

Bragging Writes

How We Make It Work Better

A case study presented by: **MGNewell**



One of our large Biotech customers recently expanded its production capacity. To do so, a new facility needed to be constructed. As is often the case when large manufacturing suites are built, equipment for the new facility was fabricated by many different vendors from various parts of the country. Being that so many different OEM's are involved, one of the main challenges during this process for the customer is to maintain uniformity of individual components within the larger pieces of modular and skidded equipment.



About the Author:

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Before any fabrication began, MG Newell worked with the selected engineering firm in developing a specification for the positive displacement pumps used on all equipment being provided regardless of point of origin or manufacturer. A single pump manufacturer and model was selected and detailed pump characteristics were specified for all skidded and stick built equipment and systems.

Once the customer received and had installed all equipment, every pump was inspected and every pump serial number was recorded. A bill of material for every pump was pulled from factory records and put into a spreadsheet. Attributes listed and compared in the spreadsheet were materials of construction, pump orientation, surface finish, internal clearances, seal configurations and documentation requirements.

Waukesha Pumps By Type

Location	Model #	Serial #	Mount	Drive Shaft	Case Drain	Outlet Size	Seal Type
Buffer 1	006 U2	6401642E	side	right hand	N/A	1" TC	single, sicvs. sicw/flush
line 1	015 U2	6401643E	side	right hand	N/A	1" TC	single, sicvs. sicw/flush
line 1	015 U2	6401644E	side	right hand	N/A	1" TC	single, sicvs. sicw/flush
line 2	015 U2	6401645E	top	left hand	yes	1" TC	single, sicvs. sicw/flush
line 2	015 U2	6401646E	side	left hand	N/A	1" TC	single, sicvs. sicw/flush
Media 1	045 U2	6401647E	side	right hand	N/A	2" TC	single, sicvs. sicw/flush
Media 2	045 U2	6401648E	side	right hand	N/A	2" TC	single, sicvs. sicw/flush
Buffer	045 U2	6401649E	side	right hand	N/A	2" TC	single, sicvs. sicw/flush
Buffer	045 U2	6401650E	side	right hand	N/A	2" TC	single, sicvs. sicw/flush
Buffer	045 U2	6401651E	side	right hand	N/A	2" TC	single, sicvs. sicw/flush

This insures that the bill of material from the factory matches exactly what is installed in the field, and also allows the comparison of each pump to every other pump being used in the customer's process. The comparison and uniformity of these items greatly aids in the generation of spare parts to support production activities and promotes familiarity to maintenance personnel. In many of the cases, it was determined to stock one or two entire spare pumps to support many identical pumps in different services in the field. This way, should a problem arise with an existing pump, an entire spare pump can be dropped into place, and the original pump can be removed and repaired in a controlled environment while the production equipment is back up and running. Making it work better? You be the judge.

Respectfully Submitted,

M.G. NEWELL CORPORATION

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