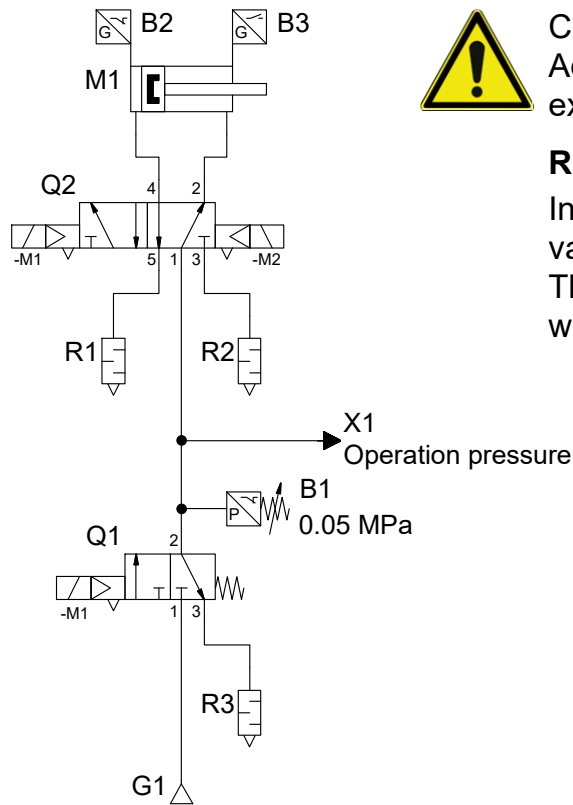




Circuit only suitable for drives without external forces.
Additional measures are required for drives with
external forces or vertical axes.

Remark

In order for the pneumatic drive M1 to reach an end position,
valve Q1 should be switched off after valve Q2.
The time delay should be the positioning time of the drive
with safety factor.



Parts list

Pos....	Identifi...	Description
1	B1	Pressure switch
2	B2	Limit switch
3	B3	Limit switch
4	G1	Operation pressure
5	M1	Double-acting drive
6	Q1	3/2-way valve
7	Q2	5/2-way valve
8	R1	Silencer
9	R2	Silencer
10	R3	Silencer

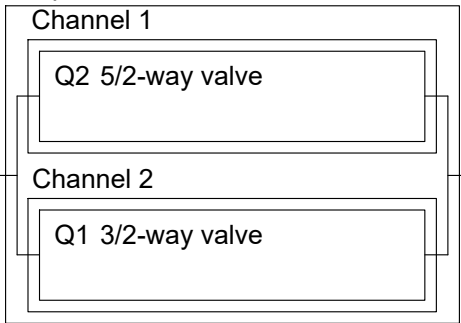
Safety subfunction

PUS - Prevention unexpected start-up (operation pressure) up to category 3, up to PL e can be reached
PUS is only possible in the end position of the drive.

Block diagram

PUS - Prevention unexpected start-up (operation pressure)

Output



Q2, B2, B3
5/2-way valve
Diagnostic coverage DC=90%
Indirect monitoring
With positioning time monitoring by limit switches
(estimate according ISO 13849-1, table E.1)

Q1, B1
3/2-way valve
Diagnostic coverage DC=90%
Indirect monitoring
With switching time monitoring by pressure switch
(estimate according ISO 13849-1, table E.1)

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