Bray Quality Management Program
Is the Product Received the Product You Purchased?

Today, valves and actuators are manufactured worldwide with many simply “Brand Labeled” for sale by non-manufacturing suppliers. Quality Assurance programs have long existed for foundries and machine shops of professional manufacturers, but are often non-existent for those companies selling “Brand Labeled” products. Quite often this absence of a quality assurance program by non-manufacturing companies results in materials, finished parts and assemblies which are not in compliance with the specifications. As a result it has become increasingly more difficult for the customer to be assured they have received the material and quality product which has been specified.

Product liability and performance is directly related to the product quality and a major concern of any customer who must have the assurance they are receiving products with the material and quality level that meet their requirements.

Bray International understands that to be truly successful worldwide, we must provide assurance to our customers that they are indeed receiving the highest quality product. With this in mind, Bray has established a Quality Assurance Program worldwide based on state-of-the-art technology and procedures in material and product testing.

This brochure provides an overview of Bray International’s Quality Assurance Program utilized worldwide to provide products and services that meet our customer requirements.

Bray’s Commitment to Quality

Bray International recognizes that “our success is totally dependent upon our customers” and they have a choice of many manufacturers when selecting valves, actuators and accessories for their applications. Since most manufacturers have access to providing the same materials of construction for these products, Bray believes that the customer’s purchase of products is heavily based on the following key factors:

- Trust in the Manufacturer
- Confidence in the Quality Assurance and Integrity of the Manufacturer
- Quality, Features and Benefits of the Product
- Delivery
- Field Service
- Price

Bray International recognizes that in today’s global environment the products offered must meet or exceed the quality standards required by the customer. It is with this understanding Bray has made a continuous commitment to providing the highest quality in the industry worldwide. Whether the customer purchases the product from Bray USA, Bray China or any Bray division worldwide, they will have the assurance the products are produced under the same “Bray Quality Assurance Program”. As a result, Bray International has become the leading manufacturer of butterfly valves, ball valves, check valves, quarter-turn actuators and accessories in the world.

Product Testing

- Valve Testing - All Bray valves are pressure tested to 110% of rated pressure to assure bubble-tight shutoff.
- Actuator Testing - All actuators are calibrated and cycle tested before shipment. Pneumatic actuators are also pressure tested to assure no leakage.
- Material Traceability - Material certifications can be provided upon request for all valve pressure containing and valve pressure retaining components.
- Positive Material Identification (PMI) – As required by PED, materials are subjected to PMI testing to verify material traceability certificates.

Material Testing

Bray’s Mechanical testing labs are equipped with fully calibrated equipment in accordance with International and NIST requirements for testing and verifying chemical and physical properties of a wide variety of materials.

Receiving Inspection:

Positive Material Identification (PMI) Performed at Receiving Inspection.

Magnetic Particle Tester (MP)

Magnetic Particle testing is carried out in accordance with ASME Section V Article 7 and ASTM E 709.
Quality Policy

“By performing and monitoring our activities as specified within our documented Quality System, we will continue to improve our products, processes and services while meeting or exceeding our customer’s expectations.”

Precision Test Samples

Cast Bars with full traceability to heat numbers

Precision machined test bars in accordance with ASTM A-370

Tensile Testing


Computerized Tensile Test Equipment

Profiling of test bars prior to tensile testing
Quality Objective
“Bray has made a continuous commitment to providing the highest quality in the industry worldwide.”

Chemical Analysis

Vickers Hardness Testing

Test Results
Bray Material Test Report showing chemical and mechanical results. These results are verified against the foundry supplied EN 10204 3.1 Certificates.

Sample Name: Test Bar
Supplier: YL
Standard No: ASTM A351/A351M-14 CF8M
Sample No.: B31651


Vickers Hardness Testing

Test Results
Bray Material Test Report showing chemical and mechanical results. These results are verified against the foundry supplied EN 10204 3.1 Certificates.

All Bray valves are manufactured and certified to PED, and certified material test reports of all required valve components are maintained on file.
Third Party Certificates and Product Approvals
The basis for Bray International’s high level of quality assurance are the quality control guidelines and procedures submitted, reviewed and approved in accordance with criteria established within ISO 9001 and EU Directives.

Nuclear “N” Stamp Certification
The Certificate of Authorization from the American Society of Mechanical Engineers (ASME) authorizes Bray to use the N-stamp symbol. The N-stamp can be applied by Bray Controls China to Class 2 & 3 valves constructed in its Hangzhou facility, which meet the requirements of the ASME Boiler and Pressure Vessel Code.

Fire-Safe
API 607, EN10497, US Navy NAVSEA Certified
Bray double and triple offset design valves meet or exceed the latest international fire test requirements.

PED (Pressure Equipment Directive)
PED, which includes valves and fluid pressured actuators, requires that all equipment within its scope must not only be safe for the applicable pressures but manufactured of the materials specified by the customers.

NSF (National Sanitation Foundation)
Bray EPDM seated/Nylon 11 encapsulated ductile iron disc valves are NSF approved for use in potable water service.

SIL (Safety Integrity Level)
Bray Tri Lok
Bray/McCannalok
Series 92/93 Pneumatic Actuators
Series 98 Scotch Yoke Actuators
Flow-Tek Ball Valves

Marine Certifications
ABS - American Bureau of Shipping
DNV - Det Norske Veritas
CCS - China Classification Society
Bray Controls is certified to ISO 9001 standards.

All statements, technical information, and recommendations in this bulletin are for general use only. Consult Bray representatives or factory for the specific requirements and material selection for your intended application. The right to change or modify product design or product without prior notice is reserved. Patents issued and applied for worldwide.

Bray® is a registered trademark of BRAY INTERNATIONAL, Inc.
© 2015 Bray International. All rights reserved.
I-5001_EL_Quality_2015-10