

# Flygt A-C Series NS Pumps

NSY MODEL 100 & 150 HORIZONTAL NON-CLOG WASTEWATER PUMPS

## Single stage - enclosed non-clog type impeller for pumping wastewater and other non-corrosive liquids with soft solids.

NSY pumps are designed to handle wastewater and other non-corrosive liquids with soft solids in suspension. Typical applications are municipal water and wastewater, industrial wastewater treatment and food processing.

With thousands of NS dry pit pumps in operation worldwide and as the industry leader in service and support with the over 120 years of expertise, we've got the flexibility to design to your needs. If it can be done, we will do it.

## NSY Model 100 & 150 designs offer outstanding advantages:

**Standardized design** – Maximum interchangeability of parts helps reduce spare parts inventory. All parts except the casing suction cover and impeller are completely interchangeable within a given frame group. Seven pump sizes are built on only four power frames.

**Rear pull-out design** – The complete rotating element can be removed from the pump without disturbing the suction or discharge piping.

**Tapered shaft** – The impeller end of the shaft and the impeller bore are designed with a taper for reliability and ease of maintenance.

**Impeller nut** – A contoured stainless steel nut is provided to prevent material from hanging up. The nut is secured by a stainless steel set screw.

**Flexibility** – Either clockwise or counterclockwise rotation can be supplied. Discharge nozzle can be arranged in any one of eight positions for either rotation to suit the piping arrangement.

**Engineered for dependability** – Two vane non-clog impellers with smooth water passages capable of passing soft solids without clogging.

**Maximum shaft and bearing life** – Large diameter shafts minimize deflection and increase packing life. Bearings are selected in accordance with the Anti-Friction Bearing Manufacturers Association (AFBMA) to provide for maximum life expectancy.

**Simple impeller adjustment** – Axial clearance between the impeller and suction cover is controlled by adding or removing shims between the outboard bearing cartridge and the frame.

**High operation efficiency** – Standard with replacement stainless steel impeller wear ring and suction cover wear plate.

**Coupling guards** – Enclosed type meets ANSI B-15.1 specifications.

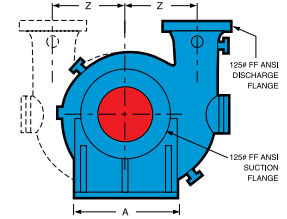
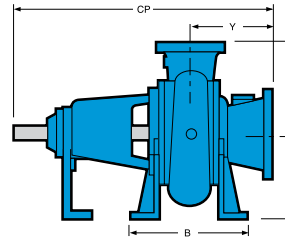
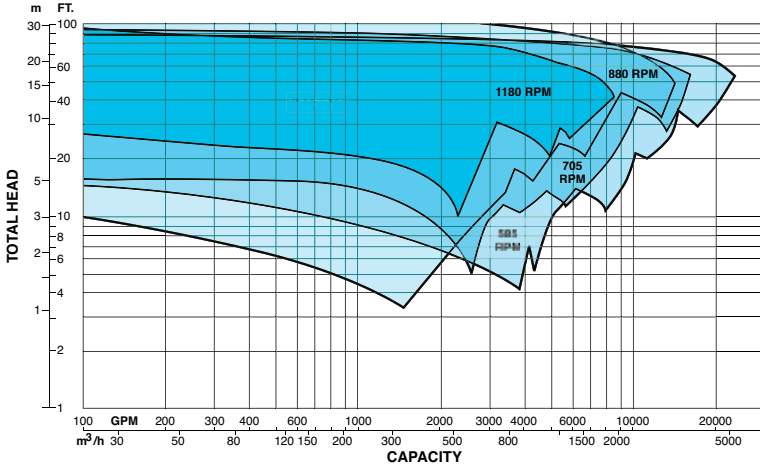
**Dynamic seal** – Available for all sizes.



NSY Model 100 – Bare pump  
NSY Model 150 – Pump, shafting and ring base

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NSY Model 100 & 150 range chart



## DIMENSIONS

Pump Size	Suction	Discharge	A	B	D	X	Y	Z	CP	Weight
10X10X13.5	10	10	18.0	20.8	16.0	14.0	16.5	10.5	42.9	1500
12X12X15	12	12	20.5	24.3	18.5	15.0	18.5	10.8	49.1	1950
14X14X17.5	14	14	18.5	29.8	22.3	17.5	20.1	12.8	50.4	2695
16X16X20	16	16	20.0	31.0	25.0	20.0	23.0	14.5	53.0	3775
18X18X23	18	18	27.8	35.0	27.5	22.5	24.0	16.4	66.5	4195
20X20X25	20	20	24.8	35.5	29.4	25.0	26.0	18.0	68.5	5120
24X24X30	24	24	36.0	42.5	35.0	30.0	31.3	21.6	82.5	6440

All dimensions are in inches. These dimensions should not be used for construction or installation purposes. Pumps are available as right hand (CW) or left hand (CCW) rotation with different discharge positions.



Flygt is a brand of Xylem, whose 12,000 employees are addressing the most complex issues in the global water market.

[www.xylem.com](http://www.xylem.com)

Xylem Water Solutions U.S.A., Inc.  
 N27 W23293 Roundy Drive  
 Pewaukee, WI 53072 U.S.A.  
 Phone: 262-548-8181  
 e-mail: flygtac@xylem.com