FI-CF2

Pipe attachment Rc1-1/2 for FI-C40F

*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

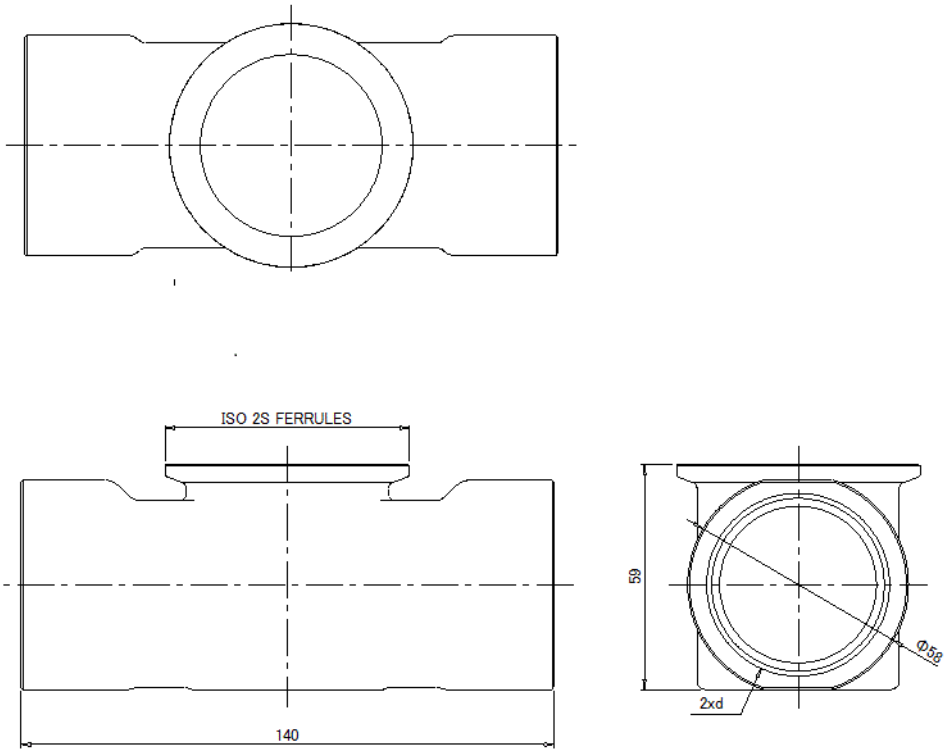
Model		FI-CF2
Type		Pipe type
Main unit		FI-C40F
Detection principle		Refractive index (surface light source)
Rated concentration range		Brix: 0–40% (nD: 1.32500–1.41000)
Display method		Status indicator light
Display range		Brix: 0–50%
Supported fluids		Non-corrosive aqueous solutions (such as water-soluble coolants, mold release agents, etc.)*1
Supported fluid temperature		0–70°C 32–158°F (no freezing)
Connection diameter		Rc1 1/2 (40A)
Rated pressure range		1.0 MPa or less
Pressure resistance		2.0 MPa
Display resolution		Brix: 0.01/0.1% (default value: 0.1) (nD: 0.00001)
Response time		1.0 s / 2.5 s / 5.0 s / 10.0 s / 30.0 s / 60.0 s / 120.0 s / 200.0 s
Measurement accuracy		Brix: ±0.2%*2*3 (nD: ±0.0003)
Concentration unit		Brix nD*4
Temperature measurement accuracy		±1.0°C 1.8°F*2
Power supply	Current consumption	25 mA or less
Environmental resistance	Enclosure rating	IP65/IP67 (IEC60529)
	Ambient temperature	–10 to +60°C 14 to +140°F (no freezing)
	Relative humidity	35–85% RH (no condensation)
	Vibration resistance	10–500 Hz; Power spectral density: 0.816 G^2/Hz; X, Y and Z directions
	Shock resistance	100 m/s^2 (approx. 10 G), 16 ms pulses, 1000 times each for X, Y and Z directions
Material	Liquid end materials	Body: SCS16A; Gasket: FKM
	Other materials	Body: SUS304; PPS indicator light: PPSU / TPU / PBT Cable: PVC
Weight		Approx. 1360 g 47.97 oz

*1 Use water as the solvent, and use materials that are soluble in water. If the particles are not water soluble, such as with slurry, the refractive index may not change.
*2 This is the guaranteed value from verification performed at KEYENCE inspection facilities. Measurement error may occur depending on the type, condition and temperature of the fluid used by the customer, as well as other factors.
*3 This is the value obtained when sucrose solution is used in a constant 20°C 68°F environment, and absolute error and repeatability is taken into account.
*4 When using solutions other than sucrose solutions, concentration can be adjusted via span adjustment.

Dimensions

* Download CAD file or product manual for larger image/text and more detail.

FI-CF2/CF4



Model	d
FI-CF2	Rc1 1/2
FI-CF4	NPT1 1/2

FI-C40F+FI-CF2/CF4