

The Preferred Choice
www.scco.co.kr



In our age in which, almost daily, new technologies leaded by "fine ceramic" are opening new era which only yesterday would have seemed untouchable dream.

"Fine ceramic is the key to a new era of technology"

At Shinhan Ceramic, our expertise in fine ceramic has allowed us to take the responsibility of opening this new era with advanced technology.

S.C.C®
The Preferred Choice

Advanced technology in fine ceramics!



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 **S.C.C®**
SHINHAN CERAMIC CO., LTD.

The Ceramic Technology

The preferred choice for your future growth: Shinhan Ceramic Co., Ltd.



Products Area

CERAMIC SEAL DISC

ENGINEERING FINE CERAMIC

SILICON CARBIDE (SiC)

CERAMIC CARTRIDGE

HEADWORK CARTRIDGE

THERMOSTATIC CARTRIDGE

The advantage of our products

The raw material selection

The main criteria in selecting the initial materials will be their fitness and their purity, which will contribute to the proper characteristics of the ceramic products.

Quality Control

The quality control data is prepared for all the various items, including Surface roughness, Flatness, Parallelism, Surface contact, Firing operation Pressing operations & Individual inspection etc.

Research & Development

To be world's premier in this field in the 21st century which satisfies the increasing and diverse desire of customers, we concentrate its R&D activities on the process development of high property products.

Future strategy

As a corporations aiming at worlds leading ceramic manufacturer in the 21st century, Shinhan Ceramics Co., Ltd. Will continue to pure high-quality management strategies through bold R&D investment for technological advancement and active globalization drive.

Shinhan Ceramic Co., Ltd. has declared the year 1999 as its first year of second phase for long-term development plan. Continuing its globalization drive, the company is actively participating in technological exchanges and joint ventures with benchmarked corporation in the world.

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New Challenge from Innovation !

Shinhan Ceramic Company S.C.C. innovates itself to be a world top-class special material provider by challenge and innovation.



"Why Choose Shinhan as their Partner?"

Shinhan Ceramic has contributed all its effort to the development of inorganic materials industry since 1993. On the basis of the accumulated inorganic materials technology, knowledge and our advanced materials, Shinhan initiates Fine ceramics, High alumina and Metallized products for various industrial customers.

Shinhan Ceramic Co. Ltd. has been in existence for the short time but its achievements has been remarkable as we now possess high state of confidence in the field of industrial ceramic.

It is our desire to advance into the world's premier fine ceramic manufacturer by responding to the expectations of customers and the need of futures.

We believe that our future rests with making the best even better, and that includes our commitment to customer support and service.

We hope you feel that confident in expanding your future growth with our company and sincerely hope to serve you in the near future.

A detailed information on our company with special focus on this field business is given here for your evaluation.

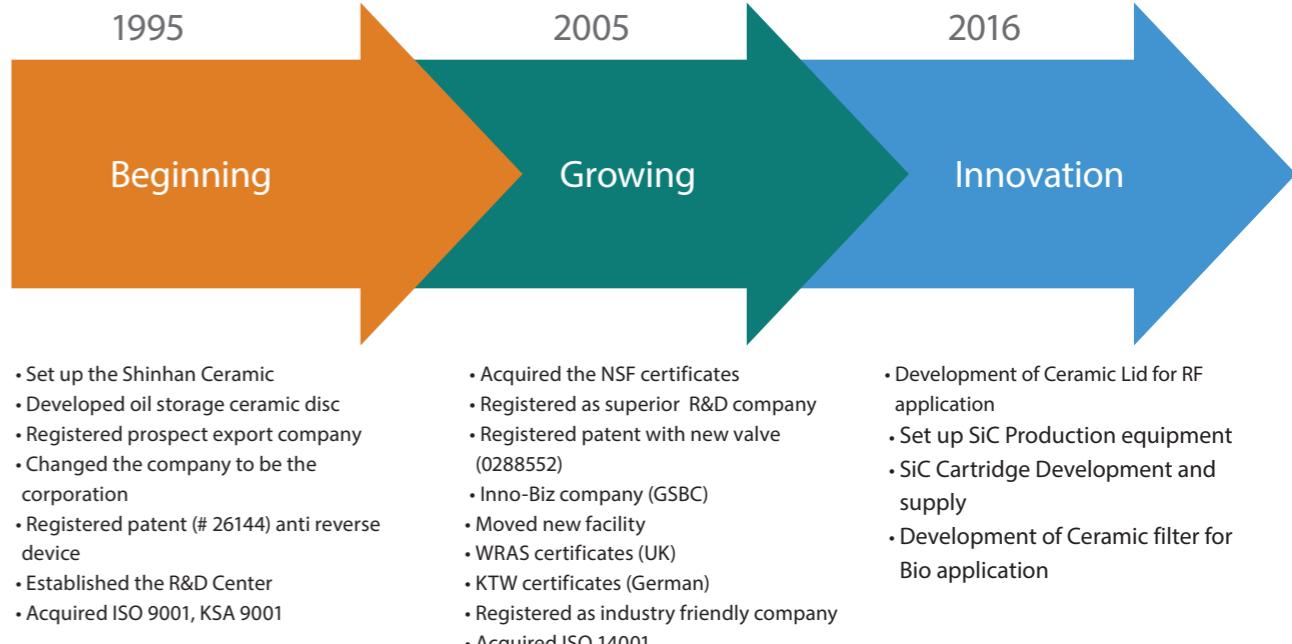
S.C.C. continuously endeavoring to be the best company by world class technology and transparent management.

S.C.C. concentrate Research & Development by continuous challenge mind and creative idea.

S.C.C. who's grown up as a global partner, will make their technology to be world standard as a leading company in ceramic and material provider.

Appreciate of your continuous support and encouragement to S.C.C.

➡➡ Company History



CERAMIC SEAL DISC

S.C.C® ceramic discs work marvelously in the ceramic cartridge for sanitary fittings leaving no trouble more than 500,000 cycles use



S.C.C® seal disc in oxide ceramics show no measurable wear when used on all kinds of lever and mixers with turning mechanism.

Ceramic disc for ceramic cartridge



Exact control and optimum sealing are ensured for 500,000 cycles operation periods due to the chemical inertness and great hardness of the ceramics.

Single lever mixer containing S.C.C® seal disc allows maintenance-free in life time.

Ceramic disc for ceramic headwork



The excellent sliding properties of oxide ceramics are an assurance of trouble-free functioning and good durability

Twin lever mixer containing S.C.C® seal disc shows no measurable wear in using 500,000 cycles.

The properties of ceramic seal disc

Density

Density plays an important role because it is related to the wear. The raw material refined by spray dryer is foamed by multiple foaming press.

Flatness

The permanent flatness and smoothness of the disc faces guarantee an excellent sealing performance.

A special characteristics of S.C.C® Alumina(SP-96) sealing and control discs are pocket-shaped pores in the sealing faces, which act as lubricant reservoirs and guarantee an uniform lubricant film for easy operation.

Operation life

Test proved that even after 500,000 cycles use S.C.C® cartridge found no obstacle in normal function.

Flatness

S.C.C standard Flatness : F≤0.6um



SBA

S.C.C standard range : 50%≤SBA≤80%

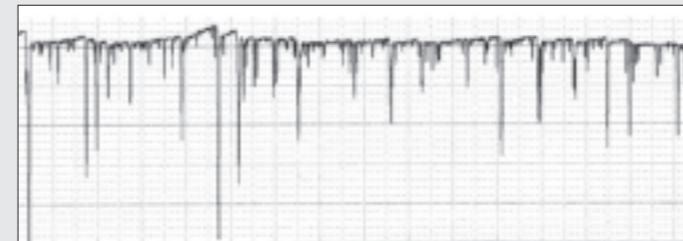


SBA : 64%
Roughness : Ra0.186

SBA : 65%
Roughness : Ra0.154

Roughness

S.C.C standard Roughness : 0.1≤Ra≤0.3



Cut off	0.8mm
Tilt cor	FLAT · ML
Length	4.00mm
V-Mag	10000
H-Mag	50
T-Speed	0.3mm/s
Polarity	Positive
Ra	0.16
Rmax	4.04

Material Properties

		SP-96	SP-99.8
Material	%	Al ₂ O ₃ -96	Al ₂ O ₃ -99.8
Density	g/cm ³	3.72	3.94
Water Absorption	%	0	0
Gas Permeability	%	0	0
Bending Strength	MPa	330	420
Pressure Resistance	MPa	3400	4000
Modulus of Elasticity	GPa	330	390
Hardness HV 10		1100	1680
Surface Roughness Ra	μm	0.2	0.1
Surface Contact Area Ratio t _s (Optically Measured)	%	60≤ t _s ≤80	≥85
Mean Specific Thermal Capacity (20~100°C)	KJ/kgK	0.9	0.9
Thermal Conductivity (20~100°C)	W/mK	24	28
Coefficient of Linear Expansion (20~200°C)	10 ⁻⁶ K ⁻¹	5.4	6
Thermal Shock Resistance Δ T (Depending on Geometry)	°C	250	200

ENGINEERING FINE CERAMIC

Alumina Ceramic are very valuable as electrical materials because of their insulating strength and small dielectric loss.

As industrial awareness of advanced materials increase, the number and variety of application areas of Engineering Fine Ceramic expands rapidly. Shinhan ceramic receives growing demand every year from various industrial fields because Engineering Fine Ceramics have such excellent properties as heat resistance, light weight, insulation and super hardness.

Main Products

- Ceramic tubes • Surge arrester tubes • Metallized products • Shaft & bearing for pump



Shinhan ceramic produces metallized components offering multiple alloy combinations.

Many types of ceramics are amendable to the additions of metallizing coatings.



Some ceramic bodies more readily accept additions than other. The 90~96% Alumina most readily accept any of the refractory metallizing process coatings.



Alumina ceramics are inert and therefore are highly resistant to chemical attack.

In addition, Ceramic is almost unaffected by water, solvents, salt solutions, and molten salt.

The corrosion resistance of high alumina ceramics is generally superior to most metals, plastics.

SILICON CARBIDE (SiC)

SiC cartridge and SiC disc for faucet

SiC Mechanical seal ring

SiC parts for engineering



Valve disc, Sliding bearing, Ball media, Armor plate, Heat sink

SiC ceramics are used for high quality which required of high hardness, high wear resistance, low coefficient of friction, high thermal conductivity, chemical resistance, high strength, etc. Its application is for automobiles, oil chemicals, environments, energies, electric-electronics, mechanics, national defenses, etc.

Property	Unit	Value
Density	g/cm ³	3.11~3.15
Purity	%	99.2
Hardness Hv(0.5)	kg/mm ²	2,450
Flexural Strength	MPa	440
Fracture Toughness	MPam ^{1/2}	3.6
Elastic Modulus	GPa	410
Thermal Expansion Coeff.	10 ⁻⁶ /°C	4.4
Thermal Conductivity	W/mK	115



CERAMIC CARTRIDGE

ECO CARTRIDGE(Energy Saving)

It discourages hot water use in favor of energy saving
It flows out only cold water in the middle of handle

WATER SAVING CARTRIDGE 3-STEP, 2-STEP

SiC CARTRIDGE

Silicon Carbide (SiC) improves the durability of cartridge and have self-lubricative

DLC (Diamond like carbone coated) CARTRIDGE

DLC Coating maintains low torque and inside water pressure endurance in the poor water quality enviroment

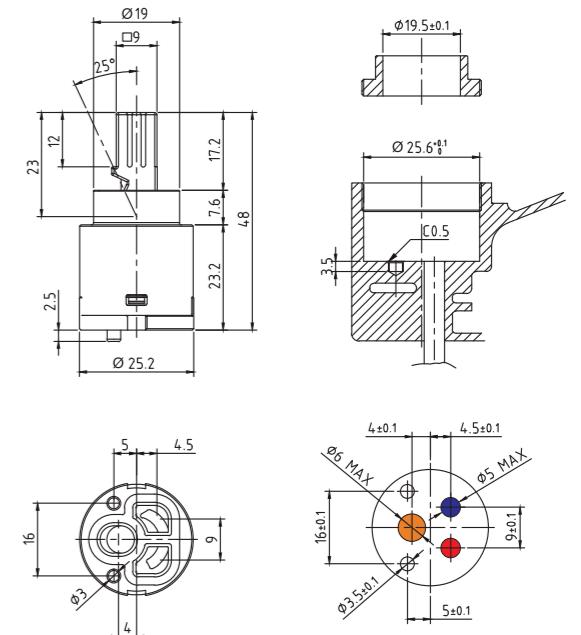
JOYSTICK CARTRIDGE

It applied basic design method of lever innovatively, so it can be adapted to various kinds of faucets

SCC 25SR

25mm Ceramic Cartridge

Dimensions (in mm)

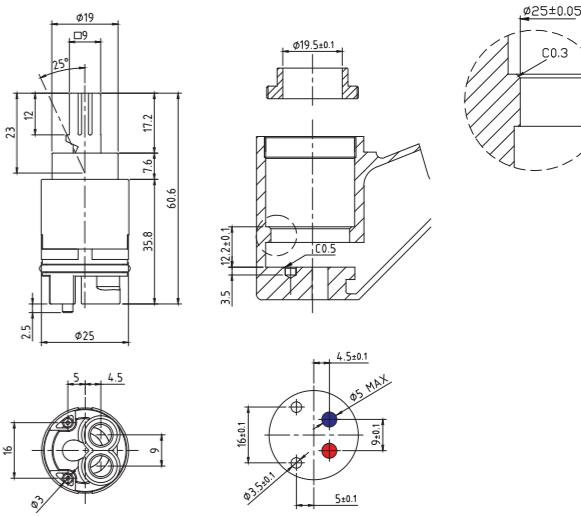


Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	8 ~ 9 Nm
Water Resistance Pressure	Max. 25bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 6.8~7.5 ℓ/min (at 2bar) 8.8~9.4 ℓ/min (at 3bar) 10.5~11.0 ℓ/min
Endurance Test	500,000 cycle

SCC 25SF

25mm Ceramic Cartridge

Dimensions (in mm)



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	8 ~ 9 Nm
Water Resistance Pressure	Max. 25bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 6.8~7.5 ℓ/min (at 2bar) 8.8~9.4 ℓ/min (at 3bar) 10.5~11.0 ℓ/min
Endurance Test	500,000 cycle

S.C.C® CARTRIDGE

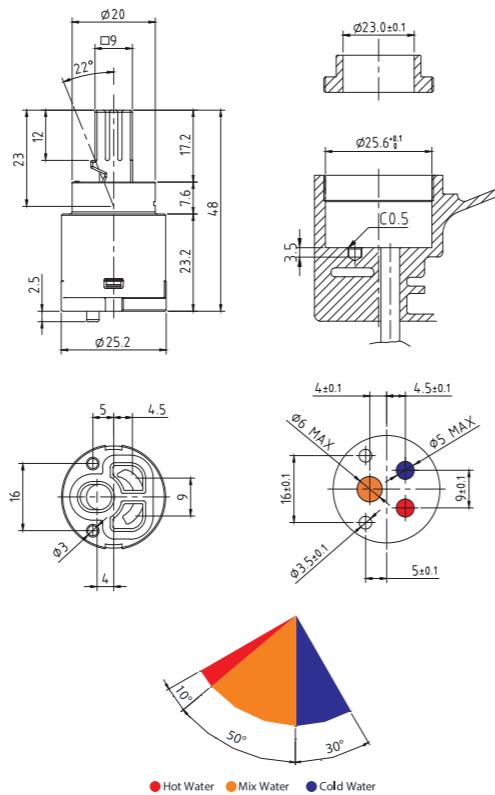
NEW SCC 25ER



Max. Opening Angle	22°
Max. Turning Angle	60°/30°
Nut Torque	8 ~ 9 Nm
Water Resistance Pressure	Max. 25bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 3.0~4.0 l/min (at 2bar) 4.5~5.5 l/min (at 3bar) 5.8~6.6 l/min
Endurance Test	500,000 cycle

25mm Eco Ceramic Cartridge

Dimensions (in mm)



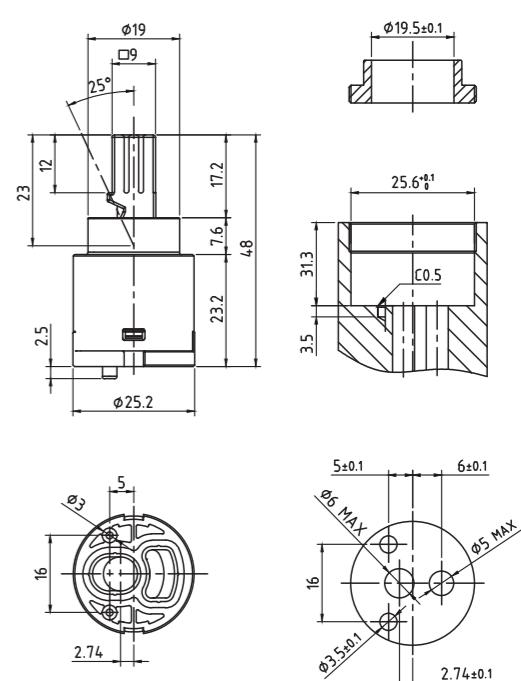
SCC 25NR



Max. Opening Angle	25°
Nut Torque	8 ~ 9 Nm
Water Resistance Pressure	Max. 25bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 9 l/min (at 2bar) 13 l/min (at 3bar) 16 l/min
Endurance Test	500,000 cycle

25mm Ceramic Cartridge(ON/OFF)

Dimensions (in mm)



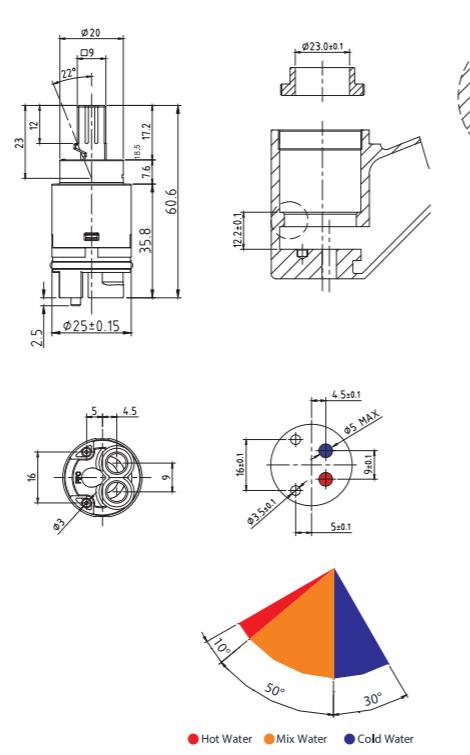
NEW SCC 25EF



Max. Opening Angle	22°
Max. Turning Angle	60°/30°
Nut Torque	8 ~ 9 Nm
Water Resistance Pressure	Max. 25bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 3.0~4.0 l/min (at 2bar) 4.5~5.5 l/min (at 3bar) 5.8~6.6 l/min
Endurance Test	500,000 cycle

25mm Eco Ceramic Cartridge

Dimensions (in mm)



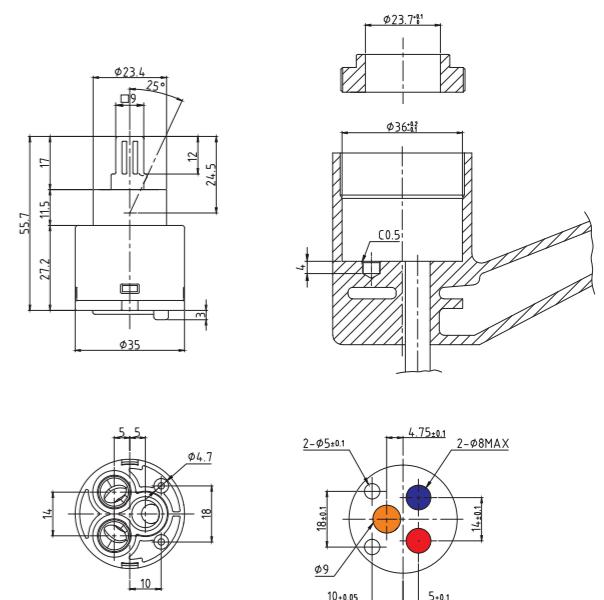
NEW SCC 35GR



Max. Opening Angle	25°
Max. Turning Angle	90°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 l/min (at 2bar) 17~19 l/min (at 3bar) 20~28 l/min
Endurance Test	500,000 cycle

35mm Ceramic Cartridge

Dimensions (in mm)



S.C.C® CARTRIDGE

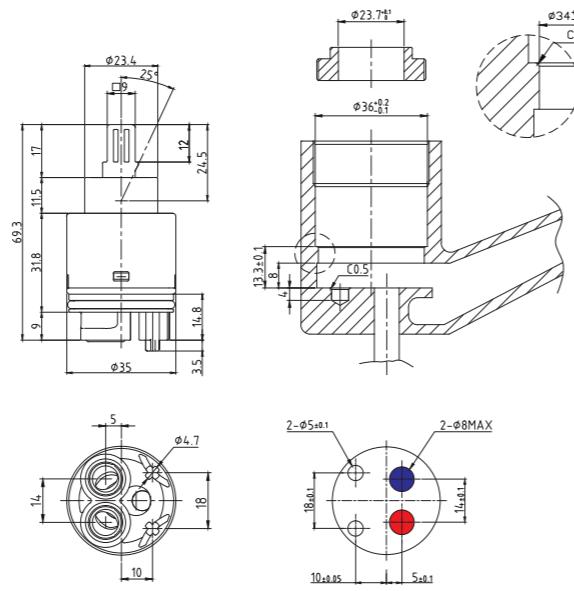
NEW SCC 35GF



Max. Opening Angle	25°
Max. Turning Angle	90°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~ 28 ℓ/min
Endurance Test	500,000 cycle

35mm Ceramic Cartridge

Dimensions (in mm)



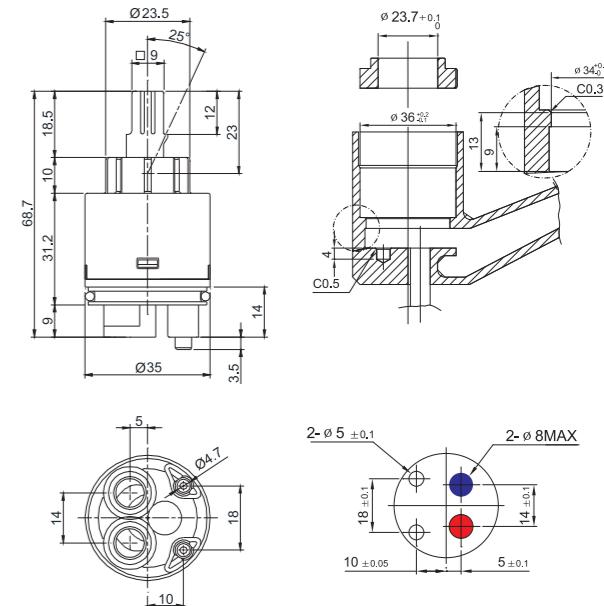
SCC 35SF



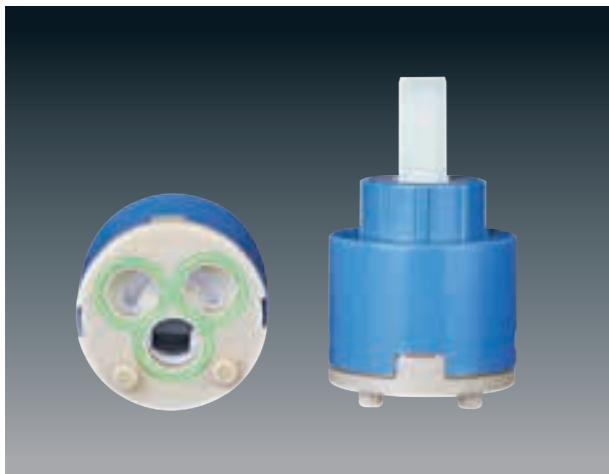
Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~ 28 ℓ/min
Endurance Test	500,000 cycle

35mm Ceramic Cartridge

Dimensions (in mm)



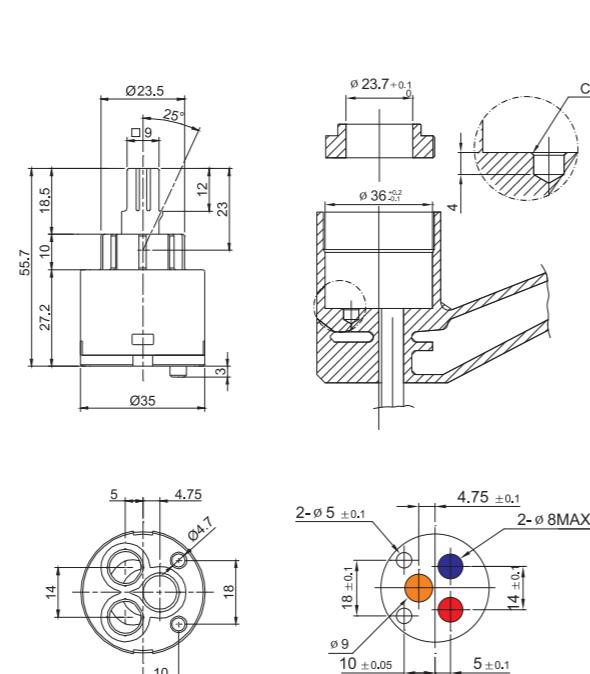
SCC 35SR



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~ 28 ℓ/min
Endurance Test	500,000 cycle

35mm Ceramic Cartridge

Dimensions (in mm)



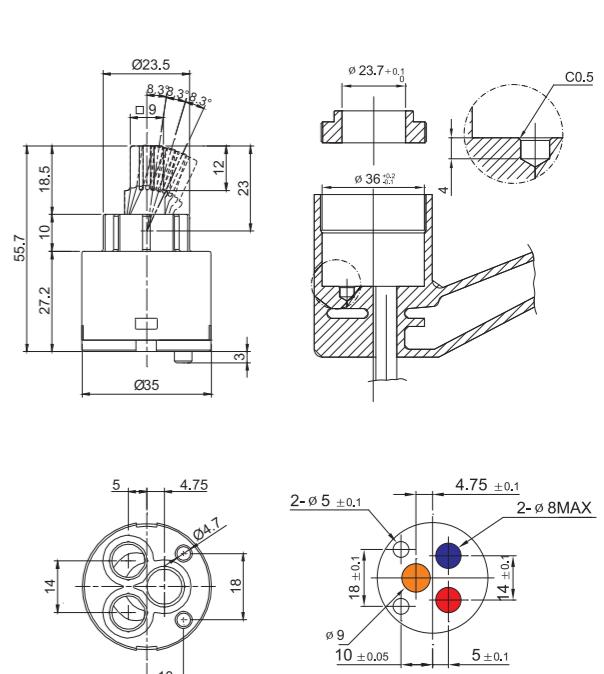
SCC 35SR-3S



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~ 28 ℓ/min
Endurance Test	500,000 cycle

35mm Ceramic Cartridge (3step)

Dimensions (in mm)



S.C.C® CARTRIDGE

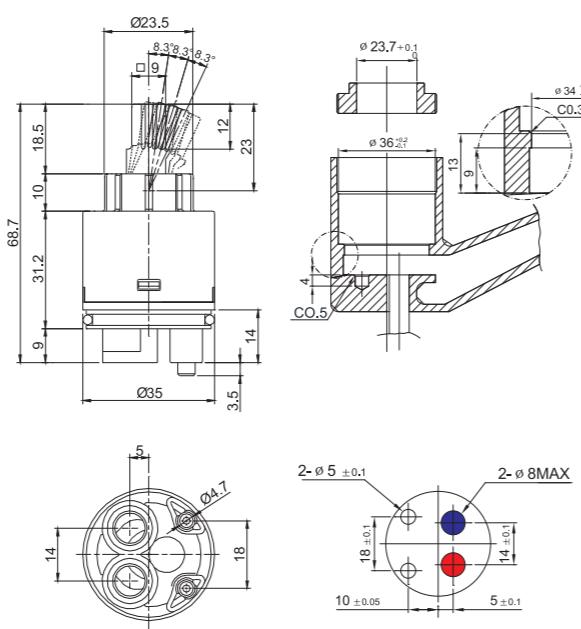
SCC 35SF-3S



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

35mm Ceramic Cartridge (3step)

Dimensions (in mm)

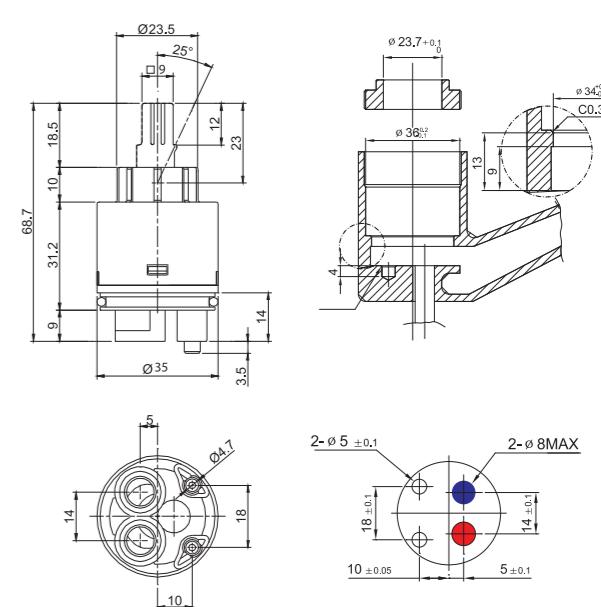


SCC 35LF

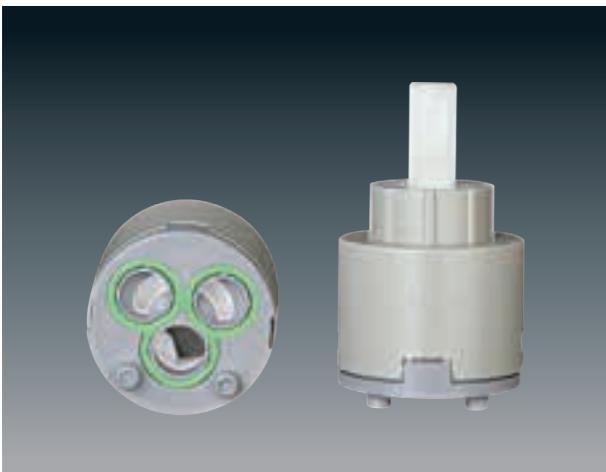


Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

Dimensions (in mm)



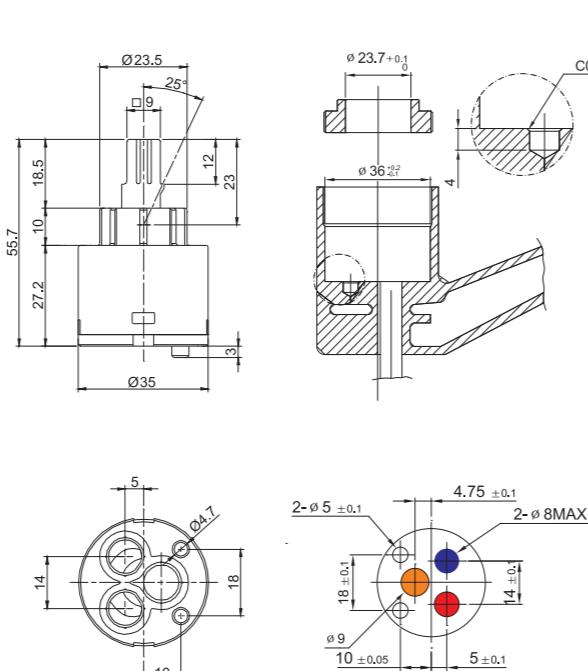
SCC 35LR



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

35mm Ceramic Cartridge

Dimensions (in mm)

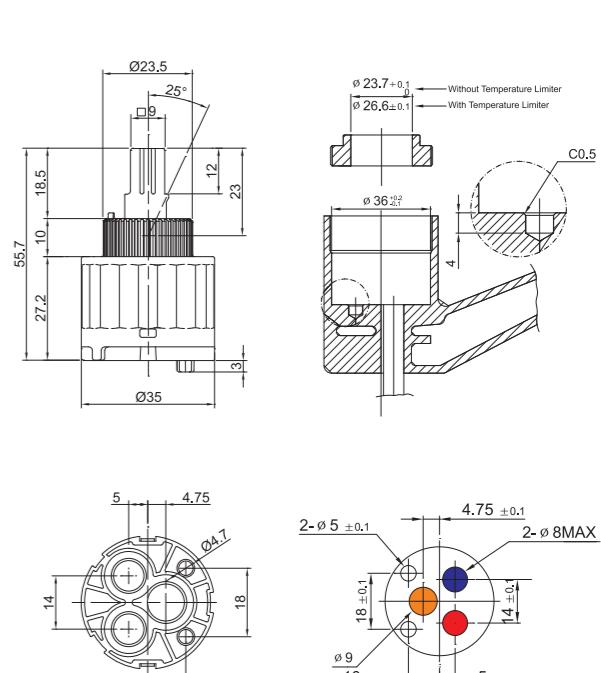


SCC 35BR



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

Dimensions (in mm)



S.C.C® CARTRIDGE

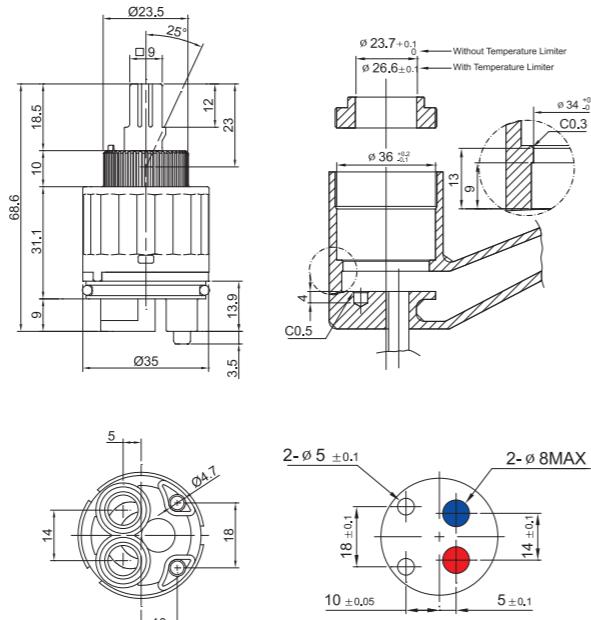
SCC 35BF

35mm Ceramic Cartridge (temperature control)



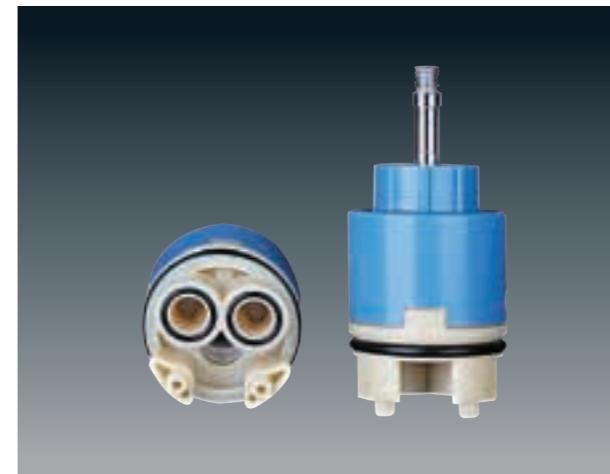
Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

Dimensions (in mm)



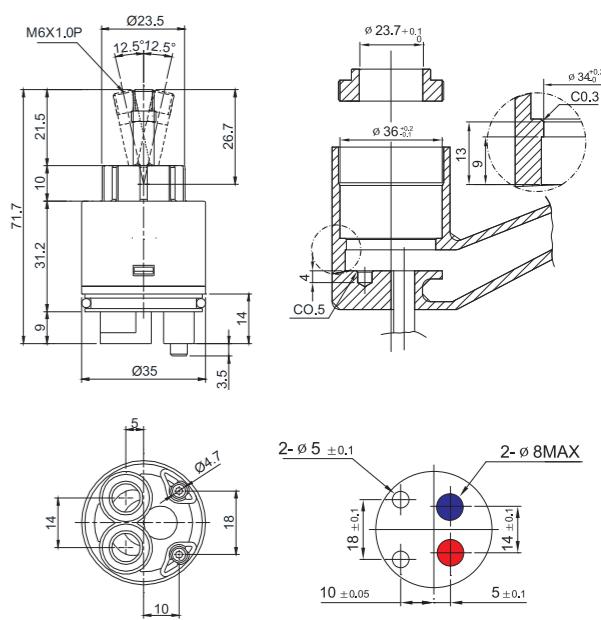
SCC 35JF

35mm Ceramic Cartridge (joystick)



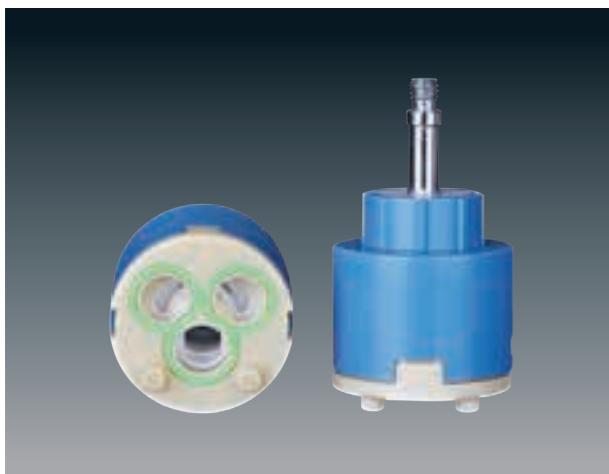
Max. Opening Angle	25°
Max. Turning Angle	360°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

Dimensions (in mm)



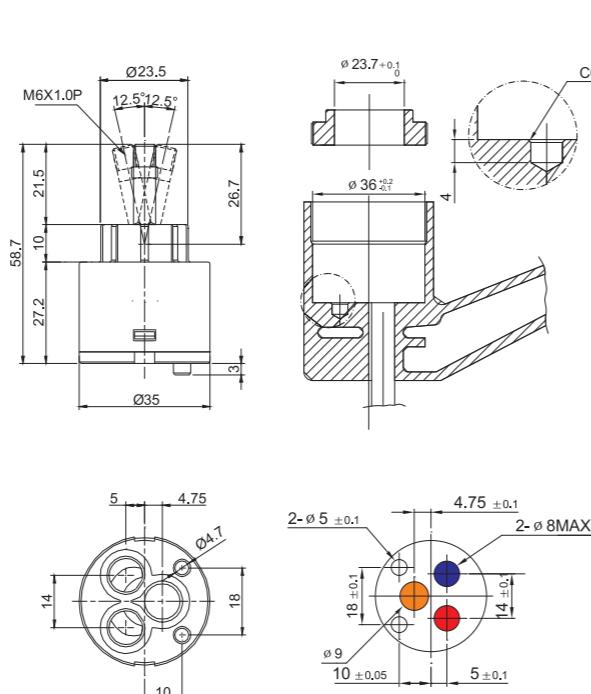
SCC 35JR

35mm Ceramic Cartridge (joystick)



Max. Opening Angle	25°
Max. Turning Angle	360°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

Dimensions (in mm)



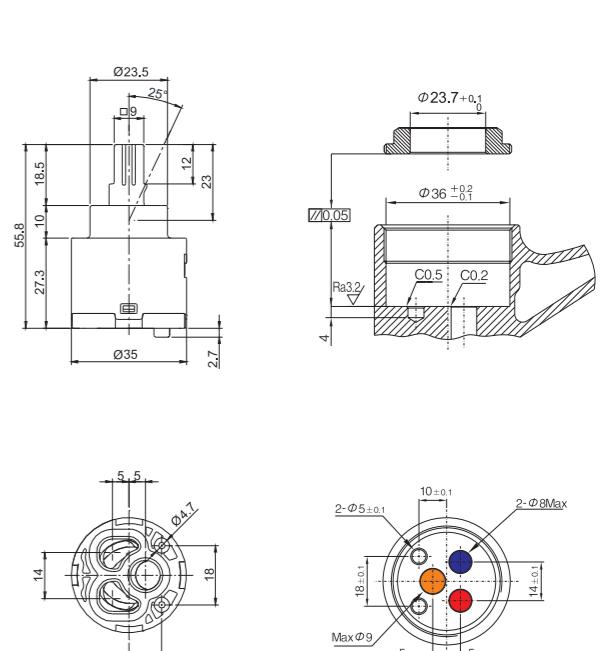
SCC 35SMR

35mm Ceramic Cartridge (soft move)



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 15~19 ℓ/min (at 2bar) 20~28 ℓ/min (at 3bar) 29~35 ℓ/min
Endurance Test	500,000 cycle

Dimensions (in mm)



S.C.C® CARTRIDGE

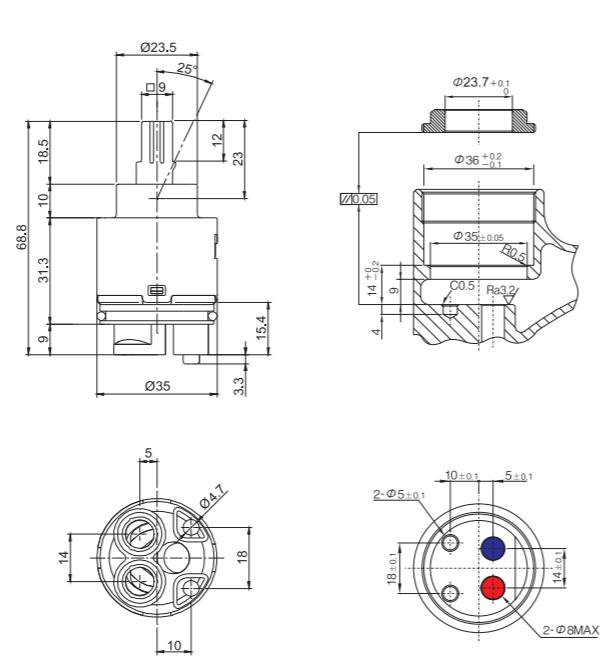
SCC 35SMF



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 15~19 ℓ/min (at 2bar) 20~28 ℓ/min (at 3bar) 29~35 ℓ/min
Endurance Test	500,000 cycle

35mm Ceramic Cartridge (soft move)

Dimensions (in mm)



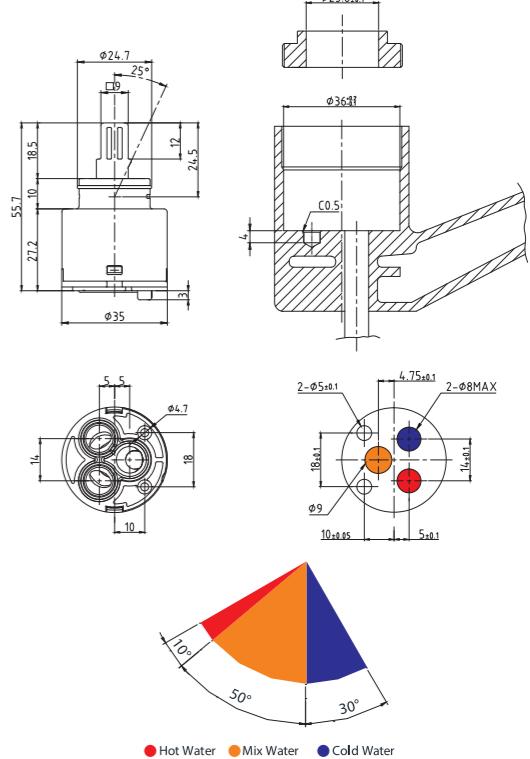
NEW SCC 35ER



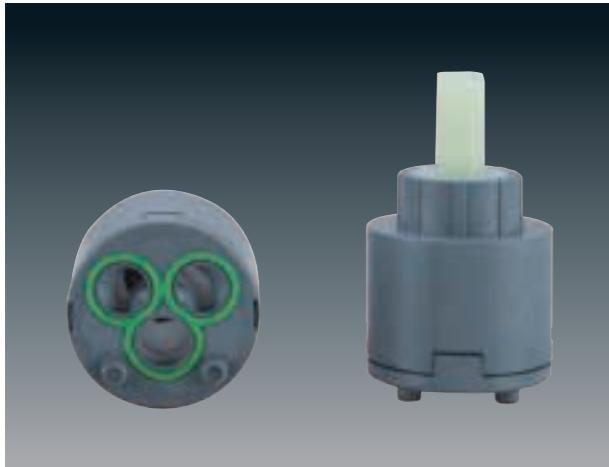
Max. Opening Angle	25°
Max. Turning Angle	60°/30°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 7.5~8.5 ℓ/min (at 2bar) 10.5~12 ℓ/min (at 3bar) 13.5~15 ℓ/min
Endurance Test	500,000 cycle

35mm Eco Ceramic Cartridge

Dimensions (in mm)



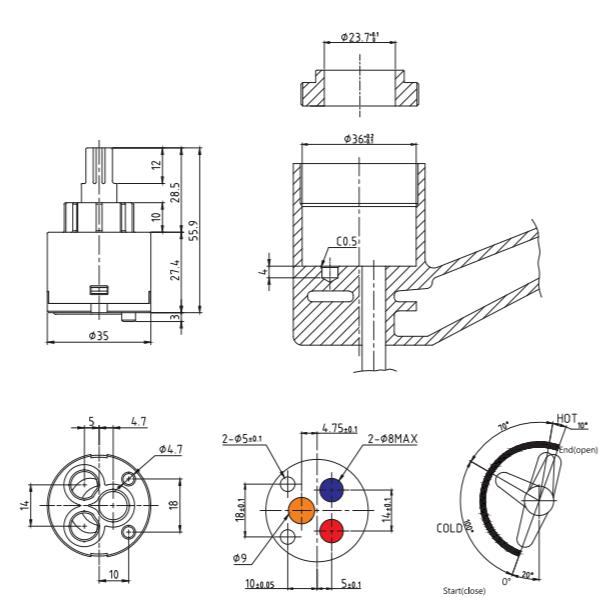
SCC 35VR



Max. Opening Angle	180°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

35mm Ceramic Volume Cartridge

Dimensions (in mm)



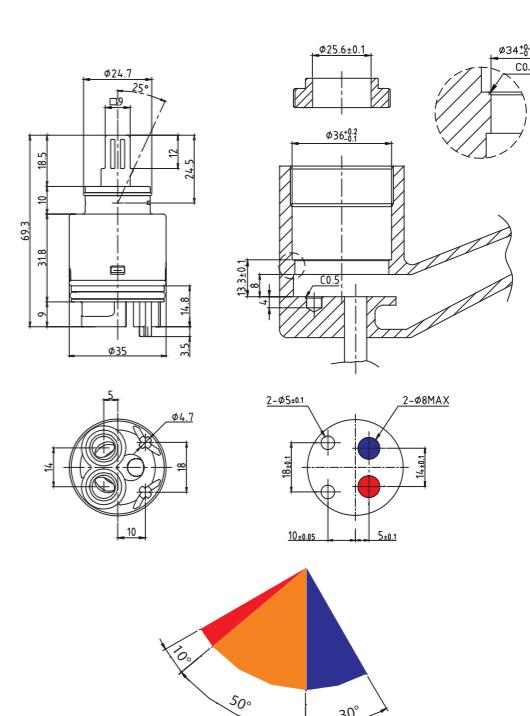
NEW SCC 35EF



Max. Opening Angle	25°
Max. Turning Angle	60°/30°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 7.5~8.5 ℓ/min (at 2bar) 10.5~12 ℓ/min (at 3bar) 13.5~15 ℓ/min
Endurance Test	500,000 cycle

35mm Eco Ceramic Cartridge

Dimensions (in mm)



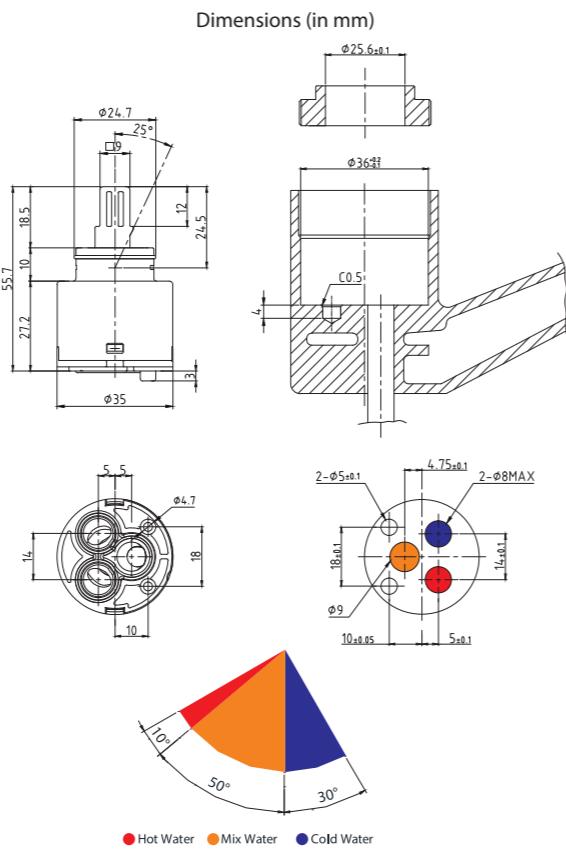
S.C.C® CARTRIDGE

NEW SCC 35ER,A



Max. Opening Angle	25°
Max. Turning Angle	60°/30°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 7.5~8.5 ℓ/min (at 2bar) 10.5~12 ℓ/min (at 3bar) 13.5~15 ℓ/min
Endurance Test	500,000 cycle

35mm Eco Ceramic Cartridge

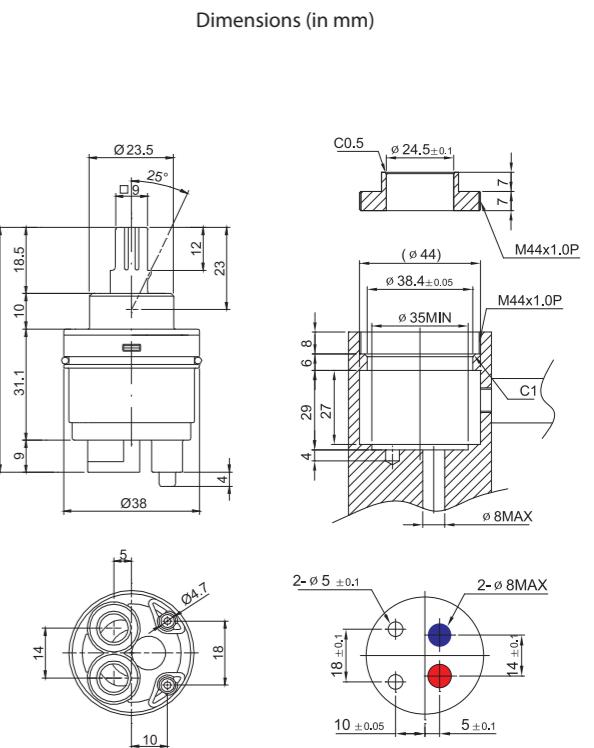


SCC 38AF



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

38mm Ceramic Cartridge

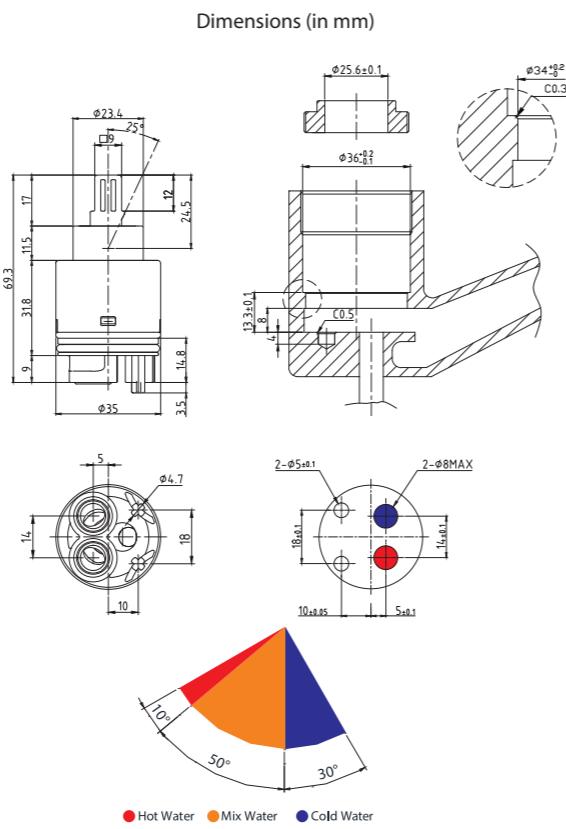


NEW SCC 35EF,A



Max. Opening Angle	25°
Max. Turning Angle	60°/30°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 7.5~8.5 ℓ/min (at 2bar) 10.5~12 ℓ/min (at 3bar) 13.5~15 ℓ/min
Endurance Test	500,000 cycle

35mm Eco Ceramic Cartridge

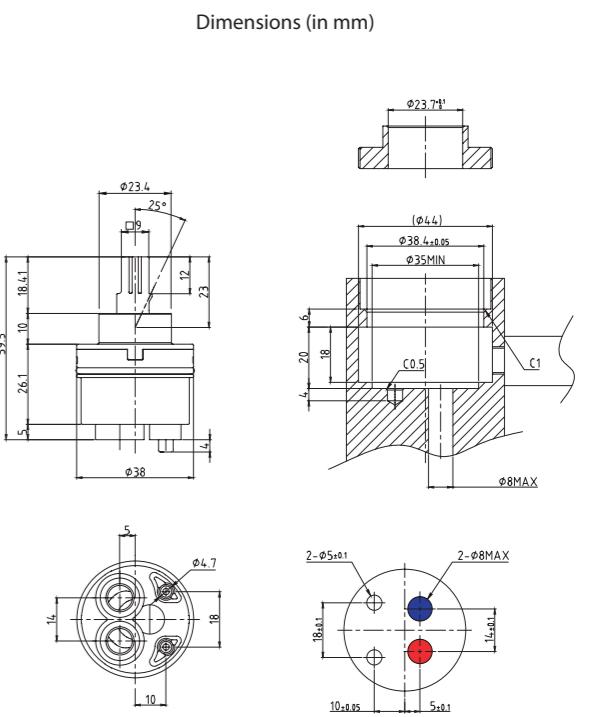


SCC 38AF-CO



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

38mm Ceramic Cartridge



S.C.C® CARTRIDGE

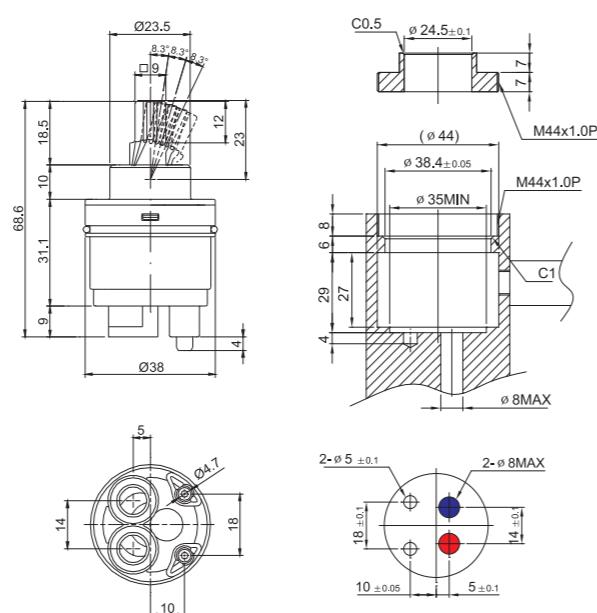
SCC 38AF-3S



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

38mm Ceramic Cartridge (3step)

Dimensions (in mm)



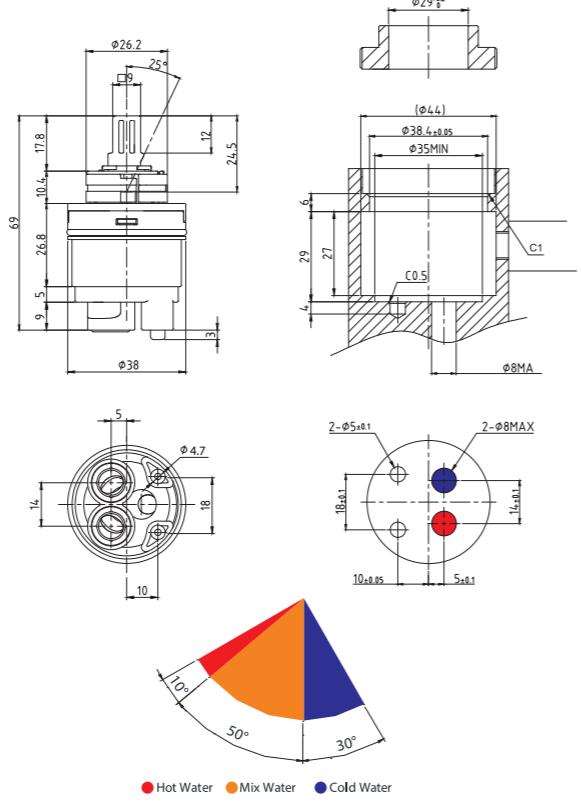
38mm Eco Ceramic Cartridge

NEW SCC 38EF



Max. Opening Angle	25°
Max. Turning Angle	60°/30°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 7.5~8.5 ℓ/min (at 2bar) 10.5~12 ℓ/min (at 3bar) 13.5~15 ℓ/min
Endurance Test	500,000 cycle

Dimensions (in mm)



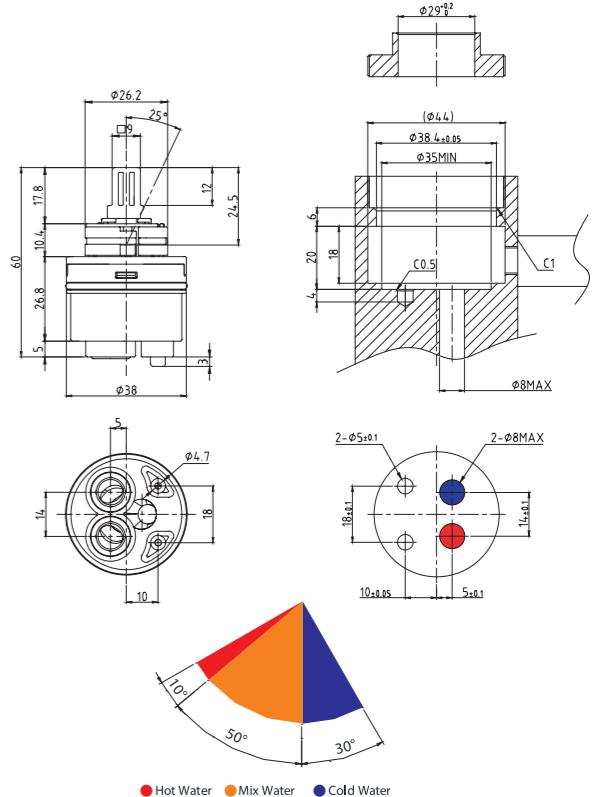
NEW SCC 38EF-CO



Max. Opening Angle	25°
Max. Turning Angle	60°/30°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 7.5~8.5 ℓ/min (at 2bar) 10.5~12 ℓ/min (at 3bar) 13.5~15 ℓ/min
Endurance Test	500,000 cycle

38mm Ceramic Cartridge (3step)

Dimensions (in mm)



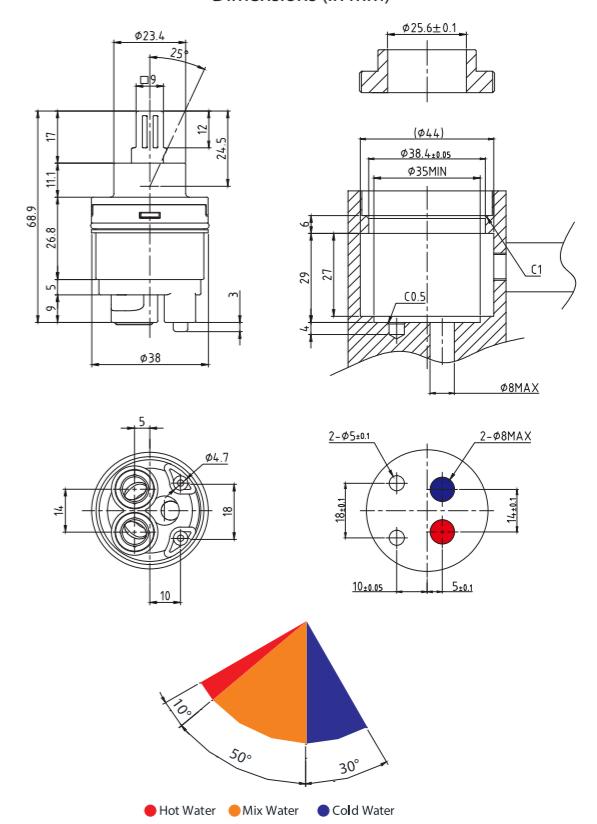
NEW SCC 38EF,A



Max. Opening Angle	25°
Max. Turning Angle	60°/30°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 7.5~8.5 ℓ/min (at 2bar) 10.5~12 ℓ/min (at 3bar) 13.5~15 ℓ/min
Endurance Test	500,000 cycle

38mm Eco Ceramic Cartridge

Dimensions (in mm)



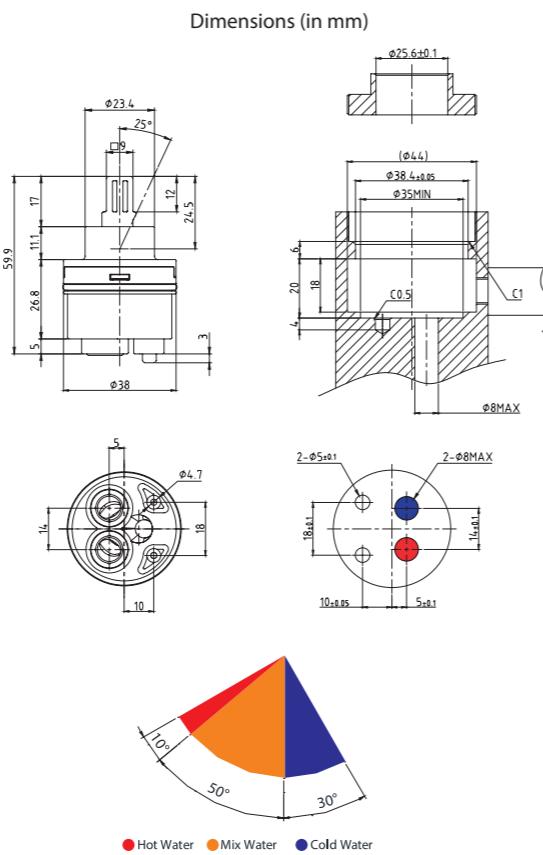
S.C.C® CARTRIDGE

NEW SCC 38EF,A-CO

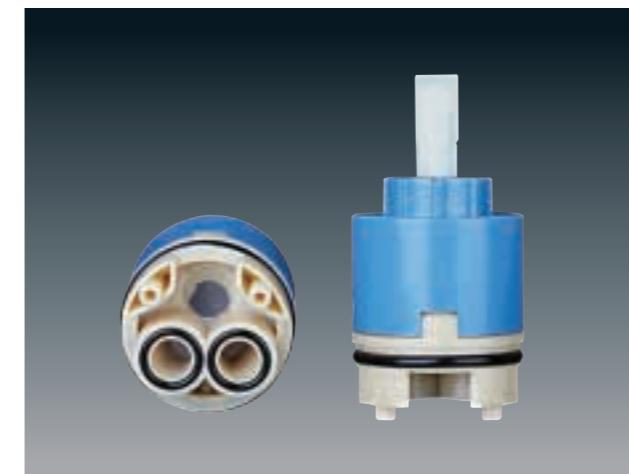


Max. Opening Angle	25°
Max. Turning Angle	60°/30°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 7.5~8.5 ℓ/min (at 2bar) 10.5~12 ℓ/min (at 3bar) 13.5~15 ℓ/min
Endurance Test	500,000 cycle

38mm Eco Ceramic Cartridge

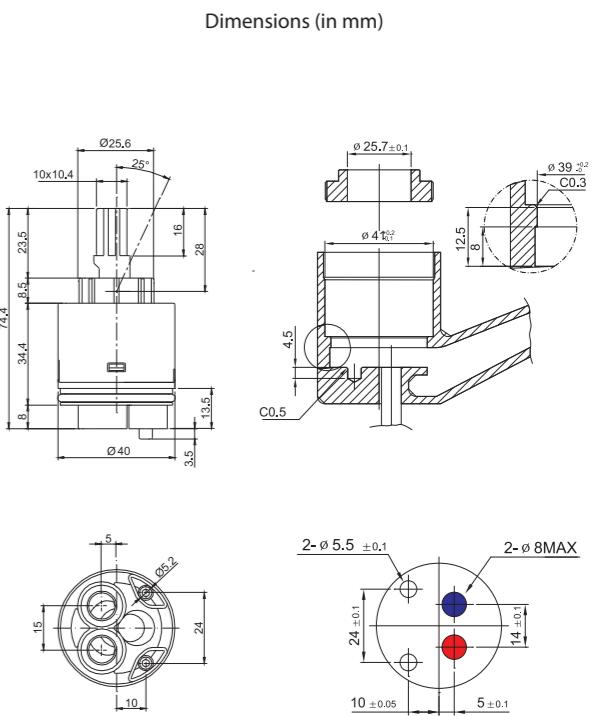


SCC 40SF

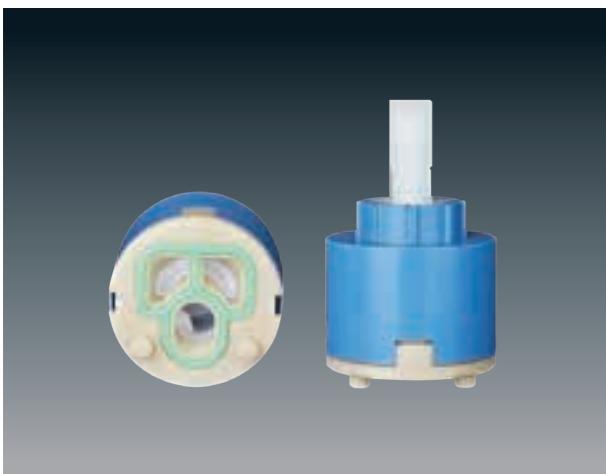


Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

40mm Ceramic Cartridge

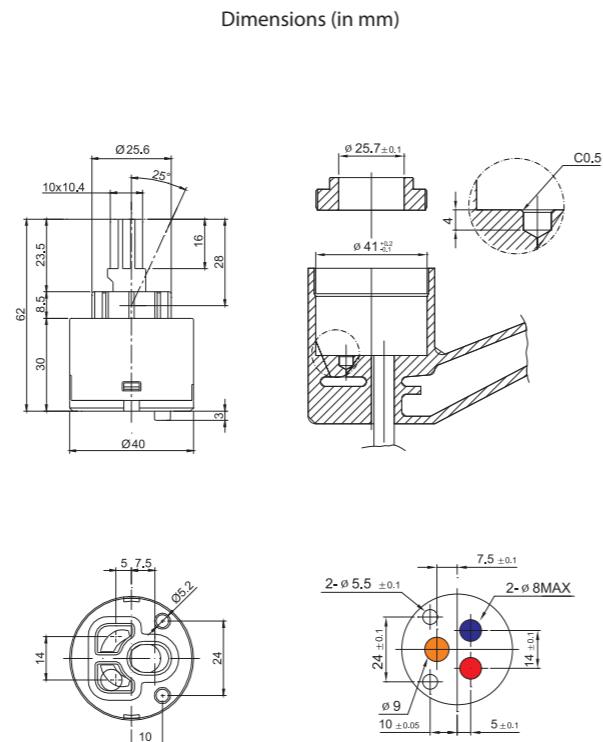


SCC 40SR



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

40mm Ceramic Cartridge

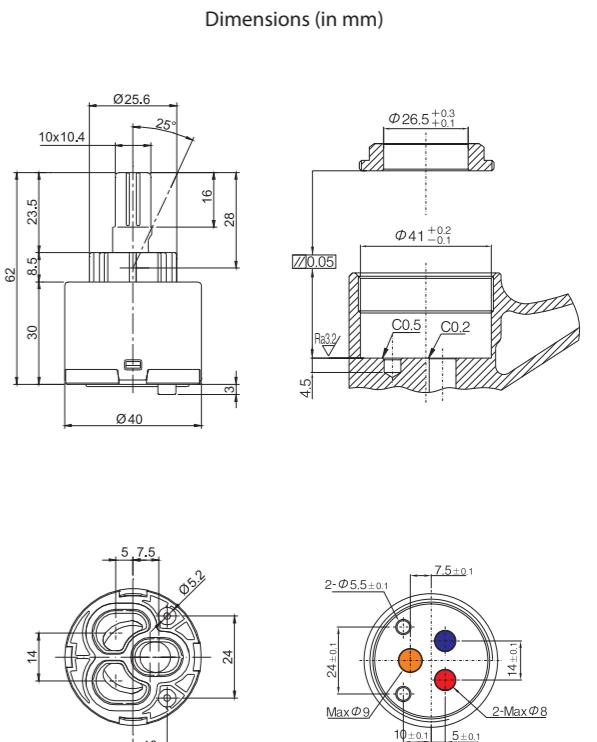


SCC 40SMR



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 16~20 ℓ/min (at 2bar) 23~31 ℓ/min (at 3bar) 31~37 ℓ/min
Endurance Test	500,000 cycle

40mm Ceramic Cartridge (soft move)



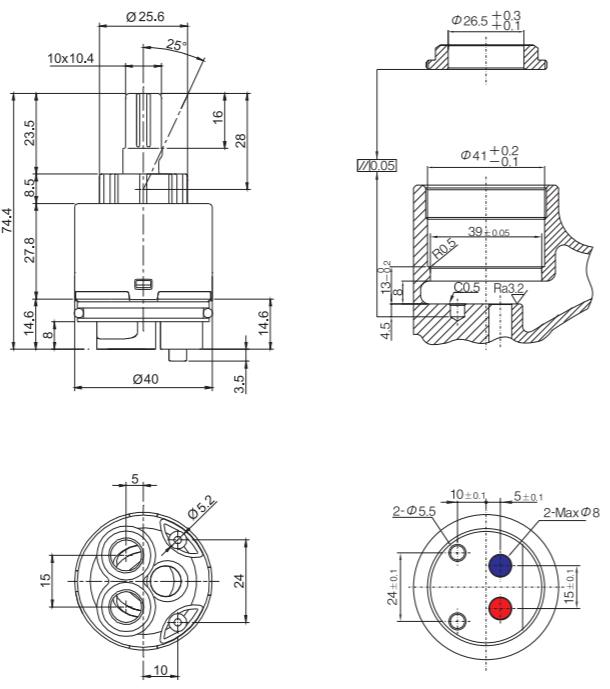
S.C.C® CARTRIDGE

SCC 40SMF



40mm Ceramic Cartridge (soft move)

Dimensions (in mm)



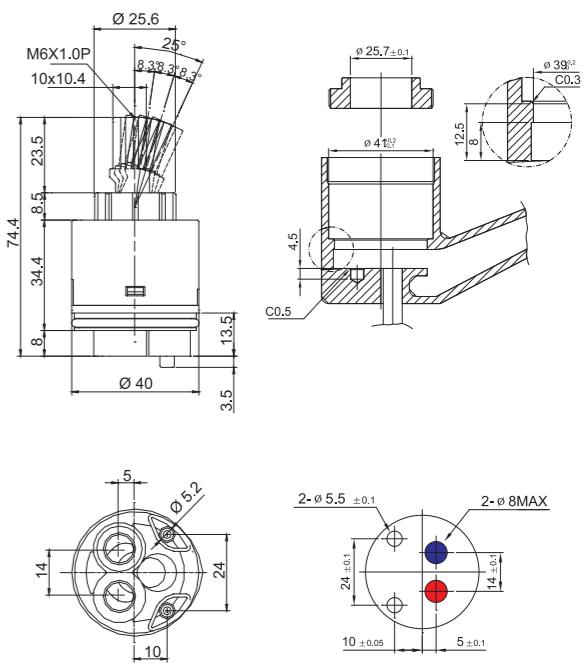
Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 16~20 l/min (at 2bar) 23~31 l/min (at 3bar) 31~37 l/min
Endurance Test	500,000 cycle

SCC 40SF-3



40mm Ceramic Cartridge (3step)

Dimensions (in mm)



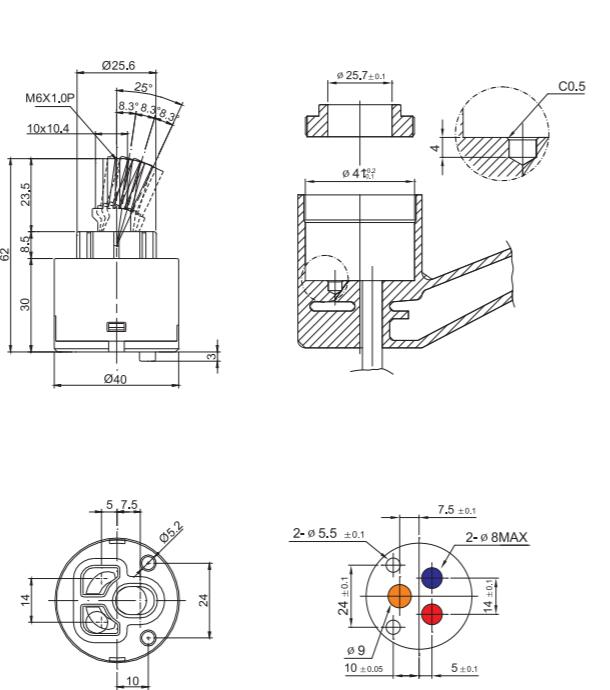
Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 l/min (at 2bar) 17~19 l/min (at 3bar) 20~28 l/min
Endurance Test	500,000 cycle

SCC 40SR-3



40mm Ceramic Cartridge (3step)

Dimensions (in mm)



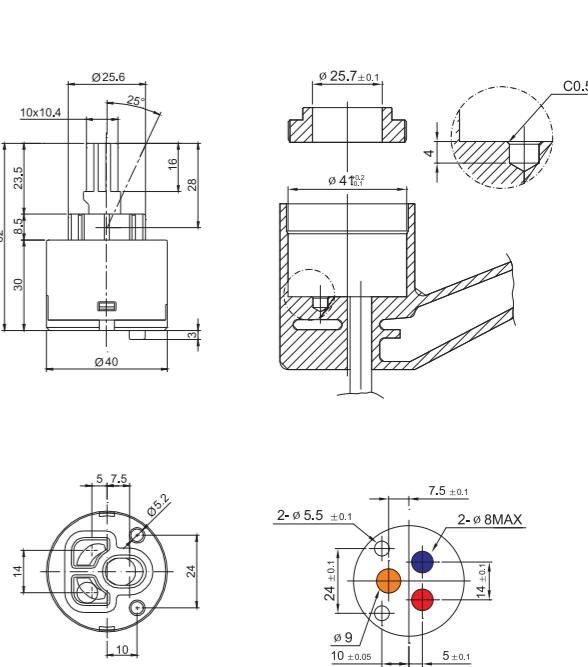
Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 l/min (at 2bar) 17~19 l/min (at 3bar) 20~28 l/min
Endurance Test	500,000 cycle

SCC 40LR



40mm Ceramic Cartridge

Dimensions (in mm)



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 l/min (at 2bar) 17~19 l/min (at 3bar) 20~28 l/min
Endurance Test	500,000 cycle

S.C.C® CARTRIDGE

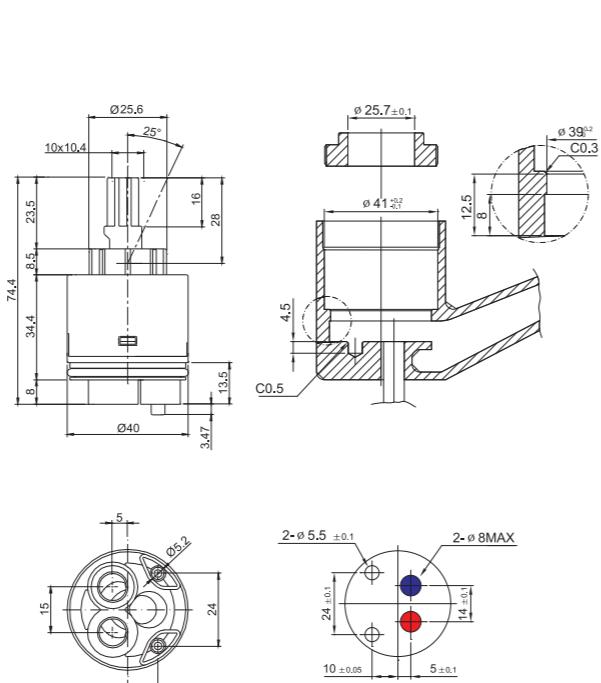
SCC 40LF



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

40mm Ceramic Cartridge

Dimensions (in mm)



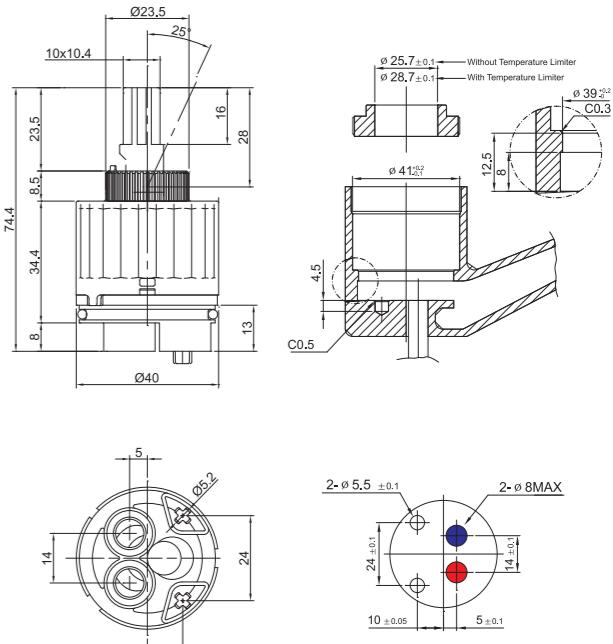
SCC 40BF



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

40mm Ceramic Cartridge (temperature control)

Dimensions (in mm)



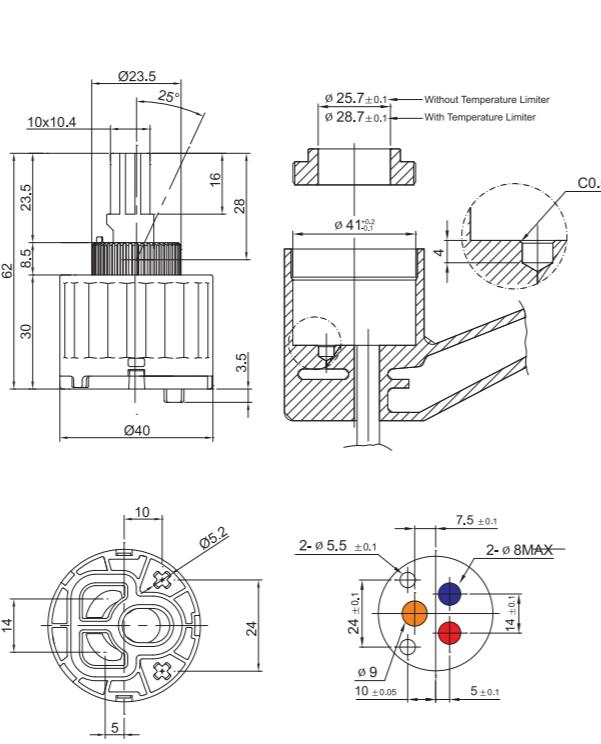
SCC 40BR



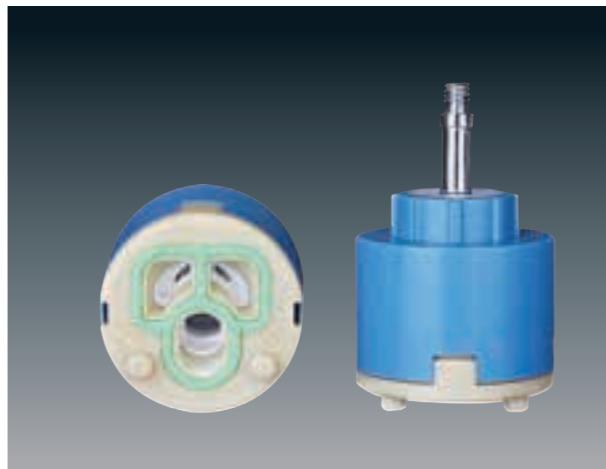
Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

40mm Ceramic Cartridge (temperature control)

Dimensions (in mm)



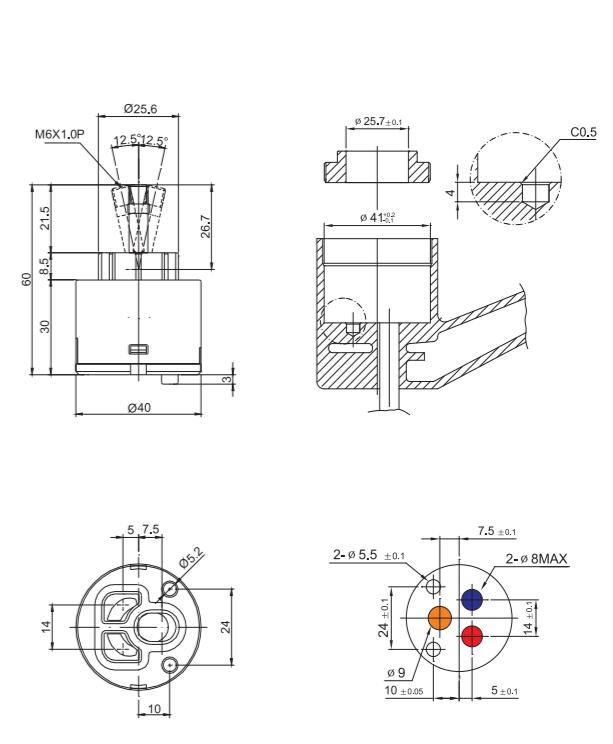
SCC 40JR



Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

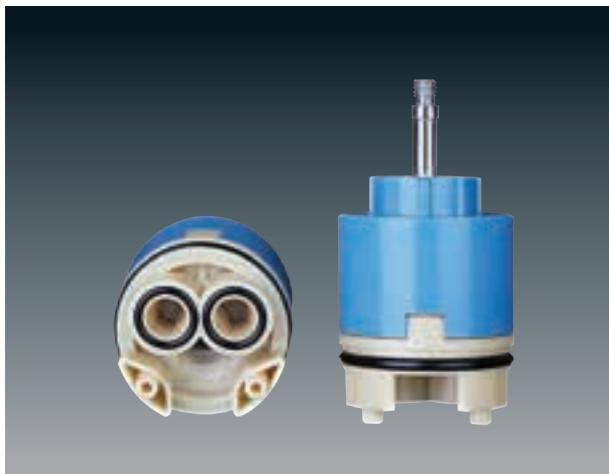
40mm Ceramic Cartridge (joystick)

Dimensions (in mm)



S.C.C® CARTRIDGE

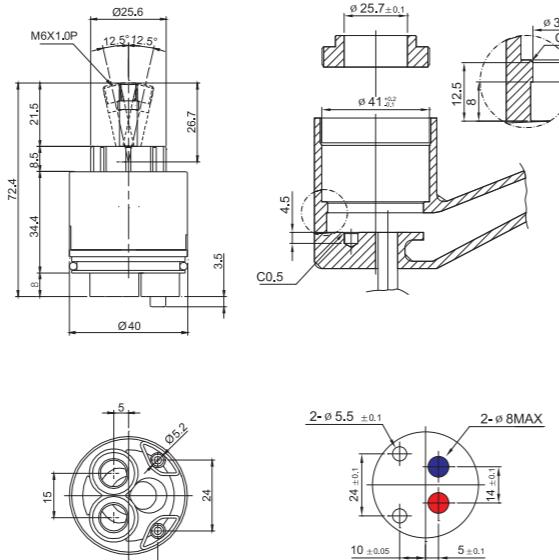
SCC 40JF



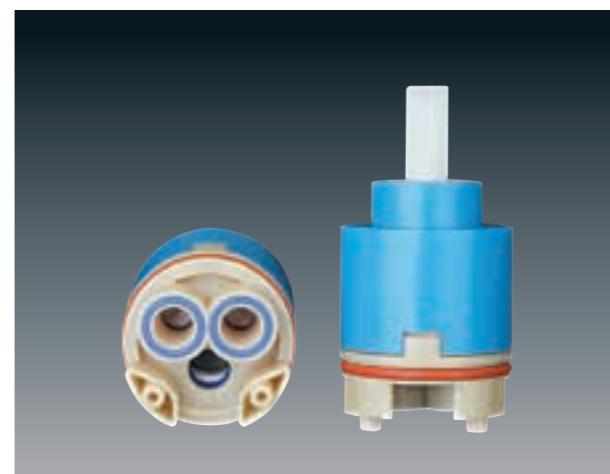
Max. Opening Angle	25°
Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

40mm Ceramic Cartridge (joystick)

Dimensions (in mm)

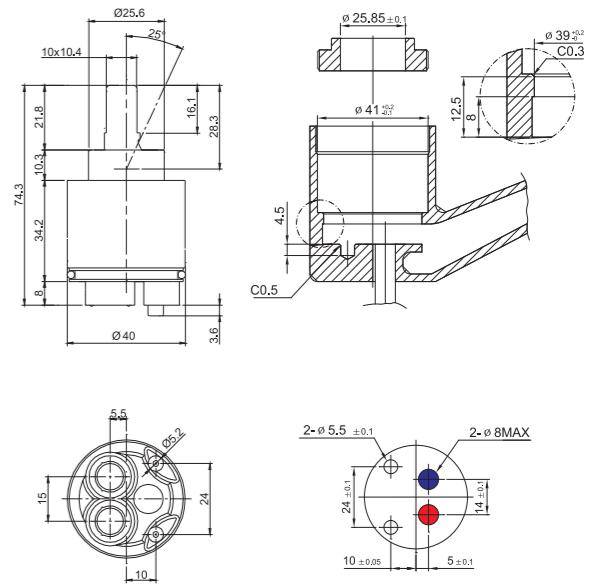


SCC 40AF

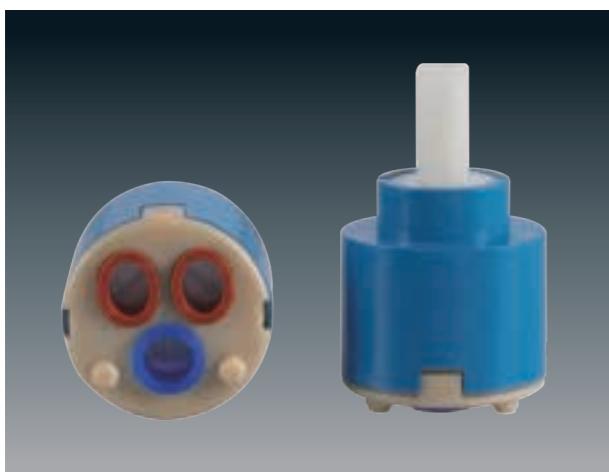


Max. Opening Angle	25°
Max. Turning Angle	110°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

Dimensions (in mm)



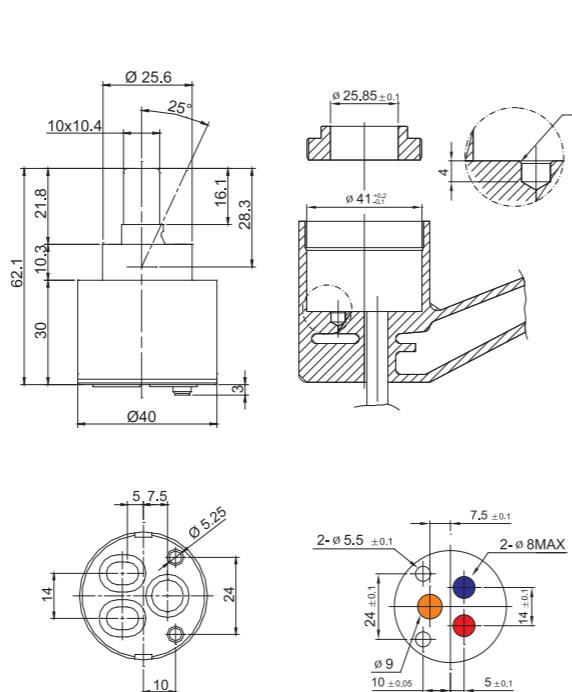
SCC 40AR



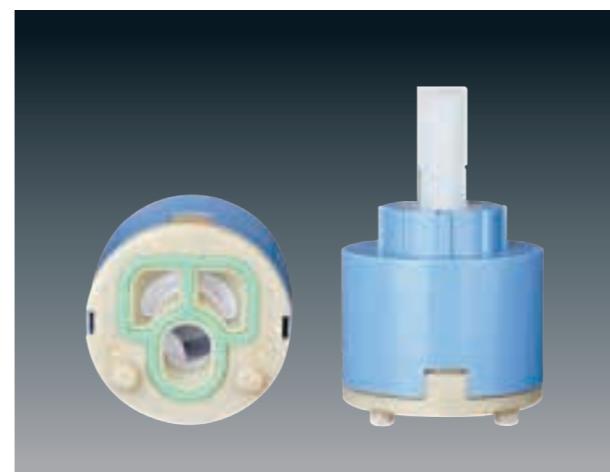
Max. Opening Angle	25°
Max. Turning Angle	110°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 ℓ/min (at 2bar) 17~19 ℓ/min (at 3bar) 20~28 ℓ/min
Endurance Test	500,000 cycle

40mm Ceramic Cartridge

Dimensions (in mm)



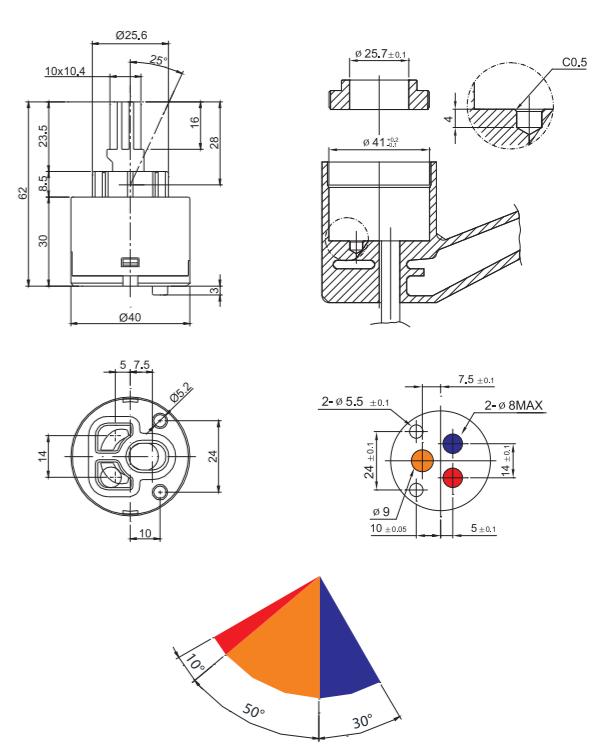
NEW SCC 40ER



Max. Opening Angle	25°
Max. Turning Angle	60°/30°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 9~10 ℓ/min (at 2bar) 11~13 ℓ/min (at 3bar) 14~16 ℓ/min
Endurance Test	500,000 cycle

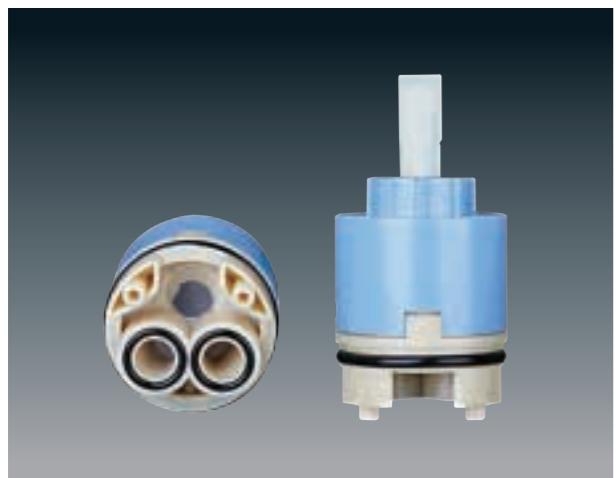
40mm Eco Ceramic Cartridge

Dimensions (in mm)



S.C.C® CARTRIDGE

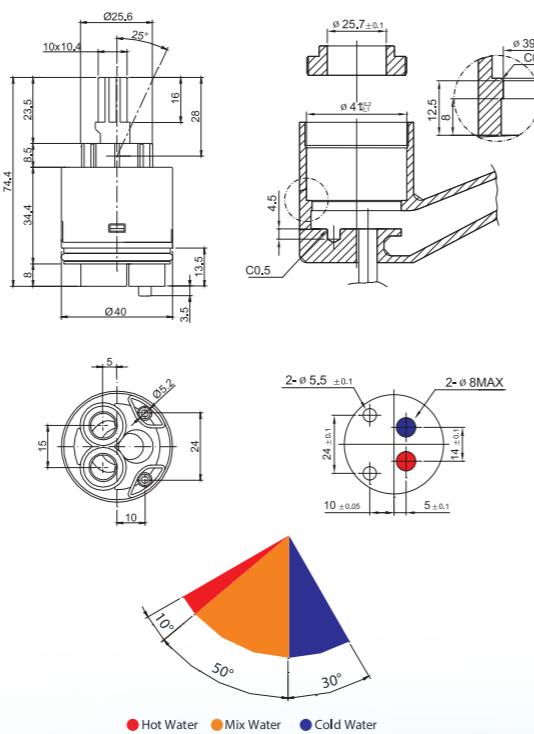
NEW SCC 40EF



Max. Opening Angle	25°
Max. Turning Angle	60°/30°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 9~10 ℓ/min (at 2bar) 11~13 ℓ/min (at 3bar) 14~16 ℓ/min
Endurance Test	500,000 cycle

40mm Eco Ceramic Cartridge

Dimensions (in mm)



DIVERTER CARTRIDGE

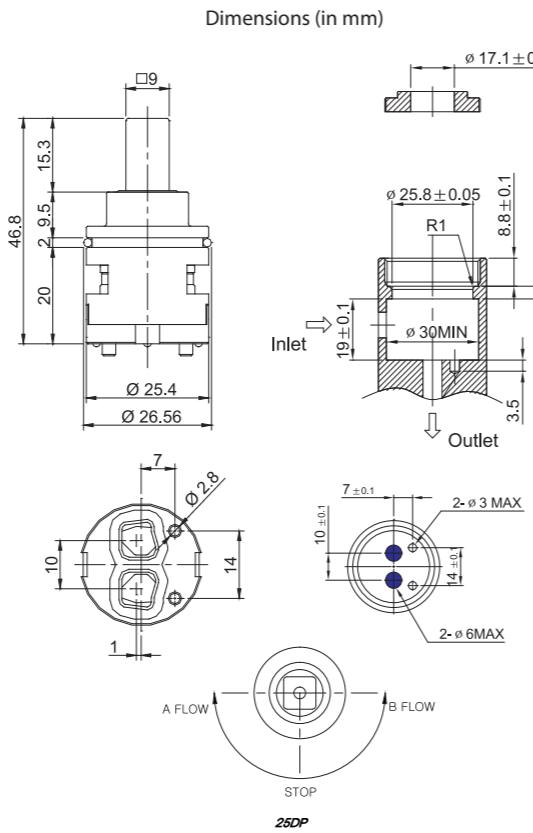
S.C.C® DIVERTER CARTRIDGE

SCC 25DP



Max. Turning Angle	180°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~14 ℓ/min (at 2bar) 18~21 ℓ/min (at 3bar) 23~25 ℓ/min
Endurance Test	500,000 cycle

25mm Diverter

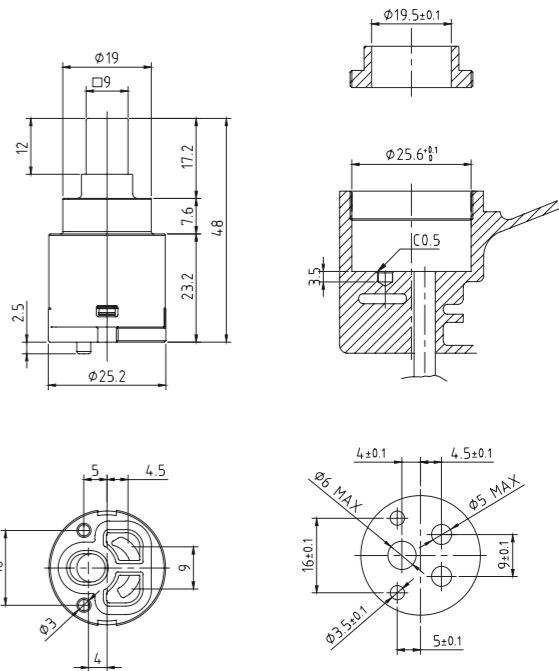


SCC 25D-2W



Max. Turning Angle	100°
Nut Torque	8 ~ 9 Nm
Water Resistance Pressure	Max. 25bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 6.8~7.5 ℓ/min (at 2bar) 8.8~9.4 ℓ/min (at 3bar) 10.5~11.0 ℓ/min
Endurance Test	500,000 cycle

Dimensions (in mm)



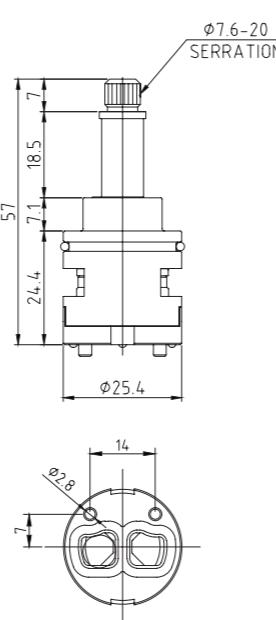
SCC 25DD-1



Max. Turning Angle	180°
Nut Torque	8~9 Nm
Water Resistance Pressure	Max. 25bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~14 ℓ/min (at 2bar) 18~21 ℓ/min (at 3bar) 23~25 ℓ/min
Endurance Test	500,000 cycle

25mm Diverter

Dimensions (in mm)

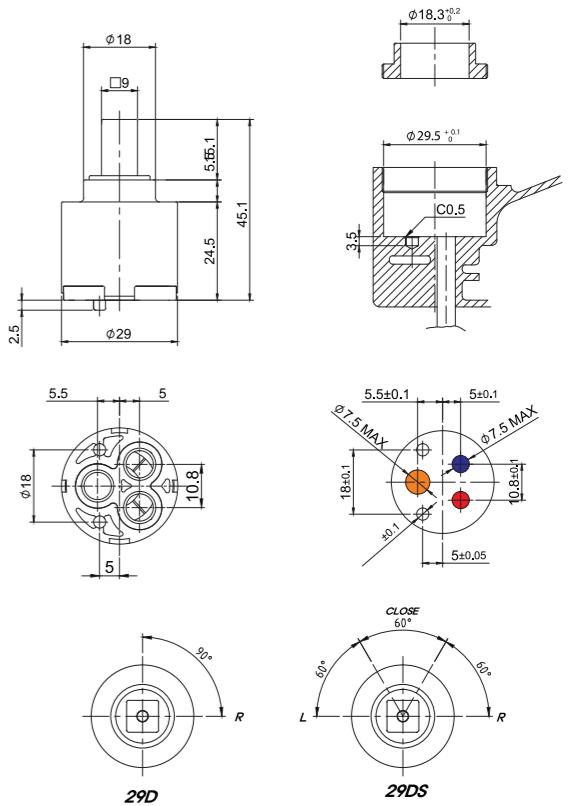


SCC 29D/DS



Max. Turning Angle	29D 90° / 29DS 180°
Nut Torque	9 ~ 10 Nm
Water Resistance Pressure	Max. 25bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 13.0~14.0 ℓ/min (at 2bar) 21.0~22.0 ℓ/min (at 3bar) 26.0~27.0 ℓ/min
Endurance Test	500,000 cycle

Dimensions (in mm)



S.C.C® DIVERTER CATRIDGE

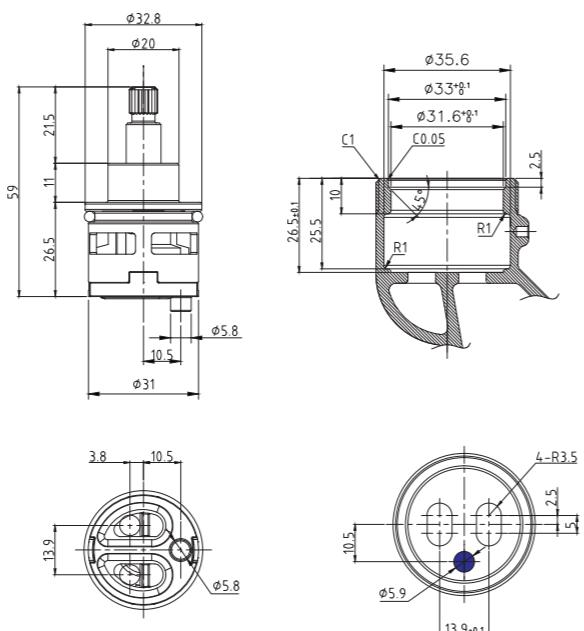
SCC 31D-2W



Max. Turning Angle	360°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	80°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 19~21 l/min (at 2bar) 24~26 l/min (at 3bar) 30~32 l/min
Endurance Test	500,000 cycle

31mm Diverter

Dimensions (in mm)

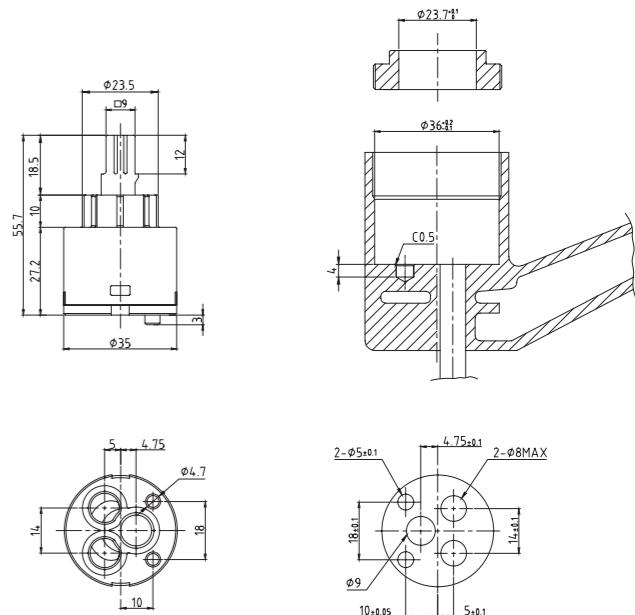


SCC 35D-2W



Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 12~13 l/min (at 2bar) 17~19 l/min (at 3bar) 20~28 l/min
Endurance Test	500,000 cycle

Dimensions (in mm)



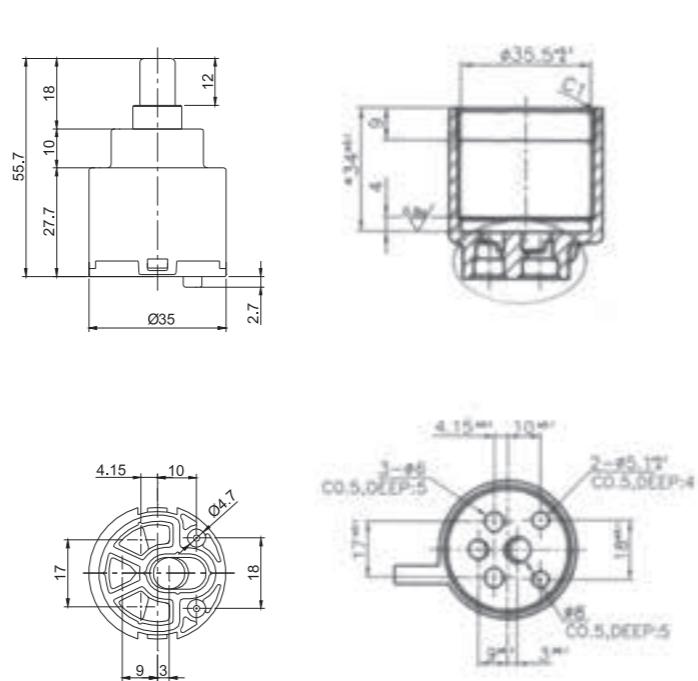
SCC 35D-3W



Max. Turning Angle	100°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 10~11 l/min (at 2bar) 18~19 l/min (at 3bar) 20~21 l/min
Endurance Test	500,000 cycle

35mm Diverter

Dimensions (in mm)

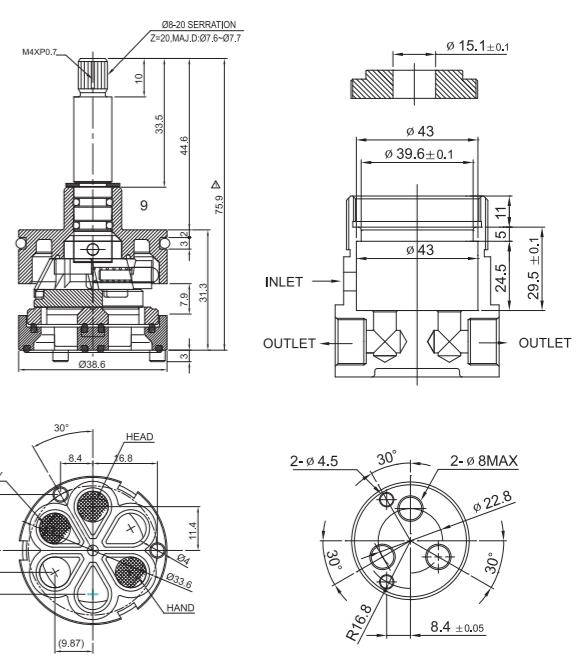


SCC 40D-4W (3W, 5W)



Max. Turning Angle	360°
Nut Torque	8 ~ 10 Nm
Water Resistance Pressure	Max. 35bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 10~11 l/min (at 2bar) 15~17 l/min (at 3bar) 18~20 l/min
Endurance Test	500,000 cycle

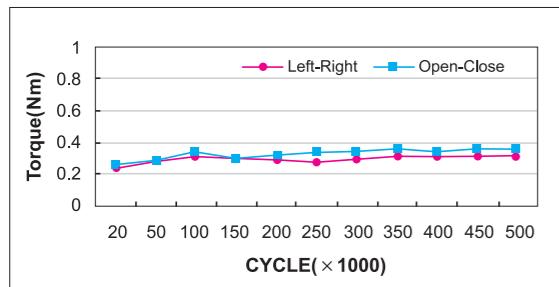
Dimensions (in mm)



S.C.C® DIVERTER CARTRIDGE

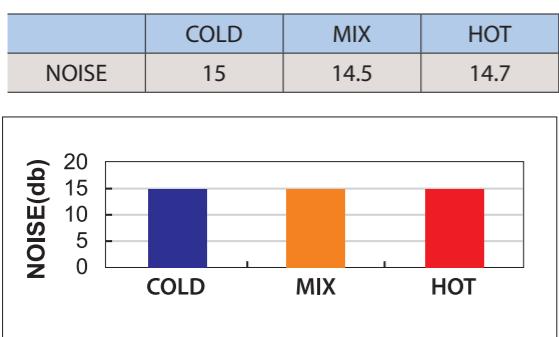
Endurance Test

- Nut Tightening Torque : 11Nm
- Water Pressure : 1.5Mpa
- Water Temperature : 30 ~ 50°C
- Cycle : 500,000
- Operating : Open ▶ Right ▶ Close ▶ Left



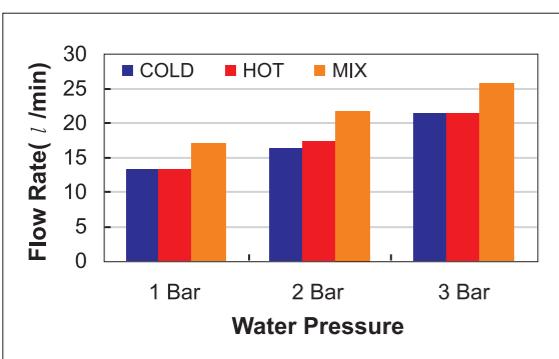
Noise Level

- Condition : With noise reducer, Aerator
- Hot/Cold Water Pressure : 3Bar



Flow Rate

	COLD	HOT	MIX
1 Bar	13	13	17
2 Bar	16	17	22
3 Bar	12	21	26



Materials

SCC S

NO	Cartridge Component	Material
1	Housing	Noryl(PPO)
2	Lever	Nylon(PA6+GF)
3	Pin	SUS
4	Slider	Acetal(POM)
5	Ceramic Disc	Al ₂ O ₃ 96%
6	Seat	Noryl(PPO+GF)
7	inner Packing	Silicone
8	Out Packing	Silicone
9	O-Ring on the seat	Silicone or NBR

SCC L

NO	Cartridge Component	Material
1	Housing	Noryl(PPO)
2	Lever	Nylon(PA6+GF)
3	Pin	SUS
4	Slider	Acetal(POM)
5	Ceramic Disc	Al ₂ O ₃ 96%
6	Seat	Noryl(PPO+GF)
7	inner Packing	Silicone
8	Out Packing	Silicone or NBR
9	O-Ring on the seat	Silicone or NBR

SCC B

NO	Cartridge Component	Material
1	Housing	Noryl(PPO+GF)
2	Lever	Nylon(PA6+GF)
3	Pin	SUS
4	Slider	Acetal(POM)
5	Ceramic Disc	Al ₂ O ₃ 96%
6	Seat	Acetal(POM+GF)
7	inner Packing	Silicone
8	Out Packing	Silicone or NBR
9	O-Ring on the seat	Silicone or NBR

SCC A

NO	Cartridge Component	Material
1	Housing	Noryl(PPO)
2	Lever	Nylon(PA6+GF)
3	Pin	SUS
4	Slider	Acetal(POM)
5	Ceramic Disc	Al ₂ O ₃ 96%
6	Seat	Noryl(PPO+GF)
7	inner Packing	Silicone
8	Out Packing	Silicone or NBR
9	O-Ring on the seat	Silicone or NBR

SCC SM

NO	Cartridge Component	Material
1	Housing	Acetal(POM+GF)
2	Lever	Nylon(PA6+GF)
3	Pin	SUS
4	Slider	Acetal(POM)
5	Disc Cover	Acetal(POM)
6	Disc Cover O-ring	Silicone or EPDM
7	Ceramic Disc	Al ₂ O ₃ 96% or SIC
8	Inner Packing	Silicone or EPDM
9	Seat	POM+GF25%
10	Out Packing	Silicone or EPDM
11	O-Ring on the seat	Silicone or NBR



HEADWORK CARTRIDGE

BRASS HEADWORK CARTRIDGE

LINEAR HEADWORK CARTRIDGE

PLASTIC HEADWORK CARTRIDGE

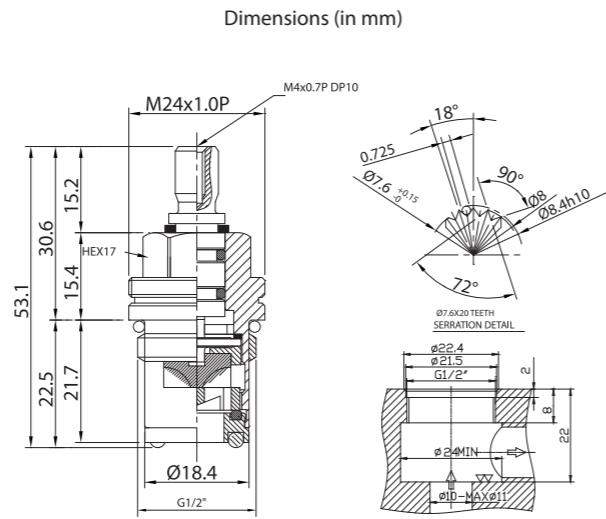
S.C.C® HEADWORK CARTRIDGE

SCC S1015-RO



1/2" Ceramic Headwork

Max. Opening Angle	90°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 50bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 15~18 ℓ/min (at 2bar) 23~25 ℓ/min (at 3bar) 28~32 ℓ/min
Endurance Test	500,000 cycle

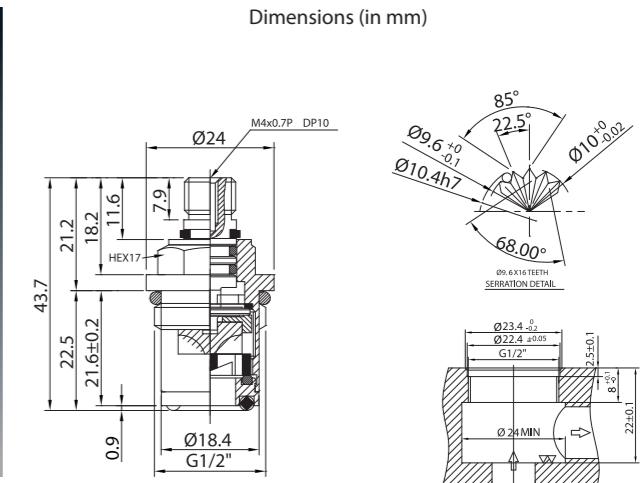


1. A-TYPE LEFT → RIGHT : CLOSE ⚡
RED O-RING
2. B-TYPE RIGHT → LEFT : CLOSE ⚡
BLUE O-RING
V-cutting for Housing

SCC S1030-KO



1/2" Ceramic Headwork



1. A-TYPE LEFT → RIGHT : CLOSE ⚡
RED O-RING
2. B-TYPE RIGHT → LEFT : CLOSE ⚡
BLUE O-RING
V-cutting for Housing

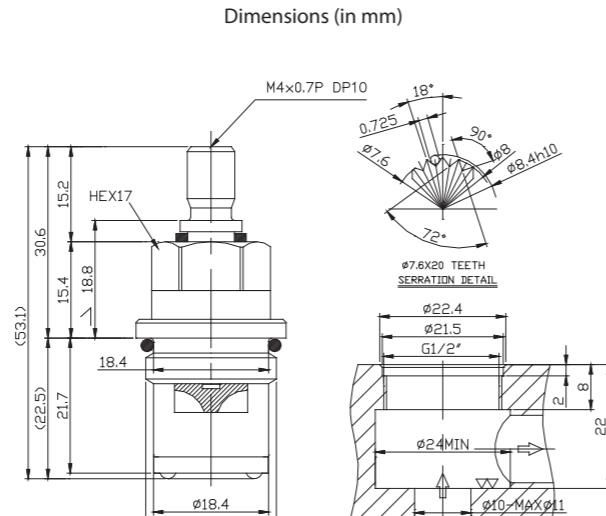
Max. Opening Angle	90°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 50bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 15~18 ℓ/min (at 2bar) 23~25 ℓ/min (at 3bar) 28~32 ℓ/min
Endurance Test	500,000 cycle

SCC S1015-SO



1/2" Ceramic Headwork

Max. Opening Angle	90°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 50bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 15~18 ℓ/min (at 2bar) 23~25 ℓ/min (at 3bar) 28~32 ℓ/min
Endurance Test	500,000 cycle

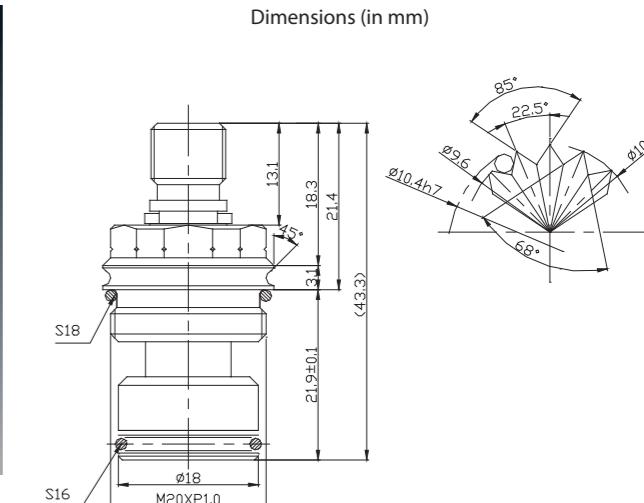


1. A-TYPE LEFT → RIGHT : CLOSE ⚡
RED O-RING
2. B-TYPE RIGHT → LEFT : CLOSE ⚡
BLUE O-RING
V-cutting for Housing

SCC S1062-NO



M20 Ceramic Headwork



1. A-TYPE LEFT → RIGHT : CLOSE ⚡
RED O-RING
2. B-TYPE RIGHT → LEFT : CLOSE ⚡
BLUE O-RING
V-cutting for Housing

Max. Opening Angle	90°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 50bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 9~10 ℓ/min (at 2bar) 13~14 ℓ/min (at 3bar) 17~18 ℓ/min
Endurance Test	500,000 cycle

S.C.C® HEADWORK CARTRIDGE

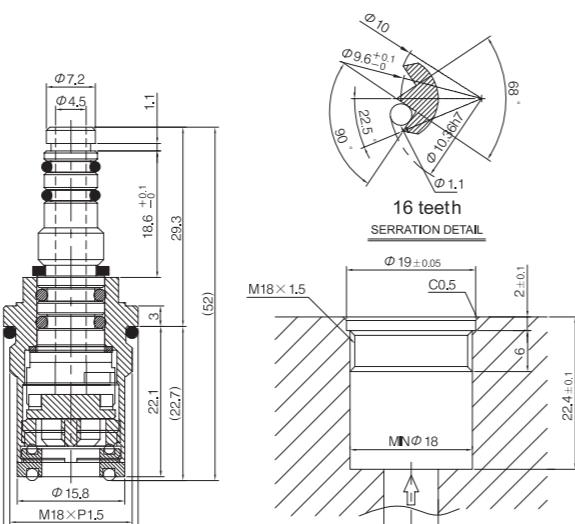
SCC S1062-TO



Max. Opening Angle	90°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 50bar
Working Torque (Operation distance 100mm standard)	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 9~10 ℓ/min (at 2bar) 13~14 ℓ/min (at 3bar) 17~18 ℓ/min
Endurance Test	500,000 cycle

Linear Water Flow Headwork

Dimensions (in mm)



1. A-TYPE LEFT → RIGHT : CLOSE ⚡ RED O-RING
2. B-TYPE RIGHT → LEFT : CLOSE ⚡ BLUE O-RING
V-cutting for Housing

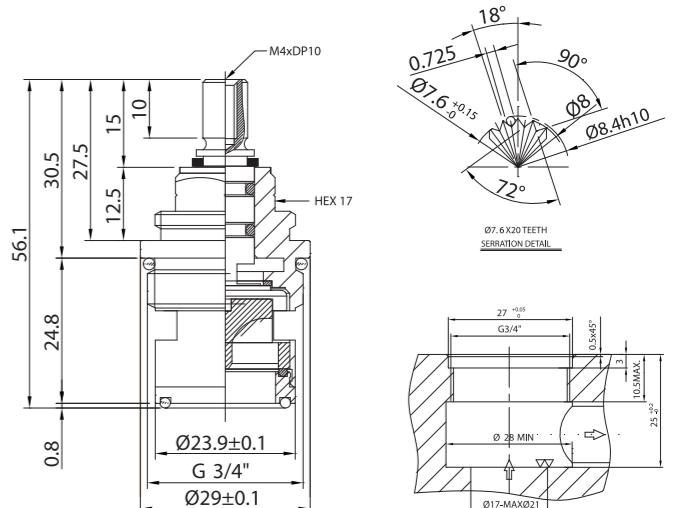
SCC S1091-SO



Max. Opening Angle	90°
Nut Torque	10 ~ 11 Nm
Water Resistance Pressure	Max. 50bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 23~25 ℓ/min (at 2bar) 31~33 ℓ/min (at 3bar) 40~48 ℓ/min
Endurance Test	500,000 cycle

3/4" Ceramic Headwork

Dimensions (in mm)



1. A-TYPE LEFT → RIGHT : CLOSE ⚡ RED O-RING
2. B-TYPE RIGHT → LEFT : CLOSE ⚡ BLUE O-RING
V-cutting for Housing

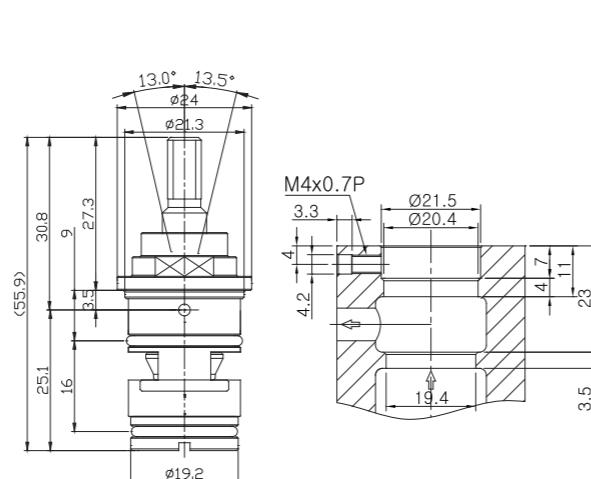
SCC S1087-OO



Max. Opening Angle	26.5°
Water Resistant Pressure	Max. 35bar
Working Torque (Operation distance 100mm standard)	Max 0.07~0.1 Nm
Max. Temperature	90°C
Flow Rate	(at 1bar) 9~10 ℓ/min (at 2bar) 12~13 ℓ/min (at 3bar) 15~16 ℓ/min
Endurance Test	500,000cycle

Linear Ceramic Headwork

Dimensions (in mm)



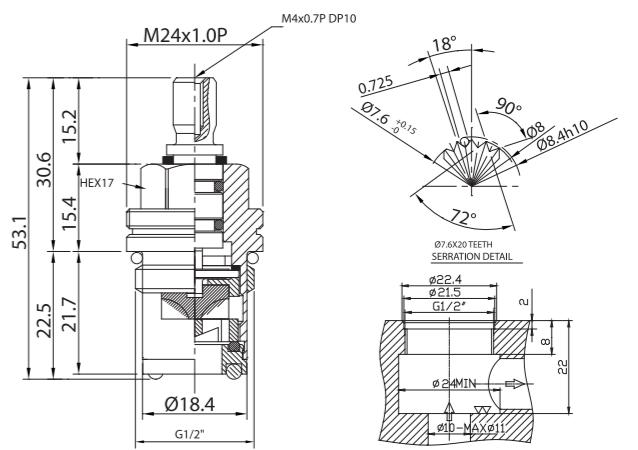
SCC S1015-PO



Max. Opening Angle	90°
Nut Torque	9 ~ 10 Nm
Water Resistance Pressure	Max. 50bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 15~18 ℓ/min (at 2bar) 23~25 ℓ/min (at 3bar) 28~32 ℓ/min
Endurance Test	500,000 cycle

1/2" Plastic Ceramic Headwork

Dimensions (in mm)



1. A-TYPE LEFT → RIGHT : CLOSE ⚡
2. B-TYPE RIGHT → LEFT : CLOSE ⚡
V-cutting for Sindle

S.C.C® HEADWORK CARTRIDGE

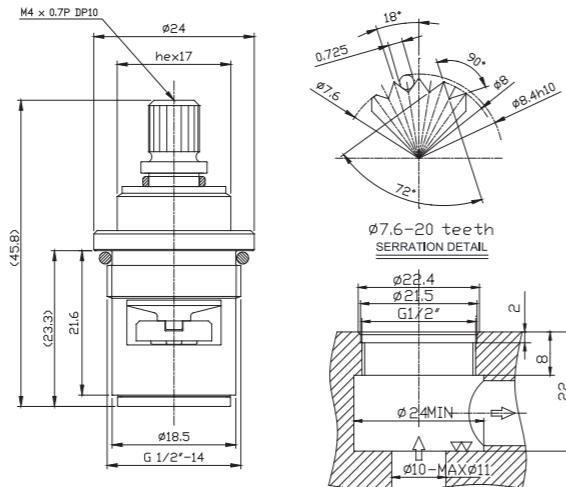
SCC S1030-PO



Max. Opening Angle	90°
Nut Torque	9 ~ 10 Nm
Water Resistance Pressure	Max. 50bar
Working Torque	Max. 0.5 Nm
Max. Temperature	90°C
Max. Noise Level	15 ~ 18db
Flow Rate	(at 1bar) 15~18 ℓ/min (at 2bar) 23~25 ℓ/min (at 3bar) 28~32 ℓ/min
Endurance Test	500,000 cycle

1/2" Plastic Ceramic Headwork

Dimensions (in mm)



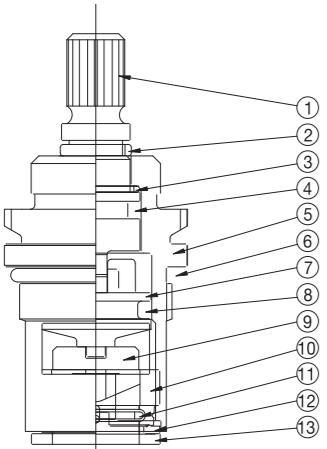
1. A-TYPE LEFT → RIGHT : CLOSE ⚡

2. B-TYPE RIGHT → LEFT : CLOSE ⚡

V-cutting for Spindle



Plastic Headwork Materials



NO	DESCRIPTION	MATERIAL
1	SPINDLE	BS
2	SNAP RING	BS
3	HOUSING WASHER	POM
4	O-RING	NBR
5	HOUSING	PPS + GF 30%
6	O-RING	NBR
7	DISC COVER	PPS + GF 30%
8	O-RING	NBR
9	CERAMIC UPPER	Al2O3 96%
10	CERAMIC LOWER	Al2O3 96%
11	PACKING WASHER	POM
12	PACKING GUIDE	PPO
13	OUTER PACKING	SILICONE



THERMOSTATIC CARTRIDGE

BRASS THERMOSTATIC CARTRIDGE

PLASTIC THERMOSTATIC CARTRIDGE

SMA THERMOSTATIC CARTRIDGE

S.C.C® THERMOSTATIC CARTRIDGE



The S.C.C Thermostatic cartridge is assembled by the very delicate sensor and finely wrought brass parts, so only this one can react such tiny changes in temperature.

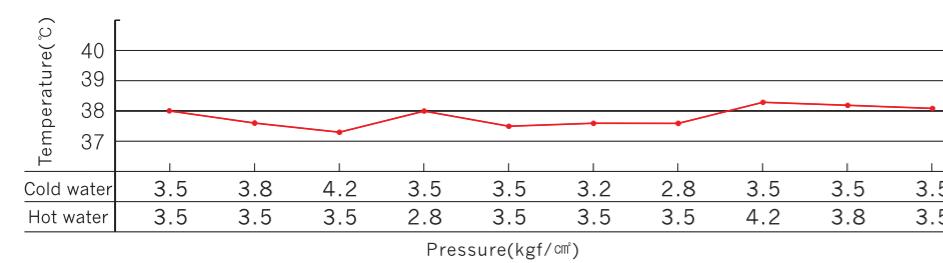
It is designed to improve our home life by using constant temperature of water in the change of water pressure.

It can provide excellent service to you with high quality.

Technical Data

- Turning angle : 330°
- Temperature range : 20~50°C
- Temperature stop : 38°C or 40°C
- Inlet water supply temperature : Hot water 70°C, Cold water 15~25°C
- Outlet water temperature adjusted on 38°C±1.5°C
- Outlet flow rate adjusted on 38°C : 20ℓ/min at 3bar
- Operating pressure : 0.5~6 bar
- Recommend pressure : 1~5bar
- Life cycle : 100,000 cycle

Temperature Variation Test



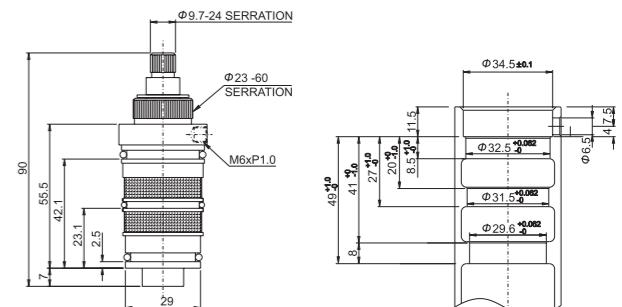
SCC TH100

Thermostatic Cartridge

Dimensions (in mm)



Turning angle	330°
Temperature range	20~50°C
Temperature stop	38°C or 40°C
Inlet water supply temperature	Hot water 70°C Cold water 15°C
Outlet water temperature adjusted on 38°C	38°C±1.5°C
Outlet flow rate adjusted on 38°C	20ℓ / min (3bar)
Operating pressure	0.5~6bar(0.05~0.6Mpa)
Recommend pressure	1~5bar(0.1~0.5Mpa)
Life cycle	100,000 cycles



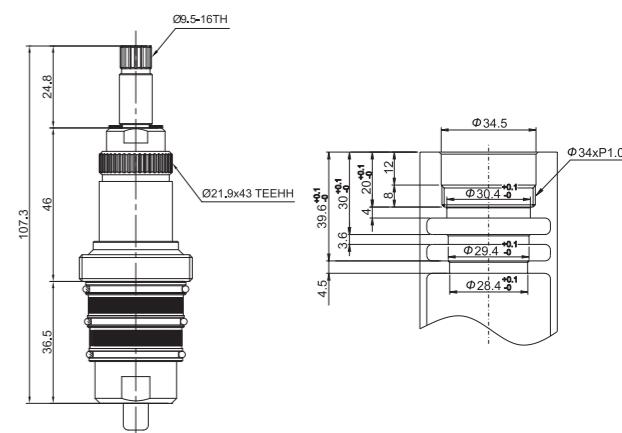
SCC TH200

Thermostatic Cartridge

Dimensions (in mm)



Turning angle	330°
Temperature range	20~50°C
Temperature stop	38°C or 40°C
Inlet water supply temperature	Hot water 70°C Cold water 15°C
Outlet water temperature adjusted on 38°C	38°C±1.5°C
Outlet flow rate adjusted on 38°C	20ℓ / min (3bar)
Operating pressure	0.5~6bar(0.05~0.6Mpa)
Recommend pressure	1~5bar(0.1~0.5Mpa)
Life cycle	100,000 cycles



S.C.C® THERMOSTATIC CARTRIDGE

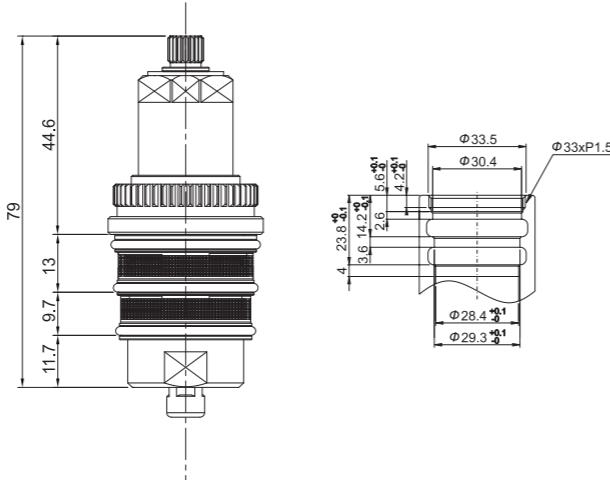
SCC TH300



Turning angle	330°
Temperature range	20~50°C
Temperature stop	38°C or 40°C
Inlet water supply temperature	Hot water 70°C Cold water 15°C
Outlet water temperature adjusted on 38°C	38°C±1.5°C
Outlet flow rate adjusted on 38°C	20ℓ / min (3bar)
Operating pressure	0.5~6bar(0.05~0.6Mpa)
Recommend pressure	1~5bar(0.1~0.5Mpa)
Life cycle	100,000 cycles

Thermostatic Cartridge

Dimensions (in mm)

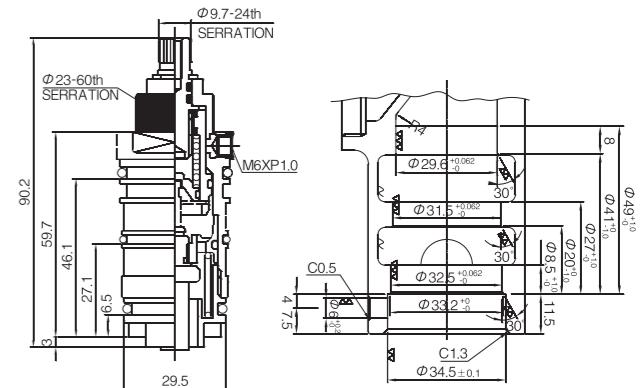


SCC TH100P

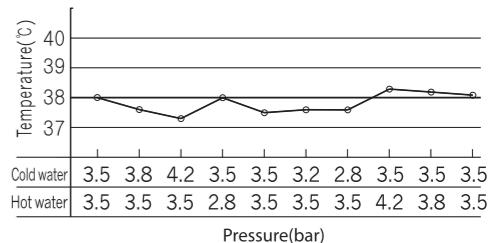


Plastic Thermostatic Cartridge

Dimensions (in mm)



Temperature Variation Test

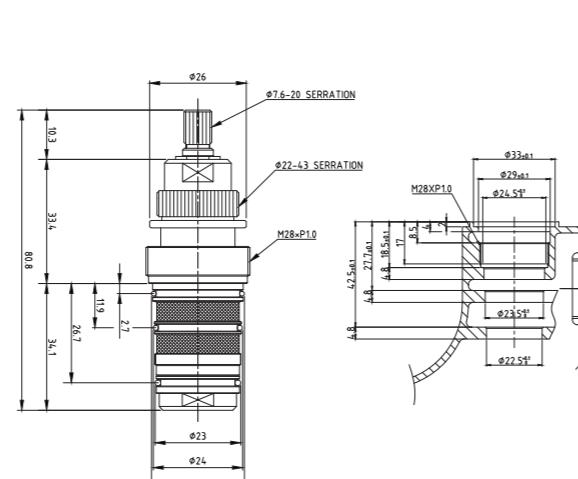


SCC TH800



Turning angle	330°
Temperature range	20~50°C
Temperature stop	38°C or 40°C
Inlet water supply temperature	Hot water 70°C Cold water 15°C
Outlet water temperature adjusted on 38°C	38°C±1.5°C
Outlet flow rate adjusted on 38°C	20ℓ / min (3bar)
Operating pressure	0.5~6bar(0.05~0.6Mpa)
Recommend pressure	1~5bar(0.1~0.5Mpa)
Life cycle	100,000 cycles

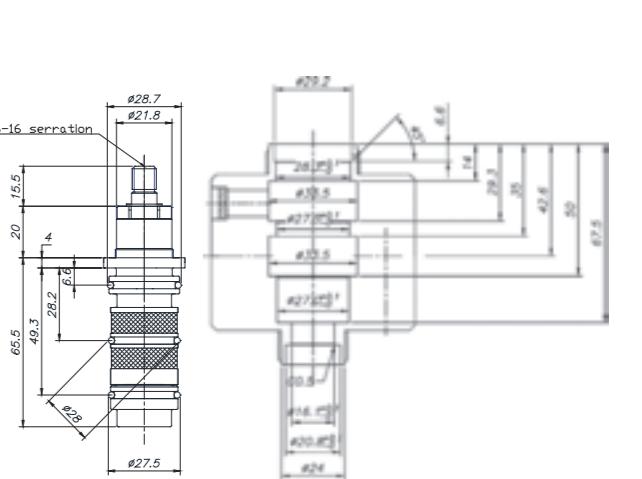
Dimensions (in mm)



SCC TH700



Dimensions (in mm)



50 Shinhans Ceramic Products Guide

CERTIFICATIONS

