



HY-FLOW FM-200 HYG3.11
File Name: FM-200 obliczenia ASD.Ink

Consolidated Report

Enclosure Information

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

Enclosure Number:	1
Name:	Strefa wlasciwa
Enclosure Temperature...	
Minimum:	20,0 C
Maximum:	20,0 C
Maximum Concentration:	7,960 %
Design Concentration...	
Adjusted:	7,960 %
Minimum:	7,900 %
Minimum Agent Required:	58,6 kg
Width:	1,00 m
Length:	31,13 m
Height:	3,00 m
<hr/>	
Volume:	93,39 cubic m
Non-permeable:	0,00 cubic m
<hr/>	
Total Volume:	93,39 cubic m
Adjusted Agent Required:	59,0 kg
Number of Nozzles:	1



Consolidated Report Agent Information

Agent: FM-200 / Propellant N2
(FM-200 is a Trademark of Great Lakes Chemical Corp.)

Adjusted Agent Required: 59,0 kg
Container Name: 106L DOT Container Assy
Container Part Number: 9220
Number of Main Containers: 1
Number of Reserve Containers: 0
Manifold: No Manifold

Pipe Take Off Direction: Horizontal
Agent Per Container: 59,0 kg
Fill Density: 0,553 kg / l
Container Empty Weight: 71,8 kg
Weight, All Containers + Agent: 130,8 kg
Floor Area Per Container: 0,13 square m
Floor Loading Per Container: 1014 kg /square m

Pipe Network

Part 1 - Pipe			Pipe			
Description	Start	End	Type	Diameter	Length	Elevation
Main Cyl. X 1	0	1		50 mm	1,02 m	1,02 m
Flex Hose	1	2		50 mm	0,12 m	0,00 m
Flex Hose	2	3		50 mm	0,52 m	0,52 m
Pipe	3	4	UK80G TS	25 mm	1,35 m	1,35 m
Pipe	4	5	UK80G TS	25 mm	3,00 m	0,00 m
Pipe/E1-N1	5	6	UK80G TS	25 mm	0,05 m	-0,05 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	10,67 m
1	2	0	0	0	0	0	50mmFlexN1	0,00 m	0,12 m
2	3	1	0	0	0	0	50mmFlexN2	0,00 m	5,25 m

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Calculation Date/Time: 22 styczeń 2009, 12:14:00

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Part 2 - Equivalent Length

Start	End	90	45	Thru	Side Union	Other	Added	Total
3	4	0	0	0	0	0	0,00 m	1,34 m
4	5	1	0	0	0	0	0,00 m	3,84 m
5	6	1	0	0	0	0	0,00 m	0,91 m

Part 3 - Nozzles

Start	End	Flow	Name	Size	Type	Nozzle Area
0	1	59,0 kg				
1	2	59,0 kg				
2	3	59,0 kg				
3	4	59,0 kg				
4	5	59,0 kg				
5	6	59,0 kg	E1-N1	25 mm	7 Port-AL	343,12 square mm

Parts Information

Total Agent Required: 59,0 kg

Container Name: 106L DOT Container Assy (Part: 9220)

Number Of Containers: 1

Nozzle	Type	Diameter	Nozzle Area	Part Number
E1-N1	7 Port-AL	25 mm	343,12 square mm	3410

Nozzle	Drill Diameter	Drill Size
E1-N1	7,9000 mm	7.9 mm

Pipe:	Type	Diameter	Length
	UK80GTS	25 mm	4,40 m

'Other' Items:

1 - 50 mm Discharge Hose (Part: 6540)

List of 90 degree elbows:

2 - 25 mm

System Acceptance

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Consolidated Report

System Discharge Time: 9,4 seconds
Percent Agent In Pipe: 14,0%
Percent Agent Before First Tee: 0,0%
Enclosure Number: 1
Enclosure Name: Strefa wlasciwa
Minimum Design Concentration: 7,900%
Adjusted Design Concentration: 7,960%
Predicted Concentration: 7,960%
Maximum Expected Agent Concentration: 7,960% (At 20,0 C)

Nozzle	Minimum Agent Required	Adjusted Agent Required	Predicted Agent Delivered	Nozzle Pressure (Average)
E1-N1	58,6 kg	59,0 kg	59,0 kg	12,038 bar

Standard Isometric View

