

# Drop-in 3196 i-FRAME® for Worthington CNG Pumps

## Custom Drop-in Replacement

Do you have Worthington CNG pumps in your plant? Are you looking for parts for these obsolete pumps? ITT Goulds Pumps has a drop-in solution for you.

The Worthington CNG model was used extensively in Paper Mills and Chemical Plants in the U.S.A and Canada. The popular model was in Worthite, a version of alloy 20 and it was a versatile and inexpensive solution to many pumping requirements.

The CNG is now obsolete and parts are expensive and difficult to find.



### ITT Response:

Using the 3196 i-FRAME® ANSI pump model, ITT Goulds Pumps has developed a replacement pump to fit the CNG nozzle location. The hydraulic coverage of the 3196 i-FRAME model meets or exceeds the performance of the CNG pump.

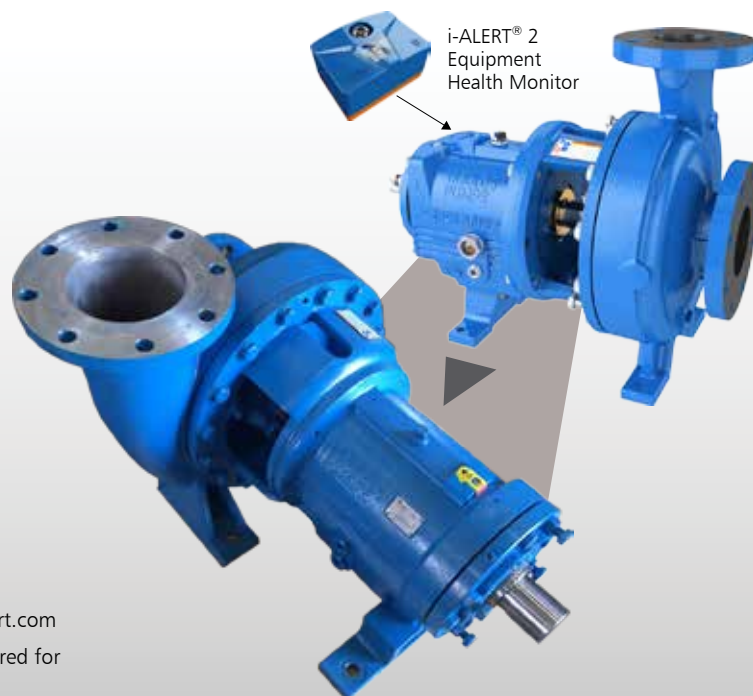
Current availability is limited to the 3CNG104, 4CNG104 and the 6CNG104. More sizes will be available as needed.

The replacement pump comes with ITT Goulds Pumps' innovative i-ALERT® 2 Equipment Health Monitor\*. It is a Bluetooth Smart-enabled machine health monitor that allows you to identify potential equipment problems before they become costly failures. It tracks vibration, temperature and run-time hours and wirelessly syncs the data with a smartphone or tablet through the i-ALERT 2 mobile app.

### Scope of Proposed Solution:

The solution of the 3196 i-FRAME® drop-in includes current production 3196 in CD4 and fits directly to the nozzles of the CNG in their current location. This solution provides many benefits:

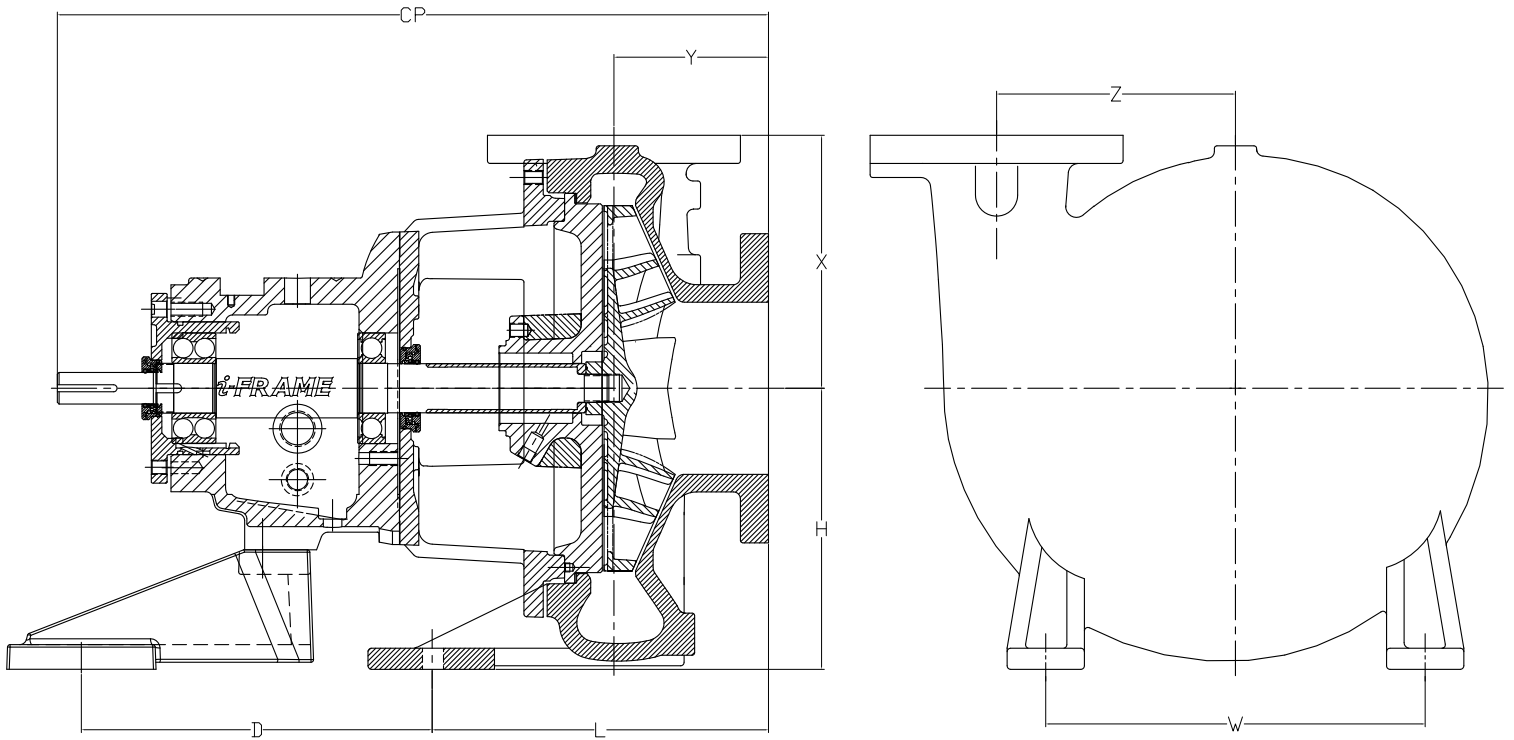
- Multiple hydraulic options for each size.
- Shorter lead-time for pumps and parts.
- Interchangeable parts. With the exception of the casing\*\* and frame foot, the impeller and the entire back-pullout assembly are genuine 3196 i-FRAME components that are in stock at multiple facilities worldwide.
- Re-uses existing motor, no rewiring necessary.
- Re-uses existing baseplate, no concrete or grouting work required.
- The recognized performance and quality of Goulds 3196 i-FRAME and carry the full ITT Goulds Pumps i-FRAME 5-year warranty.
- Easy to renew pump performance. Simply adjust impeller clearance with genuine Goulds i-Frame.



\* For more information on the i-ALERT® 2 Equipment health monitor: [www.i-alert.com](http://www.i-alert.com)

\*\* Standard 3196 shaft for the 3CNG and 4CNG sizes. Non-standard shaft required for 6CNG size.

# Dimensions



**CNG DROP IN REPLACEMENT DIMENSIONS**

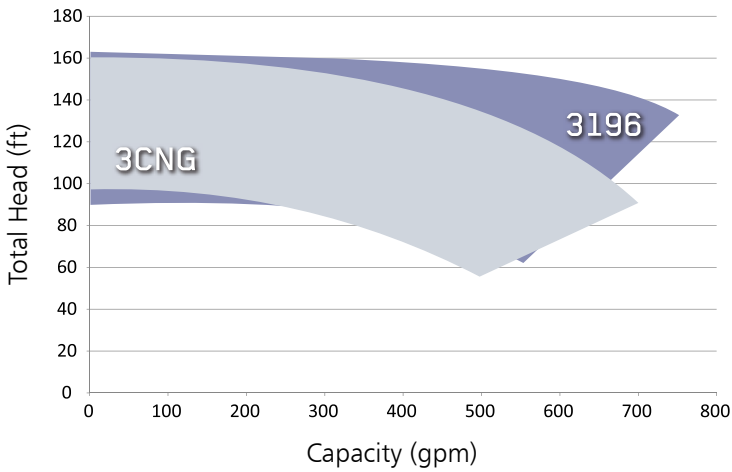
Pump Size	Pump to Replace	Suct. Size	Disch. Size	CP	D	H	L	W	X	Y	Z
3x4-13	3CNG-104	4	3	23.875	10.410	9.000	9.880	10.500	8.750	4.375	7.500
4x6-13	4CNG-104	6	4	25.000	12.500	10.000	11.938	13.500	9.000	5.500	8.500
6x6-12	6CNG-104	6	6	32.063	12.500	10.000	12.250	13.500	9.000	6.313	8.750

Note: data in inches

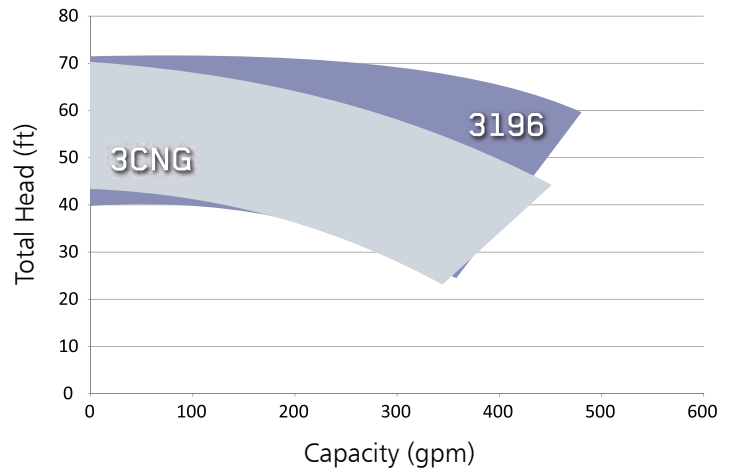


# Hydraulic Charts

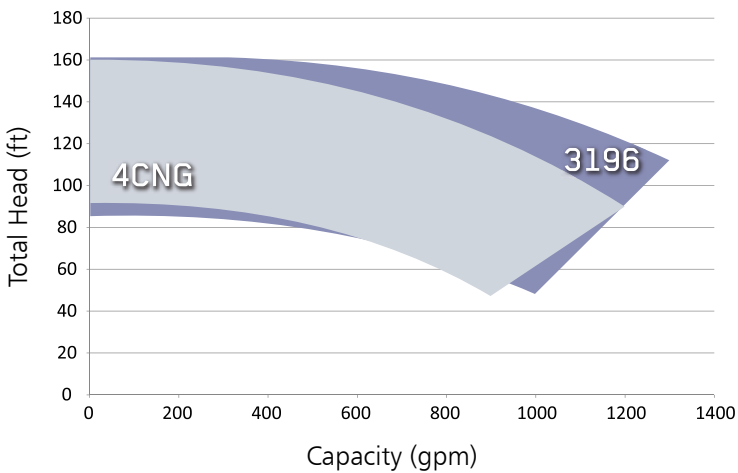
3CNG104 performance vs. 3x4-13 3196 performance at 1800 rpm



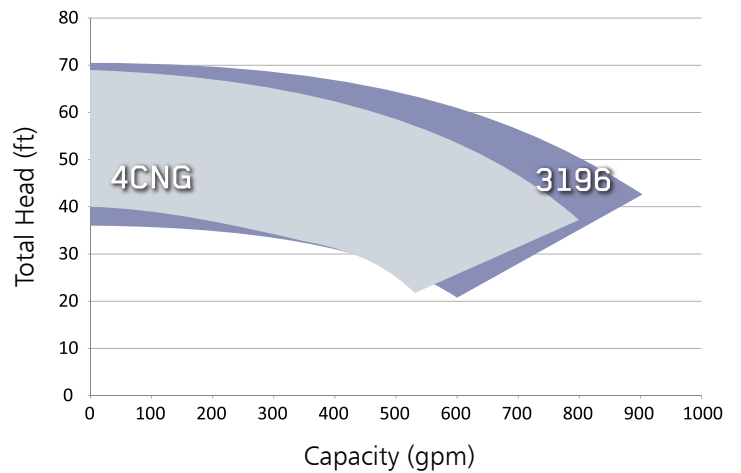
3CNG104 performance vs. 3x4-13 3196 performance at 1200 rpm



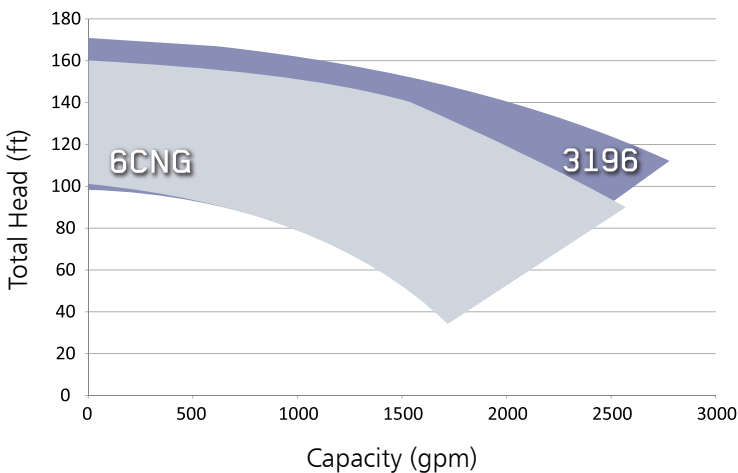
4CNG104 performance vs. 4x6-13 3196 performance at 1800 rpm



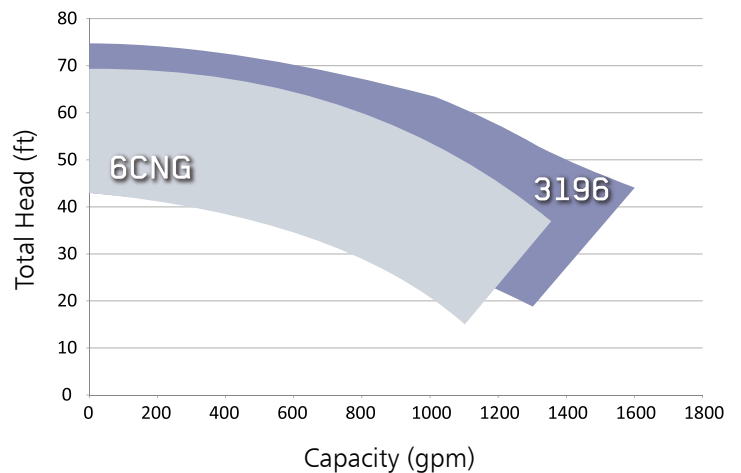
4CNG104 performance vs. 4x6-13 3196 performance at 1200 rpm



6CNG104 performance vs. 6x8-13 3196 performance at 1800 rpm



6CNG104 performance vs. 6x8-13 3196 performance at 1200 rpm



PRO Services has the experts to get the job done right. Each delivering the same passion and expertise we've put into manufacturing Goulds Pumps and Bornemann Pumps products and parts for more than 170 years. And we service every brand of pump and rotating equipment. Our service capability extends to 24 hours/day, 7 days/week, 365 days/year. Certified ISO 9001:2008 repair facility insuring the highest quality levels. Whether you need parts, repairs, upgrades, reliability services, condition monitoring or any other life cycle service, all you need to do is call your PRO Services representative. [www.ittproservices.com](http://www.ittproservices.com)



**PRO**  
**services**

— An ITT Brand

240 Fall Street  
Seneca Falls, NY 13148  
Phone: 315.568.2811  
Fax: 315.568.2418  
[www.ittproservices.com](http://www.ittproservices.com)