

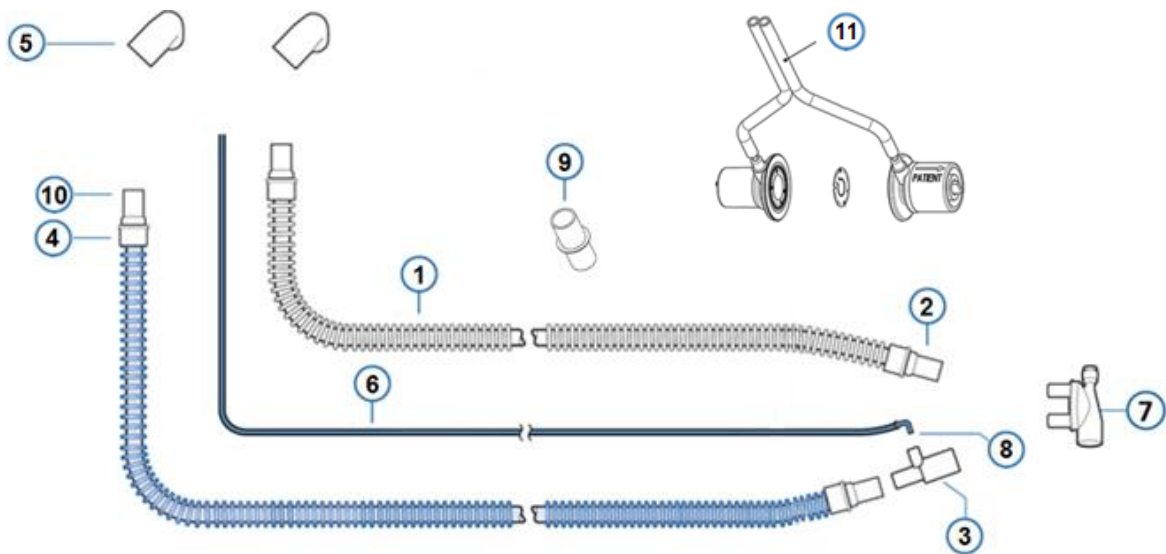
Technical specifications

Breathing circuit set, dual limb, non-heated for HAMILTON-C1/T1/MR1

PN 260180	150 cm (w/o expiratory valve)
PN 260170	150 cm
PN 260182	300 cm (w/o expiratory valve)
PN 260169	300 cm
PN 260241	150 cm (w/o expiratory valve, flow sensor, pressure line)
PN 260244	300 cm (w/o expiratory valve, flow sensor, pressure line)



Circuit overview



	Requirements	Diameter (ID, OD [mm])	Material
①	Breathing circuit, smooth bore	12 ID	Polyolefine
②	Connection to Y-piece	10 ID	PP
③	T-piece	10 ID to 10 OD with luer adaption, according to EN 20594-1	PC
④	Connection to ventilator	10 ID	PP

5	Elbow adapter	22 ID to 22 OD / 15 ID	PC
6	Pressure line	3,05 ID, blue color for tube	Non-P PVC
7	Y-piece	2 x 10 OD to 15 ID	PP
8	Right angled piece	90°, tapered	PC, PP
9	Connection piece	Connect 150 cm circuits to 300 cm circuit; 10 OD / 10 OD	PP
10	Connector, straight	10 OD to 15 ID	PC
11	Flow sensor, neonatal	Patient connector: 15 ID Ventilator connector: 15 OD	Housing: PMMA Flap: Polyester Tubing: PVC

Compliance of circuits at various pressures [ml/cmH₂O]

PN which includes the circuit	Circuit length	Total circuit length (insp. and exp.)	60 cmH ₂ O	100 cmH ₂ O
260180 260170 260241	150 cm	300 cm	0.30 ml/cmH₂O	0.30 ml/cmH₂O
260182 260169 260244	300 cm	600 cm	0.60 ml/cmH₂O	0.60 ml/cmH₂O

Resistance of circuits (inspiratory and expiratory) at various flow rates [cmH₂O/l/min]

PN which includes the circuit	Circuit length	2.5 l/min		15 l/min		30 l/min	
		insp.	exp.	insp.	exp.	insp.	exp.
260180 260170 260241	150 cm	0.02	0.02	0.04	0.04	0.07	0.07
260182 260169 260244	300 cm	0.03	0.03	0.06	0.06	0.10	0.10

Operating conditions

-15°C to 40°C (5°F to 104°F)

5% to 95% relative humidity, noncondensing

Storage conditions

-20°C to 60°C (-4°F to 140°F)

5% to 95% relative humidity, noncondensing

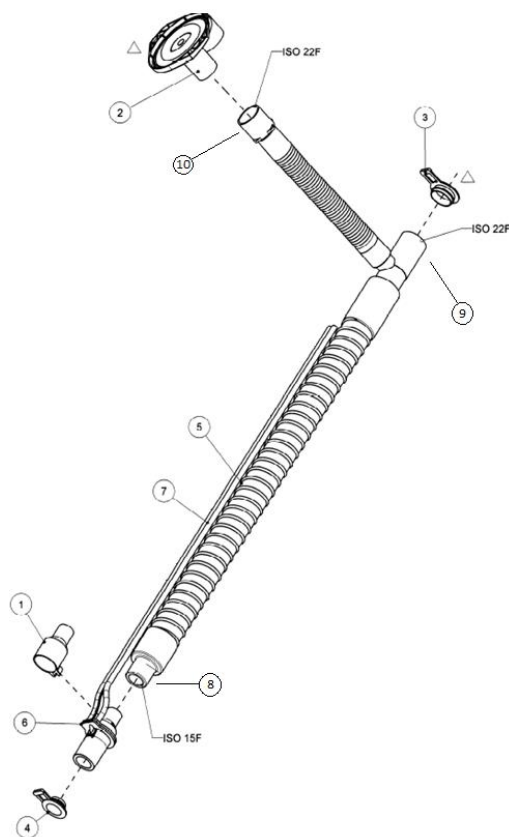
Technical specifications

Breathing circuit set, coaxial, non-heated
with expandable expiratory limb
for Hamilton Medical ventilators



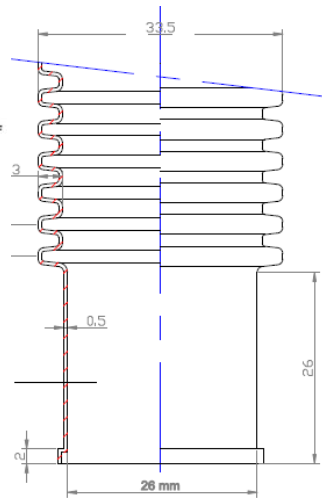
PN 260206	180 cm (w/o expiratory valve, flow sensor)
PN 260207	180 cm (w/o expiratory valve)
PN 160184	180 cm
PN 260239	240 cm (w/o expiratory valve, flow sensor)
PN 260240	240 cm (w/o expiratory valve)

Circuit overview

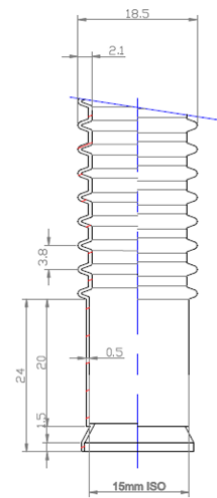


Diameter

Expiratory circuit
(white: outer circuit)



Inspiratory circuit
(blue: inner circuit)



	Requirements	Diameter (ID, OD [mm])	Material
①	Flow sensor calibration adapter	22 ID to 15 OD	PP
②	Expiratory valve set	---	PP, Silicone, Metal
③	Blue plug	23.8 OD	LLD-PE
④	Blue plug	17.8 OD	LLD-PE
⑤	Circuit, coaxial with connection piece	Expiratory circuit: 26 ID Inspiratory circuit: 15 ID	SBC,EVA, PP,PE
⑥	Flow sensor	Patient connector: ISO 15 ID/22 OD Ventilator connector: ISO 15 OD	Housing: PSU, blue, transparent Flap: Polyester
⑦	Flow sensor tubing		PVC
⑧	Connection to flow sensor	15 ID	SBC,EVA, PP,PE
⑨	Connection to ventilator	22 ID	SBC,EVA, PP,PE
⑩	Expiratory connection circuit	22 ID	SBC,EVA, PP,PE

Compliance of circuits at various pressures [ml/cmH₂O]

PN which includes the circuit	Circuit length	60 cmH ₂ O	100 cmH ₂ O
260206 260207	180 cm	1.72 ml/cmH₂O	1.77 ml/cmH₂O
260239 260240	240 cm	2.32 ml/cmH₂O	2.34 ml/cmH₂O

Resistance of circuits (inspiratory and expiratory) at various flow rates [cmH₂O/l/min]

PN which includes the circuit	Circuit length	15 l/min		30 l/min		45 l/min		60 l/min	
		insp.	exp.	insp.	exp.	insp.	exp.	insp.	exp.
260206 260207	180 cm	0.014	0.022	0.023	0.037	0.033	0.052	0.043	0.066
260239 260240	240 cm	0.017	0.025	0.030	0.043	0.043	0.061	0.057	0.076

Operating conditions

-15°C to 50°C

5% to 95% relative humidity, noncondensing

Storage conditions

-20°C to 60°C

5% to 95% relative humidity, noncondensing

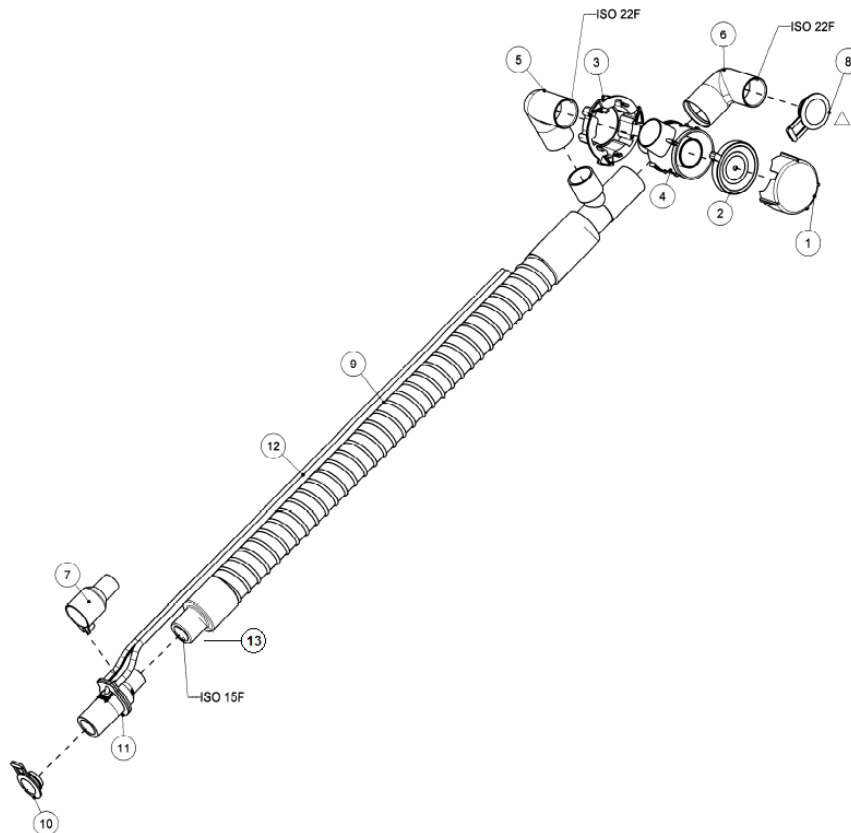
Technical specifications

Breathing circuit set, coaxial, non-heated
with elbow adapters
for HAMILTON-C1/T1/MR1



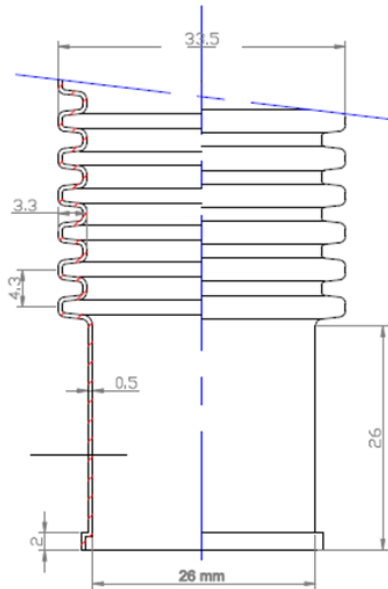
PN 260087	180 cm (w/o expiratory valve)
PN 260128	180 cm
PN 260094	240 cm (w/o expiratory valve)
PN 260127	240 cm
PN 260145	300 cm (w/o expiratory valve)
PN 260167	300 cm
PN 260144	480 cm (w/o expiratory valve)
PN 260168	480 cm

Circuit overview

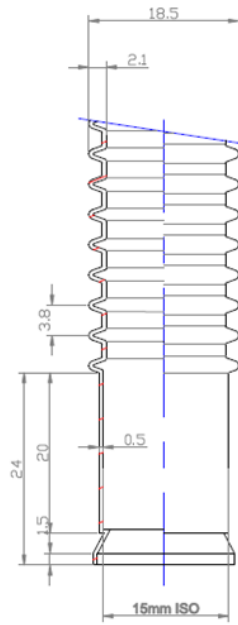


Diameter

Expiratory circuit (white: outer circuit)



Inspiratory circuit (blue: inner circuit)



	Requirements	Diameter (ID,OD [mm])	Material
①	Protection cover expiratory valve	---	PP
②	Membrane expiratory valve	---	Metal, Silicone
③	Closing ring expiratory valve	---	Macrolon
④	Housing expiratory valve	---	Lexan
⑤	Elbow adapters	22 ID to 22 ID	PE
⑥	Elbow adapters	22 ID to 22 ID	PE
⑦	Flow sensor calibration adapter	22 ID to 15 OD	PP
⑧	Blue plug	23.8 OD	LLD-PE
⑨	Circuit, coaxial with connection piece	Expiratory circuit: 26 ID Inspiratory circuit: 15 ID	SBC,EVA, PP,PE
⑩	Blue plug	17.8 OD	LLD-PE
⑪	Flow sensor	Patient connector: ISO 15 ID / 22 OD Ventilator connector: ISO 15 OD	Housing: PSU, blue, transparent Flap: Polyester
⑫	Flow sensor tubing		PVC
⑬	Connection to flow sensor	15 ID	SBC,EVA, PP,PE

Compliance of circuits at various pressures [ml/cmH2O]

PN which includes the circuit	Circuit length	60 cmH2O	100 cmH2O
260087 260128	180 cm	1.68 ml/cmH2O	1.81 ml/cmH2O
260094 260127	240 cm	2.45 ml/cmH2O	2.45 ml/cmH2O
260145 260167	300 cm	2.75 ml/cmH2O	3.02 ml/cmH2O
260144 260168	480 cm	4.71 ml/cmH2O	4.80 ml/cmH2O

Resistance of circuits (inspiratory and expiratory) at various flow rates [cmH2O/l/min]

PN which includes the circuit	Circuit length	15 l/min		30 l/min		45 l/min		60 l/min	
		insp.	exp.	insp.	exp.	insp.	exp.	insp.	exp.
260087 260128	180 cm	0.015	0.019	0.027	0.036	0.038	0.048	0.047	0.063
260094 260127	240 cm	0.019	0.023	0.032	0.041	0.045	0.055	0.059	0.071
260145 260167	300 cm	0.027	0.030	0.042	0.052	0.059	0.072	0.078	0.094
260144 260168	480 cm	0.032	0.034	0.057	0.059	0.082	0.082	0.109	0.105

Operating conditions

-15°C to 50°C

5% to 95%, relative humidity, noncondensing

Storage conditions

-20°C to 60°C

5% to 95% relative humidity, noncondensing

Rated flow

90 l/min, ≤ 0.2 kPa