#### DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND BUILDING PERMIT



This is to certify that

Located at

HARBORVIEW DEVELOPMENT LLC /Sprinkler System,

127 YORK ST

Inc

**PERMIT ID: 2012-65579** 

CBL: 044 A005001

has permission to install NFPA 13R supervised sprinkler system.

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise clsoed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be procured prior to occupancy.

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
THERE IS A PENALTY FOR REMOVING THIS CARD

# BUILDING PERMIT INSPECTION PROCEDURES Please call 874-8703 (ONLY)

or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.
- Permits expire in 6 months. If the project is not started or ceases for 6 months.
- If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.

#### **REQUIRED INSPECTIONS:**

Final - Fire

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.

Cit	ty of Portland, Maine - Buil	ding or Use Permit		Permit No:	Date Applied For:	CBL:
	Congress Street, 04101 Tel: (2	0	201265579	12/11/2012	044 A005001	
Loc	ation of Construction:	Owner Name:	Owner Address:		Phone:	
12	7 YORK ST	HARBORVIEW DEV	ELOPMENT	PO BOX 8816		
Bus	iness Name:	Contractor Name:		Contractor Address:		Phone
		Sprinkler System, Inc		P.O. Box 1285 Lev	viston	(207) 782-0104
Less	see/Buyer's Name	Phone:		Permit Type:		
				Fire Alarm / Suppr	ression	
Pro	posed Use:		Propose	d Project Description:		
Sai	me: Bldg #1 = 12 res. Condos; Bldg	g #2 = 7  res. Condos	install	NFPA 13R supervi	sed sprinkler system.	
				•		
D	ept: Zoning Status: A	pproved	Reviewer	Marge Schmucka	l Approval Da	ite: 12/13/2012
	ote:	ppione	2007107701			Ok to Issue:
1						OK to Issue.
D	ept: Fire Status: A	pproved w/Conditions	Reviewer:	Ben Wallace Jr	Approval Da	ite: 12/24/2012
N	ote:					Ok to Issue:
1)	A separate Fire Alarm Permit is re	auired. This review do	es not include a	pproval of fire alarn	n system design or in	stallation.
		•		•		
2)	A sprinkler supervisory system sha Alarm and Signaling Code. Sprink					
	approved fire alarm panel to centra					
	front door, and an audible water fl			r r	r	
3)	The sprinkler system shall be insta	lled in accordance with	NFPA 13R. Th	e FDC shall be loca	ted adjacent to the Y	ork Street curb.
٥,	protected as appropriate from vehi				9	
	Locking cap is not required.					
4)	Installation of a sprinkler or fire al	arm system requires a K	Knox Box to be i	nstalled per city ord	linance.	
5)	Fire protection systems shall be ma	aintained. If system is to	o be off line ove	r 4 hours a fire wate	ch shall be in place.	Dispatch
	notification required 874-8576.					

City of Portland, Mai	ne - Buil	ding or Use	Permit Application	n Permit No:	Issue Date:		CBL:	
389 Congress Street, 041	01 Tel: (	207) 874-8703	3, Fax: (207) 874-871	6 2012-65579			044 A005001	
Location of Construction:		Owner Name:		Owner Address:			Phone:	
127 YORK ST		HARBORVIE	W DEVELOPMENT	PO BOX 8816				
Business Name:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Contractor Name	:	Contractor Address:			Phone	
		Sprinkler System	em, Inc	P.O. Box 1285 L	ewiston		(207) 782-0104	
Lessee/Buyer's Name		Phone:		Permit Type:			Zone:	
				Fire Alarm / Sup	pression		R6	
Past Use:		Proposed Use:		Permit Fee:	Cost of Wor	k:	CEO District:	
2 buildings on lot: bldg #1			l = 12 res. Condos;	\$140.00	\$1	2,000.00	3	
residential condos; Bldg #	2 = 7	Bldg $#2 = 7 \text{ re}$	es. Condos	FIRE DEPT:	Approved	INSPECTION	ON:	
residential condos under construction					Denied	Use Group:	Туре:	
Construction				1,2/24/12 5	N/A			
				1 dadio	_ IV/A			
Proposed Project Description:				signature: Bland	1			
Install fire suppression sys	tem for ent	ire new building	}	Signature: 5 (Mac	(58)	Signature:		
				PEDESTRIAN ACT	VITIES DIST	RICT (P.A.)	0.)	
				Action: Appro	ved App	roved w/Con	ditions Denied	
				Signature:		Da	e:	
Permit Taken By:		pplied For:		Zoning	Approva	ı		
ldobson	12/11	/2012						
1. This permit applicatio			Special Zone or Revie	ws Zoni	ng Appeal		Historic Preservation	
Applicant(s) from mee Federal Rules.	eting applic	able State and	Shoreland	☐ Varianc	e	12	Not in District or Landman	
Building permits do no septic or electrical work		olumbing,	Wetland	☐ Miscella	aneous		Does Not Require Review	
3. Building permits are within six (6) months	oid if work		☐ Flood Zone	Condition	Conditional Use		Requires Review	
False information may permit and stop all wo		a building	Subdivision	Interpre	tation		Approved	
			Site Plan	Approve	ed		Approved w/Conditions	
			Maj Minor MM	☐ Denied			Denied O	
			Date: 12/13/1	Date:		Date:		
I hereby certify that I am th I have been authorized by the jurisdiction. In addition, if shall have the authority to e	he owner to a permit fo	make this appli work describe	ication as his authorized in the application is is	ne proposed work is d agent and I agree ssued, I certify that	to conform the code off	to all appli icial's auth	cable laws of this orized representative	
such permit.								
SIGNATURE OF APPLICANT			ADDRES	8	DATE		PHONE	

2012-6-5579



## Water-Based Fire Suppression System Permit

If you or the property owner owes real estate or property taxes or user charges on any property within the city, payment arrangements must be made before permits of any kind are accepted.

Installation address: 121 York Street	CBL: 44. A. 5								
Exact location: (within structure) Harborview TownHomes	CDD.								
Type of occupancy(s) (NFPA & ICC): Residential - 7 Unit €ondominium									
Building owner: Redfern Properties, P. O. Box 8816, Po									
	License No: 278								
	E-mail: scottg@sprinklersystemsinc.cor								
	License No: 093								
Contractor phone: 207-782-0104	E-mail:								
	ation: Addition to existing system:								
This is an amendment to an existing permit: Yes: NO	Permit no:								
NFPA Standard this system is designed to: NFPA #13-R	Edition: 2010								
*Non-NFPA systems are not approved for use within the City of Portland.	COST OF WORK: \$12,000.00								
Download a new copy of this document from	PERMIT FEE: \$140.00								
www.portlandmaine.gov/fire for every submittal. Attach all working	(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)								
documents and complete approved submittals as may be required by	MED								
the State Fire Marshal's Office on electronic PDF's in addition to	RECEIVE								
full sized plans.	1 / Suite ations								
Contractor shall verify location and type of all FDCs shall	DEC 1 2012								
be approved in writing by the Fire Prevention Bureau.	DEC 1 2012  Dept. of Building Inspections								
Submit all information to the Building Inspections Department, 389 Cong									
Prior to acceptance of any fire protection system, a complete commiss	ioning and acceptance test must be coordinated with								
all fire system contractors and the Fire Department, and proper docum	entation of such test(s) provided.								
All installation(s) must comply with NFPA and the Fire Department T	echnical Standard(s).								
Applicant signature:	Date: 12-7-2012								

. .

# Sprinker Systems, Inc. 2003 1285

## Lewiston, ME 04243-1285

TO: City of Portland

1 11			311
4 -11 - 4	6.4	m 1 ~	1111
اعتنعا			

JOB #

12070

DATE 10-22-12

ATTENTION: Code Enforcement

10. 6179 0. 101 (1440)	Marborview lownhomes
Code Enforcement	121 York St.
Room 315 City Hall Portland, ME 04101	Portland, ME 04101
Postland 115 all	TOTTIANA, JUE CAID!
101 1 mad , DIE 04101	
WE ARE SENDING YOU:	
	der separate cover via the following items:
Shop drawings Prints Plans	☐ Samples ☐ Specifications ☐ Wavier or Liens
☐ Copy of letter ☐ Change order ☐ Signed Co	ntracts D. Hyd. Cake, State of ME Permit City of Portland parmit App., Flow Tot Info
	Permit Check
COPIES DATE NO.	DESCRIPTION
1 ead 10-16-12 1,202 Sprinkler S	has Dearings
	Calculations packet
1 each 10-16-12 1,2 of2 11x17 Sprint	
1 each 10-20-12 10298 State of Main	e sprinkler permit
1 each 10-25-12 - Flow test 1	
	nkler peimit App.
1 each 12-5-12 29025 \$ (40.00 Perm	nit Check
FILECE A DE CO ANCHOUNTED	
THESE ARE TRANSMITTED as checked below:	
For your approval Approved	as submitted Resubmitcopies for approval
For your use	as noted Submitcopies for distribution
REMARKS:	
	Δ
Please return 1 sprinkler +	)C(m)T-
	Thouls Your
	Rear Dullatte
	1 14 1
	SIGNED: The Oullto



### State of Maine Department of Public Safety

## Fire Sprinkler System Permit



10298

#### Harborview Town Homes

Located at:

121 York Street

In the Town of: Portland

Occupancy/Use: Residential - Townhouses

Type of System: NFPA 13R

Permission is hereby given to:

Sprinkler Systems, Inc.

PO Box 1285

Lewiston, ME 042431285

Contractor License # 93

to begin installation according to plans submittal approved by the Office of State Fire Marshal. The submittal is filed under log # 2121486, and no departure from the application submittal shall be made without prior approval in writing. This permit is issued under the provisions of Title 32, Chapter 20, Section 12004-I. Nothing herein shall excuse the holder of this permit from failure to comply with local ordinances, zoning laws, o other pertinent legal restrictions. This permit shall be displayed at the construction site or be made readily available.

This permit was issued on 10/20/2012 for a fee paid of \$131.00

This permit will expire at midnight on

Thursday, April 18, 2013

The expiration date applies only if the installation has not begun by that date and no permission has been granted to extend the date. Once installation begins, then the permit is valid for however long it takes to complete the installation, assuming that the work is fairly continuous.

John E. Morris Commissioner

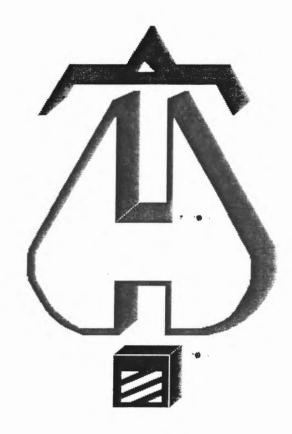
The type of Fire Department Connection and its location is to be according to the Local Fire Department

Within 30 days of the completion of a new fire sprinkler system or an addition to an existing fire sprinkler system, a fire sprinkler system contractor shall provide to the Office of State Fire Marshal a copy of this permit signed and dated by the certified Responsible Managing Supervisor representing that the fire sprinkler system has been installed according to specifications of the approved plan to the best of the supervisor's knowledge, information, and belief. This requirement is part of the sprinkler law, and neglect of this duty is grounds to not renew the contractor's license to do work in the State of Maine. All renewed sprinkler licenses are good for two years and expire on a June 30th.

Job completed, tested and verified by date of \_

RMS Signature:

RMS for this job: Garland Scott E.



. . . Fire Protection by Computer Design

Sprinkler Systems Inc. 2-4 Avon Street P O Box 1285 Lewiston, Maine 04240 207-782-0104

Job Name : HARBORVIEW TOWNHOMES

Building

dina :

Location : 121 YC System : 1 OF 1

: 121 YORK STREET, PORTLAND, MAINE 04102

Contract : 12070

Data File : 12070HARBORVIEWTOWNHOMES1.WXF

#### HYDRAULIC DESIGN INFORMATION SHEET

```
Name - HARBORVIEW TOWNHOMES
                                                                   Date - 10-16-2012
Location - 121 YORK STREET, PORTLAND, MAINE 04102
Building -
                                                         System No. - 1 OF 1
Contractor - REDFERN PROPERTIES
                                                         Contract No. - 12070
Calculated By - SCOTT E. GARLAND [ Construction: (X) Combustible () Non-Combustible
                                                         Drawing No. - 1,2 OF 2
                                                              Ceiling Height 12-6
OCCUPANCY - RESIDENTIAL - TOWNHOME
                                                       2 16 .
     Type of Calculation: ( )NFPA 13 Residential
                                                       (X)NFPA 13R ()NFPA 13D
Υ
     Number of Sprinklers Flowing: ( )1 ( )2 (X)4 ( )
S
     ()Other
T
    ( )Specific Ruling
                                              Made by
                                                                     Date
Ε
     Listed Flow at Start Point - 16.0 Gpm
                                                                System Type
                                                  (X) Wet () Dry
() Deluge () PreAction
Sprinkler or Nozzle
Model F1RES44
     Listed Pres. at Start Point - 13.3 Psi
    MAXIMUM LISTED SPACING 16 x 16
\Box
     Domestic Flow Added - Gpm Sprinkler or Nozzle
Additional Flow Added - Gpm Make RELIABLE Model F1RES44
Elevation at Highest Outlet - 89.458Feet Size 1/2 X 1/2 K-Factor 4.4
E
S
I
G
                                                  Temperature Rating 155 DEG
     DESIGN AREA #1 - THIRD FLOOR UNIT
Calculation Gpm Required 70.891 Psi Required 60.647 AT BASE
               C-Factor Used:
Summary
                                       Overhead 150
                                                                Underground 140
W
   Water Flow Test:
                                    Pump Data:
                                                             Tank or Reservoir:
   Date of Test - 5-31-2002 Rated Cap.
A
                                                           Cap.
    Time of Test -
T
                                   @ Psi
                                                            Elev.
                    - 76
E
    Static (Psi)
                                    Elev.
    Residual (Psi) - 74
                                    Other
R
                                                                  Well
    Flow (Gpm) - 963
                                                            Proof Flow Gpm
                    - 70.417
    Elevation
P
    Location: ON DANFORTH STREET AT PARK STREET, 650'-0" +/- FROM THE BUILDING
P
    Source of Information: PORTLAND WATER DISTRICT
L
```

## Fittings Used Summary

	er Systems Inc. DRVIEW TOWNHOMES																	Pag Dat		3 10-16-12	2
Fitting Le		1/2	3/4	1	11/4	1½	2	2½	3 .	31/2	4	5	6	8	10	12	14	16	18	20	24
E	NFPA 13 90' Standard Elbow	1	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61
Fsp	NFPA 13 45' Elbow Flow Switch Potter VSR	1 Fittir	1 ng gener	1 rates a F	1 Fixed Los	ss Base	d on Flo	w j	3	3	4	5	7	9	11	13	17	19	21	24	28
G T	NFPA 13 Gate Valve	0	0 4	0 5	6	8	1 10	1 12	1 15	1 17	20	25	30	4 35	5 50	60	7 71	81 ·	10 91	101	13 121

#### Units Summary

Diameter Units	
Length Units	
Flow Units	
Pressure Units	

Inches Feet

US Gallons per Minute Pounds per Square Inch Sprinkler Systems Inc. HARBORVIEW TOWNHOMES Page 4 Date 10-16-12

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Reg.
1	89.458	4.4	13.3	na	16.05	0.05	320	13.3
2	89.458	4.4	13.3	na 🐞 .	16.05	0.05	320	13.3
A	79.792	7.4	22.27	na	10.00	0.00	020	10.0
6	79.792		24.04	na				
BB	79.792		25.92	na				
3	89.548	4.4	18.77	na	19.06	0.05	320	13.3
C	79.792	7.7	24.76	na	13.00	0.00	320	10.0
7	79.792		24.88	na				
	79.792		25.72	na				
8 B	79.792		26.44	na				
	89.458	4.4	20.08		19.72	0.05	320	13.3
4 CT	89.458	4.4	20.74	na	19.72	0.05	320	13.3
FT F	76.792		28.23	na				
	76.792 76.792			na 👍 .				
E	76.792 76.792		28.94 34.09	na				
D				na				
G	74.292		36.84	na				
H	68.667		41.38	na				
J	62.417		44.33	na				
K	57.417		47.11	na				
L_	57.417		47.91	na				
RT	57.417		48.58	na				
TV	51.75		54.31	na				
RB	49.0		60.64	na				
X3	33.0	•	77.35	na 🦏 .				
X1	33.0		77.35	na				
X2	33.0		77.35	na				
TEST	70.417		61.18	na				

The maximum velocity is 14.9 and it occurs in the pipe between nodes E and D

#### Final Calculations - Hazen-Williams

Sprinkler Systems Inc. HARBORVIEW TOWNHOMES Page 5 Date 10-16-12

Pt Hyd. Qa Dia. Fitting Pipe Pt "C" Ref. Ftng's Pe Pvor Notes Point Qt Pf/Ft Total Pf Pn Eqv. Ln. 1 16.05 1.101 0.0 0.001 13.300 K Factor = 4.40 0.0 150.0 0.0 0.0 to 2 16.05 0.0 0.0 0.0 0.001 Vel = 5.412 1,101 1E 3.825 K Factor = 4.40 16.04 15.917 13.300 to 150.0 1T 9.563 13.387 4.186 Α 32.09 0.1632 0.0 29.304 4.783 Vel = 10.811.101 22.269 Α 0.0 0.0 10.833 to 150.0 0.0 0.0 0.0 32.09 6 0.1632 0.0 10.833 1.768 Vel = 10.81 6 0.0 9.563 2.000 1.101 1T 24.037 150.0 9.562 0.0 to 0.0 BB 32.09 0.1632 0.0 11.562 1.887 Vel = 10.811.394 BB 0.0 0.0 10.000 25.924 150.0 0.0 0.0 to 0.0 32.09 0.517 0.0517 0.0 10.000 \* \* В Vel = 6.750.0 32.09 26.441 K Factor = 6.24 3 19.06 1.101 1E 3.825 14.917 18.773 K Factor = 4.40 9.563 to 150.0 1T 13.387 4.225 C 19.06 0.0623 0.0 28.304 1.763 Vel = 6.42C 0.0 24.761 0.0 1.101 1.917 150.0 0.0 0.0 0.0 to 19.06 7 0.0621 0.0 1.917 0.119 Vel = 6.427 0.0 1.101 0.0 13.500 24.880 to 150.0 0.0 0.0 0.0 19.06 13.500 8 0.0623 0.0 0.841 Vel = 6.42 8 1T 9.563 2.000 25.721 0.0 1.101 150.0 0.0 9.562 0.0 to 19.06 0.0623 11.562 B 0.0 0.720 Vel = 6.420.0 19.06 26.441 K Factor = 3.71 В 51.16 1.394 0.0 9.750 26,441 to 150.0 0.0 0.0 1.299 Ε 51.16 0.1226 0.0 9.750 1.195 Vel = 10.750.0 51.16 28.935 K Factor = 9.51 4 19.72 1.101 1T 9.563 0.333 20.080 K Factor = 4.40 150.0 0.0 9.562 0.0 to 19.72 0.0663 0.0 9.895 0.656 Vel = 6.65FT 1E FT 0.0 1.101 3.825 16.917 20.736 150.0 1T 9.563 13.387 5.486 to F 19.72 0.0663 0.0 30.304 2.008 Vel = 6.65F 1T 0.0 1.101 9.563 1.083 28.230 150.0 0.0 9.562 0.0 to 19.72 0.0662 0.0 Ε 10.645 0.705 Vel = 6.650.0 19.72 28.935 K Factor = 3.671.394 Ε 70.87 **1T** 9.523 13.500 28.935 150.0 0.0 9.523 to 0.0 70.87 D 0.2240 0.0 23.023 5.157 Vel = 14.90

Sprinkler Systems Inc. HARBORVIEW TOWNHOMES Page 6 Date 10-16-12

HARBUR	VIEVV I OVVINITOIVI	LO					Dat	0 10-10	12
Hyd. Ref. Point	Qa Dia "C" Qt Pf/	,	or	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
	0.0 2.0	03 2E	12.965	30.500	34.092			and the particular designation of the antique of the second secon	W. The state of th
D to	0.0 2.00 150.0		0.0	12.965	1.083				
G	70.87 0.03		0.0	43.465	1.666		Vel = 7.3	22	
G	0.0 2.00		6.482	48.458	36.841				
to	150.0	12	0.0	6.482	2.436				
Н	70.87 0.03	383	0.0	54.940	2.106		Vel = 7.2	22	
Н	0.0 2.00	03	0.0	6.250	41.383				
to	150.0		0.0	0.0	2.707				
J	70.87 0.03	382	0.0	6.250	0.239		Vel = 7.2	22	
J	0.0 2.00	03 1E	6.482	9.667	44.329				
to	150.0		0.0	6.482	2.166				
_K	70.87 0.03		0.0	16.149	• • 0.619		Vel = 7.2	22	
K	0.0 2.00	03	0.0	20.667	47.114				
to	150.0		0.0	0.0	0.0		\/al = 7 (	20	
L	70.87 0.03		0.0	20.667	0.792		Vel = 7.2	22	
L	0.0 2.06	37 1T	10.0	3.500	47.906				
to RT	120.0 70.87 0.04	107	0.0 0.0	10.000 13.500	0.0 0.671		Vel = 6.7	78	
	0.0 2.06			5.667	48.577		VC1 - 0.1	0	
RT to	120.0	37 1Fsp	0.0	0.0	5.454		* Fixed lo	ee = 3	
TV	70.87 0.04	98	0.0	5.667	0.282		Vel = 6.7		
TV	0.0 2.06		0.0	2.750	54.313				
to	120.0	•	0.0	0.0	6.191		* Fixed los	ss = 5	
RB	70.87 0.04	98	0.0	2.750	0.137		Vel = 6.7		
RB	0.0 1.91	7 1E	5.235	185.000	60.641				
to	150.0	2F	4.188	20.940	6.930				
X3	70.87 0.04		1.047	205.940	9.775		Vel = 7.8	38	
X3	0.0 12.34	1T	0.0	75,000	• • . 77.346				
to	140.0		0.0	0.0	0.0				
X1	70.87 0.0		0.0	75.000	0.0		Vei = 0.1	9	
X1	0.0 12.34	1T	93.767	170.000	77.346				
to	140.0		0.0	93.767	0.0				
X2	70.87 0.0		0.0	263.767	0.002		Vel = 0.1	9	
X2	0.0 8.27	6F	85.404	650.000	77.348				
to	140.0	1T	55.354	140.758	-16.205		10.00		
TEST	70.87 0.0		0.0	790.758	0.034		Vel = 0.4	2	
	0.0								
	70.87				61.177		K Factor =	9.06	

Page 7 Date 10-16-12

City Water Supply: C1 - Static Pressure Demand: D1 - Elevation : 8.247
D2 - System Flow : 70.8739
D2 - System Pressure : 61.177
Hose ( Adj City ) :
Hose ( Demand ) :
D3 - System Demand : 70.8739 C2 - Residual Pressure: 74 C2 - Residual Flow Safety Margin : 14.807 150 140 130 P 120 R 110 E 100 s 90 s 80 C2 U 70 D2 R 60 E 50 40 30 20 10 D<sub>1</sub> 800 700 900 400 600 500 100 200 300 FLOW ( N ^ 1.85 )

			- 1
		·	
			· ·

