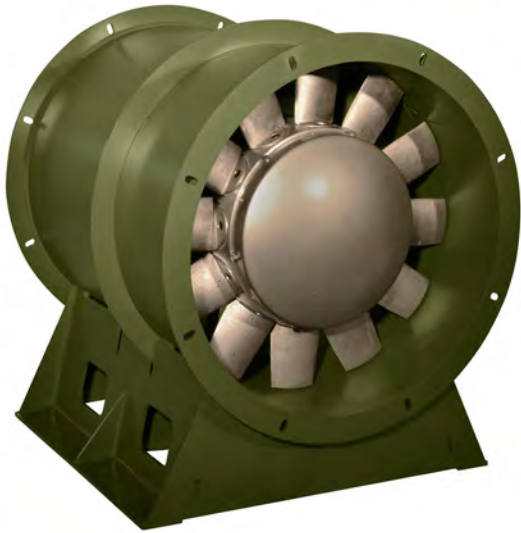


VANEAXIAL ADJUSTABLE PITCH (VXAP) FAN



Arrangement 4-M VXAP fan
with flanged inlet and outlet.



Arrangement 4-M VXAP fan
with inlet damper and
manually locking quadrant.



THE NEW YORK BLOWER COMPANY
7660 Quincy Street
Willowbrook, IL 60527-5530

Visit us on the Web: <http://www.nyb.com>
Phone: (800) 208-7918 Email: nyb@nyb.com

APPLICATIONS

The Vaneaxial Adjustable Pitch Fans are designed and constructed for high-pressure applications found in heavy industrial-process applications such as air-assisted flares, combustion air, process supply and exhaust. Adjustable pitch design conveniently allows for performance adjustments when fan is at rest without the need for adjustable speed controllers or V-Belt drive systems.

DESIGN FEATURES

- Fourteen sizes...21" to 84" wheel diameters
- Three Hub Ratios 0.45, 0.54, and 0.60
- Pressures to 25" WG
- Capacities from 3,000 to 400,000 CFM
- Total Efficiencies beyond 70%
- Adjustable blade pitch at rest
- Full and half bladed design

CONSTRUCTION FEATURES & ACCESSORIES

Welded construction - heavy-gauge welded components provide structural strength and durability for extended service life in a wide range of industrial process applications.

Wheel Design - airfoil shaped adjustable pitch cast aluminum blades with aerodynamic shaped nose cone for high efficiency operation.

Precision balancing - all adjustable pitch wheels are dynamically balanced before final assembly. After assembly, all fans are fine-tune balanced on rigid test fixture at the specified running speed.

Finish - industrial grade paint system consisting of nyb green air-dried enamel

1. INLET BELL WITH GUARD

Inlet bell minimizes losses associated with non-ducted inlet applications. Includes wire guard.

2. SAFETY EQUIPMENT

Inlet and outlet guards are available. Selection of the appropriate safety accessories is the responsibility of the system designer familiar with the specific installation.

3. COMPANION FLANGES

Fit flush with fan inlet and outlet flanges, provided with matching hole pattern.

4. DRAIN

For horizontal mount fan drain located at the lowest point of the housing tube.

5. MOTOR

A wide-array of motors are available factory-mounted by nyb.

6. INLET DAMPER

Bolt-on vortex damper assembly provides volume control...for modulating systems...electric and pneumatic damper operators (with or without controllers) are also available.

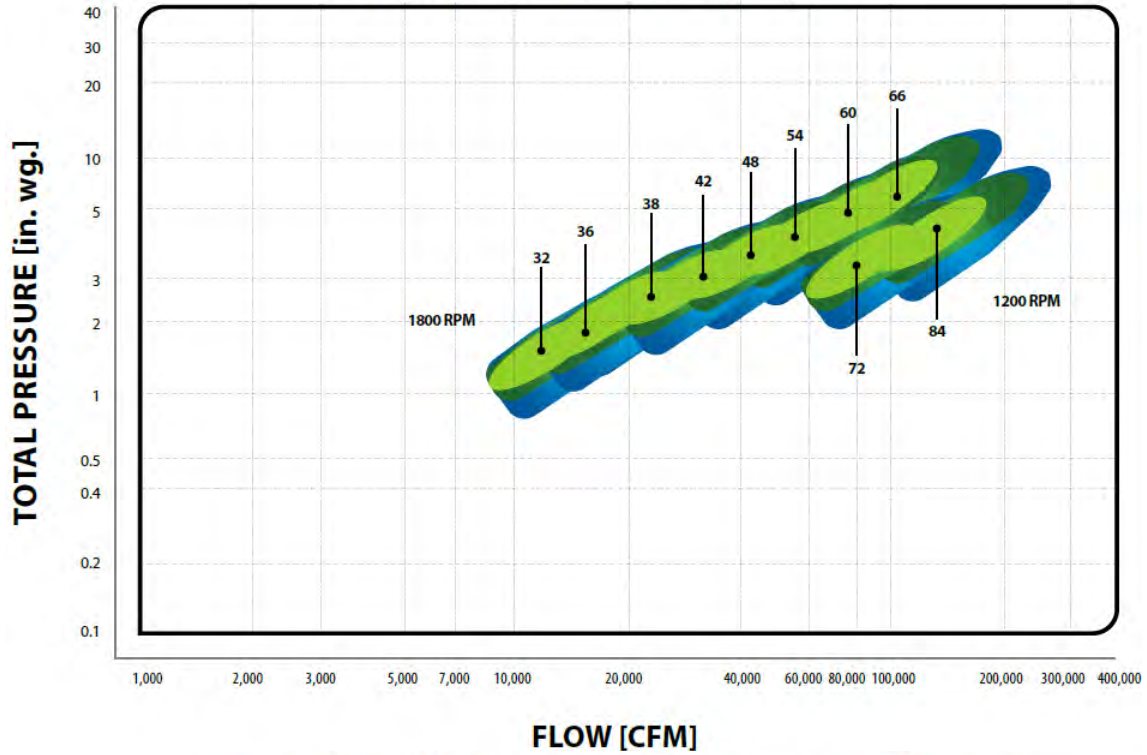
7. SILENCER

Two silencer lengths are available for all Vaneaxial Adjustable Pitch Fans to better match sound attenuation parameters for either inlet or outlet applications.

VXAP SELECTION

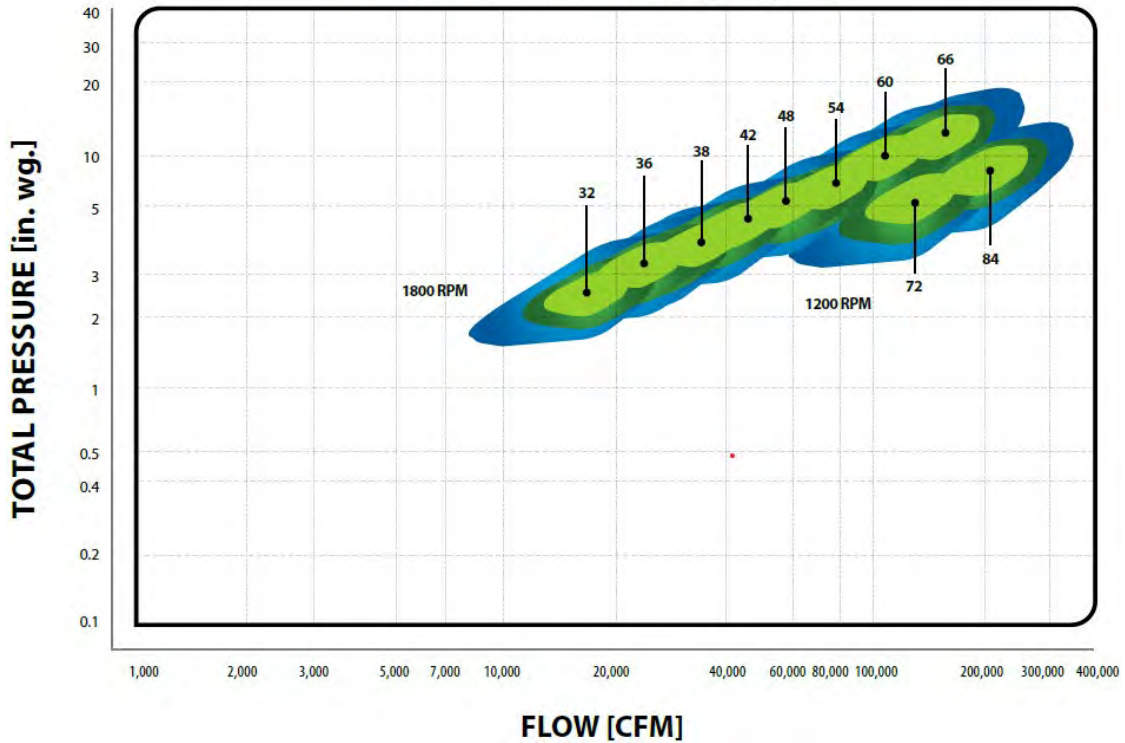
Total Efficiency Contour Chart

.45 HUB RATIO Half Solidity Imperial



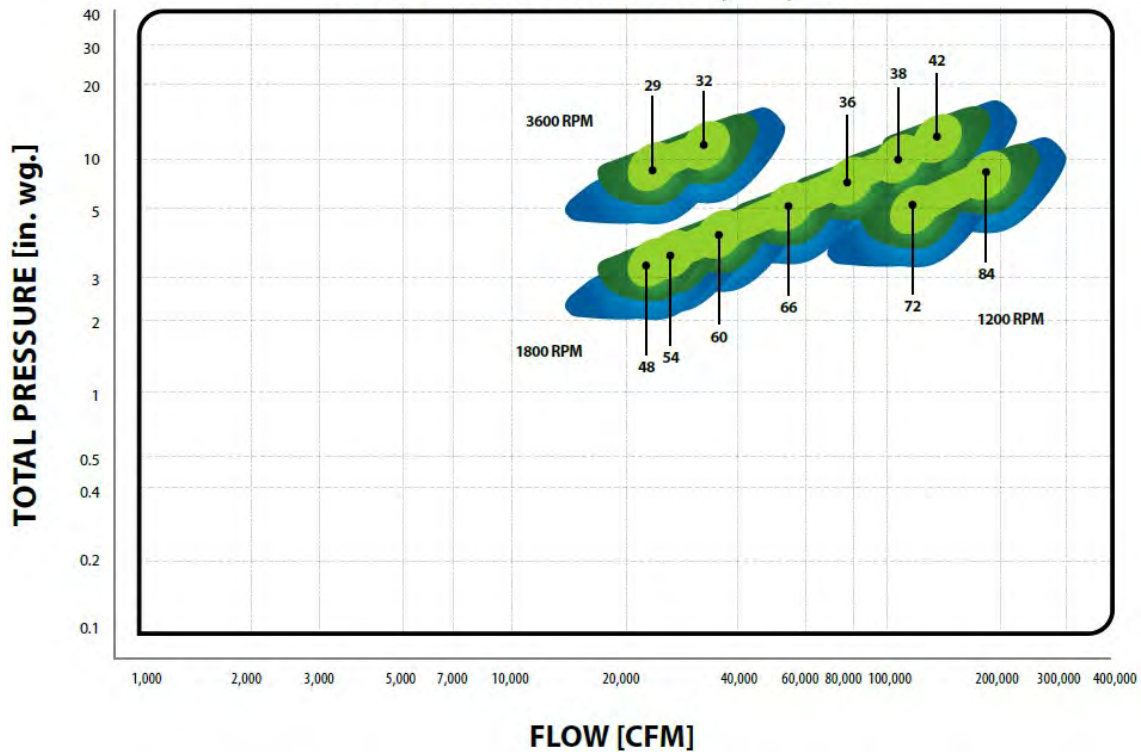
Total Efficiency Contour Chart

.45 HUB RATIO Full Solidity Imperial



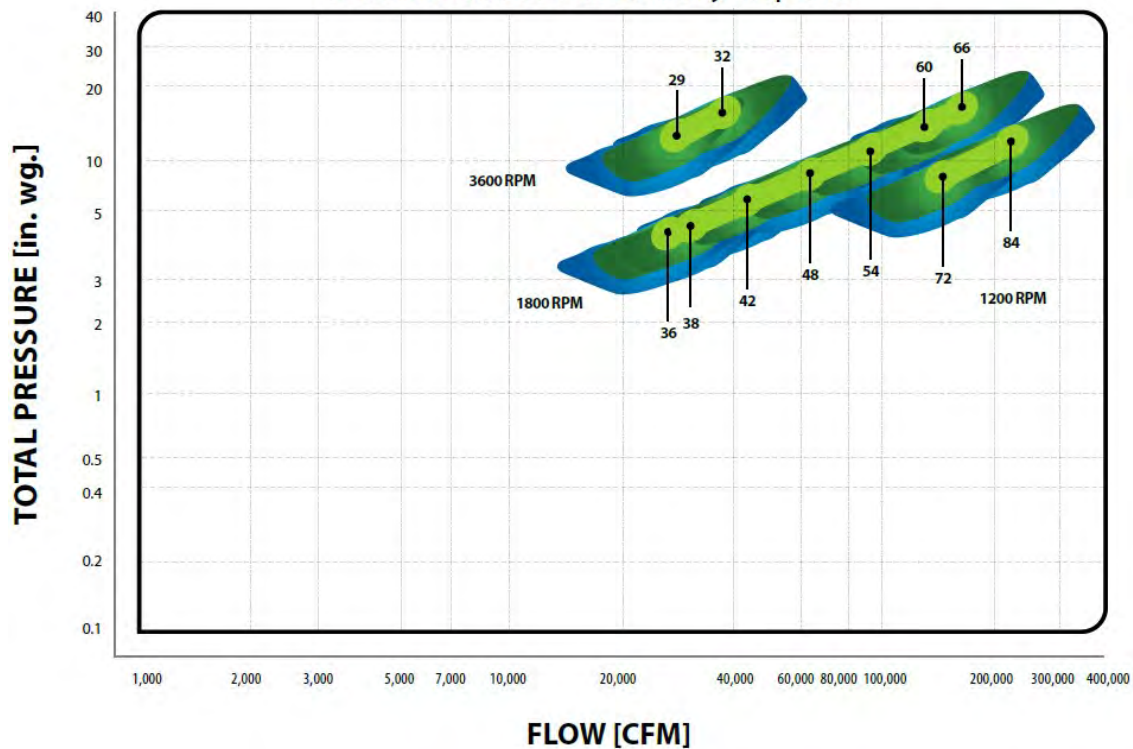
Total Efficiency Contour Chart

.54 HUB RATIO Half Solidity Imperial



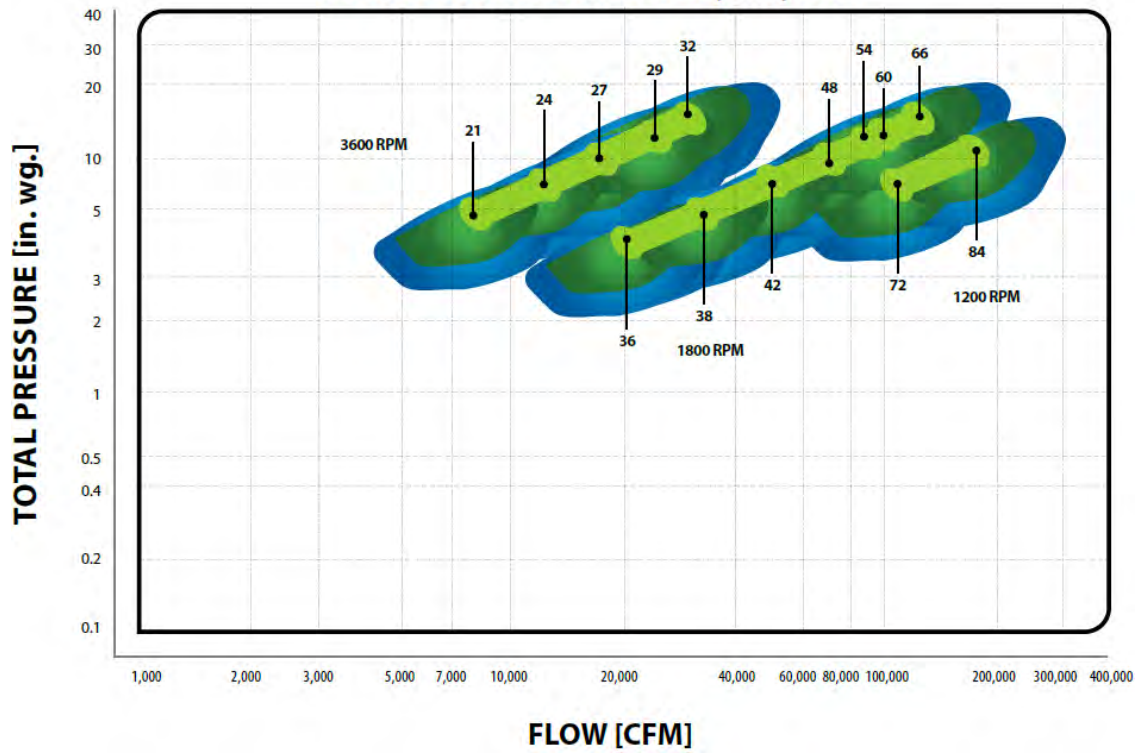
Total Efficiency Contour Chart

.54 HUB RATIO Full Solidity Imperial



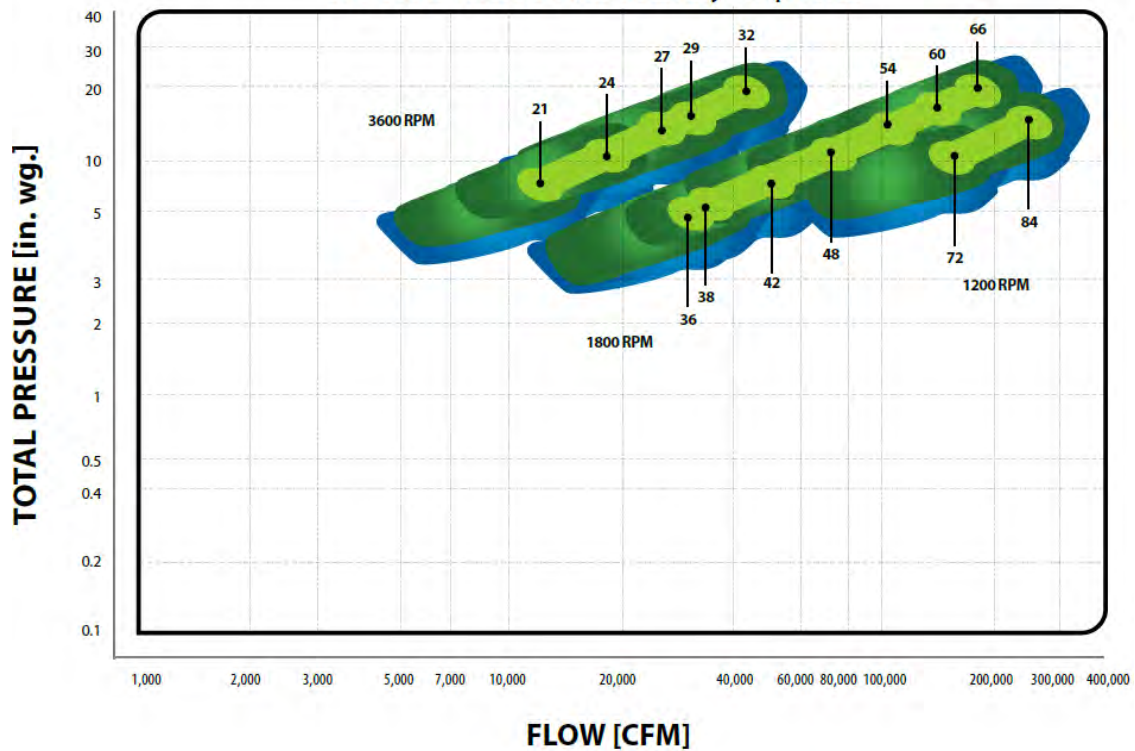
Total Efficiency Contour Chart

.60 HUB RATIO Half Solidity Imperial



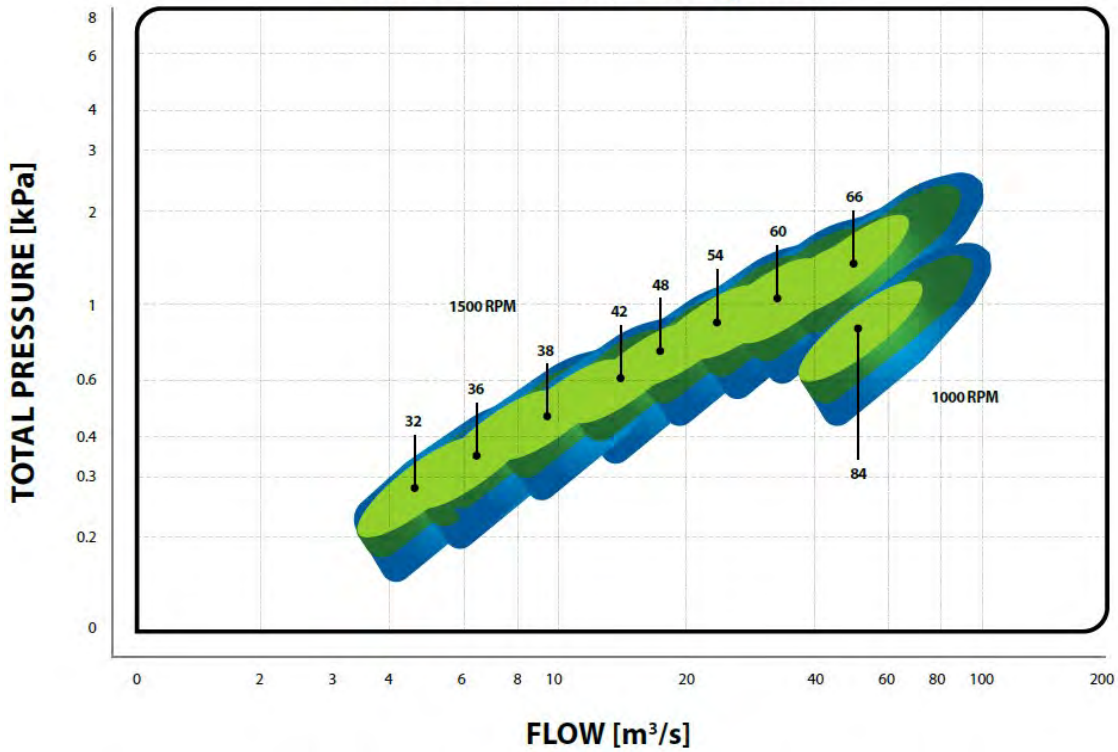
Total Efficiency Contour Chart

.60 HUB RATIO Full Solidity Imperial



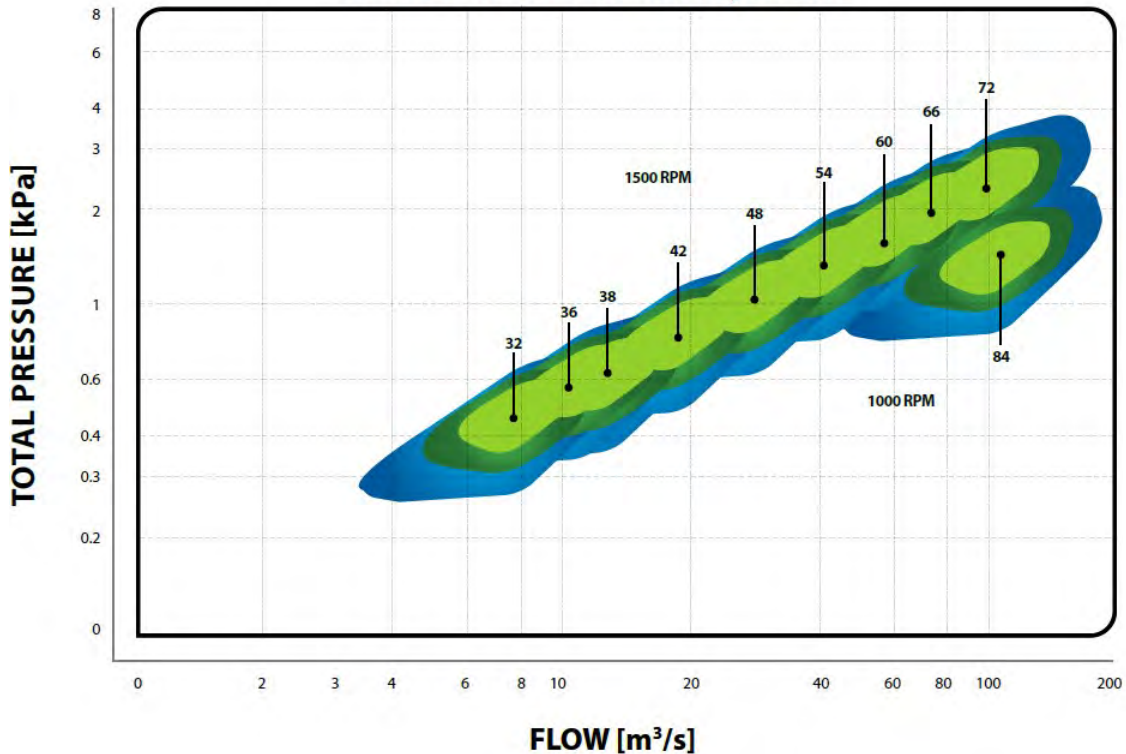
Total Efficiency Contour Chart

.45 HUB RATIO Half Solidity Metric



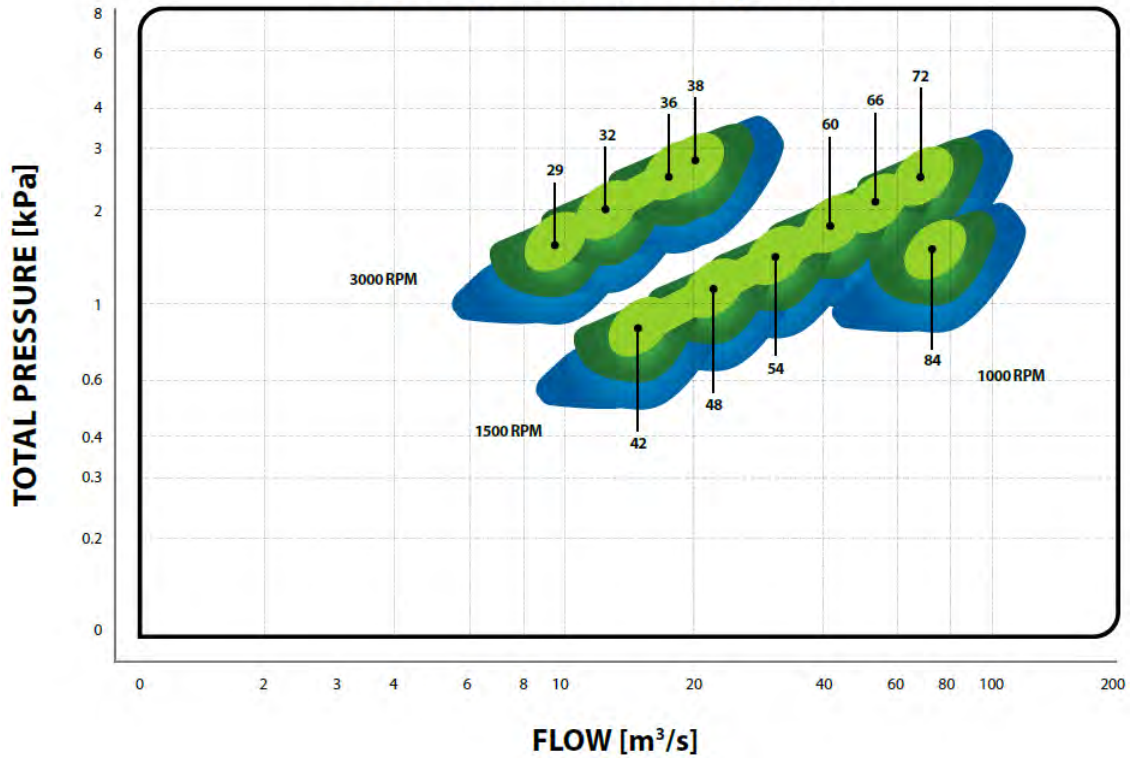
Total Efficiency Contour Chart

.45 HUB RATIO Full Solidity Metric



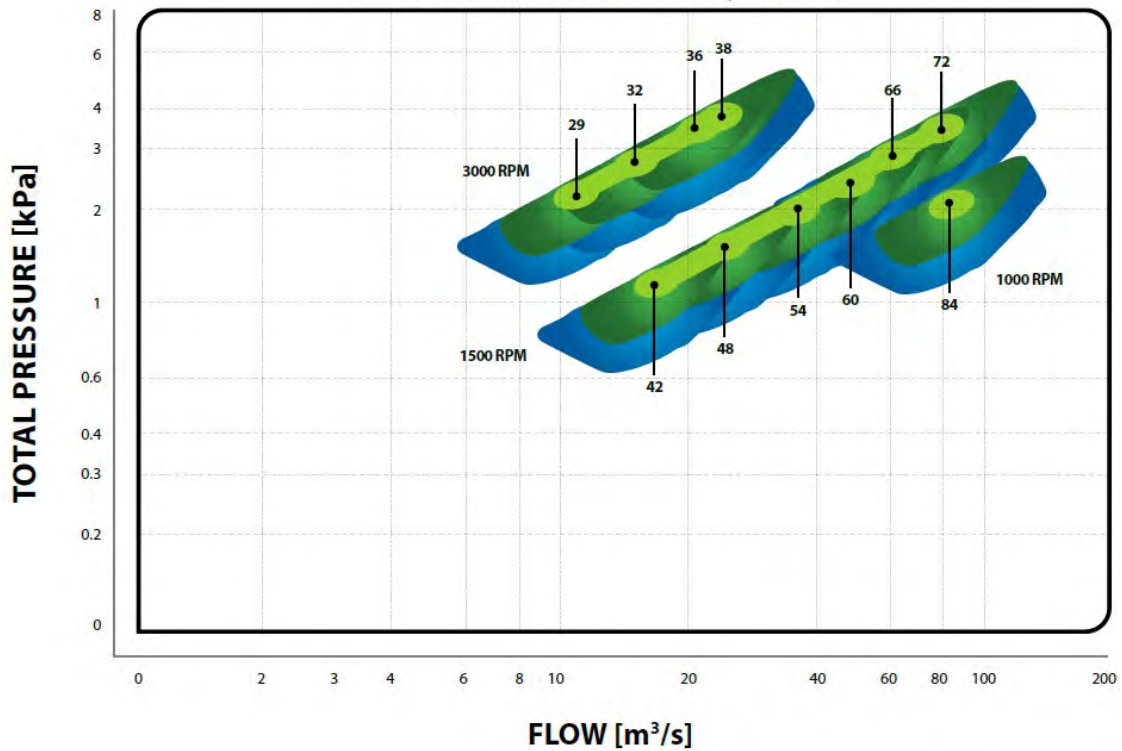
Total Efficiency Contour Chart

.54 HUB RATIO Half Solidity Metric



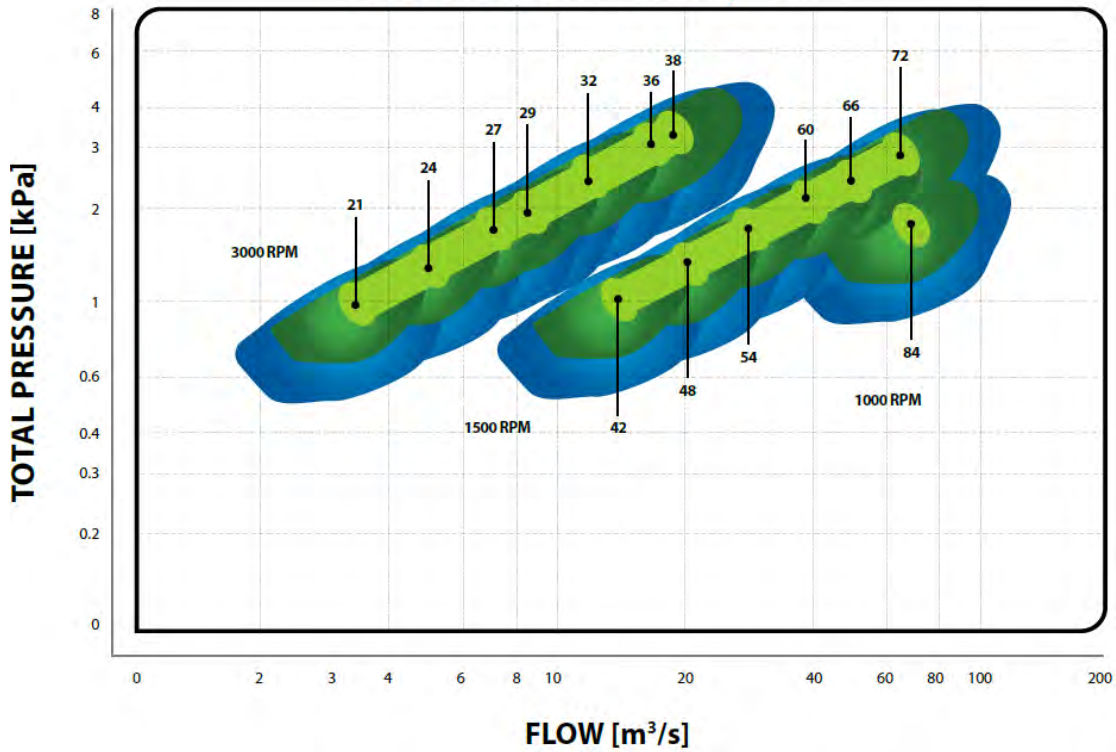
Total Efficiency Contour Chart

.54 HUB RATIO Full Solidity Metric



Total Efficiency Contour Chart

.60 HUB RATIO Half Solidity Metric



Total Efficiency Contour Chart

.60 HUB RATIO Full Solidity Metric

