



Hygood Novec 1230 FlowCalc HYG3.60
UL: EX6466 FM: 3014140
File Name: piwnica_5.FLC

Consolidated Report

Enclosure Information

Elevation: 0 m (relative to sea level)
Atmospheric Correction Factor: 1

Enclosure Number:	1
Name:	strefa wlasciwa
Enclosure Temperature...	
Minimum:	18,0 C
Maximum:	18,0 C
Maximum Concentration:	5,385 %
Design Concentration...	
Adjusted:	5,384 %
Minimum:	5,300 %
Minimum Agent Required:	22,2 kg
Width:	0,00 m
Length:	0,00 m
Height:	0,00 m

Volume:	28,20 cubic m
Non-permeable:	0,00 cubic m

Total Volume:	28,20 cubic m
Adjusted Agent Required:	22,5 kg
Number of Nozzles:	1



Consolidated Report Agent Information

Agent: Novec / Propellant N2
(Novec is a trademark of 3M)

Adjusted Agent Required: 22,5 kg
Container Name: 32L Cylinder Assembly
Container Part Number: 16375
Number of Main Containers: 1
Number of Reserve Containers: 0
Manifold: No Manifold

Starting Pressure: 24,8 bar
Pipe Take Off Direction: Horizontal
Agent Per Container: 22,5 kg
Fill Density: 0,671 kg / l
Container Empty Weight: 26,1 kg
Weight, All Containers + Agent: 48,6 kg
Floor Area Per Container: 0,05 square m
Floor Loading Per Container: 959 kg /square m

Pipe Network

Part 1 - Pipe

Description	Start	End	Type	Diameter	Pipe Length	Elevation
Main Cyl. X 1	0	1		25 mm	0,83 m	0,83 m
Flex Hose	1	2		25 mm	0,08 m	0,00 m
Flex Hose	2	3		25 mm	0,41 m	0,00 m
Pipe	3	4	40T	20 mm	0,66 m	0,66 m
Pipe	4	5	40T	20 mm	2,85 m	0,00 m
Pipe	5	6	40T	20 mm	0,20 m	0,20 m
Pipe	6	7	40T	20 mm	1,00 m	0,00 m
Pipe/E1-N1	7	8	40T	20 mm	0,20 m	0,20 m

Part 2 - Equivalent Length

Start	End	90	45	Thru	Side Union	Other	Added	Total
0	1	0	0	0	0	0	0,00 m	6,10 m
1	2	0	0	0	0	0 25mmFlexN1	0,00 m	0,08 m



Consolidated Report

Part 2 - Equivalent Length

Start	End	90	45	Thru	Side	Union	Other	Added	Total
2	3	1	0	0	0	0	25mmFlexN2	0,00 m	3,05 m
3	4	0	0	0	0	0		0,00 m	0,67 m
4	5	1	0	0	0	0		0,00 m	3,54 m
5	6	1	0	0	0	0		0,00 m	0,88 m
6	7	1	0	0	0	0		0,00 m	1,68 m
7	8	1	0	0	0	0		0,00 m	0,88 m

Part 3 - Nozzles

Start	End	Flow	Name	Size	Type	Nozzle Area
0	1	22,5 kg				
1	2	22,5 kg				
2	3	22,5 kg				
3	4	22,5 kg				
4	5	22,5 kg				
5	6	22,5 kg				
6	7	22,5 kg				
7	8	22,5 kg	E1-N1	20 mm	16 Port - AL	105,68 square mm

Parts Information

Total Agent Required: 22,5 kg
Container Name: 32L Cylinder Assembly (Part: 16375)
Number Of Containers: 1
Field1

Nozzle	Type	Diameter	Nozzle Area	Part Number
E1-N1	16 Port - AL	20 mm	105,68 square mm	16440

Nozzle	Drill Diameter	Drill Size
E1-N1	2,9000 mm	2.90 mm

Pipe:	Type	Diameter	Length
	40T	20 mm	4,91 m

'Other' Items:

1 - 25 mm Flexible Discharge Hose (Part: 16409)

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Calculation Date/Time: 22 czerwiec 2011, 11:56:46

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Consolidated Report

List of 90 degree elbows:
4 - 20 mm

System Acceptance

System Discharge Time: 8,8 seconds
Percent Agent In Pipe: 17,3%
Percent Agent Before First Tee: 0,0%
Enclosure Number: 1
Enclosure Name: strefa wlasciwa
Minimum Design Concentration: 5,300%
Adjusted Design Concentration: 5,384%
Predicted Concentration: 5,385%
Maximum Expected Agent Concentration: 5,385% (At 18,0 C)

Nozzle	Minimum Agent Required	Adjusted Agent Required	Predicted Agent Delivered	Nozzle Pressure (Average)
E1-N1	22,2 kg	22,5 kg	22,5 kg	12,294 bar

Drawing View: 1

