

FAIRBANKS NIJHUIS™
ANGLEFLOW
SOLIDS HANDLING PUMPS



FAIRBANKS NIJHUIS™

Introduction

It's estimated that many thousands of high-head and angleflow pumps manufactured since the turn of the last century by Fairbanks Nijhuis are still operating. Fairbanks Nijhuis Pump has set the industry standard in reliable performance year in, year out, and the continuous performance of our angleflow pump line is proof positive.

Specs at a Glance

The 5700 Series Solids Handling Angleflow Pump is a workhorse ideally suited for large treatment plants, industrial waste, storm water, dry dock and other facilities requiring a high volume solids handling pumping solution. Models include vertical flexible shaft (5710 Series), horizontal base mounted (5720 Series), and vertical mounted motor direct to pump (5740 Series).

APPLICATIONS

- Waste Stream Transfer
- Product Transfer
- De-Watering
- Storm Water
- Lift Stations

WASTE TYPES

- Raw Sewage Influent
- Return Activated Sludge
- Filter Backwash
- Effluent

STANDARD FEATURES

- Cast Iron Volutes
- Heavy Duty Bearing Frame for Long Life
- Grease Lubricated Bearings
- Cast Iron or Bronze Impellers

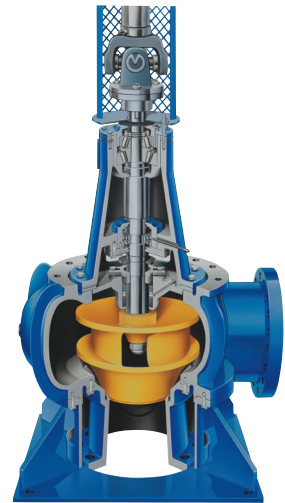
Horizontal pumps are mounted on a rigid structural steel base with a coupling guard. Vertical closed-coupled pumps include a motor base which supports the weight of the pump and provides sufficient height and large openings for easy coupling and guard access.

Better by Design

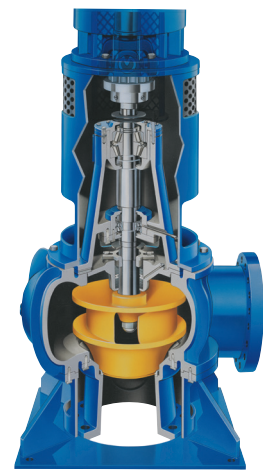
Fairbanks Nijhuis angleflow pumps deter clogging and the need for downtime maintenance through an extremely efficient design featuring:

- Single-suction mixed-flow design impellers with large passageways
- Blunt, well-rounded leading edge vanes
- Thick, hydrofoil shaped impeller vanes that prevent long string materials from wrapping around the leading edge
- Impeller and front head furnished with corrosion resistant renewable wear rings to maintain performance, reduce recirculation and maintain clearances
- Carbon steel pump shaft for maximum stiffness and loading, and to prevent vibration and fatigue

The system's design only requires minimum size driving motors and controls which reduce construction and operation costs. Many units are also available for submersible operation.

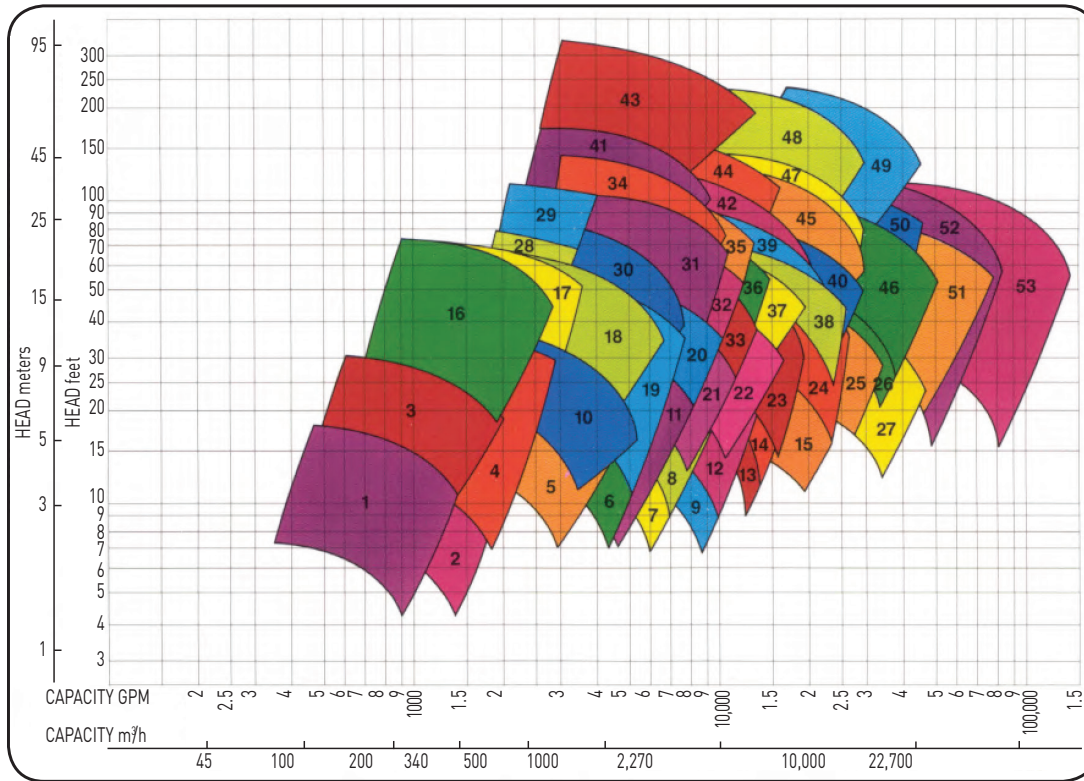


Angleflow Vertical Flex-Shaft Pump



Angleflow Vertical Close-Coupled Pump

Pump Performance and Selection



Number	Inches	Metrics	Speed
1.	8" 57X1	200 mm	875
2.	10" 57X1	255 mm	705
3.	8" 57X1	200 mm	1175
4.	10" 57X1	255 mm	880
5.	12" 57X1	305 mm	705
6.	14" 57X1	355 mm	705
7.	18" 57X1	457 mm	440
8.	18" 57X1	457 mm	505
9.	20" 57X1S	510 mm	440
10.	12" 57X1	305 mm	885
11.	16" 57X1	405 mm	585
12.	20" 57X1S	510 mm	505
13.	20" 57X1L	510 mm	440
14.	20" 57X1L	510 mm	505
15.	30" 57X1	760 mm	320
16.	8" 57X1	200 mm	1775
17.	10" 57X1	255 mm	1185
18.	12" 57X1	305 mm	1185

Number	Inches	Metrics	Speed
19.	14" 57X1	355 mm	885
20.	16" 57X1	400 mm	705
21.	18" 57X1	457 mm	585
22.	20" 57X1L	510 mm	585
23.	20" 57X1S	510 mm	585
24.	24" 57X1	610 mm	505
25.	30" 57X1	760 mm	350
26.	30" 57X1	760 mm	440
27.	36" 57X1	920 mm	270
28.	14" 57X3	355 mm	585
29.	14" 57X3	355 mm	705
30.	12" 24X4	305 mm	890
31.	14" 57X1	355 mm	1185
32.	16" 57X1	400 mm	890
33.	18" 57X1	457 mm	705
34.	12" 24X4	305 mm	1185
35.	14" 57X1	355 mm	1185
36.	18" 57X1	457 mm	705

Number	Inches	Metrics	Speed
37.	20" X57X1S	510 mm	705
38.	24" 57X1	610 mm	585
39.	20" 57X1L	510 mm	705
40.	24" 57X1	610 mm	585
41.	14" 57X3	355 mm	890
42.	20" 57X2	510 mm	705
43.	14" 57X3	355 mm	1185
44.	14" 57X2	355 mm	705
45.	20" 24X4	510 mm	705
46.	30" 57X1	760 mm	505
47.	24" 57X2	610 mm	585
48.	24" 57X3	610 mm	585
49.	30" 57X3	760 mm	505
50.	36" 57X2	920 mm	440
51.	42" 57X1	1070 mm	Various
52.	36" 57X1	920 mm	Various
53.	54" 57X1	1370 mm	Various

	Vertical Flexible Shaft Angleflow Pumps (5710 Series)			Horizontal Base Mounted Angleflow Pumps (5720 Series)			Vertical Mounted (Motor Direct To Pump) Angleflow Pumps (5740 Series)		
	5711	5712	5713	5721	5722	5723	5741	5742	5743
Discharge Sizes – inches	8 – 54	14, 20, 24, 36	14, 20, 30	8 – 54	14, 20, 24, 36	14, 24, 30	8 – 36	14, 20, 24, 36	14, 24, 30
Discharge Sizes – mm	203 – 1372	356, 508, 610, 814	356, 508, 762	203 – 1372	356, 508, 610, 914	356, 610, 762	203 – 914	356, 508, 610, 914	356, 610, 762
Capacity Ranges – GPM	400 – 140,000			400 – 140,000			400 – 140,000 GPM		
Capacity Ranges – m³/h	90.8 – 31,800			90.8 – 31,800			90.8 – 31,800		
Head Ranges – feet	5 to 310			5 to 310			5 to 310		
Head Ranges – meters	1.524 to 94.488			1.524 to 94.488			1.524 to 94.488		

THE COMMITMENT OF FAIRBANKS NIJHUIS™

Our distinctive products, market leadership, excellent customer service, and longevity in the industry are all a result of the quality and dedication of our personnel. Our pumps are machined, built, and tested by highly skilled shop personnel. Working as a team, our people continually explore new ways to better serve our customers. Product quality, dependability, and innovation are all part of the Fairbanks Nijhuis commitment to excellence.



3601 FAIRBANKS AVENUE, KANSAS CITY, KANSAS 66106 www.FairbanksNijhuis.com

Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice.
FM-02-1507 03/27/18 © 2018 Pentair plc. All Rights Reserved.