

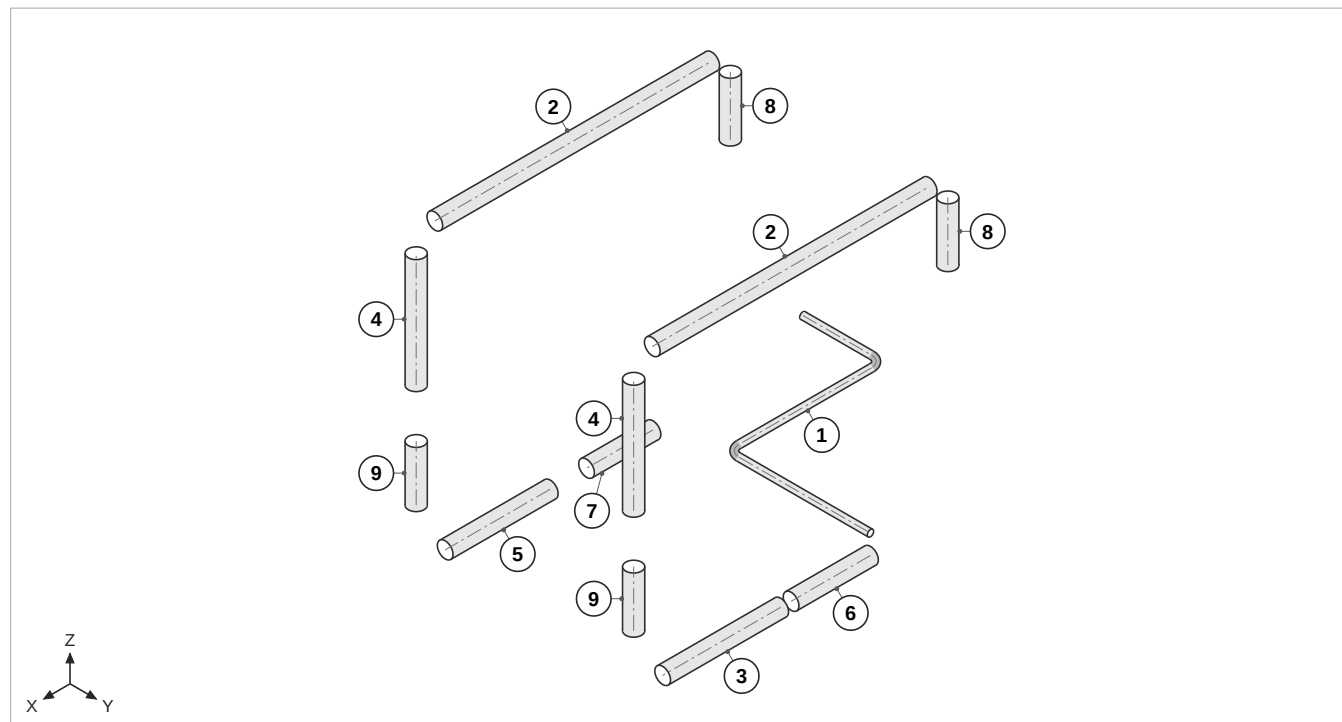
TUBE CUTTING LIST

Dual-circuit process skid 2026-10-11

Total: 13 pcs Cut length: 7232.4 mm Mass: 27.37 kg

Page 1 / 3

Overview - routed tubes with item numbers (fittings and supports not shown)



CUT LIST

ITEM	QTY	TUBE	MATERIAL	CUT LENGTH (mm)	BENDS	MASS EACH (kg)	NAME / PART ID
1	1	21.3 x 2.3 Pipe EN 10220 series 1	Steel or stainless (grade per order)	1521.4	2	1.64	Pipe 21.3x2.3-1 (1)
2	2	60.3 x 3.2 Pipe EN 10220 series 1	Steel or stainless (grade per order)	1146.0	0	5.16	Pipe 60.3x3.2-3 (2), Pipe 60.3x3.2-3
3	1	60.3 x 3.2 Pipe EN 10220 series 1	Steel or stainless (grade per order)	488.5	0	2.20	Pipe 60.3x3.2-2 (1)
4	2	60.3 x 3.2 Pipe EN 10220 series 1	Steel or stainless (grade per order)	473.0	0	2.13	Pipe 60.3x3.2-2, Pipe 60.3x3.2-2 (2)
5	1	60.3 x 3.2 Pipe EN 10220 series 1	Steel or stainless (grade per order)	435.0	0	1.96	Pipe 60.3x3.2-2 (4)
6	1	60.3 x 3.2 Pipe EN 10220 series 1	Steel or stainless (grade per order)	328.5	0	1.48	Pipe 60.3x3.2-1
7	1	60.3 x 3.2 Pipe EN 10220 series 1	Steel or stainless (grade per order)	275.0	0	1.24	Pipe 60.3x3.2-1 (3)
8	2	60.3 x 3.2 Pipe EN 10220 series 1	Steel or stainless (grade per order)	243.0	0	1.09	Pipe 60.3x3.2-4 (2), Pipe 60.3x3.2-4
9	2	60.3 x 3.2 Pipe EN 10220 series 1	Steel or stainless (grade per order)	230.0	0	1.04	Pipe 60.3x3.2-1 (4), Pipe 60.3x3.2-1 (1)

TOTALS BY STOCK

TUBE	MATERIAL	PCS	CUT LENGTH (mm)	MASS (kg)
21.3 x 2.3 Pipe EN 10220 series 1	Steel or stainless (grade per order)	1	1521.4	1.64
60.3 x 3.2 Pipe EN 10220 series 1	Steel or stainless (grade per order)	12	5711.0	25.73

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Page 2 / 3

PURCHASED FITTINGS

ITEM	QTY	FITTING	SIZE	STANDARD / DETAILS
F1	1	Gate valve (flanged)	DN50	EN 1092-1 PN16; EN 558 series 14; Valve ends EN 1092-2 PN16 (AVK cast valve); Centreline to top 329 mm; Below centreline 83 mm; Overall height 412 mm; Handwheel OD 180 mm; Face-to-face 150 mm; Flange OD 165 mm; Flange thickness 22 mm; PCD 125 mm; Bolts 4; Hole 19 mm
F2	24	Flange (slip-on)	DN50	EN 1092-1 PN16; Flange OD 165 mm; Flange thickness 18 mm; PCD 125 mm; Bolts 4; Hole 18 mm; Hub OD 84 mm; Hub height 28 mm; Bore 60.9 mm
F3	2	Swing check valve (flanged)	DN50	EN 1092-1 PN16; EN 558 series 48; Valve ends EN 1092-2 PN16 (AVK cast valve); Centreline to top 120 mm; Below centreline 82 mm; Overall height 202 mm; Hinge shaft width 190 mm; Face-to-face 200 mm; Flange OD 165 mm; Flange thickness 22 mm; PCD 125 mm; Bolts 4; Hole 19 mm
F4	4	Elbow 90° LR	OD 60.3 wall 3.2	CLR 76 mm; C-to-face 76 mm
F5	1	Butterfly valve (wafer)	DN50	EN 1092-1 PN16; EN 558 series 20; Centreline to top 238 mm; Below centreline 70 mm; Lever reach 170 mm; Mounting flange OD 65 mm; Face-to-face 43 mm; Flange OD 165 mm; Flange thickness 18 mm; PCD 125 mm; Bolts 4; Hole 18 mm
F6	4	Flange (slip-on)	DN15	EN 1092-1 PN16; Flange OD 95 mm; Flange thickness 14 mm; PCD 65 mm; Bolts 4; Hole 14 mm; Hub OD 35 mm; Hub height 22 mm; Bore 21.9 mm

SUPPORTS

ITEM	QTY	SUPPORT	PIPE OD (mm)	MATERIAL	DETAILS
S1	2	Split clamp	60.3	rubber, steel	Preset 3403064; Mount rod, H 112 mm; Axial width 23 mm, band 2 mm; Liner 2 mm; Rod dia 10 mm; 12 parts
S2	2	U-bolt support	60.3	steel	Fabricated; Mount foot, H 100 mm; U-bolt dia 10 mm, H 120.3 mm; Foot 80 x 60 mm; 9 parts
S3	4	Pipe shoe	60.3	ptfe, steel	Fabricated; Mount none, H 105.15 mm; guided; base 160 x 80 mm; Saddle 120 mm; 6 parts
S4	1	Block clamp	21.3	polypropylene, steel	Preset Group 3 / SP / DP / AS-M6; Mount none, H 21 mm; Block 50 x 36 mm, axial 30 mm; Bolt centres 33 mm; 6 parts

WELD SUMMARY

TYPE	SIZE	QTY	LENGTH (mm)	DIA-INCH
Slip-on flange (2 fillets)	60.3x3.2	16	6062.0	37.98
Butt weld	60.3x3.2	8	1515.5	18.99
Slip-on flange (2 fillets)	DN50	8	3031.0	16.00
Slip-on flange (2 fillets)	21.3x2.3	2	267.7	1.68
Slip-on flange (2 fillets)	DN15	2	267.7	1.00

NOTES

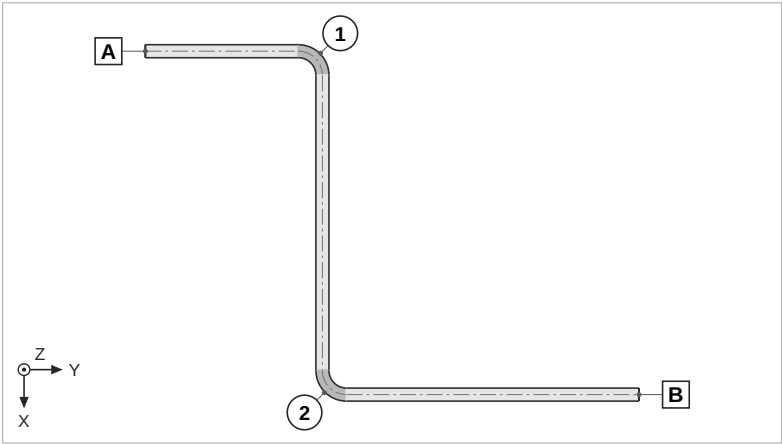
1. Cut length = developed centreline length; no grip or trim allowance added. Lengths in mm.
2. Material: bender setup or model material, else the material of the tube standard.
3. Mass: setup density; tubes without a bender setup use the density of their tube material (steel 7850 kg/m³ when not known).

ITEM DETAILS

#121.3 x 2.3Pipe EN 10220 series 1Steel or stainless (grade per order)

x1

Cut length 1521.4 mmBends 2CLR 45 mmSetup not assigned



BEND	L (mm)	R (°)	A (°)
1	285.0	0.0	90.0
2	550.0	180.0	90.0
End	545.0		

R: CCW positive, zero at first bend. L/R/A conventions and marks: see the Bend Data PDF.