

Swagelok Company 29500 Solon Rd Solon, OH 44139 U.S.A

440.473.1050 440.519.4997 fax

Certificate of Compliance/Typical Material Certification

| Distri | ibutor | | Customer | | Customer PO# | |
|--|-------------|-----|----------|--|--------------|--|
| BEST Fluidsysteme GmbH Hamburg Vor Dem Hassel 3 21438 Brackel Deutschland | | | | | | |
| No. | Part Number | Qty | | | | |
| 1 | SS-12M0-6 | 12 | | | | |

Swagelok products referenced above are manufactured from material purchased and certified as being in accordance with the specification(s) listed.

This certification does not include such components as snap rings, springs, balls, o-rings, gaskets, jam nuts, space collars, seals, locking dogs, lanyards, or sleeves.

Stainless Steel Barstock material has passed the Intergranular Corrosion Test requirements of ASTM A-262 Practice A or E.

All parts were cleaned and packaged in accordance with Swagelok Specifications.

Typical mechanical and/or chemical analysis of the material used in the manufacture of the Swagelok products involved are listed below. These values are average values determined from a sample of certified material test reports. Actual values for a material heat may vary from those indicated.

MATERIAL STANDARDS

| Components | Material | Standards |
|-------------------|-------------------------------|----------------------------------|
| Shaped Fittings | F316 Stainless Steel Forgings | ASTM A182, ASME SA182 |
| Straight Fittings | 316 Stainless Steel Bar | ASTM A276, ASTM A479, ASME SA479 |

MECHANICAL PROPERTIES

| MECHANICAL PROPERTIES | | | | | | | | | | | |
|------------------------|----------------|------|------------------|-------|------------|-------|--------|----------|------|--|--|
| | Yield Strength | | Tensile Strength | | Elongation | | % Red. | | | | |
| Components / Materials | (ksi/MPa) | | (ksi/MPa) | | (%) | | Area | Hardness | | | |
| Shaped Fittings | 48/331 | | 90/62 | 21 | 61 | | 76 | | | | |
| Straight Fittings | 93/641 | | 108/745 | | 36 | | 73 | HRC 22 | | | |
| CHEMICAL ANALYSIS | | | | | | | | | | | |
| Components / Materials | C Cr | Mn | Mo | Ν | Ni | Р | S | Si | Co | | |
| Shaped Fittings 0. | 043 17.16 | 1.57 | 2.09 | 0.042 | 12.23 | 0.028 | 0.025 | 0.60 | | | |
| Straight Fittings 0. | 040 17.51 | 1.71 | 2.27 | 0.037 | 12.19 | 0.029 | 0.025 | 0.60 | 0.23 | | |

The Swagelok product specified above were manufactured in accordance with Swagelok Company's Quality Assurance Manual (latest revision, revision D, dated December 16, 2002). Swagelok Company's Quality System is approved to ISO 9001 (BSI Certificate # FM01729).

Carl Meece

Vice President of Engineering

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