SPX FLOW, Inc. (NYSE:FLOW) is a leading manufacturer of innovative flow technologies, many of which help define the industry standard in the market segments they serve. From its headquarters in Charlotte, North Carolina, it operates a sales and support network, centers of manufacturing excellence, and advanced engineering facilities, throughout the world. Its cutting-edge flow components and process equipment portfolio includes a wide range of pumps, valves, heat exchangers, mixers, homogenizers, separators, filters, UHT, and drying technology that meet many application needs. Its expert engineering capability also makes it a premium supplier of customized solutions and complete, turn-key packages to meet the most exacting of installation demands.

Incorporating many leading brands, SPX FLOW has a long history of serving the food and beverage, power and energy, and industrial market sectors. Its designs and engineered solutions help customers drive efficiency and productivity, increase quality and reliability, and meet the latest regulatory demands. In-depth understanding of applications and processes, state-of-the-art Innovation Centers, and advanced pilot/testing technology further assist in optimizing processes and reducing timescales to reliably meet production targets.

To learn more about SPX FLOW capabilities, its latest technology innovations and complete service offerings, please visit www.spxflow.com.

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NOTE: Impeller dia: Max: 4.3"
Performance data refer to water at 68°F
Provisional
NOTE: Impeller dia: Max: 5.6” - Low Flow Impeller
Performance data refer to water at 68°F
Provisional
NOTE: Impeller dia: Max: 5.6” - Low Flow Impeller
Performance data refer to water at 68°F
Provisional
NOTE: 

Impeller dia: Max: 5.6”
Performance data refer to water at 68°F
Permissible tolerance ± 5%
NOTE: 

Impeller dia: Max: 5.6"
Performance data refer to water at 68°F
Permissible tolerance ± 5%
W+ SERIES MODEL W+25/210 CENTRIFUGAL PUMP CAPACITY CURVE
6” INLET - 4” OUTLET, 1450 RPM, 50 Hz

NOTE: 

Impeller dia: Max: 11.4”
Performance data refer to water at 68°F
Permissible tolerance ± 5%

Impeller dia: Max: 11.4”
Performance data refer to water at 68°F
Permissible tolerance ± 5%
W+ SERIES MODEL W+30/80 CENTRIFUGAL PUMP CAPACITY CURVE
4" INLET - 3" OUTLET, 1450 RPM, 50 Hz

NOTE:
Impeller dia: Max: 6.7"
Performance data refer to water at 68°F
Permissible tolerance ± 5%
APV®

W+ SERIES MODEL W+30/80 CENTRIFUGAL PUMP CAPACITY CURVE
4" INLET - 3" OUTLET, 2900 RPM, 50 Hz

NOTE: Impeller dia: Max: 6.7"
Performance data refer to water at 68°F
Permissible tolerance ± 5%

Power consumption
Pressure head
NPSH required

ft
hp
ft
USGPM
USGPM
USGPM

Inducer
**NOTE:**

Impeller dia: Max: 6.9"

Performance data refer to water at 68°F

Permissible tolerance ± 5%
W+ SERIES MODEL W+30/120 CENTRIFUGAL PUMP CAPACITY CURVE
4" INLET - 3" OUTLET, 2900 RPM, 50 Hz

NOTE: Impeller dia: Max: 6.9"
Performance data refer to water at 68°F
Permissible tolerance ± 5%

![Graphs showing capacity curve for the W+30/120 centrifugal pump with various performance metrics such as pressure head, power consumption, and NPSH required.](image-url)
NOTE: 

Impeller dia: Max: 6.9” - Low Flow Impeller
Performance data refer to water at 68°F
Provisional
NOTE:  

- Impeller dia: Max: 6.9" - Low Flow Impeller
- Performance data refer to water at 68°F
- Provisional

**W+ SERIES MODEL W+35/35 CENTRIFUGAL PUMP CAPACITY CURVE**

2.5” INLET - 2” OUTLET, 2900 RPM, 50 Hz

**ft**

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**hp**

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0  20  40  60  80  100  120  140  160  180  USGPM
W+ SERIES MODEL W+35/35 CENTRIFUGAL PUMP CAPACITY CURVE
2.5" INLET - 2" OUTLET, 1450 RPM, 50 Hz

NOTE: Impeller dia: Max: 6.9"
Performance data refer to water at 68°F
Permissible tolerance ± 5%

Pressure head

Power consumption

NPSH required
W+ SERIES MODEL W+35/35 CENTRIFUGAL PUMP CAPACITY CURVE
2.5" INLET - 2" OUTLET, 2900 RPM, 50 Hz

NOTE:  

Impeller dia: Max: 6.9"
Performance data refer to water at 68°F
Permissible tolerance ± 5%
NOTE: Impeller dia: Max: 7.1"
Performance data refer to water at 68°F
Permissible tolerance ± 5%
W+ SERIES MODEL W+35/55 CENTRIFUGAL PUMP CAPACITY CURVE
3" INLET - 2.5" OUTLET, 2900 RPM, 50 Hz

NOTE: Impeller dia: Max: 7.1"
Performance data refer to water at 68°F
Permissible tolerance ± 5%
**W+ SERIES MODEL W+50/8 CENTRIFUGAL PUMP CAPACITY CURVE**

1.5" INLET - 1" OUTLET, 1450 RPM, 50 Hz

**NOTE:**
- Impeller dia: Max: 7.9"
- Performance data refer to water at 68°F
- Permissible tolerance ± 5%

---

**Diagram Details:**
- **Pressure head** vs. **USGPM**
- **Power consumption** vs. **USGPM**
- **NPSH required** vs. **USGPM**
NOTE:  

Impeller dia: Max: 7.9"  
Performance data refer to water at 68°F  
Permissible tolerance ± 5%
W+ SERIES MODEL W+55/35 CENTRIFUGAL PUMP CAPACITY CURVE
2.5" INLET - 1.5" OUTLET, 1450 RPM, 50 Hz

NOTE: Impeller dia: Max: 8.3"
Performance data refer to water at 68°F
Permissible tolerance ± 5%
W+ SERIES MODEL W+55/35 CENTRIFUGAL PUMP CAPACITY CURVE
2.5" INLET - 1.5" OUTLET, 2900 RPM, 50 Hz

NOTE: Impeller dia: Max: 8.3"
Performance data refer to water at 68°F
Permissible tolerance ± 5%
W+ SERIES MODEL W+55/60 CENTRIFUGAL PUMP CAPACITY CURVE
3" INLET - 2" OUTLET, 1450 RPM, 50 Hz

NOTE: 

Impeller dia: Max: 8.7"
Performance data refer to water at 68°F
Permissible tolerance ± 5%

Impeller dia: Max: 8.7"
Performance data refer to water at 68°F
Permissible tolerance ± 5%
NOTE: Impeller dia: Max: 8.7"
Performance data refer to water at 68°F
Permissible tolerance ± 5%
W+ SERIES MODEL W+60/110 CENTRIFUGAL PUMP CAPACITY CURVE
4” INLET - 3” OUTLET, 1450 RPM, 50 Hz

NOTE: 

Impeller dia: Max: 9.1”
Performance data refer to water at 68°F
Permissible tolerance ± 5%
W+ SERIES MODEL W+60/110 CENTRIFUGAL PUMP CAPACITY CURVE
4" INLET - 3" OUTLET, 2900 RPM, 50 Hz

NOTE:  

Impeller dia: Max: 9.1"  
Performance data refer to water at 68°F  
Permissible tolerance ± 5%

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A-1-201.255 ISS T
EFFECTIVE 26-04-2010

CANCELS
DATED
1-1-97

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W+ SERIES MODEL W+65/350 CENTRIFUGAL PUMP CAPACITY CURVE
6" INLET - 4" OUTLET, 1450 RPM, 50 Hz

NOTE: Impeller dia: Max: 10.2"
Performance data refer to water at 68°F
Permissible tolerance ± 5%

Pressure head

hp

Power consumption

ft

NPSH required

ft
W+ SERIES MODEL W+65/350 CENTRIFUGAL PUMP CAPACITY CURVE
6" INLET - 4" OUTLET, 2900 RPM, 50 Hz

NOTE: 

Inducer 

Impeller dia: Max: 10.2"
Performance data refer to water at 68°F
Permissible tolerance ± 5%
W+ SERIES MODEL W+70/40 CENTRIFUGAL PUMP CAPACITY CURVE
2.5" INLET - 1.5" OUTLET, 1450 RPM, 50 Hz

NOTE: ____________________________

Impeller dia: Max: 9.4"
Performance data refer to water at 68°F
Permissible tolerance ± 5%

---

Pressure head

ft

9.4"
9.1"
8.7"
8.3"
7.9"
7.5"
7.1"
6.5"
6.0"
5.5"
5.0"
4.5"
4.0"
3.5"
3.0"
2.0"
1.5"
1.0"
0.5"
0.0"

USGPM

hp

0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
9.5
10.0

Power consumption

ft

NPSH required

0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0

USGPM
**W+ SERIES MODEL W+70/40 CENTRIFUGAL PUMP CAPACITY CURVE**

2.5" INLET - 1.5" OUTLET, 2900 RPM, 50 Hz

**NOTE:** Impeller dia: Max: 9.4"

Performance data refer to water at 68°F

Permissible tolerance ± 5%
NOTE: ____________________________ Impeller dia: Max: 10.0"
Performance data refer to water at 68°F Permissible tolerance ± 5%
W+ SERIES MODEL W+80/80 CENTRIFUGAL PUMP CAPACITY CURVE
3" INLET - 2" OUTLET, 2900 RPM, 50 Hz

NOTE:  
Impeller dia: Max: 10.0"
Performance data refer to water at 68°F
Permissible tolerance ± 5%

- Pressure head
- Power consumption
- NPSH required
W+ SERIES MODEL W+110/130 CENTRIFUGAL PUMP CAPACITY CURVE
4" INLET - 3" OUTLET, 1450 RPM, 50 Hz

NOTE: Impeller dia: Max: 11.4"
Performance data refer to water at 68°F
Permissible tolerance ± 5%
W+ SERIES MODEL W+110/130 CENTRIFUGAL PUMP CAPACITY CURVE
4" INLET - 3" OUTLET, 2900 RPM, 50 Hz

NOTE: 

Impeller dia: Max: 11.4"
Performance data refer to water at 68°F
Permissible tolerance ± 5%

Pressure head

Power consumption

NPSH required
W+ SERIES MODEL W+140/50 2-STAGES CENTRIFUGAL PUMP CAPACITY CURVE
3" INLET - 2" OUTLET, 2950 RPM, 50 Hz

NOTE: Impeller dia: Max: 7.9"
Performance data refer to water at 68°F
Permissible tolerance ± 5%

Impellers:
I: 2 x 7.9"
II: 1 x 7.9" + 1 x 7.1"
III: 1 x 7.9" + 1 x 6.3"

ft

Pressure head

USGPM

0 5 10 15 20 25 30 35 40

hp

Power consumption

USGPM

0 5 10 15 20 25 30 35 40

ft

NPSH required

USGPM

0 5 10 15 20 25 30 35 40

ft

Pressure head

USGPM

0 5 10 15 20 25 30 35 40

ft

Power consumption

USGPM

0 5 10 15 20 25 30 35 40

ft

NPSH required

USGPM

0 5 10 15 20 25 30 35 40
W+ SERIES MODEL W+140/50 3-STAGES CENTRIFUGAL PUMP CAPACITY CURVE
3" INLET - 2" OUTLET, 2950 RPM, 50 Hz

NOTE:  

Impeller dia: Max: 7.9"
Performance data refer to water at 68°F
Permissible tolerance ± 5%

Impellers:
I: 3 x 7.9"
II: 1 x 7.9" + 2 x 7.1"
III: 1 x 7.9" + 2 x 6.3"

Pressure head

Power consumption

NPSH required
Sanitary Centrifugal Pumps

W+ SERIES
- 50HZ CURVE BOOK

SPX FLOW, Inc. reserves the right to incorporate our latest design and material changes without notice or obligation.

Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region. For more information visit www.spxflow.com.

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ISSUED 06/2017  7019-01-06-2010-GB
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