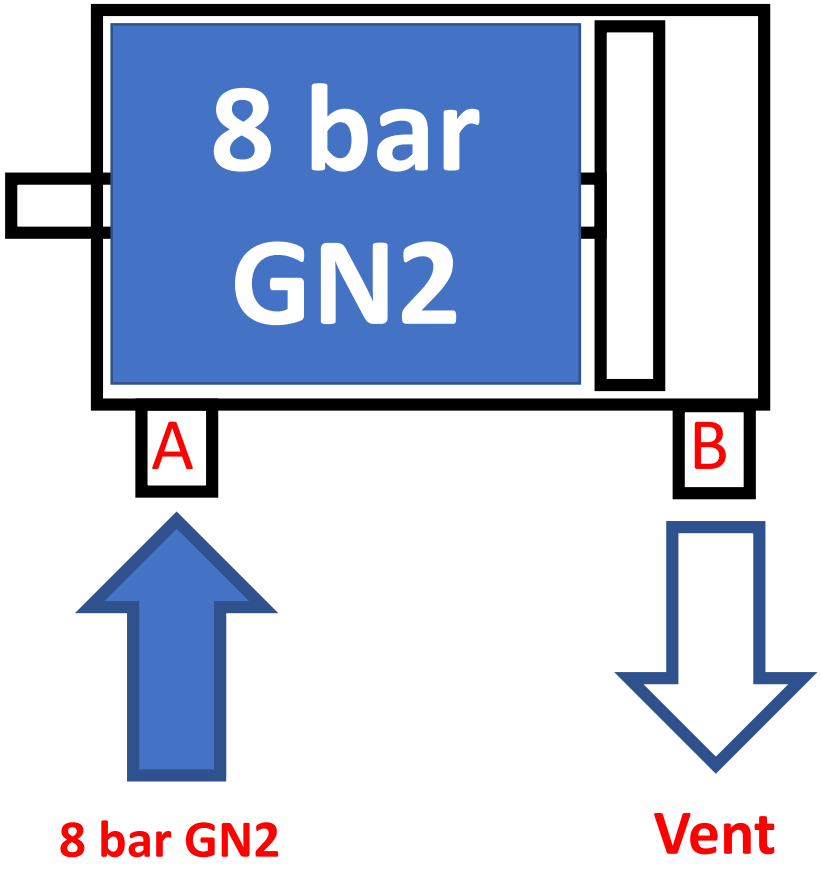



## Primary Pulling Piston: Retracted

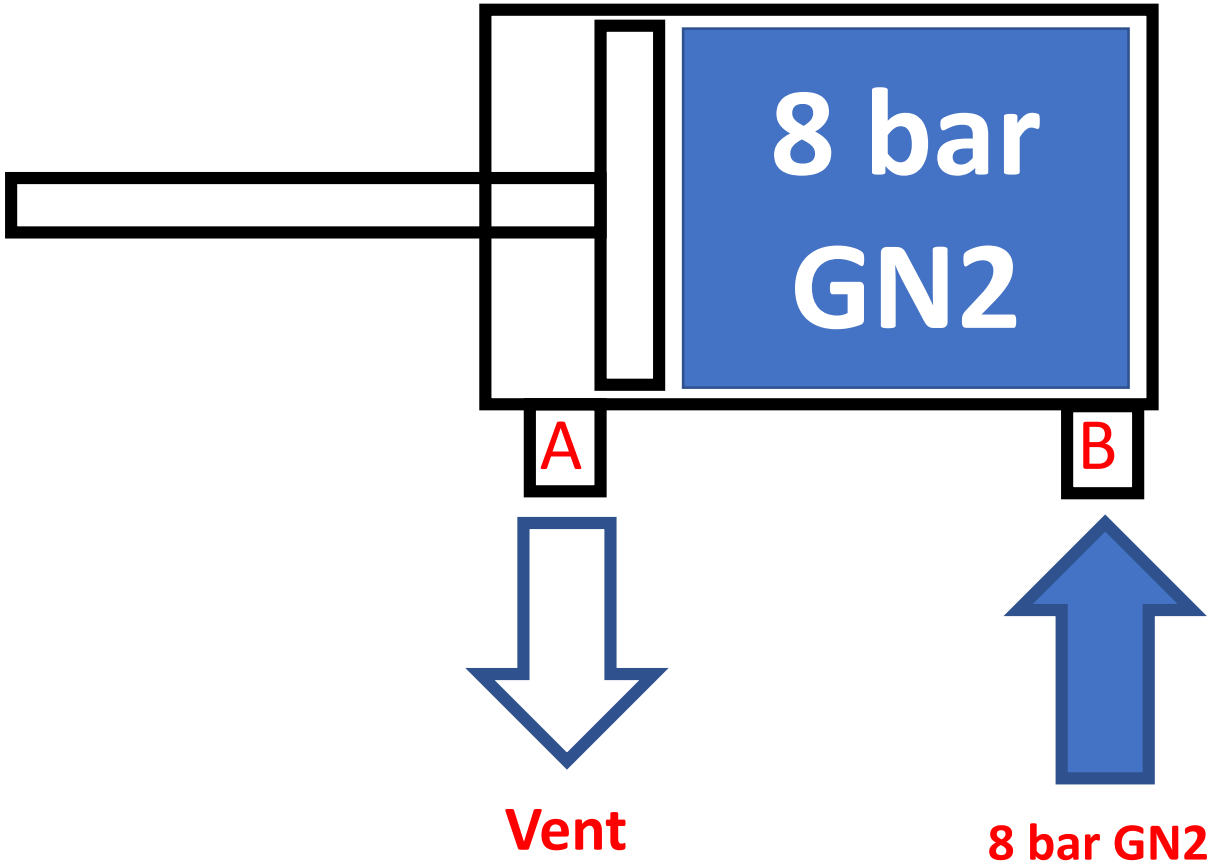



| In case of losing | Piston behavior |
|---|---|
| Electrical power | Extended |
| Pneumatics | Undefined<br>(influenced by friction in the piston and external forces) |

# Primary Pushing Piston: Retracted

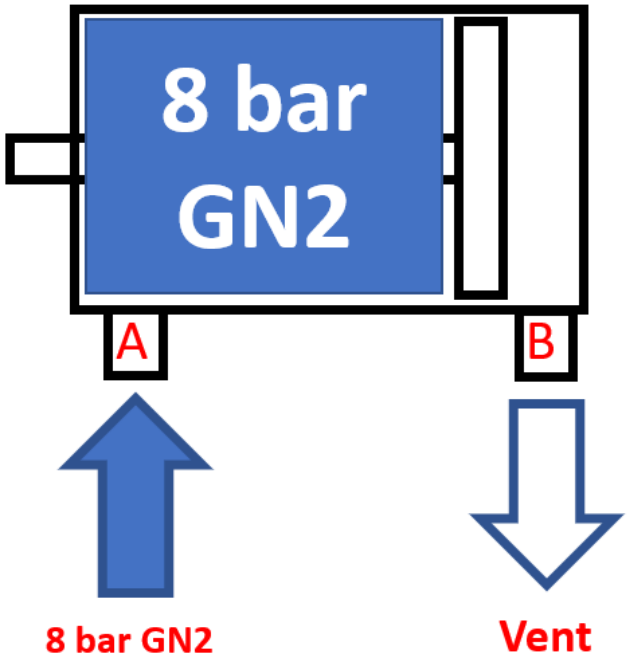


# Primary Pushing Piston: Extended

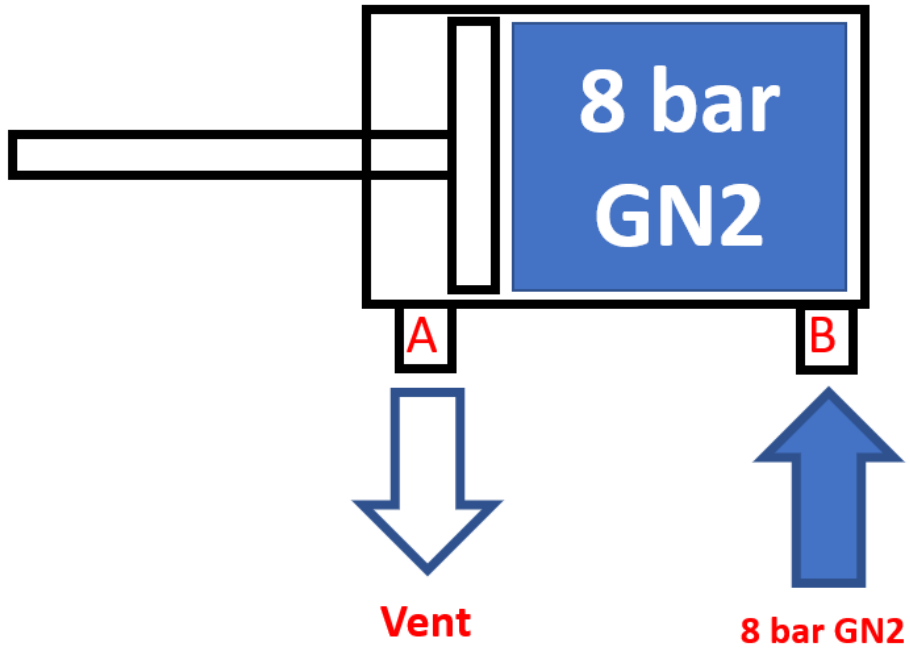


| In case of losing | Piston behavior |
| --- | --- |
| Electrical power | Retracted |
| Pneumatics | Undefined<br>(influenced by friction in the piston<br>and external forces) |

## Primary Pushing Piston: Retracted

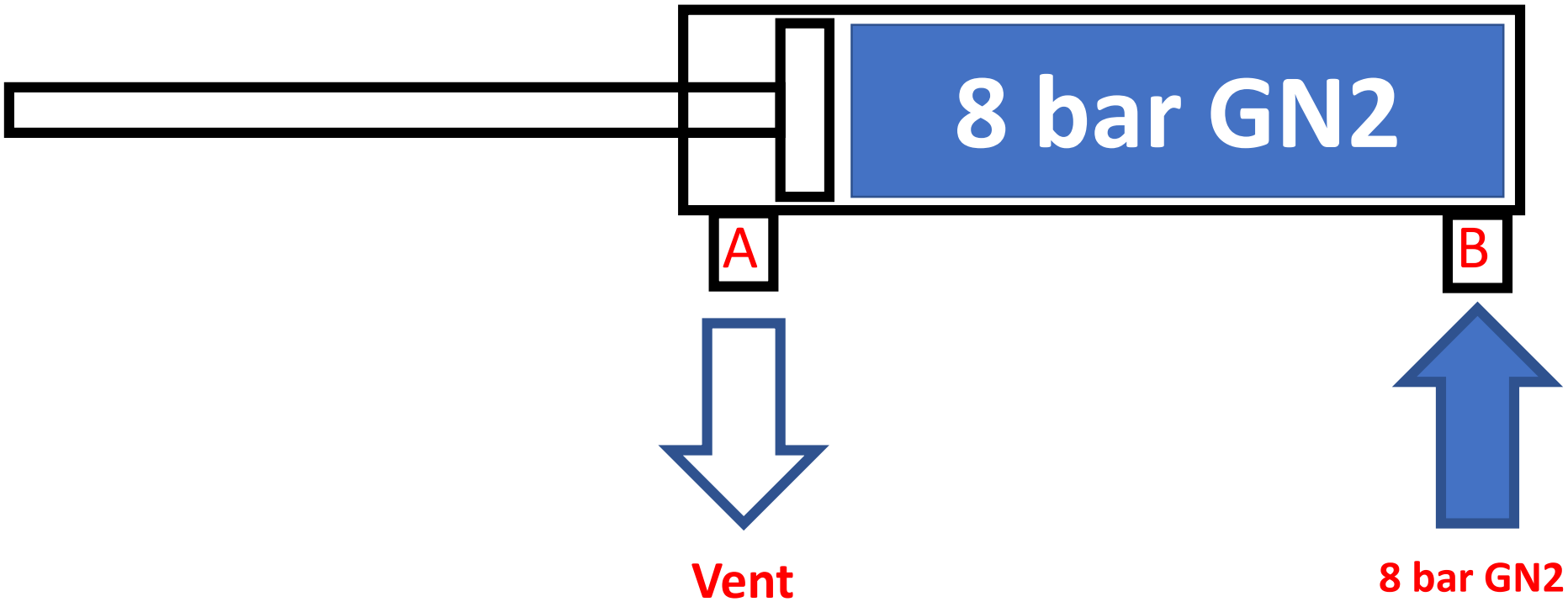



## Primary Pushing Piston: Extended

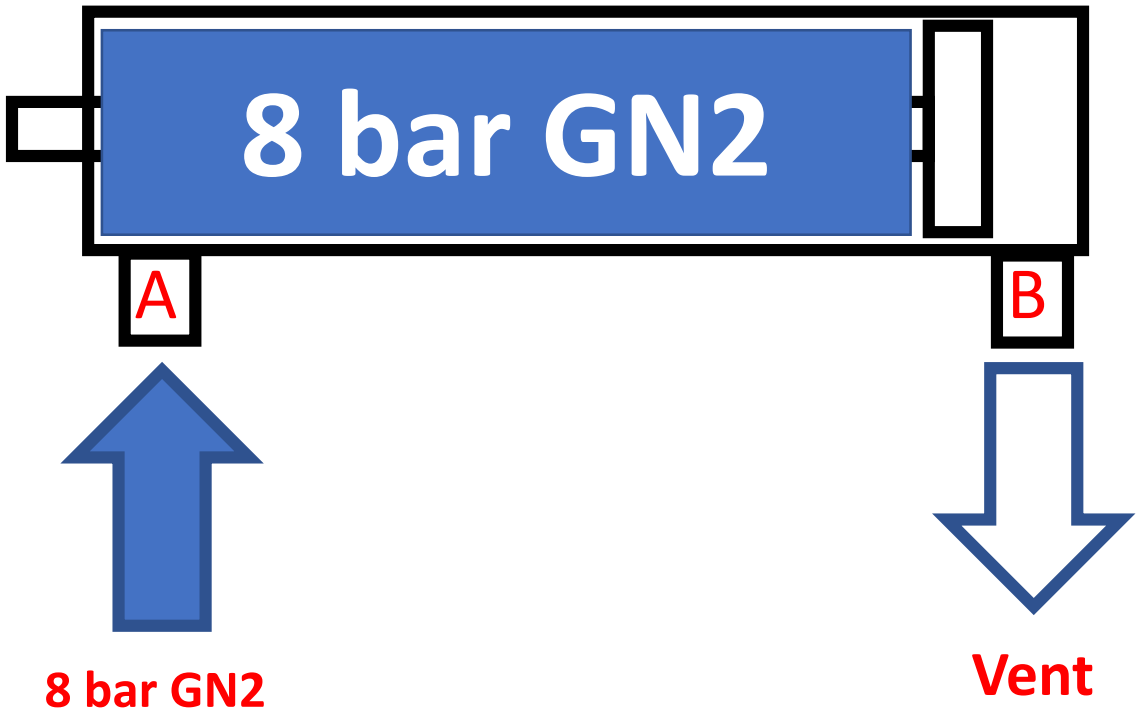



| In case of losing | Piston behavior |
|---|---|
| Electrical power | Retracted |
| Pneumatics | Undefined<br>(influenced by friction in the piston and external forces) |

# Secondary Pulling Piston: Extended

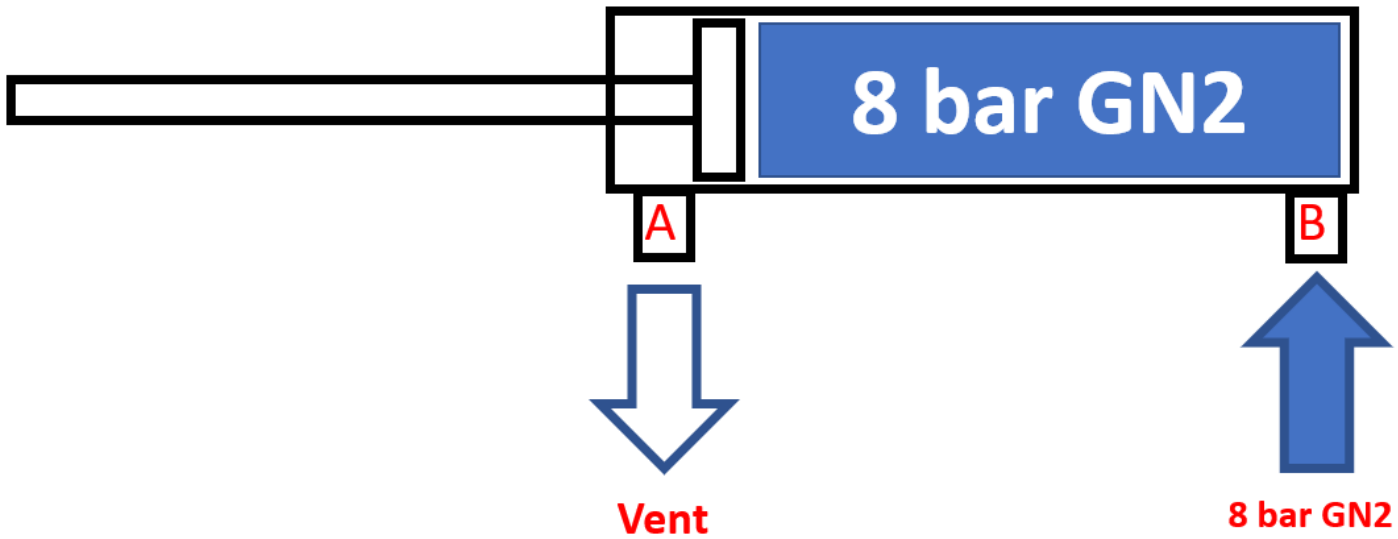


# Secondary Pulling Piston: Retracted

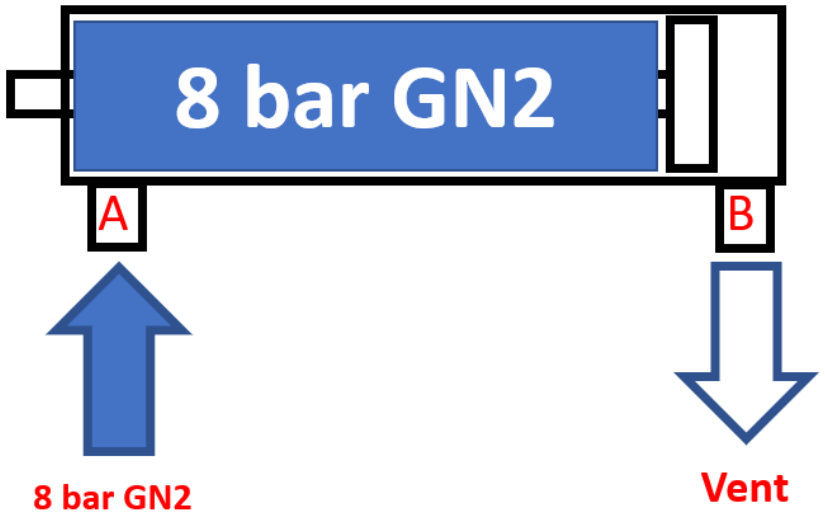


| In case of losing | Piston behavior |
| --- | --- |
| Electrical power | Extended |
| Pneumatics | Undefined<br>(influenced by friction in the piston<br>and external forces) |

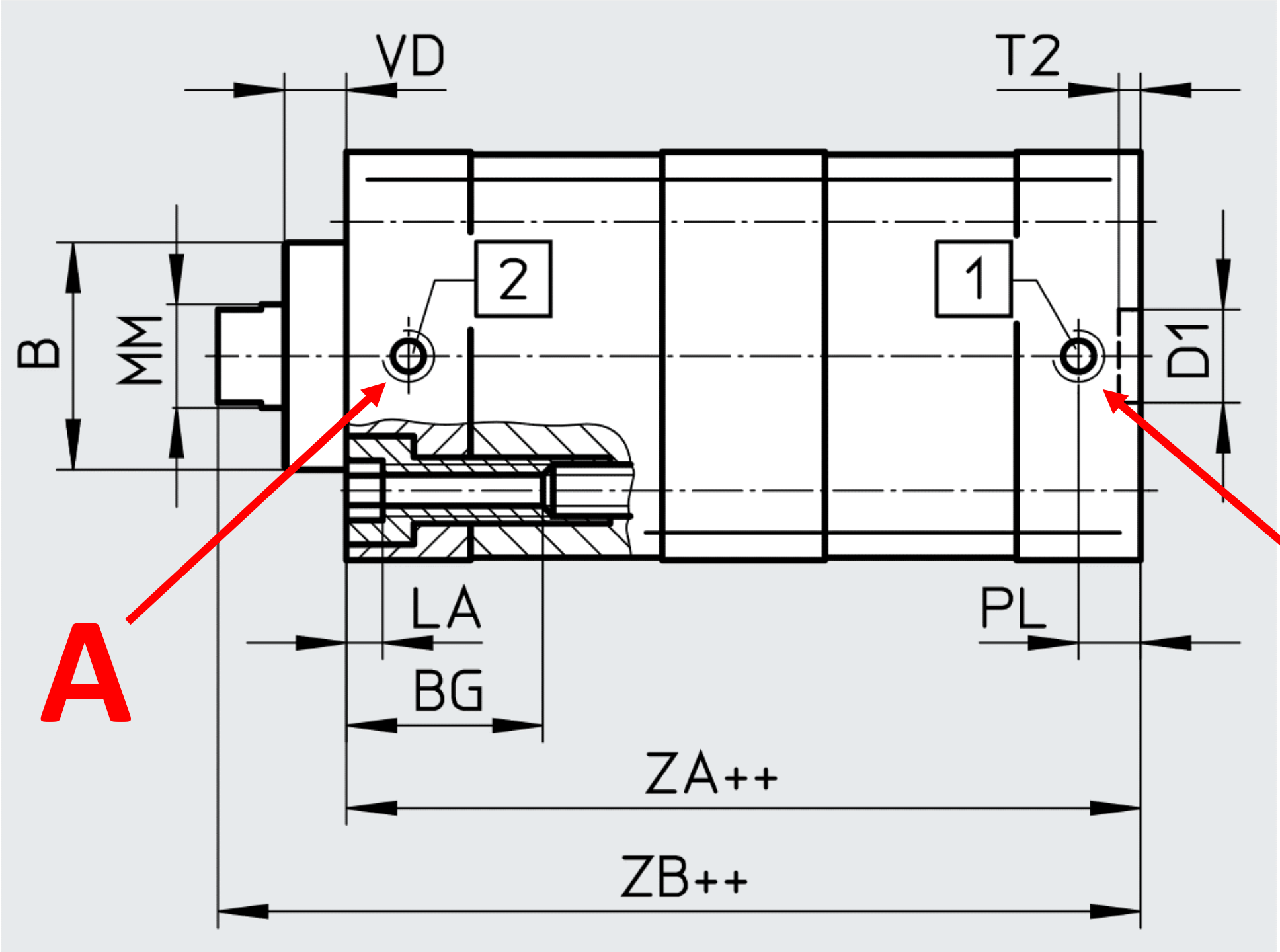
## Secondary Pulling Piston: Extended

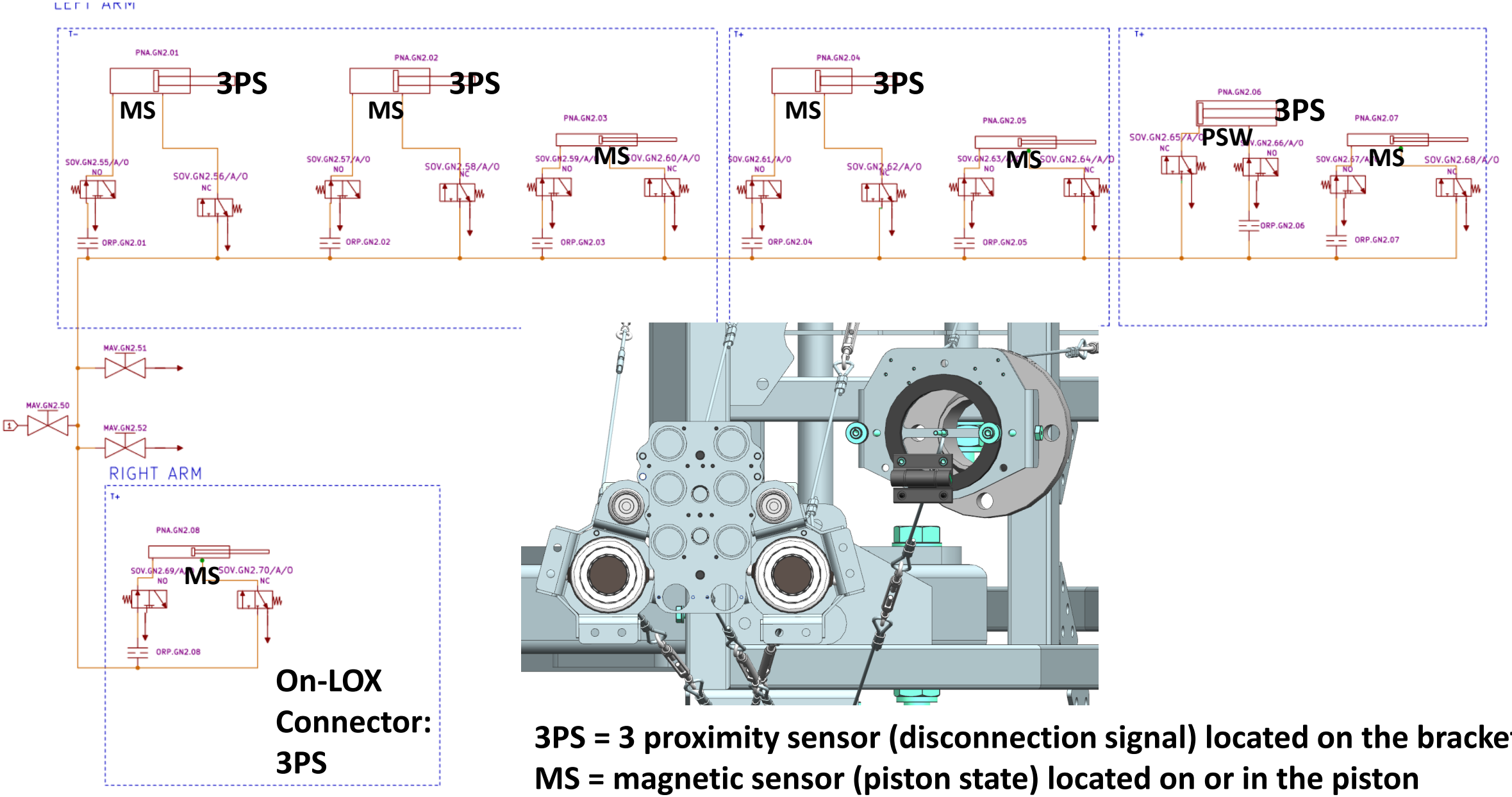



## Secondary Pulling Piston: Retracted




| In case of losing | Piston behavior |
|---|---|
| Electrical power | Extended |
| Pneumatics | Undefined<br>(influenced by friction in the piston and external forces) |


VD
T2
B
MM
2
1
D1
A
B
LA
PL
BG
ZA++
ZB++



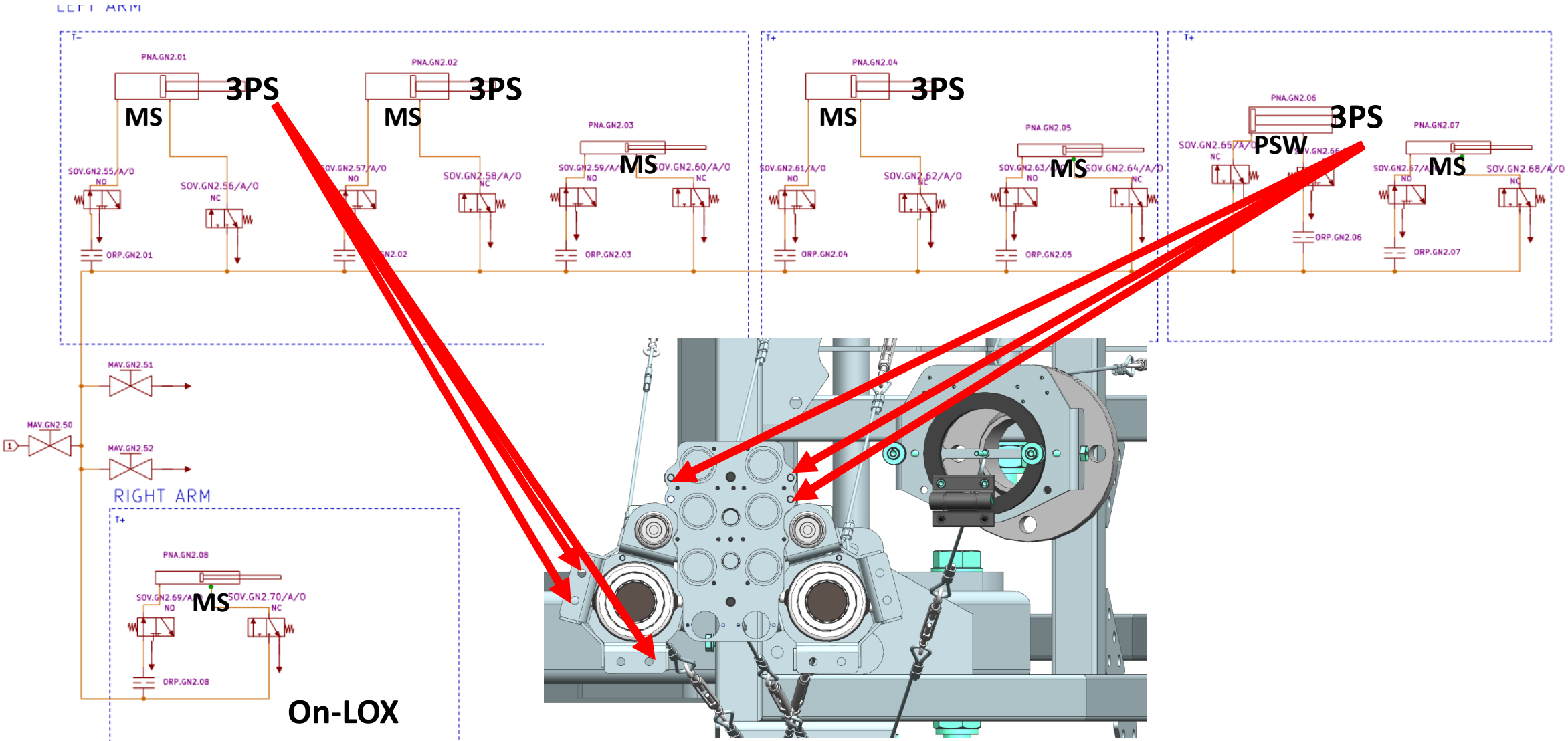



On-LOX Connector: 3PS

3PS = 3 proximity sensor (disconnection signal) located on the bracket

MS = magnetic sensor (piston state) located on or in the piston

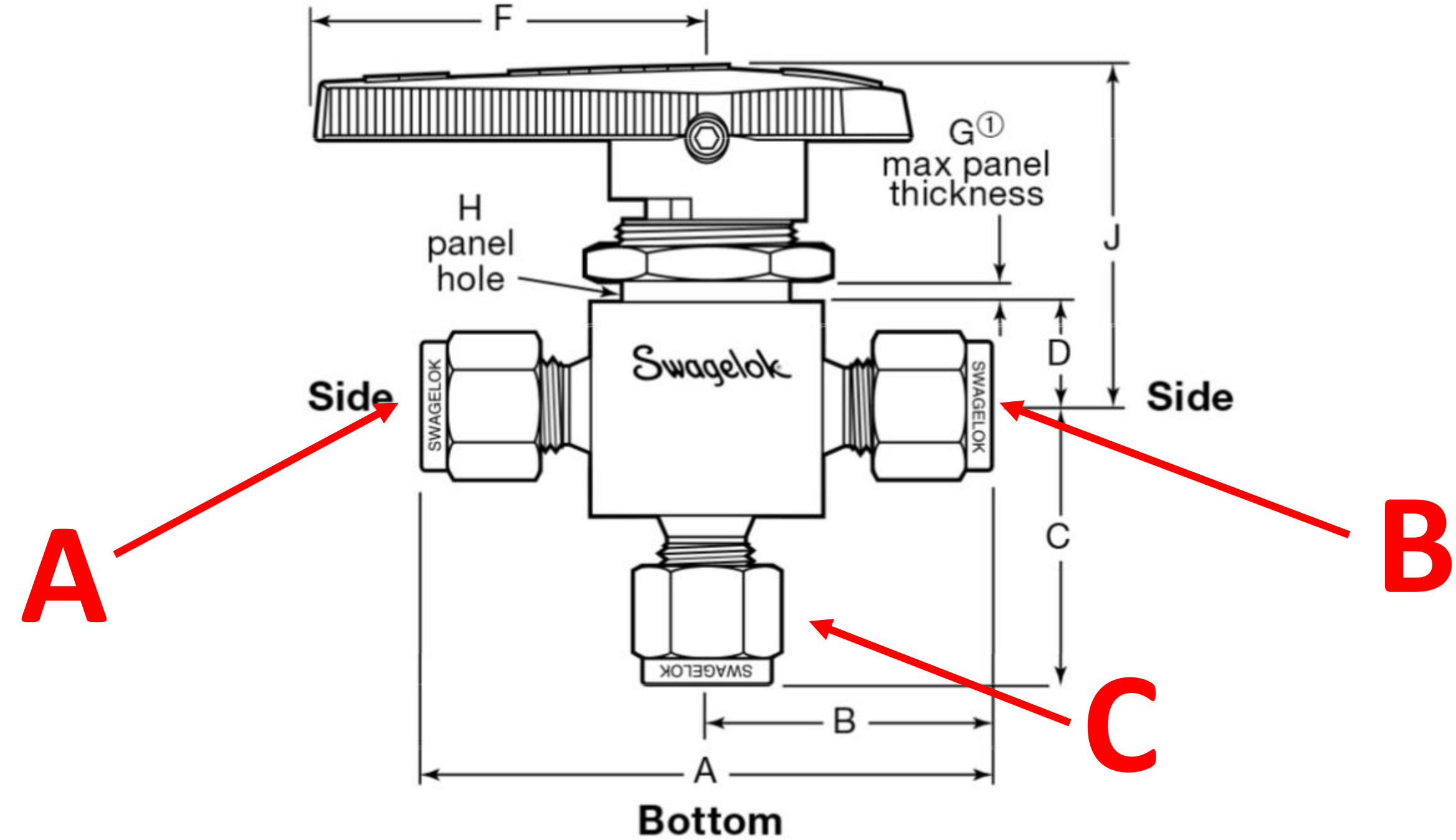
PSW = proximity switch (piston state) located on or in the piston

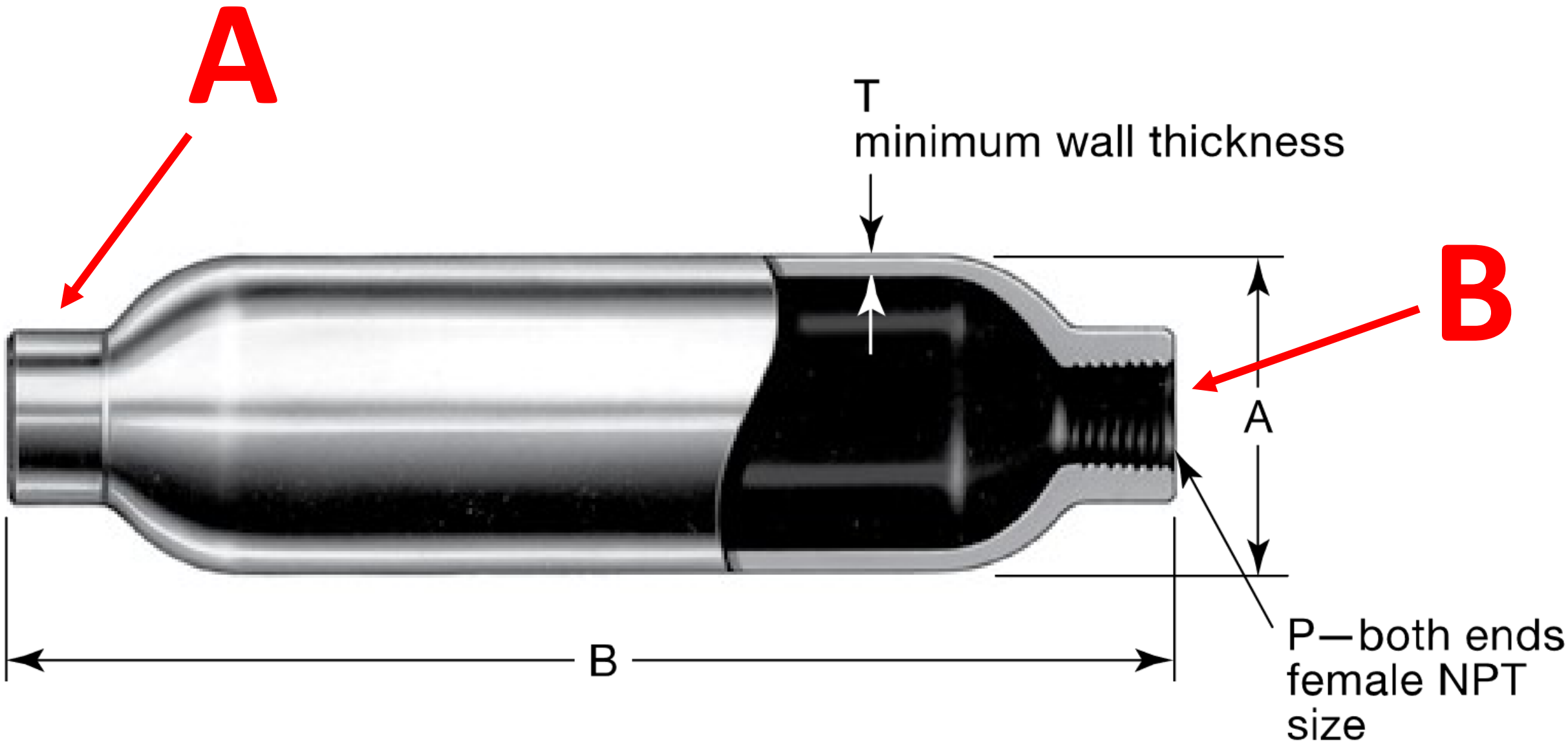



3PS = 3 proximity sensor (disconnection signal) located on the bracket

MS = magnetic sensor (piston state) located on or in the piston

PSW = proximity switch (piston state) located on or in the piston


F
G①
max panel
thickness
H
panel
hole
J
D
Side
Side
Swagelok
SWAGELOK
SWAGELOK
SWAGELOK
C
B
A
Bottom
A
B
C


A
T
minimum wall thickness
B
A
B
P—both ends
female NPT
size


JOYNER
MD 510 503 S 24DC RFA
coax
www.co-ax.com
VXR 08 DR NC
561350
DN 8
SN23-019877
JIC 08
Pst 4-8 bar
0-100 bar
RF017423
22-NC-8AN-8AN
A
B


SS-45XS8
1500 PSIG @ 100F
103 BAR @ 37C
150F @ 1500 PSIG
65C @ 103 BAR
0.406in 10.3mm

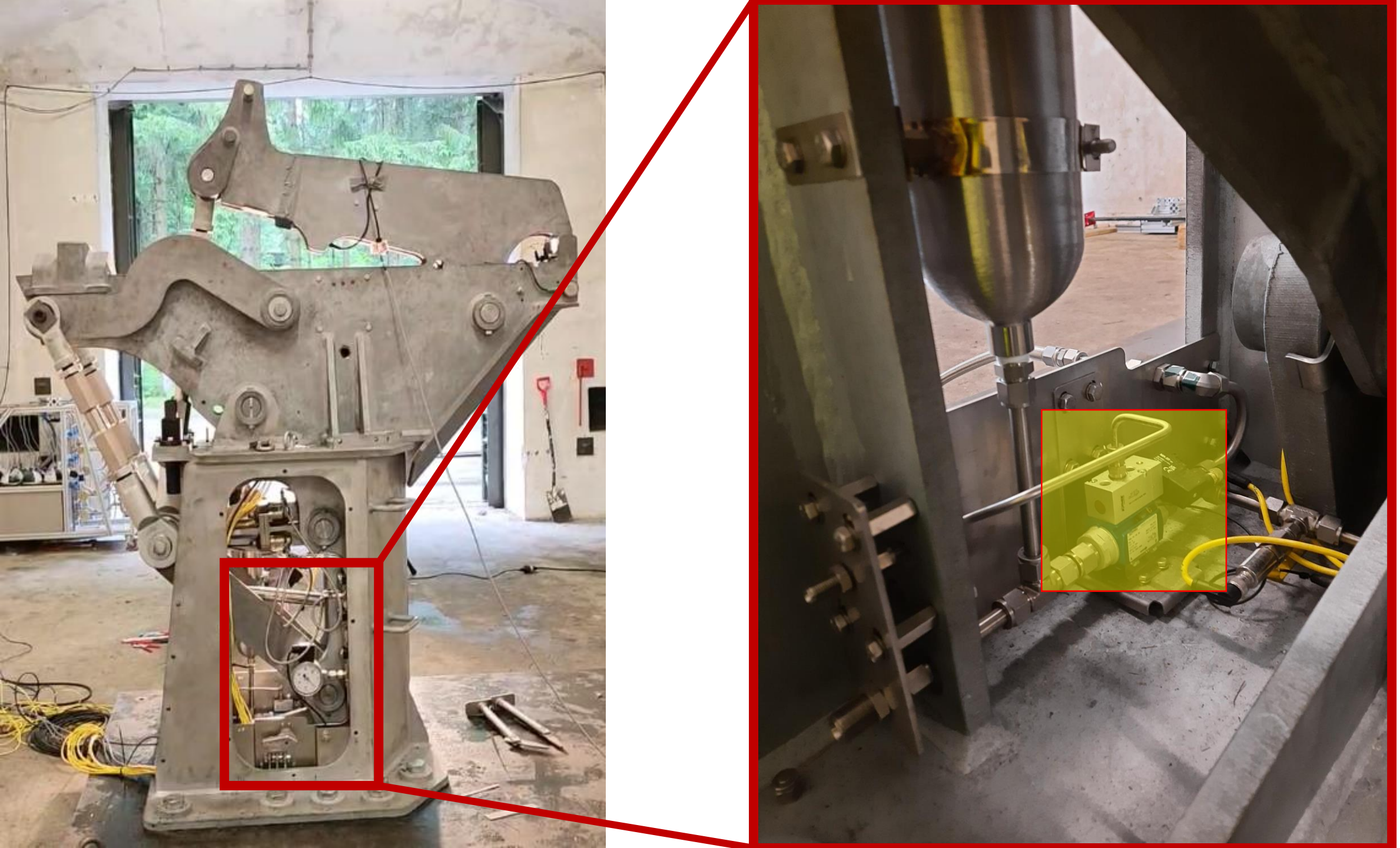

WIKA
Druckmessumformer
Pressure Transmitter
PGT23.100
0 ... 100 bar
DC 12 ... 30V
Signal: 4 ... 20mA
12765831
PS:
11/2023

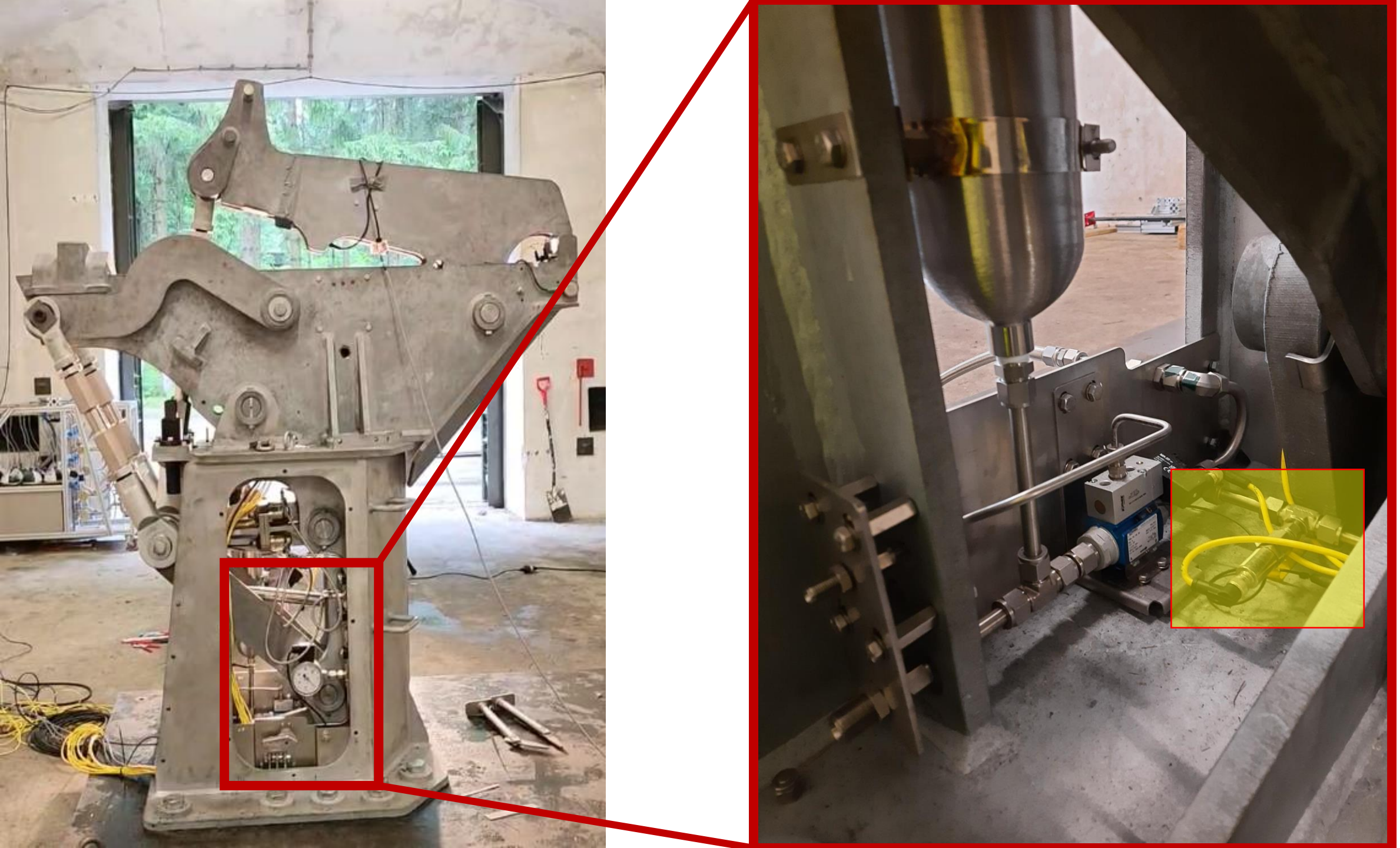
DAEFU

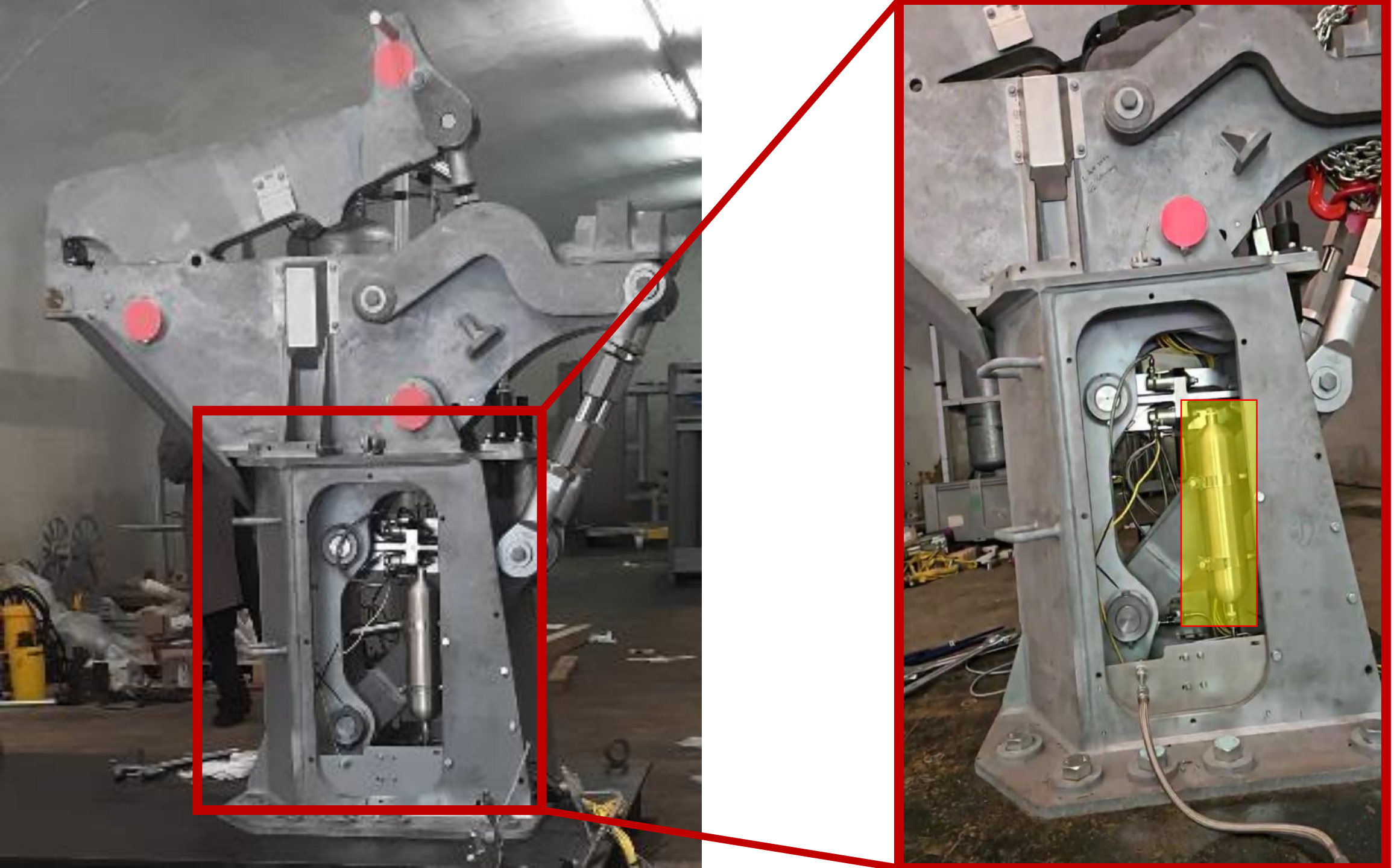
DAEFU

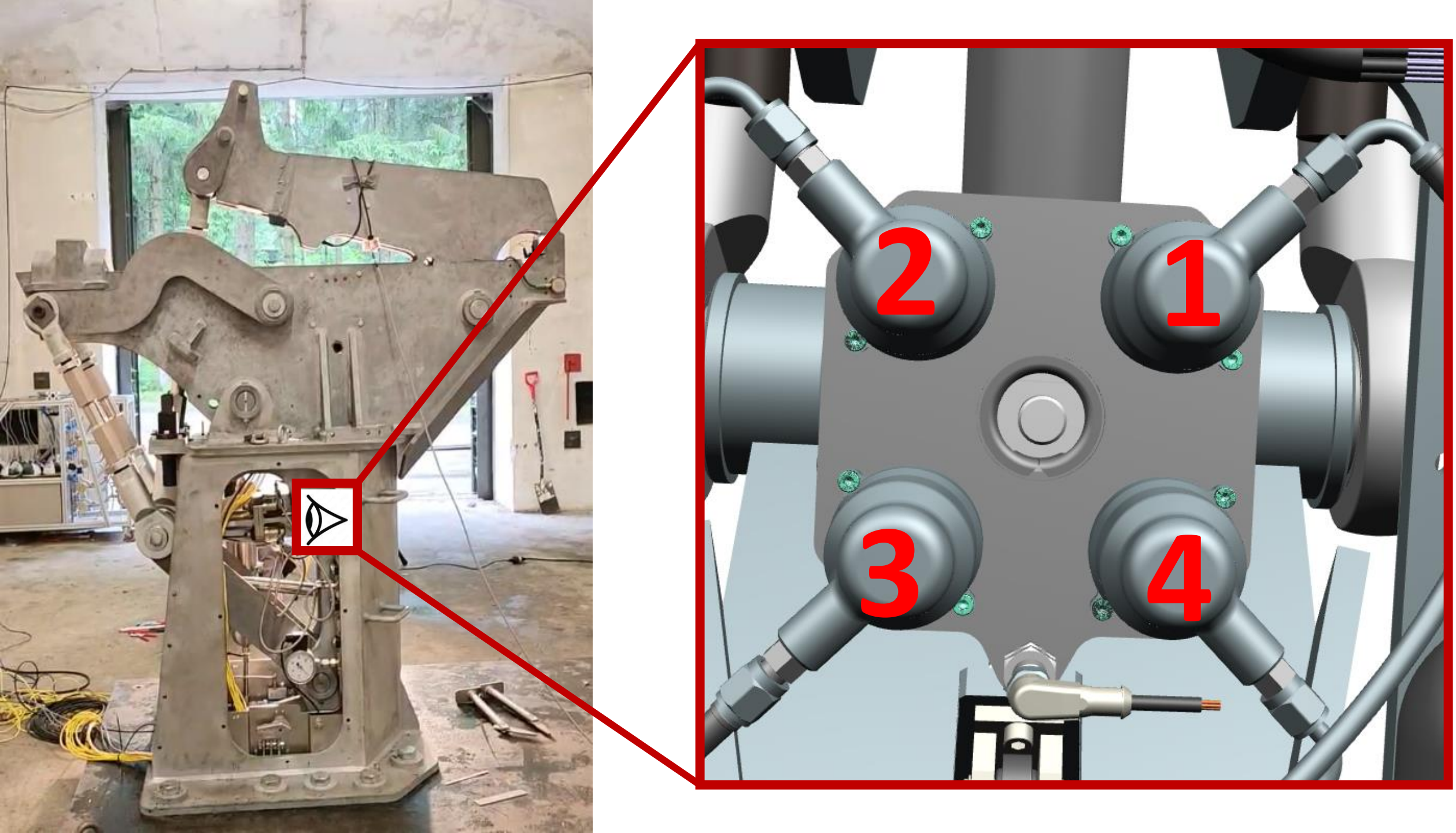

DEFO


DEFO
DEFO
CMAU 146145 0





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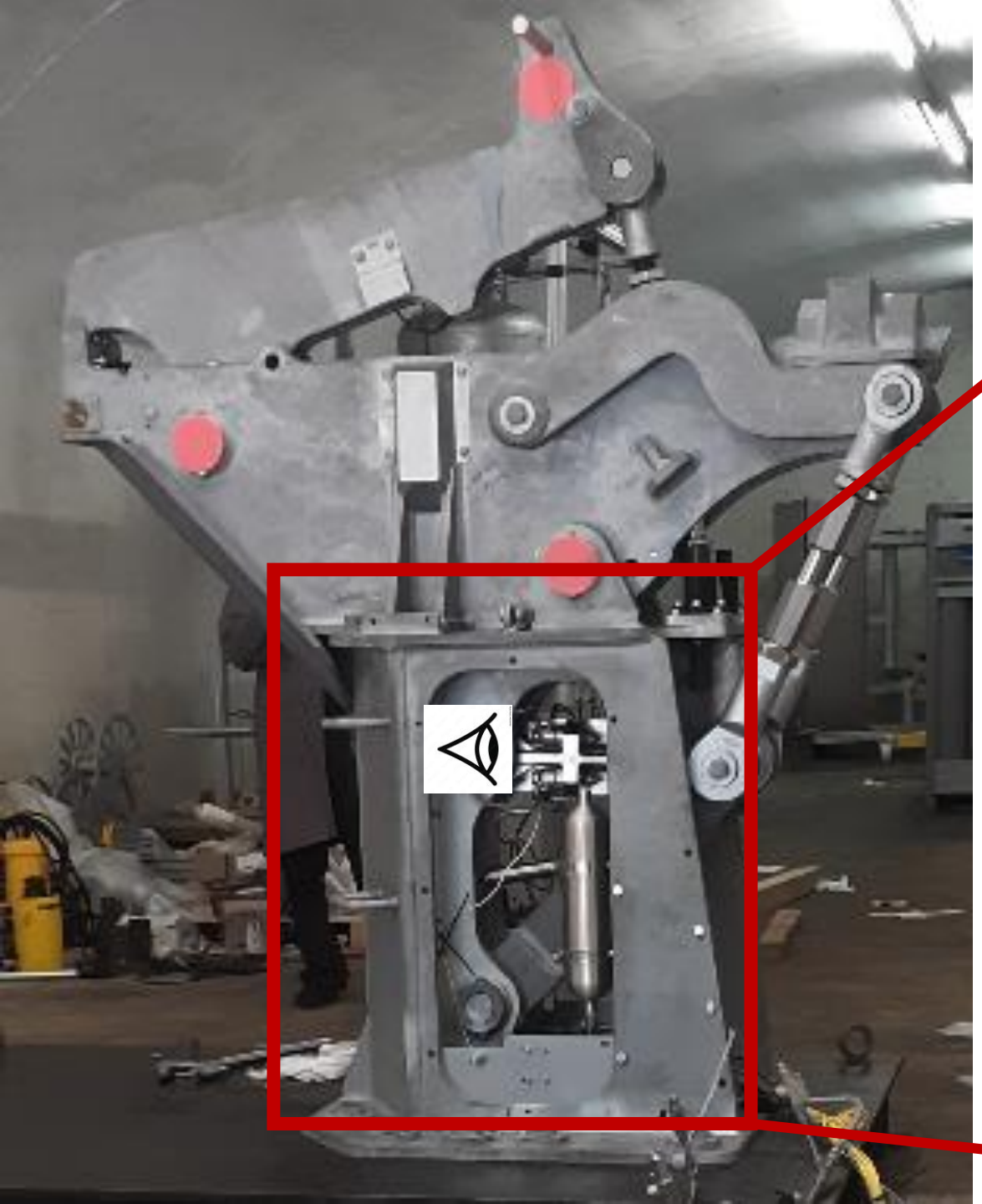



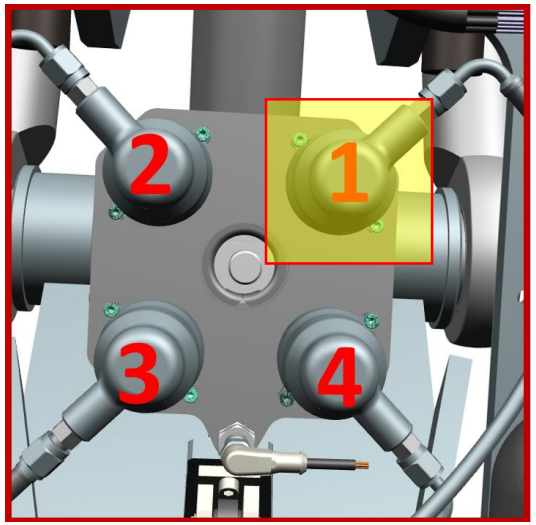
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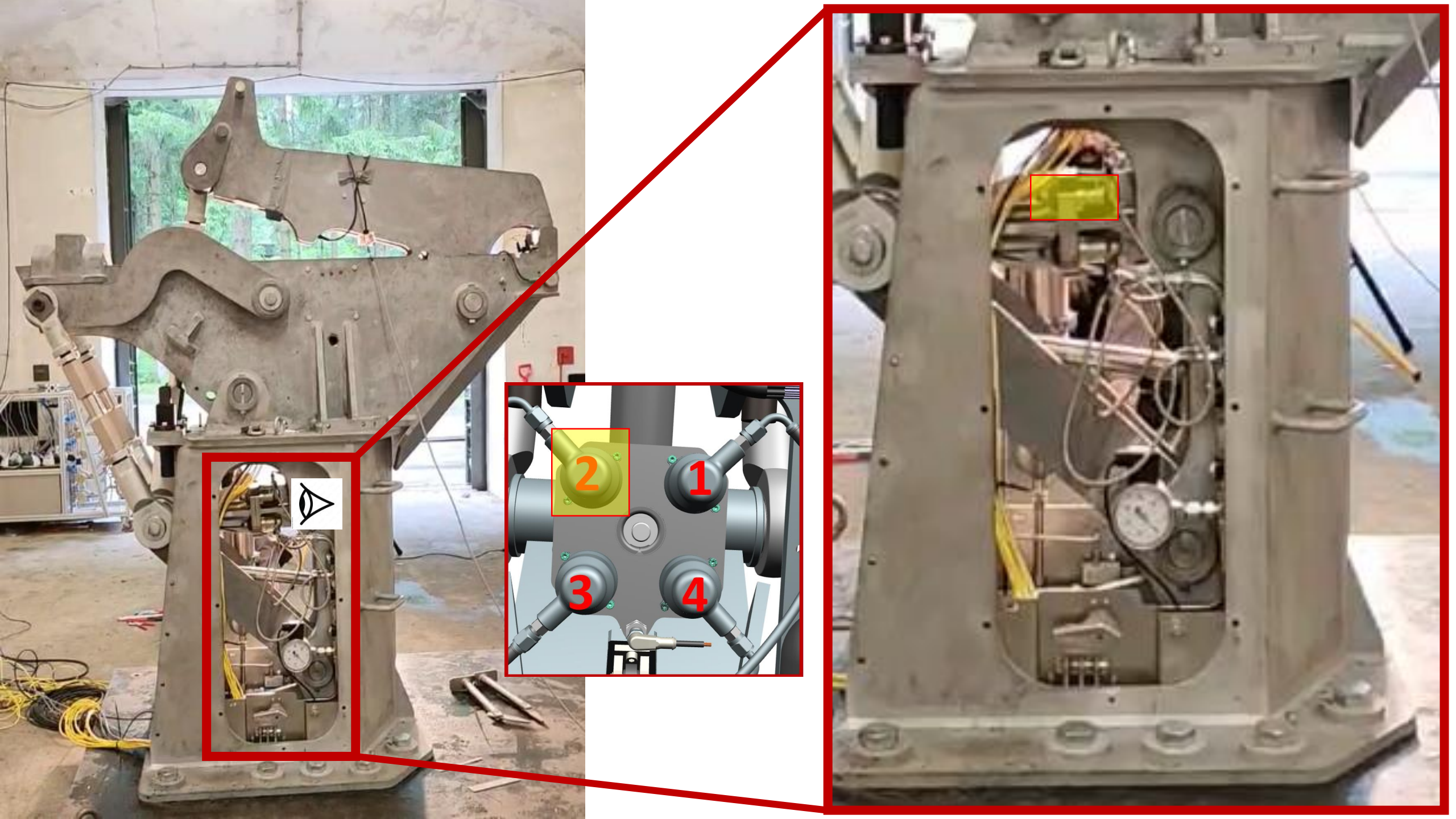
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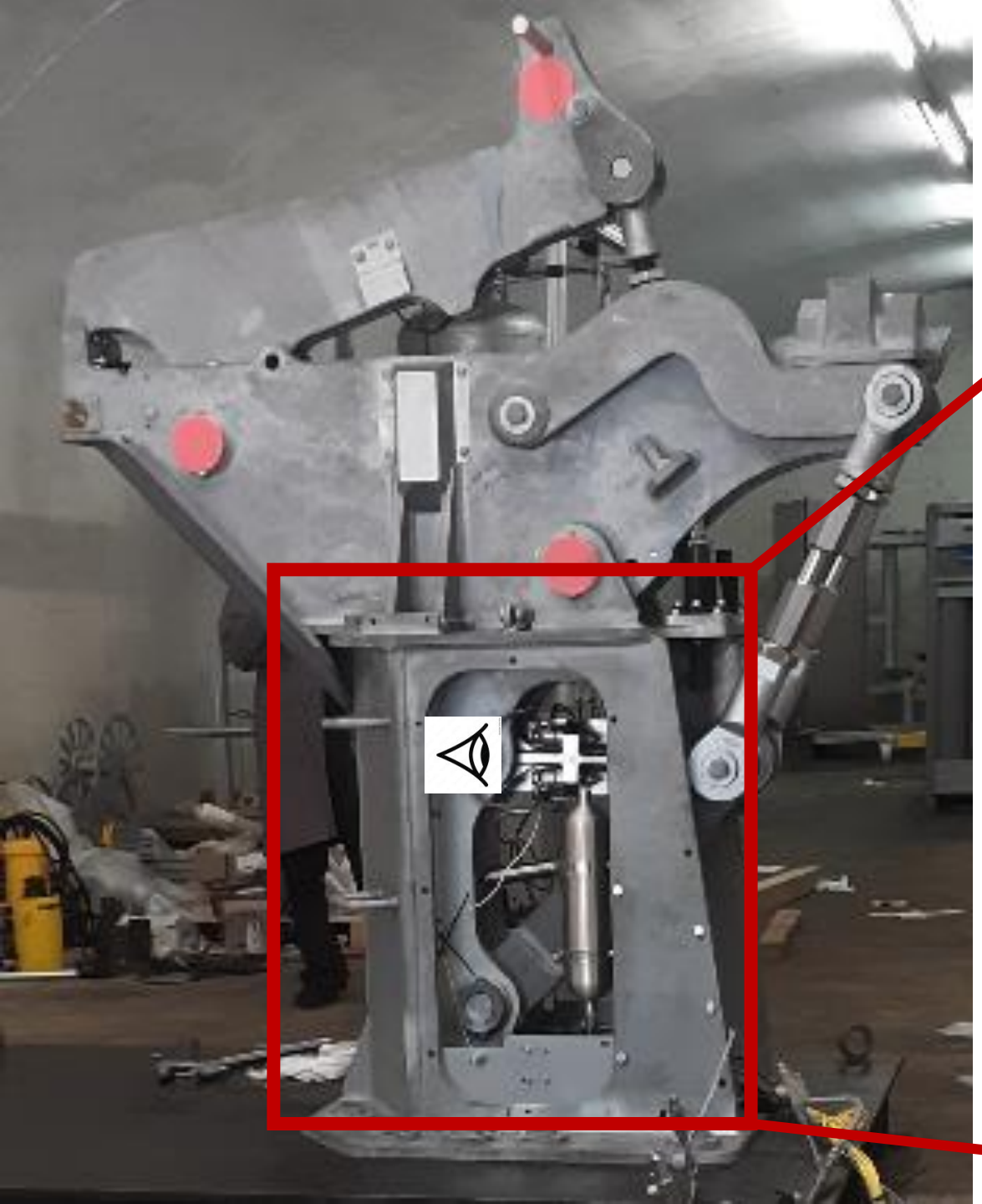



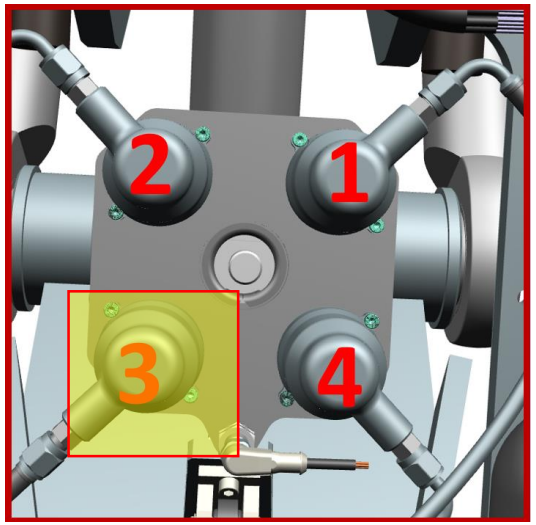
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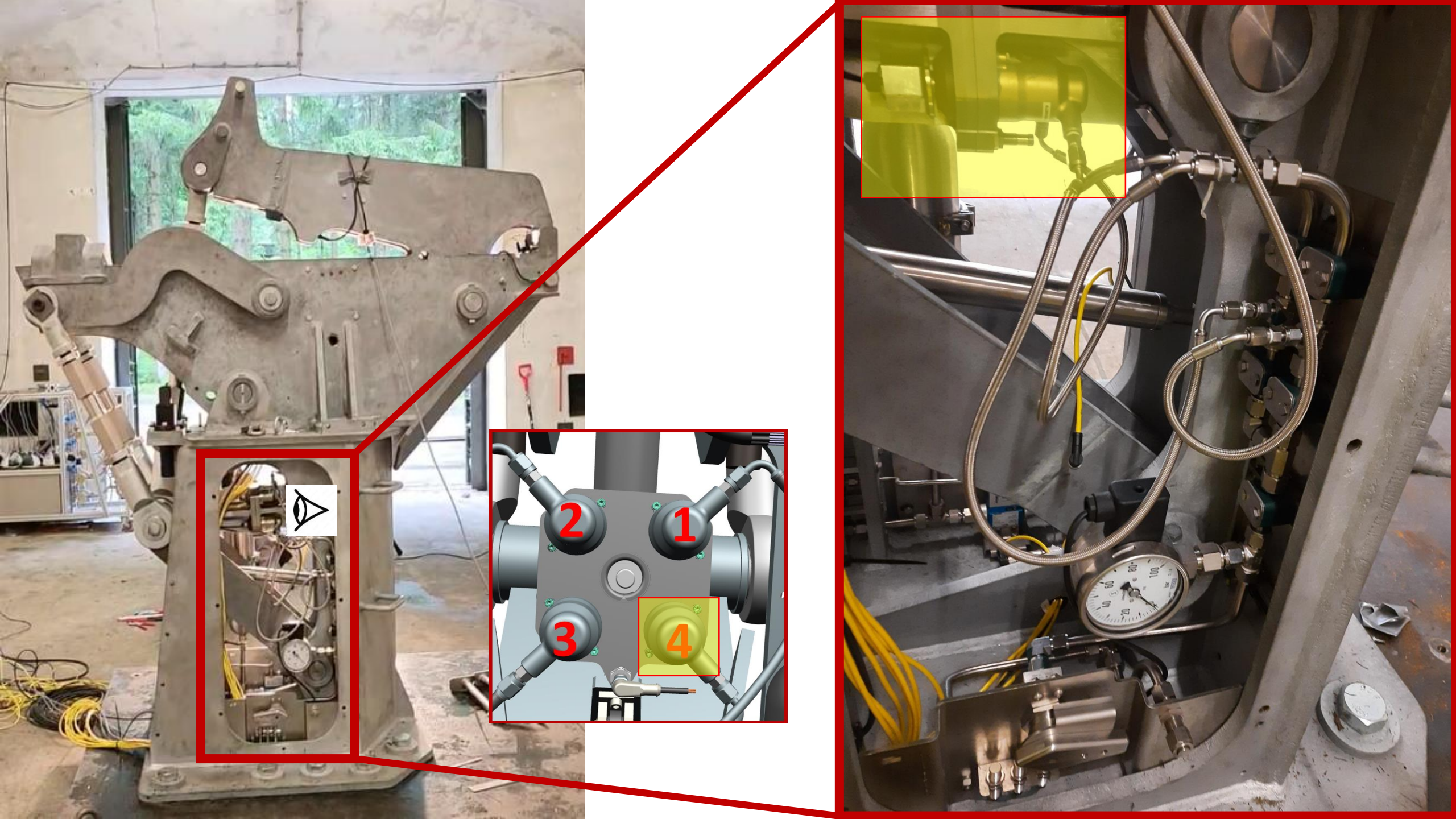
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