

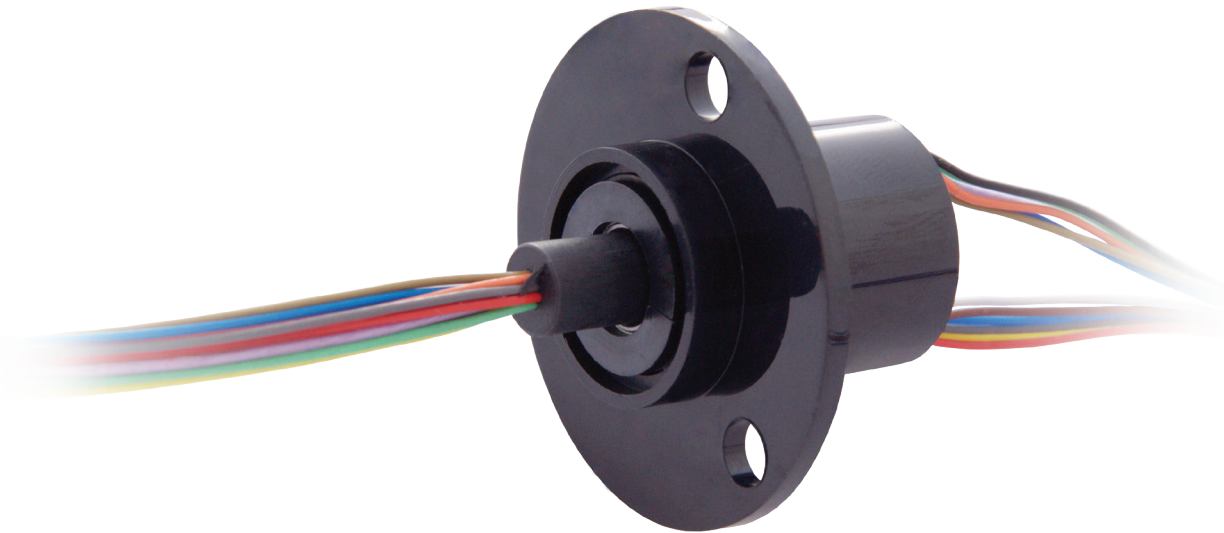
SVTS A Series

Capsule

TDS Precision Products

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OPTIMAL SIGNAL TRANSMISSION



COMPACT



HIGH CIRCUIT DENSITY

The capsule A Series Slip Rings, thanks to their reduced diameter, guarantees a low peripheral speed between rings and brushes, thus to reduce material consumption so as to enhance its lifetime and minimise electrical noise and interferences between rings.

This Series has been designed keeping signal transmission optimisation, compactness and reliability in mind. Moreover, this Slip Ring family is available in a wide range of configurations, from 3 to 56 circuits.

The gold-gold technology used for both rings and brushes, makes high data rate and high frequency signal transmission possible.

Benefits

Optimal signal transmission (gold-gold technology)

Compact

Light

Many customisations

High circuits density

Combinable with fluidic rotary joints and FORJ

Water resistant (IP65)*

Cost-effective

Main applications

Video systems

Moving head projectors

Packaging

Hose & cable reels






















Control systems











Medical / pharmaceutical

Wind turbines

*Optional: SVTS A 03 only

Product code (go to page 9 for the detailed coding system)

SVTS A   -  -  -   /   -     /     -   -   

-  Series
-  Model
-  IP grade ¹
-  Flange type
-  Power circuits
-  Signal circuits
-  Cable length (brush side)
-  Cable length (ring side)
-  Temperature range ²
-  Special options ³

¹ IP51 [S]; IP65 [U]

² Standard [ST]; Extended [ET]

³ Ethernet 100BaseT [E1M]; Ethernet 1000BaseT [E1G]

Features

Current	1A: continuous - 2A peak: AWG28 2A: AWG26 4A: AWG22 6A: AWG20 8A: AWG16
Voltage	240 VDC / 240 VAC
Cables	Silver plated / PTFE insulated / colour coded
Cables length	Standard: 250mm; custom cable length increase possible as multiples of 250mm
Dielectric strength	500 VAC @ 60Hz @ 60 sec
Insulation resistance	> 500 MΩ / 500 VDC
Dynamic contact resistance	< 10 mΩ
Nominal speed	250 rpm (higher speed, up to 600 rpm, upon request)
Bearings	Miniature high-precision stainless steel ball bearings
Housing	ABS (hard plastic); Alluminium (SVTS A04)
Contact	Gold-gold (alloy)
Temperature	-20°C to +80°C (-40°C as option)
Protection	IP51; IP65*
Expected lifetime	10 ⁷ revolutions (depending on speed, environmental conditions and size)

*Optional: SVTS A 03 only

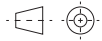
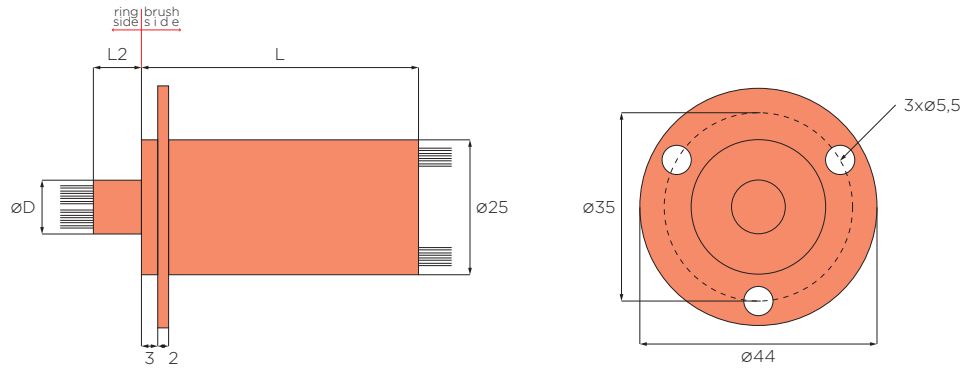
Combinations

Electric	Fieldbus	Fluidic (combined solutions)
Signals	EtherCAT	Air
	Profinet	Oil
	Sercos	Water
	Powerlink	
	Ethernet	

Customizations

Cables	Mechanical design	Flange
Materials		

SVTS A 04



See page 26 for different flange options
Custom cable length increase possible as multiples of 250mm

Model	Number of circuits				Dimensions				Housing
	Total	Signals	Power		Outside \varnothing	L	L2	D	
		1-2A	6A	8A					
SVTS A 04-S-A-00/30	30	30	-	-	25	51.5	9	9.8	AI
SVTS A 04-S-A-04/18	22	18	4	-	25	51.5	9	9.8	AI
SVTS A 04-S-A-03/15	18	15	-	3	25	51.5	9	9.8	AI
SVTS A 04-S-A-00/36	36	36	-	-	25	59.5	9	9.8	AI
SVTS A 04-S-A-04/24	28	24	4	-	25	59.5	9	9.8	AI
SVTS A 04-S-A-04/16	20	16	-	4	25	59.5	9	9.8	AI
SVTS A 04-S-A-00/46	46	46	-	-	25	72.5	9	9.8	AI
SVTS A 04-S-A-00/56	56	56	-	-	25	85.5	9	9.8	AI
SVTS A 04-S-A-04/44	48	44	4	-	25	85.5	9	9.8	AI
SVTS A 04-S-A-04/36	40	36	-	4	25	85.5	9	9.8	AI
IP65 SVTS A 04-U-A-00/30	30	30	-	-	25	55.7	12.5	11.5	AI
SVTS A 04-U-A-04/18	22	18	4	-	25	55.7	12.5	11.5	AI
SVTS A 04-U-A-03/15	18	15	-	3	25	55.7	12.5	11.5	AI
SVTS A 04-U-A-00/36	36	36	-	-	25	63.5	12.5	11.5	AI
SVTS A 04-U-A-04/24	28	24	4	-	25	63.5	12.5	11.5	AI
SVTS A 04-U-A-04/16	20	16	-	4	25	63.5	12.5	11.5	AI
SVTS A 04-U-A-00/46	46	46	-	-	25	76.5	12.5	11.5	AI
SVTS A 04-U-A-00/56	56	56	-	-	25	89.5	12.5	11.5	AI
SVTS A 04-U-A-04/44	48	44	4	-	25	89.5	12.5	11.5	AI
SVTS A 04-U-A-04/36	40	36	-	4	25	89.5	12.5	11.5	AI

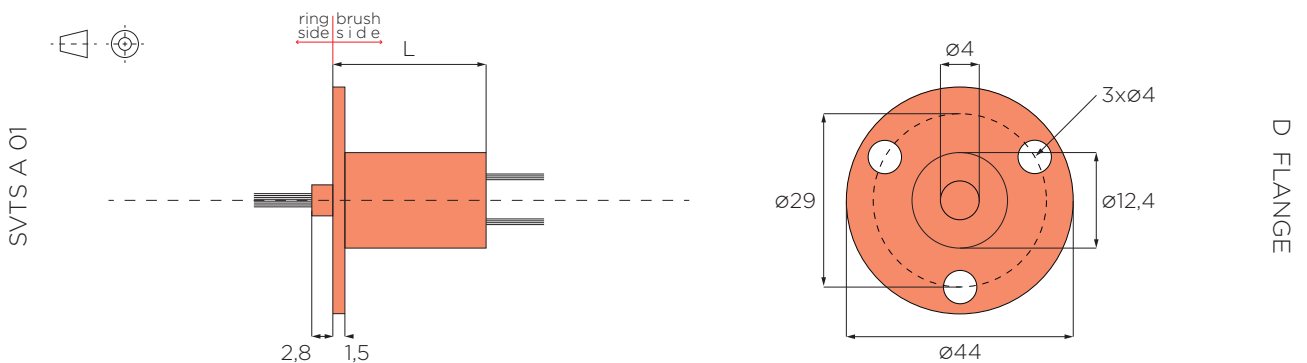
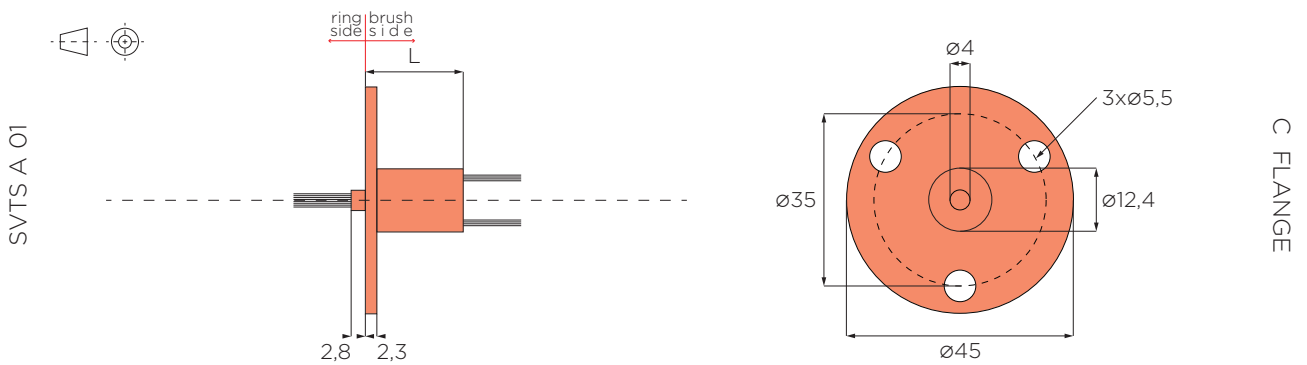
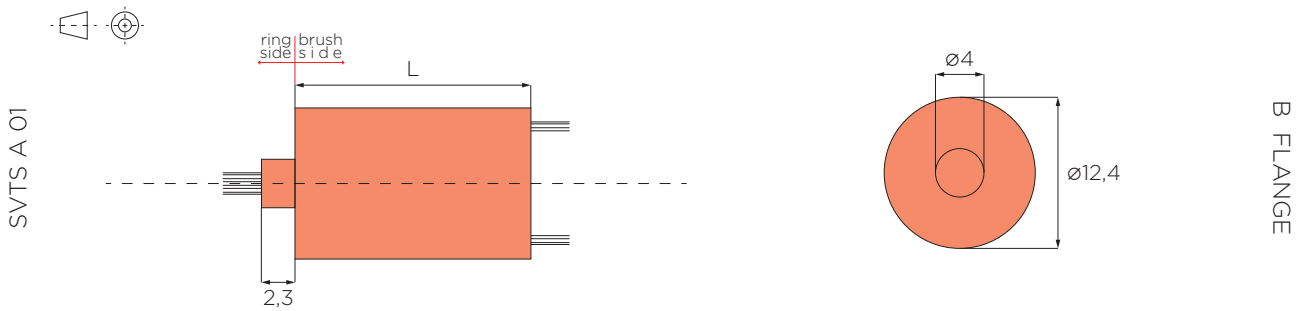
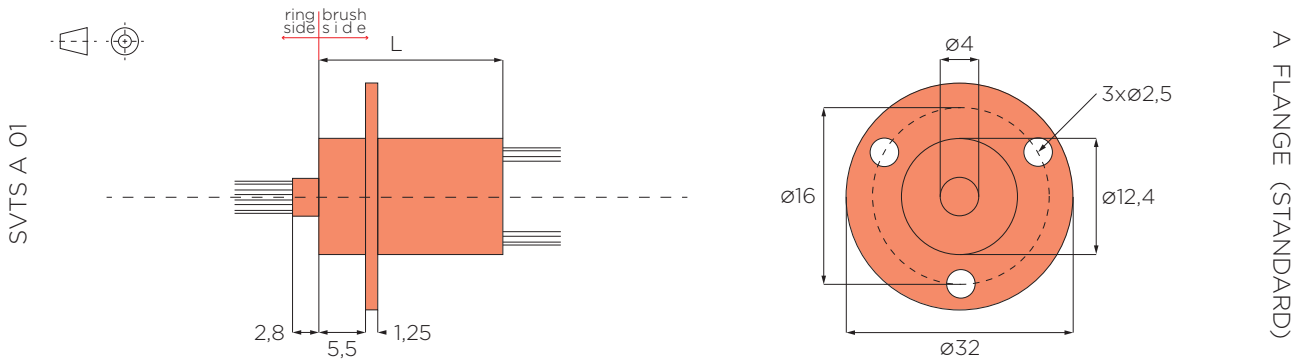
Ethernet option*

Model	Number of circuits			L	Weight (kg)
	Total	Signals 2A	Ethernet		
SVTS A 04-S-A-00/24-...-E1M	24	24	100BaseT	51,5	0,10
SVTS A 04-S-A-00/30-...-E1M	30	30	100BaseT	59,5	0,12
SVTS A 04-S-A-00/40-...-E1M	40	40	100BaseT	72,5	0,14
SVTS A 04-S-A-00/50-...-E1M	50	50	100BaseT	85,5	0,16
SVTS A 04-S-A-00/18-...-E1G	18	18	1000BaseT	51,5	0,10
SVTS A 04-S-A-00/24-...-E1G	24	24	1000BaseT	59,5	0,12
SVTS A 04-S-A-00/34-...-E1G	34	34	1000BaseT	72,5	0,14
SVTS A 04-S-A-00/44-...-E1G	44	44	1000BaseT	85,5	0,16

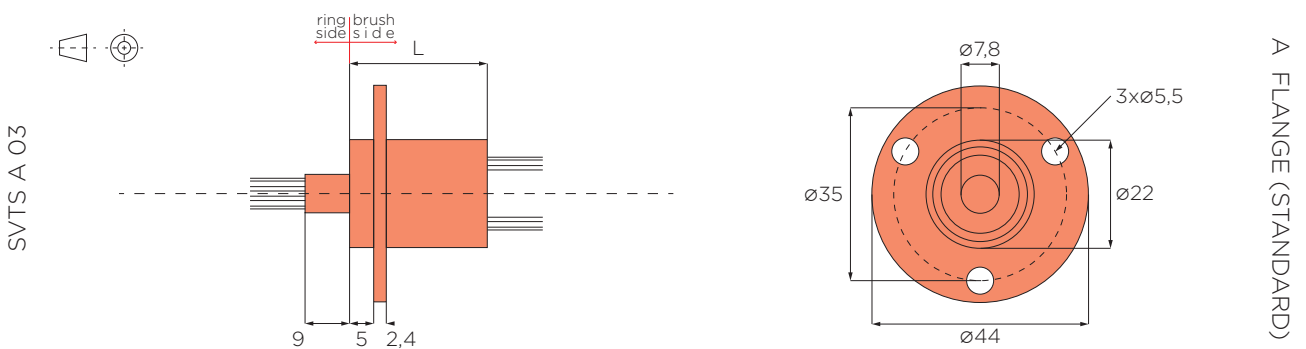
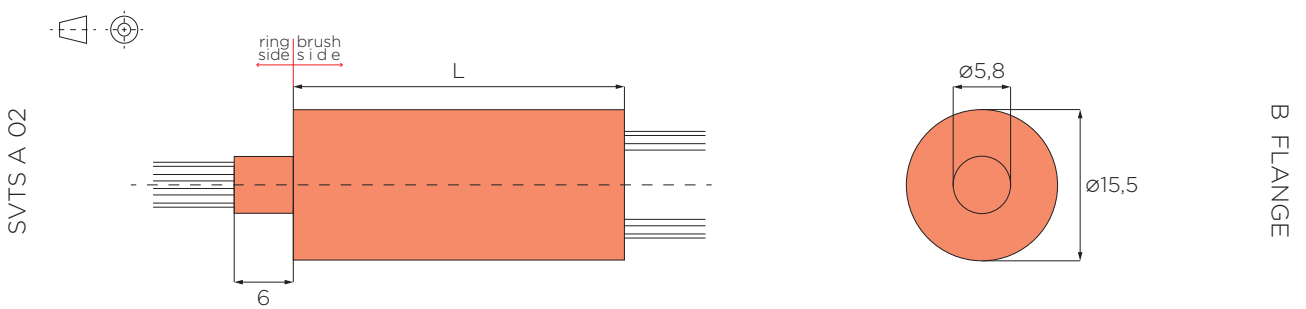
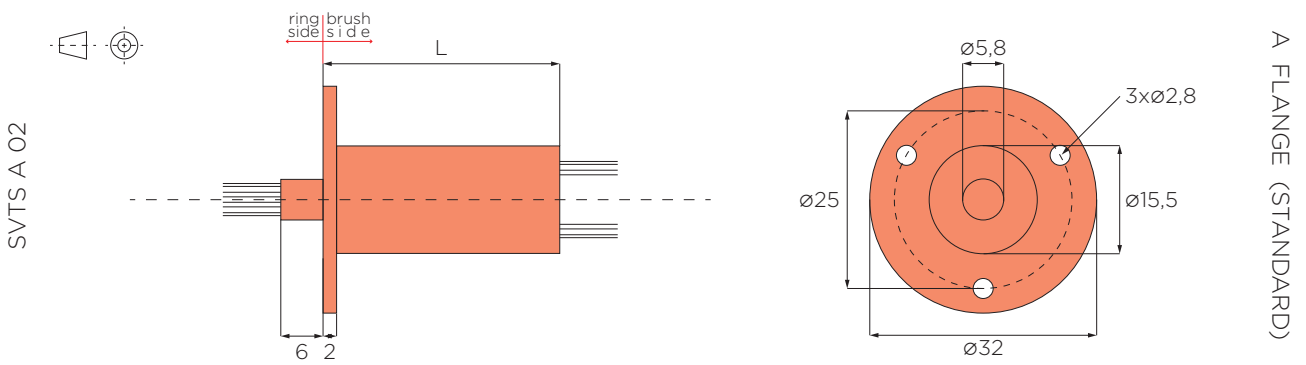
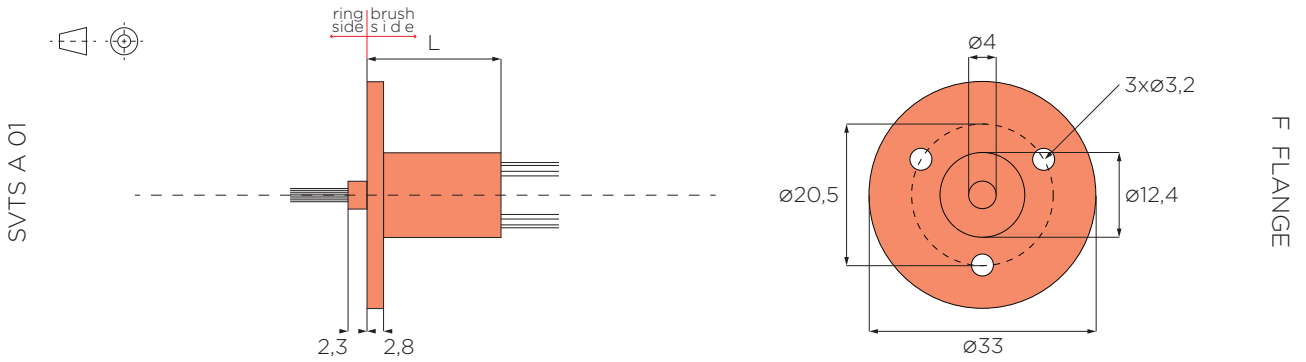
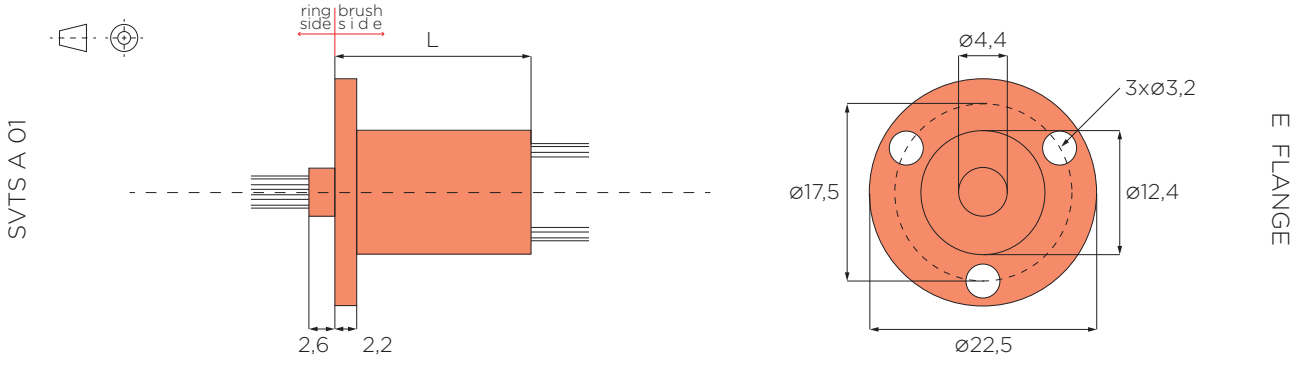
*RJ 45 connectors included

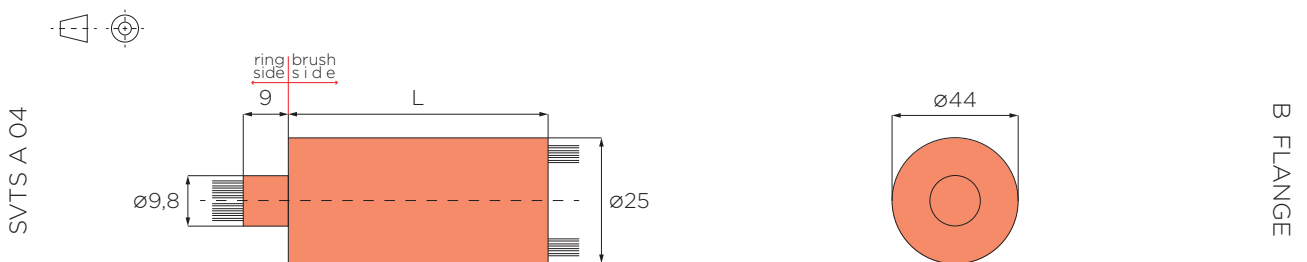
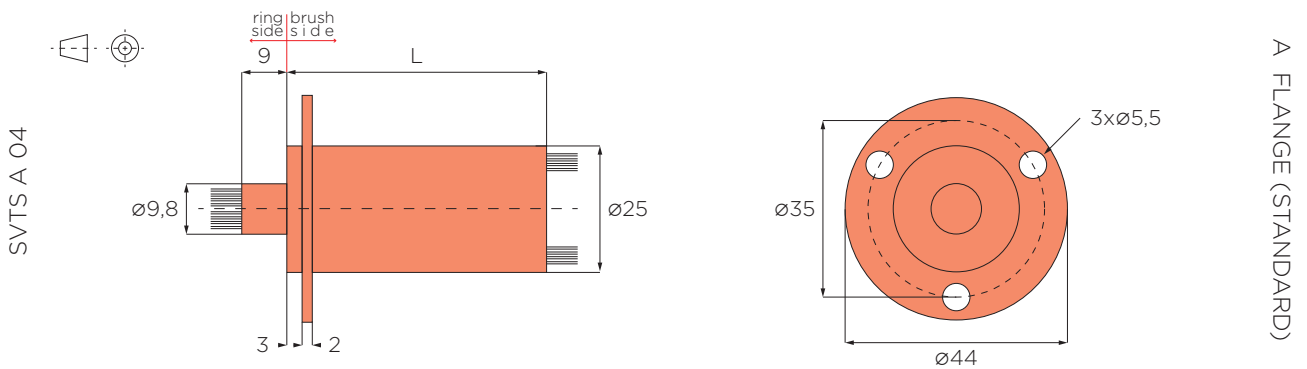
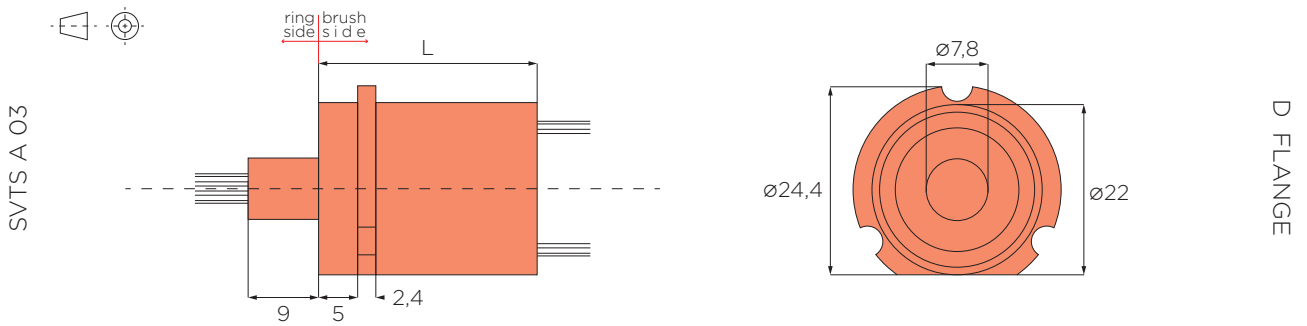
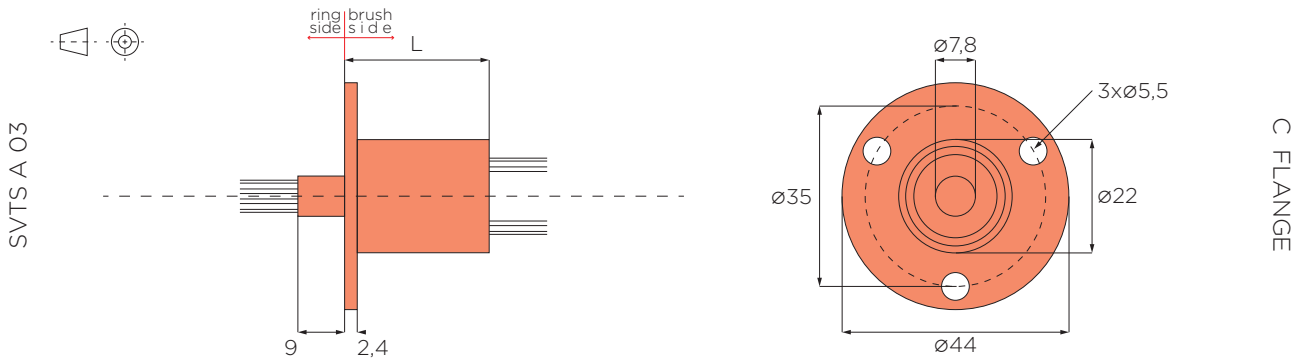
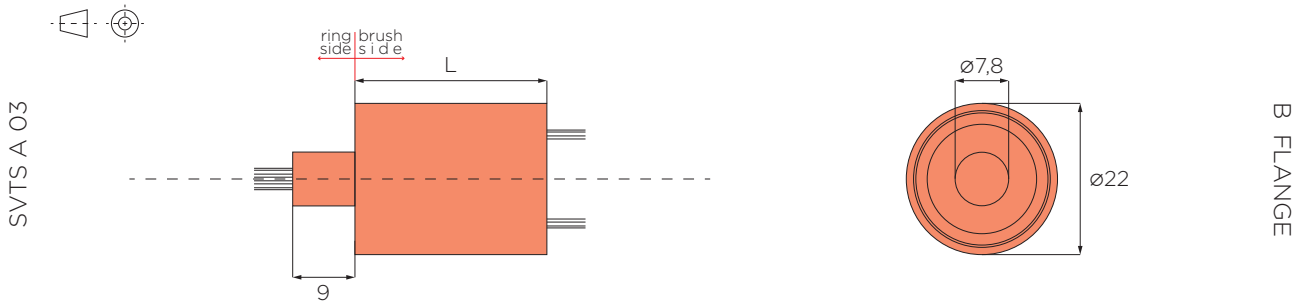
All dimensions in millimeters, unless otherwise specified

Flange types



All dimensions in millimeters, unless otherwise specified





Hello,
how can I help you?



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