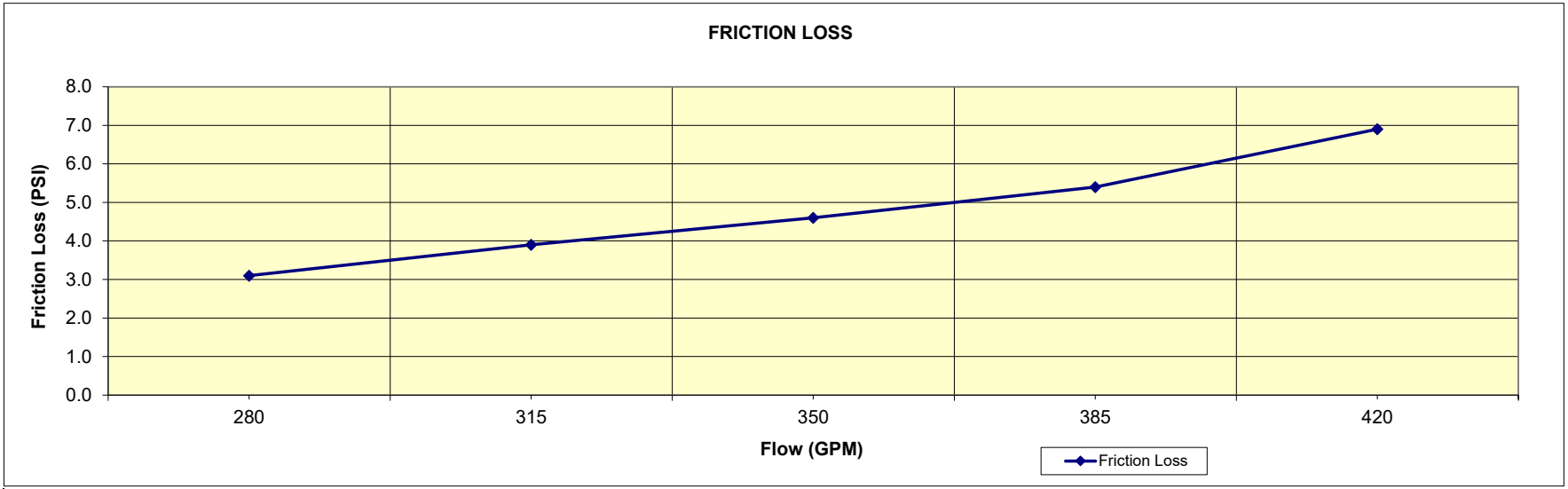
NATIONAL FIRE EQUIPMENT LTD.
SERVICE, SOLUTIONS, INNOVATION

FM Approvals - Hydraulics Group

FRICTION LOSS DATA COLLECTION SHEET

Manufacturer:	Ningbo Huacheng	**Project ID:**	3059501
Location of Test:	FM Approvals	**Date:**	2018-03-29
Test Procedure:	**NFE Model 25 (HY-1521-2) Friction Loss**	**Sheet No.:**	2

Nominal Pipe Size, Inch	Required Flow Rate GPM	Required Flow Rate L/min	Actual L/min	Friction Loss With Valve in-Line: Inlet psi	Outlet psi	Differential PSI	Direct inH_2O	Actual	Friction Loss With Pipe Only: Inlet psi	Outlet psi	Differential PSI	Direct inH_2O	Net Friction Loss of the Valve PSI
2.5	350	1324.9											
80%	280	1059.9	368.0	63.3	59.5	3.8	23.0	368.0	58.7	58.0	0.7	0.0	3.1
90%	315	1192.4	414.0	88.8	83.9	4.9	26.0	414.0	83.9	82.9	1.0	0.0	3.9
100%	350	1324.9	462.0	108.6	102.8	5.8	30.0	460.0	104.1	102.9	1.2	0.0	4.6
110%	385	1457.4	507.0	130.3	123.2	7.1	33.0	505.0	114.5	112.8	1.7	0.0	5.4
120%	420	1589.9	552.0	160.0	151.3	8.7	40.0	550.0	122.6	120.8	1.8	0.0	6.9



Remarks / Comments:

Flow Rate Conversion Factor = 3.7854412

Friction Loss With Valve In-Line Conversion Factors

Upstream Pressure Conversion Factor = 1 Constant = 0

Downstream Pressure Conversion Factor = 1 Constant = 0

Friction Loss With Valve In-Line Conversion Factors

Upstream Pressure Conversion Factor = 1 Constant = 0

Downstream Pressure Conversion Factor = 1 Constant = 0

Equipment

FIC71	Flow meter	Cal due	2018-10-31
PDI98	Pressure differential	Cal due	2018-10-31
PI94	Pressure indicator	Cal due	2018-10-31

Test Conducted By:	Jon Matchett	**Date Conducted:**	2018-08-22
Witnessed By:			
Project Engineer:	Emily Tacopina	**Date Reviewed:**	

Form No.: HYD-150-05, Rev. 0

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