

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20131227-EX2864  
**Report Reference** EX2864-20091217  
**Issue Date** 2013-DECEMBER-27

**Issued to:** S A ARMSTRONG  
23 BERTRAND AVE  
TORONTO, ON M1L 2P3 CANADA


**This is to certify that representative samples of** CENTRIFUGAL FIRE PUMPS  
See Addendum page

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 448, Standard for Safety for Centrifugal Stationary Pumps for Fire-Protection Service;  
ULC/ORD C448, Guide for the Investigation of Pumps for Fire-Protection Service

**Additional Information:** See the ULC Online Certification Directory at [www.ulc.ca](http://www.ulc.ca) for additional information

Only those products bearing the ULC Listing Mark should be considered as being covered by ULC's Listing and Follow-Up Service.

The ULC Listing Mark generally includes the following elements: the symbol ULC in a circle:  with the word "LISTED"; a control number (may be alphanumeric) assigned by ULC; and the product category name (product identifier) as indicated in the appropriate ULC Directory.

To confirm the status, validate the above information via the online directory.

Look for the ULC Listing Mark on the product.



John Arrabito, Vice President and Treasurer  
UNDERWRITERS LABORATORIES OF CANADA INC.

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current ULC requirements.

## Centrifugal Fire Pumps - Vertical Inline

Rated Capacity L/Min (US gpm)	Inlet x Outlet Size, NPS	Model Designation	Rated Net Head Pressure Range kPa (psi)	Max. Discharge Pressure kPa (psi)	Approx. Speed r/m
190 ( 50)	2 x 1-1/2	LA-F	320-1020 (47-148)	1380 (200)	3565
280 ( 75)	2 x 1-1/2	LA-F	310-1010 (45-147)	1380 (200)	3565
380 (100)	2 x 1-1/2	LA-F	275- 960 (40-140)	1380 (200)	3565
570 (150)	3 x 2	LA-F	275- 860 (40-125)	1720 (250)	3500
760 (200)	4 x 3	LA-F	310- 860 (45-125)	1720 (250)	3570
950 (250)	4 x 3	LA-F	275- 850 (40-123)	1720 (250)	3570
1140 (300)	4 x 3	LA-F	295- 830 (43-120)	1720 (250)	3570
1510 (400)	6 x 4	LA-F	310- 920 (45-133)	2410 (350)	3500
1700 (450)	6 x 4	LA-F	295- 910 (43-132)	2410 (350)	3500
1890 (500)	6 x 4	LA-F	275- 900 (40-130)	2410 (350)	3500
2850 (750)	6 x 4	LB-F	550- 800 (80-115)	2410 (350)	3560
2850 (750)	6 x 5	LY-F	275- 490 (40-71)	1380 (200)	1780

*John Arrabito*

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Centrifugal Fire Pumps Vertical Inline – cont.

Rated Capacity L/Min (US gpm)	Inlet x Outlet Size, NPS	Model Designation	Rated Net Head Pressure Range kPa (psi)	Max. Discharge Pressure kPa (psi)	Approx. Speed r/m
95 (25)	2x1-1/2	43MF1-1/2D	380- 620 (55-90)	1210 (175)	3500
95 (25)	2x1-1/2	43MF1-1/2E	690-1170 (100-170)	1380 (200)	3500
95 (25)	3x2	43MF2D	275- 345 (40-50)	1210 (175)	3550
190 (50)	2x1-1/2	43MF1-1/2D	380- 620 (55-90)	1210 (175)	3500
190 (50)	2x1-1/2	43MF1-1/2E	690-1210 (100-175)	1380 (200)	3500
190 (50)	2x2	43PF 2x2x8FM	296 – 593 (43-86)	1720 (250)	2945
190 (50)	2x2	43PF 2x2x8FM	420 – 835 (61-121)	1720 (250)	3500
190 (50)	3x2	43MF2D	275- 345 (40-50)	1210 (175)	3550
190 (50)	2X2	43MF 2x2x8	290- 580 (42-84)	1720 (250)	2900
285 (75)	2X2	43MF 2x2x8	290- 575 (42-83.5)	1720 (250)	2900
380 (100)	2x1-1/2	43MF1-1/2D	345- 550 (50-80)	1210 (175)	3500
380 (100)	2x1-1/2	43MF1-1/2E	690-1210 (100-175)	1380 (200)	3500
380 (100)	2 x 2	43MF 2x2x8	275- 570 (40-83)	1720 (250)	2900
380 (100)	2 x 2	43MF 2x2x8	275- 830 (40-120)	1720 (250)	3500
380 (100)	2 x 2	43PF 2x2x8FM	283 – 593 (41-86)	1720 (250)	2945
380 (100)	2 x 2	43PF 2x2x8FM	407 – 841 (59-122)	1720 (250)	3500
380 (100)	3x2	43MF2D	275- 620 (40-90)	1210 (175)	3550
570 (150)	2x2	43MF 2x2x8	275- 545 (40-79)	1720 (250)	2900
570 (150)	2x2	43MF 2x2x8	275- 830 (40-120)	1720 (250)	3500
570 (150)	2 x 2	43PF 2x2x8FM	386 – 827 (56-120)	1720 (250)	3500
570 (150)	3x2	43MF2D	310- 620 (45-90)	1210 (175)	3550
570 (150)	4x3	43MF3D	275- 560 (40-82)	1210 (175)	3500
760 (200)	3x3	43MF 3x3x8	275- 620 (40-90)	1720 (250)	3500
760 (200)	3x3	43MF 3x3x10	655-1140 (95-165)	1720 (250)	3500
760 (200)	3 x 3	43PF 3x3x8FM	303 – 572 (44-83)	1720 (250)	2945
760 (200)	3 x 3	43PF 3x3x8FM	345 – 807 (50-117)	1720 (250)	3500
760 (200)	4x3	43MF3D	275- 560 (40-82)	1210 (175)	3500
950 (250)	4x3	43MF3D	275- 560 (40-82)	1210 (175)	3500
950 (250)	3 x 3	43PF 3x3x8FM	290 – 572 (42-83)	1720 (250)	2945
950 (250)	3 x 3	43PF 3x3x8FM	331 – 807 (48-117)	1720 (250)	3500
950 (250)	3x3	43MF 3x3x8	275- 725 (40-105)	1720 (250)	3500
950 (250)	3x3	43MF 3x3x10	760-1100 (110-160)	1720 (250)	3500
1140 (300)	4x3	43MF3D	275- 560 (40-82)	1210 (175)	3500
1140 (300)	3 x 3	43PF 3x3x8FM	275- 565 (40-82)	1720 (250)	2945
1140 (300)	3 x 3	43PF 3x3x8FM	317 - 807 (46-117)	1720 (250)	3500
1140 (300)	3x3	43MF 3x3x8	275- 725 (40-105)	1720 (250)	3500

  
 John Arrabito, Vice President and Treasurer

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Centrifugal Fire Pumps Vertical Inline – cont.

Rated Capacity L/Min (US gpm)	Inlet x Outlet Size, NPS	Model Designation	Rated Net Head Pressure Range kPa (psi)	Max. Discharge Pressure kPa (psi)	Approx. Speed r/m
1500 (400)	6x4	43PF	275- 690 (40-100)	1720 (250)	3500
1500 (400)	5 x 5	43PF 5x5x8FM	372 – 717 (54-104)	1720 (250)	3500
1700 (450)	6x4	43PF	275- 690 (40-100)	1720 (250)	3500
1700 (450)	5 x 5	43PF 5x5x8FM	359 – 717 (52-104)	1720 (250)	3500
1900 (500)	6x4	43PF	275- 690 (40-100)	1720 (250)	3550
1900 (500)	5 x 5	43PF 5x5x8FM	345 – 703 (50-102)	1720 (250)	3500
1500 (400)	5x5	43MF 5x5x8	275- 690 (40-100)	1720 (250)	3500
1700 (450)	5x5	43MF 5x5x8	275- 690 (40-100)	1720 (250)	3500
1900 (500)	5x5	43MF 5x5x8	275- 690 (40-100)	1720 (250)	3500
3800 (1000)	8x8	43MF 8x8x13	275- 450 (40-65)	1720 (250)	1775
3800 (1000)	8x8	+ 43PF 8x8x13	275- 450 (40-65)	1720 (250)	1775
3785 (1000)	8x8	43MF-8x8x16FM	575-695 (83.5-101)	1380 (200)	1780
3785 (1000)	8x8	43PF-8x8x16FM	575-695 (83.5-101)	1380 (200)	1780
4735 (1250)	8x8	43MF-8x8x16FM	548-668 (79.5-97)	1380 (200)	1780
4735 (1250)	8x8	43PF-8x8x16FM	548-668 (79.5-97)	1380 (200)	1780
5680 (1500)	8x8	43MF-8x8x16FM	513-635 (74.5-92)	1380 (200)	1780
5680 (1500)	8x8	43PF-8x8x16FM	513-635 (74.5-92)	1380 (200)	1780
3785 (1000)	8x8	43MF-8x8x16FM	386-468 (56-68)	1380 (200)	1480
4735 (1250)	8x8	43PF-8x8x16FM	358-440 (52-64)	1380 (200)	1480
3785 (1000)	8x8	43MF-8x8x16FM	386-468 (56-68)	1380 (200)	1480
4735 (1250)	8x8	43PF-8x8x16FM	358-440 (52-64)	1380 (200)	1480

Note: Model PF is identical to the Model MF except for the use of packing instead of a mechanical seal.

  
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