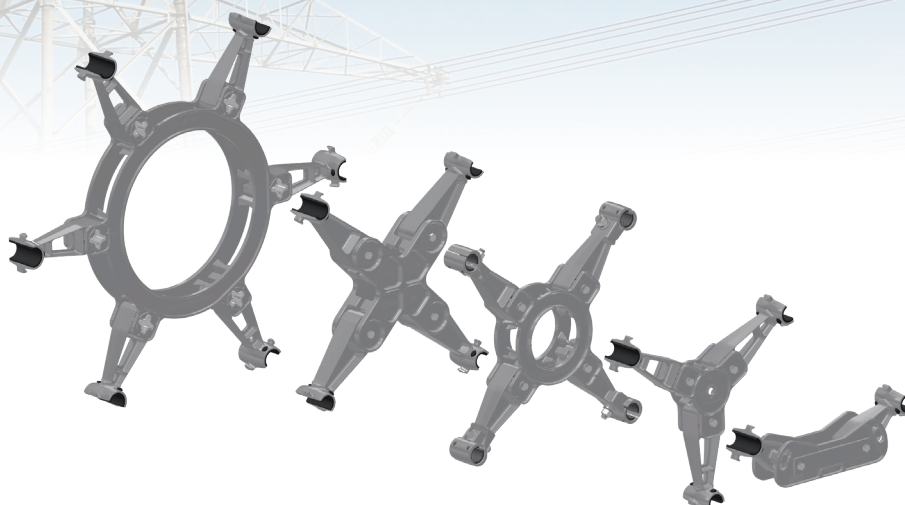




POWER LINE FITTINGS | SINCE 1972

SPACER DAMPER



TECHNICAL
PARTER



SPACER DAMPER

Introduction

Spacer-dampers are inline devices used to counter wind-induced vibration phenomena that can cause major damage to overhead transmission lines with bundled conductors.

Wind-induced vibrations in transmission lines are a significant concern for both single and bundled conductor systems used in high-voltage and extra-high-voltage grids. Typically occurring at wind speeds of 1 to 7 m/s, these vibrations result from vortices shedding on the downstream side of the conductors. The frequency of these vibrations, ranging from 4 to 120 Hz, depends on wind velocity and conductor diameter. Conductors can exhibit vertical plane vibrations with amplitudes up to 1 times the conductor diameter, inducing alternating bending strains in addition to static tensile and bending strains. This can lead to various forms of conductor damage, from fatigue breakages to complete failure.



Loosened spacer clamps due to conductor vibrations can lead to rapid conductor wear through the span, while vibrations propagating through fittings to towers can result in tower member failure. Another concern is low-frequency sub span oscillations, occurring at wind speeds exceeding 6 m/s, which may cause sub conductors to collide. These oscillations, primarily affecting horizontally adjacent sub conductors, are influenced by the wake of the upstream sub conductor. Ultimately, wind-induced vibrations pose a significant threat to the integrity of transmission line systems, necessitating careful consideration and mitigation strategies.





Our production capacity is approximately 35,000 spacer dampers per month

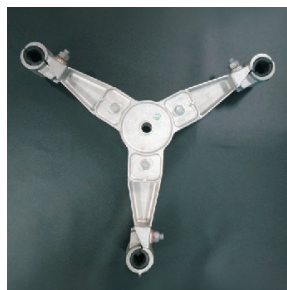
History

When conventional systems failed to sufficiently mitigate vibrations, transmission line components such as conductors and fittings, experienced premature aging, leading to damage at attachment points.



In response, Hydro Québec, Canada initiated an extensive research and development endeavor to design and improved spacer damper solution. This culminated in the creation of a new design in 1979, characterized by an innovative articulated structure that provided unparalleled strength and a flexible hinge mechanism for attaching them to the conductors.

Acknowledged for its exceptional effectiveness, durability, and protective qualities for the conductor attachment, the new spacer-dampers were adopted for all new Hydro Québec lines constructed since the 1980s. Furthermore,



they were employed to replace older models across the grid, significantly enhancing the reliability and quality of electrical service.





Over 3
million
Spacer
Dampers
supplied

All Spacer
Dampers are
“Performance
Tested” at
IREQ, Canada

Technical Collaboration

In 1994, **TAG** initiated a technical collaboration with Hydro Québec to jointly redesign, test and manufacturers spacer-dampers suitable for tropical regions. This collaboration fostered a strong technical partnership, facilitating the introduction of various spacer-damper designs tailored to diverse environmental conditions, bundle configurations, and operating temperature spanning from -30°C to $+50^{\circ}\text{C}$. To date, more than 3 million spacer-dampers have been supplied and installed in configurations of twin, triple, quadruple, hexagonal, and octagonal bundles. With over 800,000 spacer damper installed on HydroQuébec lines and an additional 3 million units supplied worldwide by **TAG** corporation in the last 30 years, the impact of this robust design has resonated across international transmission networks.



THE TAG-HQ DESIGN

TAG Corporation supplies the **TAG**-HQ spacer-dampers worldwide, providing a spectrum of designs customized to meet diverse customer requirements. These designs cater to a variety of environments, ranging from tropical settings to regions prone to severe weather conditions like wind, ice, and arid desert.

TAG - HQ Spacer Dampers are available in six distinct configurations:

1. Bolted Cushioned Clamp (Type 1)
2. Bolted Metal to Metal Clamp (Type 2)
3. Preformed Rod with Cushioned Clamp (Type 3)
4. Preformed Rod with Cushioned Clamp (Heavy) (Type 4)
5. Bolted Clamp with Protection Rods (Type 5)
6. Hinged Arm (nut cracker) (Type 6)

Spacer Dampers suitable for HTLS conductors designed to work at up to 240°C conductor temperatures and over annealed aluminium strands have been designed, tested and supplied to numerous



THE TAG-HQ ADVANTAGE

Designed to operate in
extreme temperatures
from -30°C to +50°C



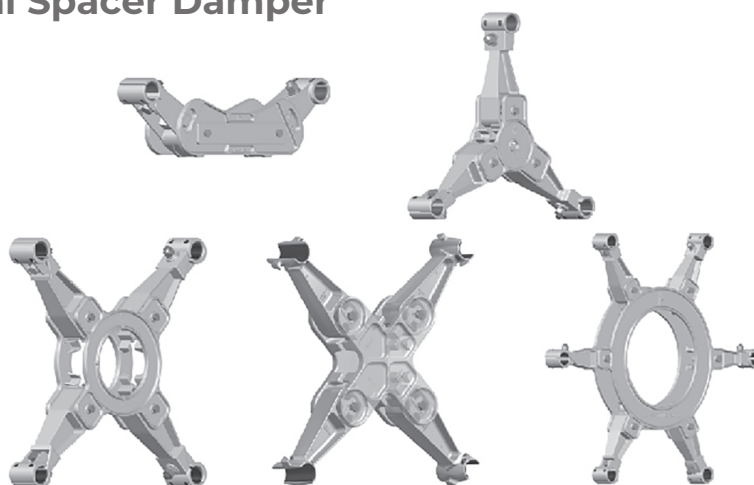
- Proven effectiveness in conductor vibration **control**
- Robust and **fatigue-proof** articulated arms
- Protective and **highly reliable** conductor attachment
- **Maintenance-free** so lower costs
- Novel articulated design providing **unequalled strength & flexible** attachment
- **Optimal** distribution along lines

The Hydro-Quebec spacer-damper ensures vibration control and endurance superior to that of other spacers available on the market. Its strong all-round performance, especially under heavy ice load conditions, provides effective long-term protection against clamp loosening and conductor wear.

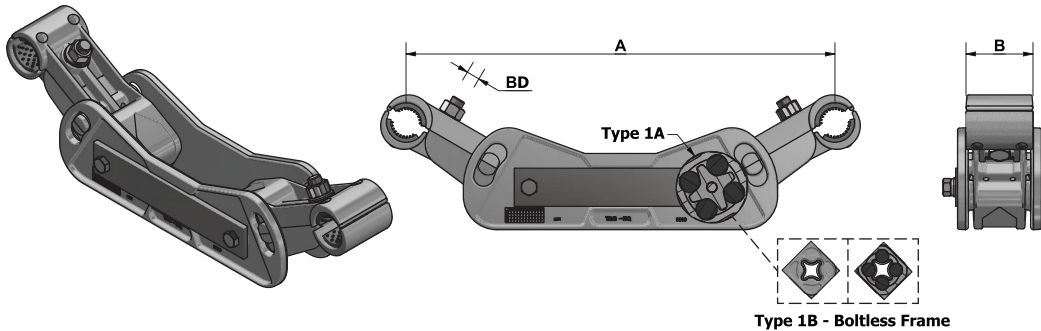
Configurations

All the TAG - HQ design are available in the following bundle configurations:

1. **Twin Spacer Damper**
2. **Triple Spacer Damper**
3. **Quadruple Spacer Damper** (Symmetrical)
4. **Quadruple Spacer Damper** (Asymmetrical)
5. **Hexagonal Spacer Damper**
6. **Octagonal Spacer Damper**



TWIN SPACER DAMPER (TYPE 1) Bolted Clamp (Clamp Cushion Type)



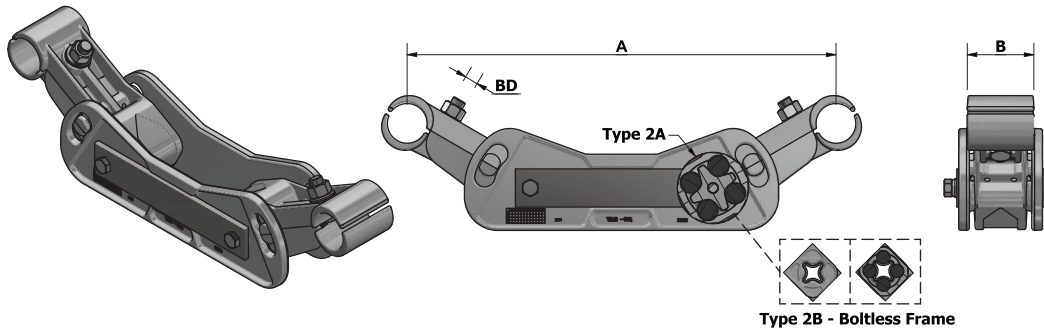
SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)		
		mm	In	A*	B	BD
1	TSD1A019/L/01	18.01 - 19.00	0.709 - 0.748	450	70	M14
2	TSD1A020/L/01	19.01 - 20.00	0.748 - 0.787	450	70	M14
3	TSD1A021/L/01	20.01 - 21.00	0.787 - 0.826	450	70	M14
4	TSD1A022/L/01	21.01 - 22.00	0.827 - 0.866	450	70	M14
5	TSD1A023/L/01	22.01 - 23.00	0.866 - 0.905	450	70	M14
6	TSD1A024/L/01	23.01 - 24.00	0.905 - 0.944	450	70	M14
7	TSD1A025/L/01	24.01 - 25.00	0.945 - 0.984	450	70	M14
8	TSD1A026/L/01	25.01 - 26.00	0.984 - 1.023	450	70	M14
9	TSD1A027/L/01	26.01 - 27.00	1.024 - 1.062	450	70	M14
10	TSD1A028/L/01	27.01 - 28.00	1.063 - 1.102	450	70	M14
11	TSD1A029/L/01	28.01 - 29.00	1.102 - 1.141	450	70	M14
12	TSD1A030/L/01	29.01 - 30.00	1.142 - 1.181	450	70	M14
13	TSD1A031/L/01	30.01 - 31.00	1.181 - 1.220	450	70	M14
14	TSD1A032/L/01	31.01 - 32.00	1.220 - 1.259	450	70	M14
15	TSD1A033/L/01	32.01 - 33.00	1.260 - 1.299	450	70	M14
16	TSD1A034/L/01	32.31 - 33.30	1.299 - 1.338	450	70	M14
17	TSD1A035/L/01	34.01 - 35.00	1.338 - 1.377	450	70	M14
18	TSD1A036/L/01	35.01 - 36.00	1.378 - 1.417	450	70	M14
19	TSD1A037/L/01	36.01 - 37.00	1.417 - 1.456	450	70	M14
20	TSD1A038/L/01	37.01 - 38.00	1.457 - 1.496	450	70	M14
21	TSD1A039/L/01	38.01 - 39.00	1.496 - 1.535	450	70	M14
22	TSD1A040/L/01	39.01 - 40.00	1.535 - 1.574	450	70	M14
23	TSD1A041/L/01	40.01 - 41.00	1.575 - 1.614	450	70	M14
24	TSD1A042/L/01	41.01 - 42.00	1.614 - 1.653	450	70	M14
25	TSD1A043/L/01	42.01 - 43.00	1.653 - 1.692	450	70	M14
26	TSD1A044/L/01	43.01 - 44.00	1.693 - 1.732	450	70	M14

*For Spacing Options: Replace "L" in TSD1A019/L/01, with **H-300, I-330, J-350, K-400, L-450, M-457 & N-500**

For Boltless Frame Options: Replace "A" in TSD1A019/L/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Keeper Piece, Frame & Pivot	Aluminium Alloy	
Bolt, Nut & Washers	Galvanized Steel	
Damping Cylinder	Elastometer	Standard Elastomer rated for 125° COT
Clamp Cushion	Elastomer	(High Temperature Elastomer rated for 230° COT)

TWIN SPACER DAMPER (TYPE 2) Bolted Clamp (Metal to Metal Type)



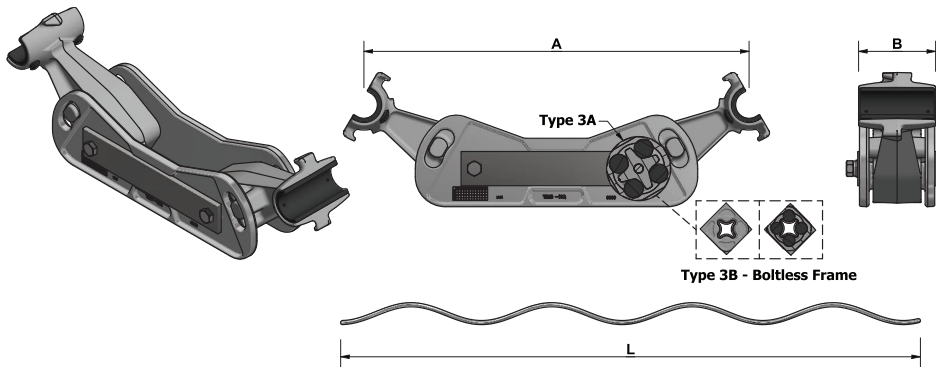
SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)		
		mm	In	A*	B	BD
1	TSD2A020/L/01	18.01 - 20.00	0.709 - 0.787	450	70	M14
2	TSD2A022/L/01	20.01 - 22.00	0.787 - 0.866	450	70	M14
3	TSD2A024/L/01	22.01 - 24.00	0.866 - 0.944	450	70	M14
4	TSD2A026/L/01	24.01 - 26.00	0.945 - 1.023	450	70	M14
5	TSD2A028/L/01	26.01 - 28.00	1.024 - 1.102	450	70	M14
6	TSD2A030/L/01	28.01 - 30.00	1.102 - 1.181	450	70	M14
7	TSD2A032/L/01	30.01 - 32.00	1.181 - 1.259	450	70	M14
8	TSD2A034/L/01	32.01 - 34.00	1.260 - 1.338	450	70	M14
9	TSD2A036/L/01	34.01 - 36.00	1.338 - 1.417	450	70	M14
10	TSD2A038/L/01	36.01 - 38.00	1.417 - 1.496	450	70	M14
11	TSD2A040/L/01	38.01 - 40.00	1.496 - 1.574	450	70	M14
12	TSD2A041/L/01	40.01 - 41.00	1.575 - 1.614	450	70	M14
13	TSD2A042/L/01	41.01 - 42.00	1.614 - 1.653	450	70	M14
14	TSD2A0427/L/01	42.01 - 42.70	1.653 - 1.681	450	70	M14
15	TSD2A044/L/01	42.71 - 44.00	1.681 - 1.732	450	70	M14
16	TSD2A046/L/01	44.01 - 46.00	1.732 - 1.811	450	70	M14
17	TSD2A048/L/01	46.01 - 48.00	1.811 - 1.889	450	70	M14

*For Spacing Options: Replace "L" in TSD2A020/L/01, with **H-300, I-330, J-350, K-400, L-450, M-457 & N-500**
For Boltless Frame Options: Replace "A" in TSD2A019/L/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Keeper Piece, Frame & Pivot	Aluminium Alloy	(High Temperature Application upto 150°C)
Bolt, Nut & Washers	Galvanized Steel	
Damping Cylinder	Elastometer	

TWIN SPACER DAMPER (TYPE 3)

Retaining Rod Type



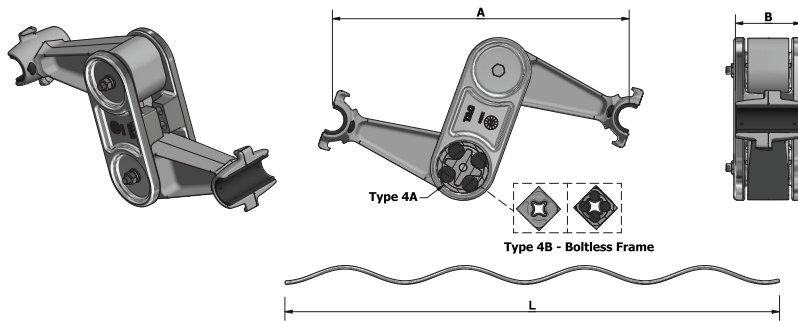
SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)		
		mm	In	A*	B	L
1	TSD3A1880/L/01	18.01 - 18.80	0.709 - 0.740	450	90	1100
2	TSD3A1960/L/01	18.81 - 19.60	0.740 - 0.771	450	90	1100
3	TSD3A2060/L/01	19.61 - 20.60	0.772 - 0.811	450	90	1100
4	TSD3A2150/L/01	20.61 - 21.50	0.811 - 0.846	450	90	1100
5	TSD3A2230/L/01	21.51 - 22.30	0.846 - 0.877	450	90	1100
6	TSD3A2300/L/01	22.31 - 23.00	0.878 - 0.905	450	90	1100
7	TSD3A2360/L/01	23.01 - 23.60	0.905 - 0.929	450	90	1100
8	TSD3A2480/L/01	23.61 - 24.80	0.929 - 0.976	450	90	1100
9	TSD3A2550/L/01	24.81 - 25.50	0.976 - 1.003	450	90	1100
10	TSD3A2630/L/01	25.51 - 26.30	1.004 - 1.035	450	90	1100
11	TSD3A2700/L/01	26.31 - 27.00	1.035 - 1.062	450	90	1100
12	TSD3A2770/L/01	27.01 - 27.70	1.063 - 1.090	450	90	1100
13	TSD3A2830/L/01	27.71 - 28.30	1.090 - 1.114	450	90	1100
14	TSD3A2930/L/01	28.31 - 29.30	1.114 - 1.153	450	90	1100
15	TSD3A3050/L/01	29.31 - 30.50	1.153 - 1.200	450	90	1100
16	TSD3A3130/L/01	30.51 - 31.30	1.201 - 1.232	450	90	1100
17	TSD3A3220/L/01	31.31 - 32.20	1.232 - 1.267	450	90	1100
18	TSD3A3300/L/01	32.21 - 33.00	1.268 - 1.299	450	90	1100
19	TSD3A3370/L/01	33.01 - 33.70	1.299 - 1.326	450	90	1100
20	TSD3A3450/L/01	33.71 - 34.50	1.327 - 1.358	450	90	1100
21	TSD3A3530/L/01	34.51 - 35.30	1.358 - 1.389	450	90	1100
22	TSD3A3600/L/01	35.31 - 36.00	1.390 - 1.417	450	90	1100
23	TSD3A3700/L/01	36.01 - 37.00	1.417 - 1.456	450	90	1100
24	TSD3A3780/L/01	37.01 - 37.80	1.457 - 1.488	450	90	1100
25	TSD3A3860/L/01	37.81 - 38.60	1.488 - 1.519	450	90	1100
26	TSD3A3940/L/01	38.61 - 39.40	1.520 - 1.551	450	90	1100
22	TSD3A4020/L/01	39.41 - 40.20	1.551 - 1.582	450	90	1100
23	TSD3A4120/L/01	40.21 - 41.20	1.583 - 1.622	450	90	1100
24	TSD3A4210/L/01	41.21 - 42.10	1.622 - 1.657	450	90	1100
25	TSD3A4300/L/01	42.11 - 43.00	1.657 - 1.692	450	90	1100
26	TSD3A4400/L/01	43.01 - 44.00	1.693 - 1.732	450	90	1100

*For Spacing Options: Replace "L" in TSD3A1880/L/01, with **H-300, I-330, J-350, K-400, L-450, M-457 & N-500**
For Boltless Frame Options: Replace "A" in TSD3A1880/L/01, with **"B"**

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Frame & Pivot	Aluminium Alloy	
Bolt, Nut & Washers	Galvanized Steel	
Helical Retaining Rods	Aluminium Alloy	
Damping Cylinder	Elastomer	Standard Elastomer rated for 125° COT
Clamp Cushion	Elastomer	(High Temperature Elastomer rated for 230° COT)

TWIN SPACER DAMPER (TYPE 4)

Retaining Rod Type (Extreme Ice & Snow Conditions)



SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)		
		mm	In	A*	B	L
1	TSD4A1880/L/01	18.01 - 18.80	0.709 - 0.740	450	90	1100
2	TSD4A1960/L/01	18.81 - 19.60	0.740 - 0.771	450	90	1100
3	TSD4A2060/L/01	19.61 - 20.60	0.772 - 0.811	450	90	1100
4	TSD4A2150/L/01	20.61 - 21.50	0.811 - 0.846	450	90	1100
5	TSD4A2230/L/01	21.51 - 22.30	0.846 - 0.877	450	90	1100
6	TSD4A2300/L/01	22.31 - 23.00	0.878 - 0.905	450	90	1100
7	TSD4A2360/L/01	23.01 - 23.60	0.905 - 0.929	450	90	1100
8	TSD4A2480/L/01	23.61 - 24.80	0.929 - 0.976	450	90	1100
9	TSD4A2550/L/01	24.81 - 25.50	0.976 - 1.003	450	90	1100
10	TSD4A2630/L/01	25.51 - 26.30	1.004 - 1.035	450	90	1100
11	TSD4A2700/L/01	26.31 - 27.00	1.035 - 1.062	450	90	1100
12	TSD4A2770/L/01	27.01 - 27.70	1.063 - 1.090	450	90	1100
13	TSD4A2830/L/01	27.71 - 28.30	1.090 - 1.114	450	90	1100
14	TSD4A2930/L/01	28.31 - 29.30	1.114 - 1.153	450	90	1100
15	TSD4A3050/L/01	29.31 - 30.50	1.153 - 1.200	450	90	1100
16	TSD4A3130/L/01	30.51 - 31.30	1.201 - 1.232	450	90	1100
17	TSD4A3220/L/01	31.31 - 32.20	1.232 - 1.267	450	90	1100
18	TSD4A3300/L/01	32.21 - 33.00	1.268 - 1.299	450	90	1100
19	TSD4A3370/L/01	33.01 - 33.70	1.299 - 1.326	450	90	1100
20	TSD4A3450/L/01	33.71 - 34.50	1.327 - 1.358	450	90	1100
21	TSD4A3530/L/01	34.51 - 35.30	1.358 - 1.389	450	90	1100
22	TSD4A3600/L/01	35.31 - 36.00	1.390 - 1.417	450	90	1100
23	TSD4A3700/L/01	36.01 - 37.00	1.417 - 1.456	450	90	1100
24	TSD4A3780/L/01	37.01 - 37.80	1.457 - 1.488	450	90	1100
25	TSD4A3860/L/01	37.81 - 38.60	1.488 - 1.519	450	90	1100
26	TSD4A3940/L/01	38.61 - 39.40	1.520 - 1.551	450	90	1100
22	TSD4A4020/L/01	39.41 - 40.20	1.551 - 1.582	450	90	1100
23	TSD4A4120/L/01	40.21 - 41.20	1.583 - 1.622	450	90	1100
24	TSD4A4210/L/01	41.21 - 42.10	1.622 - 1.657	450	90	1100
25	TSD4A4300/L/01	42.11 - 43.00	1.657 - 1.692	450	90	1100
26	TSD4A4400/L/01	43.01 - 44.00	1.693 - 1.732	450	90	1100

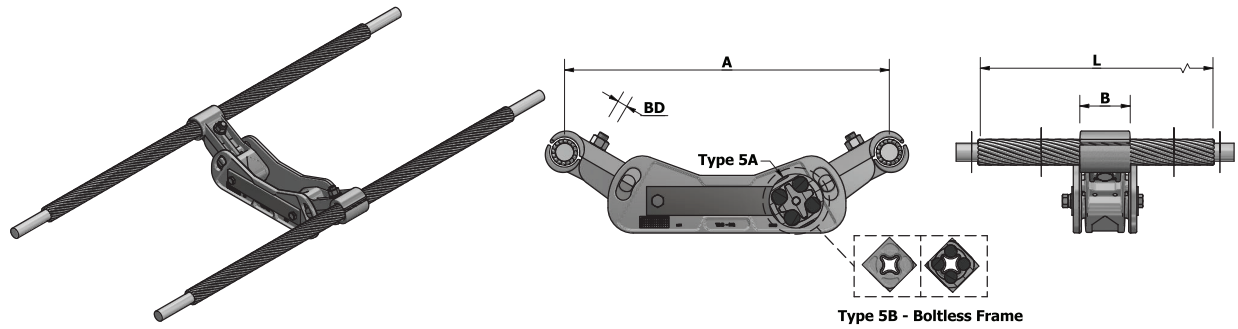
*For Spacing Options: Replace "L" in TSD4A1880/L/01, with **J-350, K-400, L-450, M-457 & N-500**

For Boltless Frame Options: Replace "A" in TSD4A1880/L/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Frame & Pivot	Aluminium Alloy	
Bolt, Nut & Washers	Galvanized Steel	
Helical Retaining Rods	Aluminium Alloy	
Damping Cylinder	Elastomer	Standard Elastomer rated for 125° COT
Clamp Cushion	Elastomer	(High Temperature Elastomer rated for 230° COT)

TWIN SPACER DAMPER (TYPE 5)

Protection Rod Type



SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)			
		mm	In	A*	B	L	BD
1	TSD5A1880/L/01	18.01 - 18.80	0.709 - 0.740	450	70	1000	M14
2	TSD5A1960/L/01	18.81 - 19.60	0.740 - 0.771	450	70	1000	M14
3	TSD5A2020/L/01	19.61 - 20.20	0.772 - 0.795	450	70	1000	M14
4	TSD5A2160/L/01	20.21 - 21.60	0.795 - 0.850	450	70	1000	M14
5	TSD5A2300/L/01	21.61 - 23.00	0.850 - 0.905	450	70	1000	M14
6	TSD5A23.60/L/01	23.01 - 23.60	0.905 - 0.929	450	70	1000	M14
7	TSD5A2450/L/01	23.61 - 24.50	0.929 - 0.964	450	70	1000	M14
8	TSD5A2520/L/01	24.51 - 25.20	0.964 - 0.992	450	70	1000	M14
9	TSD5A2679/L/01	25.21 - 26.79	0.992 - 1.054	450	70	1000	M14
10	TSD5A2730/L/01	26.80 - 27.30	1.055 - 1.074	450	70	1000	M14
11	TSD5A2820/L/01	27.31 - 28.20	1.075 - 1.110	450	70	1000	M14
12	TSD5A2930/L/01	28.21 - 29.30	1.110 - 1.153	450	70	1000	M14
13	TSD5A3010/L/01	29.31 - 30.10	1.153 - 1.185	450	70	1000	M14
14	TSD5A3130/L/01	30.10 - 31.30	1.185 - 1.232	450	70	1000	M14
15	TSD5A3230/L/01	31.31 - 32.30	1.232 - 1.271	450	70	1000	M14
16	TSD5A3330/L/01	32.31 - 33.30	1.272 - 1.311	450	70	1000	M14
17	TSD5A3430/L/01	33.31 - 34.30	1.311 - 1.350	450	70	1000	M14
18	TSD5A3530/L/01	34.31 - 35.30	1.350 - 1.389	450	70	1000	M14
19	TSD5A3660/L/01	35.31 - 36.60	1.390 - 1.440	450	70	1000	M14
20	TSD5A3730/L/01	36.70 - 37.30	1.444 - 1.468	450	70	1000	M14
21	TSD5A3920/L/01	37.31 - 39.20	1.468 - 1.543	450	70	1000	M14
22	TSD5A4150/L/01	39.21 - 41.50	1.543 - 1.633	450	70	1000	M14
23	TSD5A4330/L/01	41.51 - 43.30	1.634 - 1.704	450	70	1000	M14
24	TSD4A3780/L/01	43.31 - 44.10	1.705 - 1.736	450	70	1000	M14

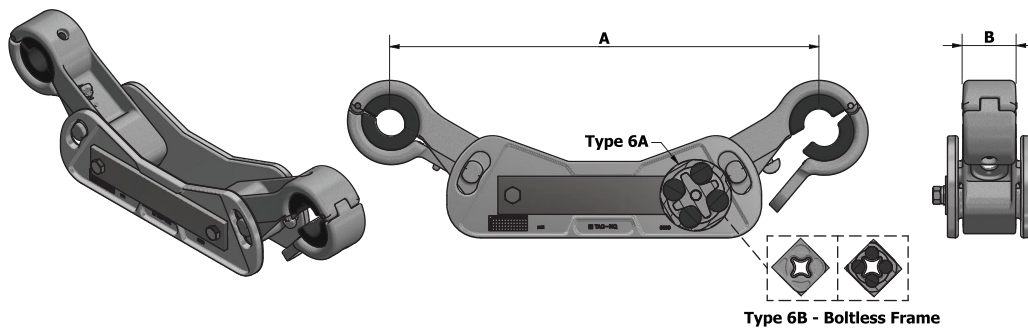
*For Spacing Options: Replace "L" in TSD5A1880/L/01, with **H-300, I-330, J-350, K-400, L-450, M-457 & N-500**

For Boltless Frame Options: Replace "A" in TSD5A1880/L/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Keeper Piece, Frame & Pivot	Aluminium Alloy	
Bolt, Nut & Washers	Galvanized Steel	
Helical Retaining Rods	Aluminium Alloy	
Damping Cylinder	Elastomer	Standard Elastomer rated for 125° COT
Clamp Cushion	Elastomer	(High Temperature Elastomer rated for 230° COT)

TWIN SPACER DAMPER (TYPE 6)

Hinged (Nut Cracker) Clamp



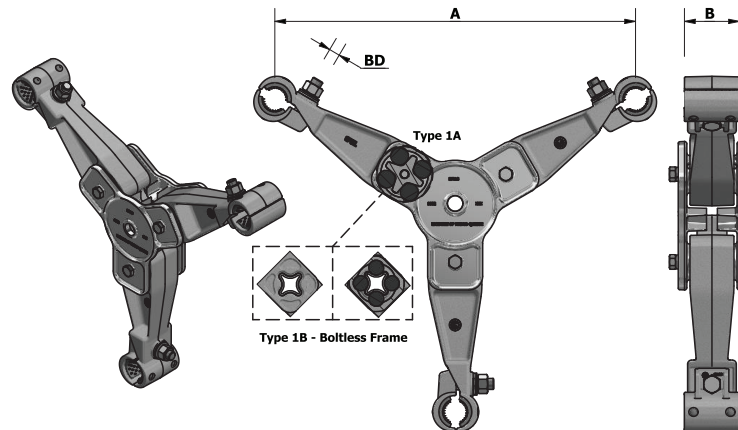
SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)	
		mm	In	A*	B
1	TSD6A019/L/01	18.01 - 19.00	0.709 - 0.748	450	70
2	TSD6A020/L/01	19.01 - 20.00	0.748 - 0.787	450	70
3	TSD6A021/L/01	20.01 - 21.00	0.787 - 0.826	450	70
4	TSD6A022/L/01	21.01 - 22.00	0.827 - 0.866	450	70
5	TSD6A023/L/01	22.01 - 23.00	0.866 - 0.905	450	70
6	TSD6A024/L/01	23.01 - 24.00	0.905 - 0.944	450	70
7	TSD6A025/L/01	24.01 - 25.00	0.945 - 0.984	450	70
8	TSD6A026/L/01	25.01 - 26.00	0.984 - 1.023	450	70
9	TSD6A027/L/01	26.01 - 27.00	1.024 - 1.062	450	70
10	TSD6A028/L/01	27.01 - 28.00	1.063 - 1.102	450	70
11	TSD6A029/L/01	28.01 - 29.00	1.102 - 1.141	450	70
12	TSD6A030/L/01	29.01 - 30.00	1.142 - 1.181	450	70
13	TSD6A031/L/01	30.01 - 31.00	1.181 - 1.220	450	70
14	TSD6A032/L/01	31.01 - 32.00	1.220 - 1.259	450	70
15	TSD6A033/L/01	32.01 - 33.00	1.260 - 1.299	450	70
16	TSD6A034/L/01	32.31 - 33.30	1.299 - 1.338	450	70
17	TSD6A035/L/01	34.01 - 35.00	1.338 - 1.377	450	70
18	TSD6A036/L/01	35.01 - 36.00	1.378 - 1.417	450	70
19	TSD6A037/L/01	36.01 - 37.00	1.417 - 1.456	450	70
20	TSD6A038/L/01	37.01 - 38.00	1.457 - 1.496	450	70
21	TSD6A039/L/01	38.01 - 39.00	1.496 - 1.535	450	70
22	TSD6A040/L/01	39.01 - 40.00	1.535 - 1.574	450	70
23	TSD6A041/L/01	40.01 - 41.00	1.575 - 1.614	450	70
24	TSD6A042/L/01	41.01 - 42.00	1.614 - 1.653	450	70
25	TSD6A043/L/01	42.01 - 43.00	1.653 - 1.692	450	70
26	TSD6A044/L/01	43.01 - 44.00	1.693 - 1.732	450	70

*For Spacing Options: Replace "M" in HSD1A019/M/01, with **K-400, L-450, M-457 & N-500**

For Boltless Frame Options: Replace "A" in HSD1A019/M/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Keeper Piece, Frame & Pivot	Aluminium Alloy	
Bolt, Nut, Washers & Pin	Galvanized Steel	
Damping Cylinder	Elastometer	Standard Elastomer rated for 125° COT
Clamp Cushion	Elastomer	(High Temperature Elastomer rated for 230° COT)

TRIPLE SPACER DAMPER (TYPE 1) Bolted Clamp (Clamp Cushion Type)



SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)		
		mm	In	A*	B	BD
1	TRSD1A019/M/01	18.01 - 19.00	0.709 - 0.748	457	70	M14
2	TRSD1A020/M/01	19.01 - 20.00	0.748 - 0.787	457	70	M14
3	TRSD1A021/M/01	20.01 - 21.00	0.787 - 0.826	457	70	M14
4	TRSD1A022/M/01	21.01 - 22.00	0.827 - 0.866	457	70	M14
5	TRSD1A023/M/01	22.01 - 23.00	0.866 - 0.905	457	70	M14
6	TRSD1A024/M/01	23.01 - 24.00	0.905 - 0.944	457	70	M14
7	TRSD1A025/M/01	24.01 - 25.00	0.945 - 0.984	457	70	M14
8	TRSD1A026/M/01	25.01 - 26.00	0.984 - 1.023	457	70	M14
9	TRSD1A027/M/01	26.01 - 27.00	1.024 - 1.062	457	70	M14
10	TRSD1A028/M/01	27.01 - 28.00	1.063 - 1.102	457	70	M14
11	TRSD1A029/M/01	28.01 - 29.00	1.102 - 1.141	457	70	M14
12	TRSD1A030/M/01	29.01 - 30.00	1.142 - 1.181	457	70	M14
13	TRSD1A031/M/01	30.01 - 31.00	1.181 - 1.220	457	70	M14
14	TRSD1A032/M/01	31.01 - 32.00	1.220 - 1.259	457	70	M14
15	TRSD1A033/M/01	32.01 - 33.00	1.260 - 1.299	457	70	M14
16	TRSD1A034/M/01	32.31 - 33.30	1.299 - 1.338	457	70	M14
17	TRSD1A035/M/01	34.01 - 35.00	1.338 - 1.377	457	70	M14
18	TRSD1A036/M/01	35.01 - 36.00	1.378 - 1.417	457	70	M14
19	TRSD1A037/M/01	36.01 - 37.00	1.417 - 1.456	457	70	M14
20	TRSD1A038/M/01	37.01 - 38.00	1.457 - 1.496	457	70	M14
21	TRSD1A039/M/01	38.01 - 39.00	1.496 - 1.535	457	70	M14
22	TRSD1A040/M/01	39.01 - 40.00	1.535 - 1.574	457	70	M14
23	TRSD1A041/M/01	40.01 - 41.00	1.575 - 1.614	457	70	M14
24	TRSD1A042/M/01	41.01 - 42.00	1.614 - 1.653	457	70	M14
25	TRSD1A043/M/01	42.01 - 43.00	1.653 - 1.692	457	70	M14
26	TRSD1A044/M/01	43.01 - 44.00	1.693 - 1.732	457	70	M14

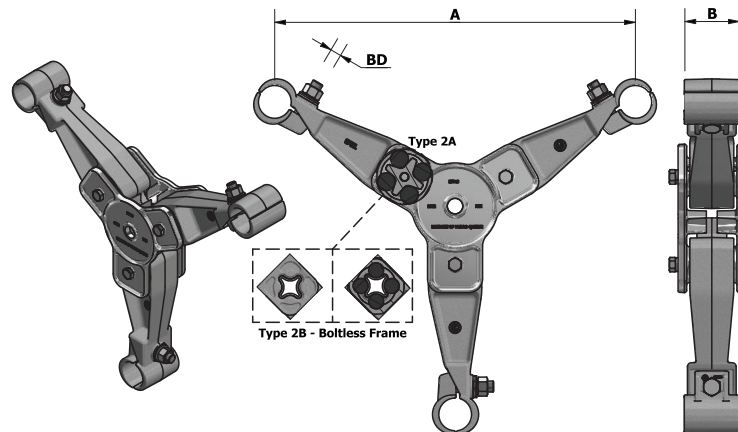
*For Spacing Options: Replace "L" in TSD1A019/L/01, with **H-300, I-330, J-350, K-400, L-450, M-457 & N-500**

For Boltless Frame Options: Replace "A" in TSD1A019/L/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Keeper Piece, Frame & Pivot	Aluminium Alloy	
Bolt, Nut & Washers	Galvanized Steel	
Damping Cylinder	Elastometer	Standard Elastomer rated for 125° COT
Clamp Cushion	Elastomer	(High Temperature Elastomer rated for 230° COT)

TRIPLE SPACER DAMPER (TYPE 2)

Bolted Clamp (Metal to Metal Type)



SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)		
		mm	In	A*	B	BD
1	TRSD2A020/M/01	18.01 - 20.00	0.709 - 0.787	457	70	M14
2	TRSD2A022/M/01	20.01 - 22.00	0.787 - 0.866	457	70	M14
3	TRSD2A024/M/01	22.01 - 24.00	0.866 - 0.944	457	70	M14
4	TRSD2A026/M/01	24.01 - 26.00	0.945 - 1.023	457	70	M14
5	TRSD2A0277/M/01	26.01 - 27.70	1.024 - 1.090	457	70	M14
6	TRSD2A0287/M/01	27.71 - 28.70	1.090 - 1.129	457	70	M14
7	TRSD2A030/M/01	28.71 - 30.00	1.130 - 1.181	457	70	M14
8	TRSD2A032/M/01	31.01 - 32.00	1.220 - 1.259	457	70	M14
9	TRSD2A0335/M/01	32.01 - 33.50	1.260 - 1.318	457	70	M14
10	TRSD2A035/M/01	33.51 - 35.00	1.319 - 1.377	457	70	M14
11	TRSD2A036/M/01	35.01 - 36.00	1.378 - 1.417	457	70	M14
12	TRSD2A038/M/01	38.01 - 40.00	1.417 - 1.496	457	70	M14
13	TRSD2A040/M/01	40.01 - 41.00	1.496 - 1.574	457	70	M14
14	TRSD2A041/M/01	41.01 - 42.00	1.575 - 1.614	457	70	M14
15	TRSD2A042/M/01	42.01 - 42.70	1.614 - 1.653	457	70	M14
16	TRSD2A0427/M/01	42.71 - 44.00	1.653 - 1.681	457	70	M14
17	TRSD2A044/M/01	44.01 - 45.00	1.681 - 1.732	457	70	M14
18	TRSD2A045/M/01	44.01 - 45.00	1.732 - 1.771	457	70	M14
19	TRSD2A0455/M/01	45.01 - 45.50	1.772 - 1.791	457	70	M14

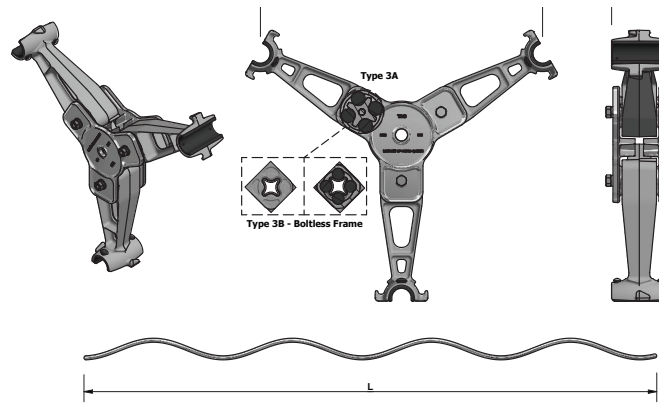
*For Spacing Options: Replace "M" in TRSD2A020/M/01, with H-300, I-330, J-350, K-400, L-450, M-457 & N-500

For Boltless Frame Options: Replace "A" in TRSD2A020/M/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Keeper Piece, Frame & Pivot	Aluminium Alloy	(High Temperature Application upto 150°C)
Bolt, Nut & Washers	Galvanized Steel	
Damping Cylinder	Elastometer	

TRIPLE SPACER DAMPER (TYPE 3)

Retaining Rod Type

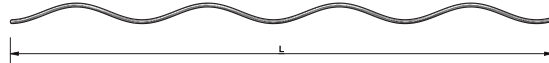


SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)		
		mm	In	A*	B	L
1	TRSD3A1880/M/01	18.01 - 18.80	0.709 - 0.740	457	90	1100
2	TRSD3A1960/M/01	18.81 - 19.60	0.740 - 0.771	457	90	1100
3	TRSD3A2060/M/01	19.61 - 20.60	0.772 - 0.811	457	90	1100
4	TRSD3A2150/M/01	20.61 - 21.50	0.811 - 0.846	457	90	1100
5	TRSD3A2230/M/01	21.51 - 22.30	0.846 - 0.877	457	90	1100
6	TRSD3A2300/M/01	22.31 - 23.00	0.878 - 0.905	457	90	1100
7	TRSD3A2360/M/01	23.01 - 23.60	0.905 - 0.929	457	90	1100
8	TRSD3A2480/M/01	23.61 - 24.80	0.929 - 0.976	457	90	1100
9	TRSD3A2550/M/01	24.81 - 25.50	0.976 - 1.003	457	90	1100
10	TRSD3A2630/M/01	25.51 - 26.30	1.004 - 1.035	457	90	1100
11	TRSD3A2700/M/01	26.31 - 27.00	1.035 - 1.062	457	90	1100
12	TRSD3A2770/M/01	27.01 - 27.70	1.063 - 1.090	457	90	1100
13	TRSD3A2830/M/01	27.71 - 28.30	1.090 - 1.114	457	90	1100
14	TRSD3A2930/M/01	28.31 - 29.30	1.114 - 1.153	457	90	1100
15	TRSD3A3050/M/01	29.31 - 30.50	1.153 - 1.200	457	90	1100
16	TRSD3A3130/M/01	30.51 - 31.30	1.201 - 1.232	457	90	1100
17	TRSD3A3220/M/01	31.31 - 32.20	1.232 - 1.267	457	90	1100
18	TRSD3A3300/M/01	32.21 - 33.00	1.268 - 1.299	457	90	1100
19	TRSD3A3370/M/01	33.01 - 33.70	1.299 - 1.326	457	90	1100
20	TRSD3A3450/M/01	33.71 - 34.50	1.327 - 1.358	457	90	1100
21	TRSD3A3530/M/01	34.51 - 35.30	1.358 - 1.389	457	90	1100
22	TRSD3A3600/M/01	35.31 - 36.00	1.390 - 1.417	457	90	1100
23	TRSD3A3700/M/01	36.01 - 37.00	1.417 - 1.456	457	90	1100
24	TRSD3A3780/M/01	37.01 - 37.80	1.457 - 1.488	457	90	1100
25	TRSD3A3860/M/01	37.81 - 38.60	1.488 - 1.519	457	90	1100
26	TRSD3A3940/M/01	38.61 - 39.40	1.520 - 1.551	457	90	1100
22	TRSD3A4020/M/01	39.41 - 40.20	1.551 - 1.582	457	90	1100
23	TRSD3A4120/M/01	40.21 - 41.20	1.583 - 1.622	457	90	1100
24	TRSD3A4210/M/01	41.21 - 42.10	1.622 - 1.657	457	90	1100
25	TRSD3A4300/M/01	42.11 - 43.00	1.657 - 1.692	457	90	1100
26	TRSD3A4400/M/01	43.01 - 44.00	1.693 - 1.732	457	90	1100

*For Spacing Options: Replace "M" in TRSD3A1880/M/01, with H-300, I-330, J-350, K-400, L-450, M-457 & N-500

For Boltless Frame Options: Replace "A" in TRSD3A1880/L/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Frame & Pivot	Aluminium Alloy	
Bolt, Nut & Washers	Galvanized Steel	
Helical Retaining Rods	Aluminium Alloy	
Damping Cylinder	Elastomer	Standard Elastomer rated for 125° COT
Clamp Cushion	Elastomer	(High Temperature Elastomer rated for 230° COT)

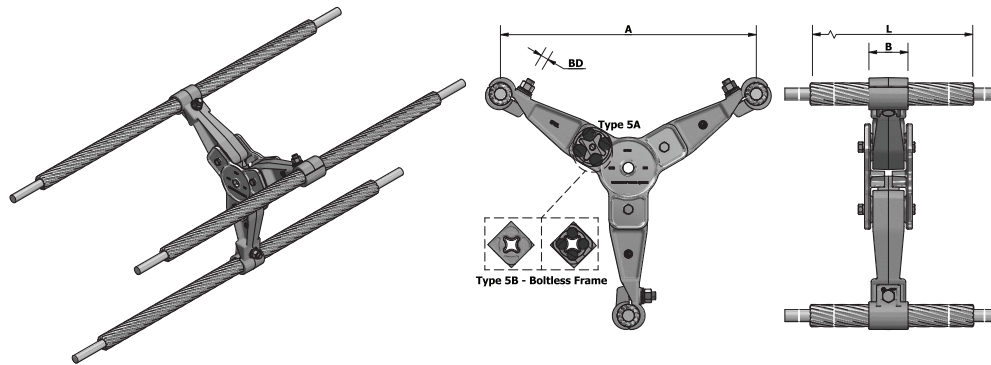


*For Spacing Options: Replace "M" in TRSD4A1880/M/01, with **H-300, I-330, J-350, K-400, L-450, M-457 & N-500**
For Boltless Frame Options: Replace "A" in TRSD4**A**1880/M/01, with "B"

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TRIPLE SPACER DAMPER (TYPE 5)

Protection Rod Type

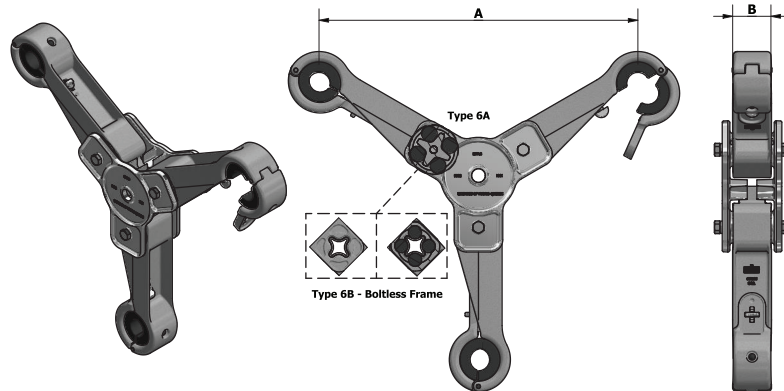


SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)			
		mm	In	A*	B	L	BD
1	TRSD5A1840/M/01	18.01 - 18.40	0.709 - 0.724	457	70	1100	M14
2	TRSD5A1880/M/01	18.41 - 18.80	0.724 - 0.740	457	70	1100	M14
3	TRSD5A1960/M/01	18.81 - 19.60	0.740 - 0.771	457	70	1100	M14
4	TRSD5A2020/M/01	19.61 - 20.20	0.772 - 0.795	457	70	1100	M14
5	TRSD5A2070/M/01	20.21 - 20.70	0.795 - 0.814	457	70	1100	M14
6	TRSD5A2160/M/01	20.71 - 21.60	0.815 - 0.850	457	70	1100	M14
7	TRSD5A2300/M/01	21.61 - 23.00	0.850 - 0.905	457	70	1100	M14
8	TRSD5A2360/M/01	23.01 - 23.60	0.905 - 0.929	457	70	1100	M14
9	TRSD5A2450/M/01	23.61 - 24.50	0.929 - 0.964	457	70	1100	M14
10	TRSD5A2520/M/01	24.51 - 25.20	0.964 - 0.992	457	70	1100	M14
11	TRSD5A2679/M/01	25.21 - 26.79	0.992 - 1.054	457	70	1100	M14
12	TRSD5A2730/M/01	26.80 - 27.30	1.055 - 1.074	457	70	1100	M14
13	TRSD5A2820/M/01	27.31 - 28.20	1.075 - 1.110	457	70	1100	M14
14	TRSD5A2930/M/01	28.21 - 29.30	1.110 - 1.153	457	70	1100	M14
15	TRSD5A3010/M/01	29.31 - 30.10	1.153 - 1.185	457	70	1100	M14
16	TRSD5A3070/M/01	30.11 - 30.70	1.185 - 1.208	457	70	1100	M14
17	TRSD5A3170/M/01	30.71 - 31.70	1.209 - 1.248	457	70	1100	M14
18	TRSD5A3230/M/01	31.71 - 32.30	1.248 - 1.271	457	70	1100	M14
19	TRSD5A3280/M/01	32.31 - 32.80	1.272 - 1.291	457	70	1100	M14
20	TRSD5A3330/M/01	32.81 - 33.30	1.291 - 1.311	457	70	1100	M14
21	TRSD5A3430/M/01	33.31 - 34.30	1.311 - 1.350	457	70	1100	M14
22	TRSD5A3460/M/01	34.31 - 34.60	1.350 - 1.362	457	70	1100	M14
23	TRSD5A3520/M/01	34.61 - 35.20	1.362 - 1.385	457	70	1100	M14
24	TRSD5A3660/M/01	35.21 - 36.60	1.386 - 1.440	457	70	1100	M14
25	TRSD5A3730/M/01	36.61 - 37.30	1.441 - 1.468	457	70	1100	M14
26	TRSD5A3920/M/01	37.31 - 39.20	1.468 - 1.543	457	70	1100	M14
27	TRSD5A4150/M/01	39.21 - 41.50	1.543 - 1.633	457	70	1100	M14
28	TRSD5A4330/M/01	41.51 - 43.30	1.634 - 1.704	457	70	1100	M14
29	TRSD5A4410/M/01	43.31 - 44.10	1.705 - 1.736	457	70	1100	M14

*For Spacing Options: Replace "M" in TRSD5A1840/M/01, with H-300, I-330, J-350, K-400, L-450, M-457 & N-500
For Boltless Frame Options: Replace "A" in TRSD5A1840/M/01, with "B"

COMPONENT	MATERIAL	NOTE
Clamp Body, Frame & Pivot	Aluminium Alloy	(High Temperature Application upto 240°C)
Bolt, Nut & Washers	Galvanized Steel	
Damping Elements	Elastometer	
Helical Protection rods	Aluminium Alloy	

TRIPLE SPACER DAMPER (TYPE 6) Hinged (Nut Cracker) Clamp



SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)	
		mm	In	A*	B
1	TRSD6A019/M/01	18.01 - 19.00	0.709 - 0.748	457	56
2	TRSD6A020/M/01	19.01 - 20.00	0.748 - 0.787	457	56
3	TRSD6A021/M/01	20.01 - 21.00	0.787 - 0.826	457	56
4	TRSD6A022/M/01	21.01 - 22.00	0.827 - 0.866	457	56
5	TRSD6A023/M/01	22.01 - 23.00	0.866 - 0.905	457	56
6	TRSD6A024/M/01	23.01 - 24.00	0.905 - 0.944	457	56
7	TRSD6A025/M/01	24.01 - 25.00	0.945 - 0.984	457	56
8	TRSD6A026/M/01	25.01 - 26.00	0.984 - 1.023	457	56
9	TRSD6A027/M/01	26.01 - 27.00	1.024 - 1.062	457	56
10	TRSD6A028/M/01	27.01 - 28.00	1.063 - 1.102	457	56
11	TRSD6A029/M/01	28.01 - 29.00	1.102 - 1.141	457	56
12	TRSD6A030/M/01	29.01 - 30.00	1.142 - 1.181	457	56
13	TRSD6A031/M/01	30.01 - 31.00	1.181 - 1.220	457	56
14	TRSD6A032/M/01	31.01 - 32.00	1.220 - 1.259	457	56
15	TRSD6A033/M/01	32.01 - 33.00	1.260 - 1.299	457	56
16	TRSD6A034/M/01	32.31 - 33.30	1.299 - 1.338	457	56
17	TRSD6A035/M/01	34.01 - 35.00	1.338 - 1.377	457	56
18	TRSD6A036/M/01	35.01 - 36.00	1.378 - 1.417	457	56
19	TRSD6A037/M/01	36.01 - 37.00	1.417 - 1.456	457	56
20	TRSD6A038/M/01	37.01 - 38.00	1.457 - 1.496	457	56
21	TRSD6A039/M/01	38.01 - 39.00	1.496 - 1.535	457	56
22	TRSD6A040/M/01	39.01 - 40.00	1.535 - 1.574	457	56
23	TRSD6A041/M/01	40.01 - 41.00	1.575 - 1.614	457	56
24	TRSD6A042/M/01	41.01 - 42.00	1.614 - 1.653	457	56
25	TRSD6A043/M/01	42.01 - 43.00	1.653 - 1.692	457	56
26	TRSD6A044/M/01	43.01 - 44.00	1.693 - 1.732	457	56

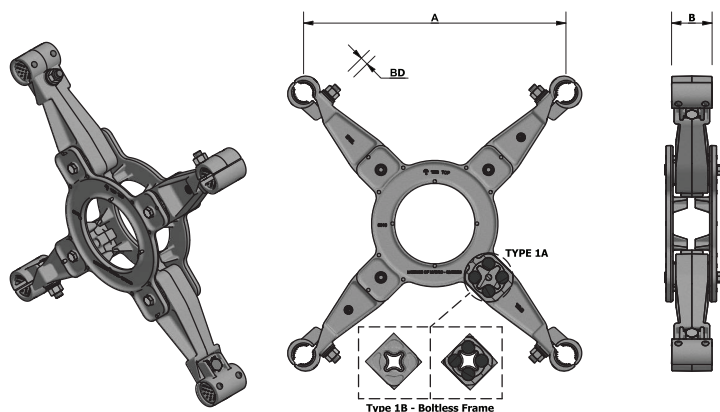
*For Spacing Options: Replace "L" in TRSD6A019/L/01, with **K-400, L-450, M-457 & N-500**

For Boltless Frame Options: Replace "A" in TRSD6A019/L/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Frame & Pivot	Aluminium Alloy	
Bolt, Nut, Washers & Pin	Galvanized Steel	
Damping Cylinder	Elastometer	Standard Elastomer rated for 125° COT
Clamp Cushion	Elastomer	(High Temperature Elastomer rated for 230° COT)

QUADRUPLE SPACER DAMPER (TYPE 1)

Bolted Clamp (Clamp Cushion Type)



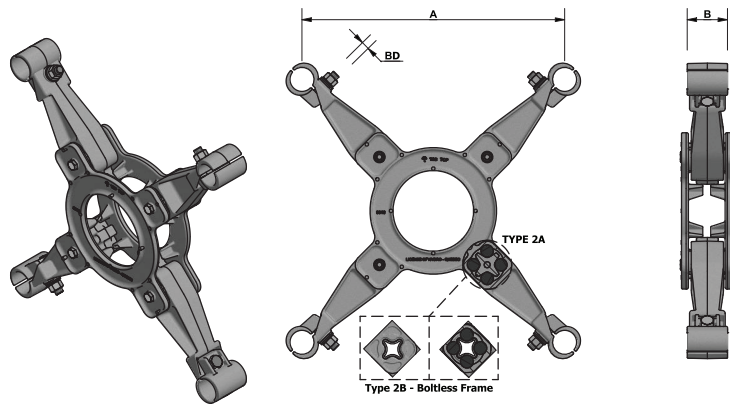
SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)		
		mm	In	A*	B	BD
1	QSD1A019/M/01	18.01 - 19.00	0.709 - 0.748	457	70	M14
2	QSD1A020/M/01	19.01 - 20.00	0.748 - 0.787	457	70	M14
3	QSD1A021/M/01	20.01 - 21.00	0.787 - 0.826	457	70	M14
4	QSD1A022/M/01	21.01 - 22.00	0.827 - 0.866	457	70	M14
5	QSD1A023/M/01	22.01 - 23.00	0.866 - 0.905	457	70	M14
6	QSD1A024/M/01	23.01 - 24.00	0.905 - 0.944	457	70	M14
7	QSD1A025/M/01	24.01 - 25.00	0.945 - 0.984	457	70	M14
8	QSD1A026/M/01	25.01 - 26.00	0.984 - 1.023	457	70	M14
9	QSD1A027/M/01	26.01 - 27.00	1.024 - 1.062	457	70	M14
10	QSD1A028/M/01	27.01 - 28.00	1.063 - 1.102	457	70	M14
11	QSD1A029/M/01	28.01 - 29.00	1.102 - 1.141	457	70	M14
12	QSD1A030/M/01	29.01 - 30.00	1.142 - 1.181	457	70	M14
13	QSD1A031/M/01	30.01 - 31.00	1.181 - 1.220	457	70	M14
14	QSD1A032/M/01	31.01 - 32.00	1.220 - 1.259	457	70	M14
15	QSD1A033/M/01	32.01 - 33.00	1.260 - 1.299	457	70	M14
16	QSD1A034/M/01	32.31 - 33.30	1.299 - 1.338	457	70	M14
17	QSD1A035/M/01	34.01 - 35.00	1.338 - 1.377	457	70	M14
18	QSD1A036/M/01	35.01 - 36.00	1.378 - 1.417	457	70	M14
19	QSD1A037/M/01	36.01 - 37.00	1.417 - 1.456	457	70	M14
20	QSD1A038/M/01	37.01 - 38.00	1.457 - 1.496	457	70	M14
21	QSD1A039/M/01	38.01 - 39.00	1.496 - 1.535	457	70	M14
22	QSD1A040/M/01	39.01 - 40.00	1.535 - 1.574	457	70	M14
23	QSD1A041/M/01	40.01 - 41.00	1.575 - 1.614	457	70	M14
24	QSD1A042/M/01	41.01 - 42.00	1.614 - 1.653	457	70	M14
25	QSD1A043/M/01	42.01 - 43.00	1.653 - 1.692	457	70	M14
26	QSD1A044/M/01	43.01 - 44.00	1.693 - 1.732	457	70	M14

*For Spacing Options: Replace "M" in QSD1A019/M/01, with J-350, K-400, L-450, M-457 & N-500

For Boltless Frame Options: Replace "A" in QSD1A019/M/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Keeper Piece, Frame & Pivot	Aluminium Alloy	
Bolt, Nut & Washers	Galvanized Steel	
Damping Cylinder	Elastometer	Standard Elastomer rated for 125° COT
Clamp Cushion	Elastomer	(High Temperature Elastomer rated for 230° COT)

QUADRUPLE SPACER DAMPER (TYPE 2) Bolted Clamp (Metal to Metal Type)



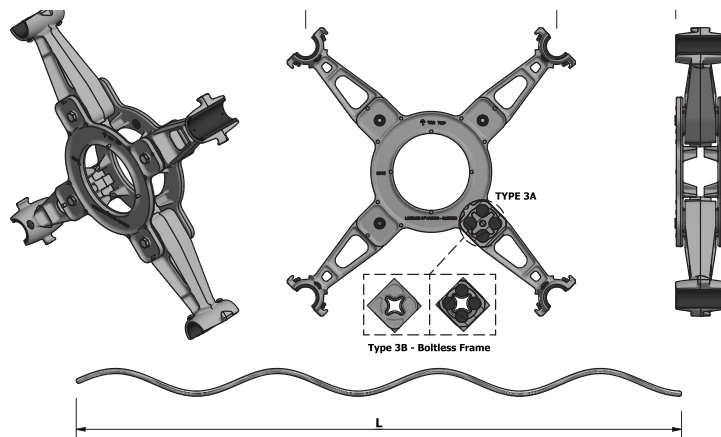
SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)		
		mm	In	A*	B	BD
1	QSD2A020/M/01	18.01 - 20.00	0.709 - 0.787	457	70	M14
2	QSD2A022/M/01	20.01 - 22.00	0.787 - 0.866	457	70	M14
3	QSD2A024/M/01	22.01 - 24.00	0.866 - 0.944	457	70	M14
4	QSD2A026/M/01	24.01 - 26.00	0.945 - 1.023	457	70	M14
5	QSD2A0277/M/01	26.01 - 27.70	1.024 - 1.090	457	70	M14
6	QSD2A0287/M/01	27.71 - 28.70	1.090 - 1.129	457	70	M14
7	QSD2A030/M/01	28.71 - 30.00	1.130 - 1.181	457	70	M14
8	QSD2A032/M/01	31.01 - 32.00	1.220 - 1.259	457	70	M14
9	QSD2A0335/M/01	32.01 - 33.50	1.260 - 1.318	457	70	M14
10	QSD2A035/M/01	33.51 - 35.00	1.319 - 1.377	457	70	M14
11	QSD2A036/M/01	35.01 - 36.00	1.378 - 1.417	457	70	M14
12	QSD2A038/M/01	38.01 - 40.00	1.417 - 1.496	457	70	M14
13	QSD2A040/M/01	40.01 - 41.00	1.496 - 1.574	457	70	M14
14	QSD2A041/M/01	41.01 - 42.00	1.575 - 1.614	457	70	M14
15	QSD2A042/M/01	42.01 - 42.70	1.614 - 1.653	457	70	M14
16	QSD2A04270/M/01	42.71 - 44.00	1.653 - 1.681	457	70	M14
17	QSD2A044/M/01	44.01 - 45.00	1.681 - 1.732	457	70	M14
18	QSD2A045/M/01	44.01 - 45.00	1.732 - 1.771	457	70	M14
19	QSD2A0455/M/01	45.01 - 45.50	1.772 - 1.791	457	70	M14

*For Spacing Options: Replace "M" in QSD2A020/M/01, with **J-350, K-400, L-450, M-457 & N-500**

For Boltless Frame Options: Replace "A" in QSD2A020/M/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Keeper Piece, Frame & Pivot	Aluminium Alloy	(High Temperature Application upto 150°C)
Bolt, Nut & Washers	Galvanized Steel	
Damping Cylinder	Elastometer	

QUADRUPLE SPACER DAMPER (TYPE 3) Retaining Rod Type



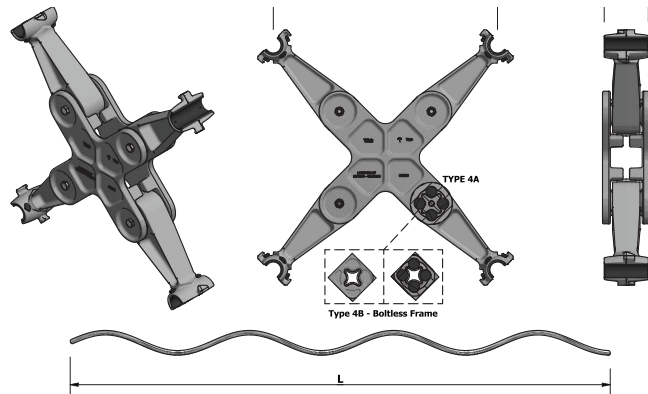
SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)		
		mm	In	A*	B	L
1	QSD3A1880/M/01	18.01 - 18.80	0.709 - 0.740	457	90	1100
2	QSD3A1960/M/01	18.81 - 19.60	0.740 - 0.771	457	90	1100
3	QSD3A2060/M/01	19.61 - 20.60	0.772 - 0.811	457	90	1100
4	QSD3A2150/M/01	20.61 - 21.50	0.811 - 0.846	457	90	1100
5	QSD3A2230/M/01	21.51 - 22.30	0.846 - 0.877	457	90	1100
6	QSD3A2300/M/01	22.31 - 23.00	0.878 - 0.905	457	90	1100
7	QSD3A2360/M/01	23.01 - 23.60	0.905 - 0.929	457	90	1100
8	QSD3A2480/M/01	23.61 - 24.80	0.929 - 0.976	457	90	1100
9	QSD3A2550/M/01	24.81 - 25.50	0.976 - 1.003	457	90	1100
10	QSD3A2630/M/01	25.51 - 26.30	1.004 - 1.035	457	90	1100
11	QSD3A2700/M/01	26.31 - 27.00	1.035 - 1.062	457	90	1100
12	QSD3A2770/M/01	27.01 - 27.70	1.063 - 1.090	457	90	1100
13	QSD3A2830/M/01	27.71 - 28.30	1.090 - 1.114	457	90	1100
14	QSD3A2930/M/01	28.31 - 29.30	1.114 - 1.153	457	90	1100
15	QSD3A3050/M/01	29.31 - 30.50	1.153 - 1.200	457	90	1100
16	QSD3A3130/M/01	30.51 - 31.30	1.201 - 1.232	457	90	1100
17	QSD3A3220/M/01	31.31 - 32.20	1.232 - 1.267	457	90	1100
18	QSD3A3300/M/01	32.21 - 33.00	1.268 - 1.299	457	90	1100
19	QSD3A3370/M/01	33.01 - 33.70	1.299 - 1.326	457	90	1100
20	QSD3A3450/M/01	33.71 - 34.50	1.327 - 1.358	457	90	1100
21	QSD3A3530/M/01	34.51 - 35.30	1.358 - 1.389	457	90	1100
22	QSD3A3600/M/01	35.31 - 36.00	1.390 - 1.417	457	90	1100
23	QSD3A3700/M/01	36.01 - 37.00	1.417 - 1.456	457	90	1100
24	QSD3A3780/M/01	37.01 - 37.80	1.457 - 1.488	457	90	1100
25	QSD3A3860/M/01	37.81 - 38.60	1.488 - 1.519	457	90	1100
26	QSD3A3940/M/01	38.61 - 39.40	1.520 - 1.551	457	90	1100
22	QSD3A4020/M/01	39.41 - 40.20	1.551 - 1.582	457	90	1100
23	QSD3A4120/M/01	40.21 - 41.20	1.583 - 1.622	457	90	1100
24	QSD3A4200/M/01	41.21 - 42.10	1.622 - 1.657	457	90	1100
25	QSD3A4300/M/01	42.11 - 43.00	1.657 - 1.692	457	90	1100
26	QSD3A4400/M/01	43.01 - 44.00	1.693 - 1.732	457	90	1100

*For Spacing Options: Replace "M" in QSD3A1880/M/01, with **J-350, K-400, L-450, M-457 & N-500**

For Boltless Frame Options: Replace "A" in QSD3A1880/M/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Frame & Pivot	Aluminium Alloy	
Bolt, Nut & Washers	Galvanized Steel	
Damping Cylinder	Elastomer	Standard Elastomer rated for 125° COT
Clamp Cushion	Elastomer	(High Temperature Elastomer rated for 230° COT)

QUADRUPLE SPACER DAMPER (TYPE 4) Retaining Rod Type (Extreme Ice & Snow Conditions)



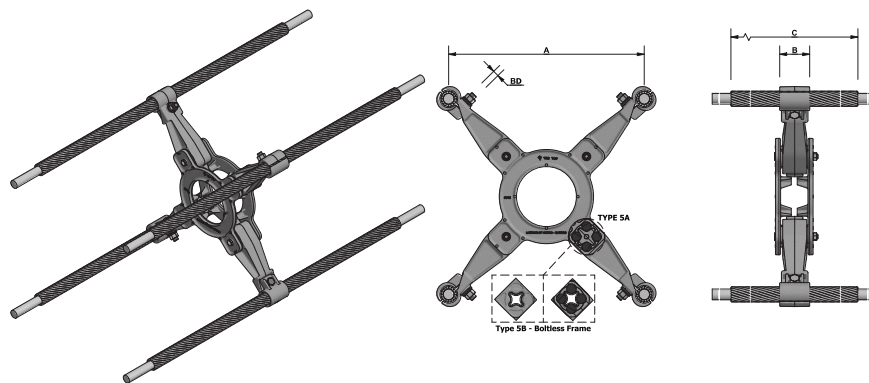
SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)		
		mm	In	A*	B	L
1	QSD4A1880/M/01	18.01 - 18.80	0.709 - 0.740	457	70	1100
2	QSD4A1960/M/01	18.81 - 19.60	0.740 - 0.771	457	70	1100
3	QSD4A2060/M/01	19.61 - 20.60	0.772 - 0.811	457	70	1100
4	QSD4A2150/M/01	20.61 - 21.50	0.811 - 0.846	457	70	1100
5	QSD4A2230/M/01	21.51 - 22.30	0.846 - 0.877	457	70	1100
6	QSD4A2300/M/01	22.31 - 23.00	0.878 - 0.905	457	70	1100
7	QSD4A2360/M/01	23.01 - 23.60	0.905 - 0.929	457	70	1100
8	QSD4A2480/M/01	23.61 - 24.80	0.929 - 0.976	457	70	1100
9	QSD4A2550/M/01	24.81 - 25.50	0.976 - 1.003	457	70	1100
10	QSD4A2630/M/01	25.51 - 26.30	1.004 - 1.035	457	70	1100
11	QSD4A2700/M/01	26.31 - 27.00	1.035 - 1.062	457	70	1100
12	QSD4A2770/M/01	27.01 - 27.70	1.063 - 1.090	457	70	1100
13	QSD4A2830/M/01	27.71 - 28.30	1.090 - 1.114	457	70	1100
14	QSD4A2930/M/01	28.31 - 29.30	1.114 - 1.153	457	70	1100
15	QSD4A3050/M/01	29.31 - 30.50	1.153 - 1.200	457	70	1100
16	QSD4A3130/M/01	30.51 - 31.30	1.201 - 1.232	457	70	1100
17	QSD4A3220/M/01	31.31 - 32.20	1.232 - 1.267	457	70	1100
18	QSD4A3300/M/01	32.21 - 33.00	1.268 - 1.299	457	70	1100
19	QSD4A3370/M/01	33.01 - 33.70	1.299 - 1.326	457	70	1100
20	QSD4A3450/M/01	33.71 - 34.50	1.327 - 1.358	457	70	1100
21	QSD4A3530/M/01	34.51 - 35.30	1.358 - 1.389	457	70	1100
22	QSD4A3600/M/01	35.31 - 36.00	1.390 - 1.417	457	70	1100
23	QSD4A3700/M/01	36.01 - 37.00	1.417 - 1.456	457	70	1100
24	QSD4A3780/M/01	37.01 - 37.80	1.457 - 1.488	457	70	1100
25	QSD4A3860/M/01	37.81 - 38.60	1.488 - 1.519	457	70	1100
26	QSD4A3940/M/01	38.61 - 39.40	1.520 - 1.551	457	70	1100
22	QSD4A4020/M/01	39.41 - 40.20	1.551 - 1.582	457	70	1100
23	QSD4A4120/M/01	40.21 - 41.20	1.583 - 1.622	457	70	1100
24	QSD4A4210/M/01	41.21 - 42.10	1.622 - 1.657	457	70	1100
25	QSD4A4300/M/01	42.11 - 43.00	1.657 - 1.692	457	70	1100
26	QSD4A4400/M/01	43.01 - 44.00	1.693 - 1.732	457	70	1100

*For Spacing Options: Replace "M" in QSD4A1880/M/01, with **J-350, K-400, L-450, M-457 & N-500**

For Boltless Frame Options: Replace "A" in QSD4A1880/M/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Frame & Pivot	Aluminium Alloy	
Bolt, Nut & Washers	Galvanized Steel	
Helical Retaining Rods	Aluminium Alloy	
Damping Cylinder	Elastomer	Standard Elastomer rated for 125° COT
Clamp Cushion	Elastomer	(High Temperature Elastomer rated for 230° COT)

QUADRUPLE SPACER DAMPER (TYPE 5) Protection Rod Type



SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)			
		mm	In	A*	B	L	BD
1	QSD5A1840/M/01	18.01 - 18.40	0.709 - 0.724	457	70	1000	M14
2	QSD5A1880/M/01	18.41 - 18.80	0.724 - 0.740	457	70	1000	M14
3	QSD5A1960/M/01	18.81 - 19.60	0.740 - 0.771	457	70	1000	M14
4	QSD5A2020/M/01	19.61 - 20.20	0.772 - 0.795	457	70	1000	M14
5	QSD5A2070/M/01	20.21 - 20.70	0.795 - 0.814	457	70	1000	M14
6	QSD5A2160/M/01	20.71 - 21.60	0.815 - 0.850	457	70	1000	M14
7	QSD5A2300/M/01	21.61 - 23.00	0.850 - 0.905	457	70	1000	M14
8	QSD5A2360/M/01	23.01 - 23.60	0.905 - 0.929	457	70	1000	M14
9	QSD5A2450/M/01	23.61 - 24.50	0.929 - 0.964	457	70	1000	M14
10	QSD5A2520/M/01	24.51 - 25.20	0.964 - 0.992	457	70	1000	M14
11	QSD5A2679/M/01	25.21 - 26.79	0.992 - 1.054	457	70	1000	M14
12	QSD5A2730/M/01	26.80 - 27.30	1.055 - 1.074	457	70	1000	M14
13	QSD5A2820/M/01	27.31 - 28.20	1.075 - 1.110	457	70	1000	M14
14	QSD5A2930/M/01	28.21 - 29.30	1.110 - 1.153	457	70	1000	M14
15	QSD5A3010/M/01	29.31 - 30.10	1.153 - 1.185	457	70	1000	M14
16	QSD5A3070/M/01	30.11 - 30.70	1.185 - 1.208	457	70	1000	M14
17	QSD5A3170/M/01	30.71 - 31.70	1.209 - 1.248	457	70	1000	M14
18	QSD5A3230/M/01	31.71 - 32.30	1.248 - 1.271	457	70	1000	M14
19	QSD5A3280/M/01	32.31 - 32.80	1.272 - 1.291	457	70	1000	M14
20	QSD5A3330/M/01	32.81 - 33.30	1.291 - 1.311	457	70	1000	M14
21	QSD5A3430/M/01	33.31 - 34.30	1.311 - 1.350	457	70	1000	M14
22	QSD5A3460/M/01	34.31 - 34.60	1.350 - 1.362	457	70	1000	M14
23	QSD5A3520/M/01	34.61 - 35.20	1.362 - 1.385	457	70	1000	M14
24	QSD5A3660/M/01	35.21 - 36.60	1.386 - 1.440	457	70	1000	M14
25	QSD5A3730/M/01	36.61 - 37.30	1.441 - 1.468	457	70	1000	M14
26	QSD5A3920/M/01	37.31 - 39.20	1.468 - 1.543	457	70	1000	M14
27	QSD5A4150/M/01	39.21 - 41.50	1.543 - 1.633	457	70	1000	M14
28	QSD5A4330/M/01	41.51 - 43.30	1.634 - 1.704	457	70	1000	M14
29	QSD5A4410/M/01	43.31 - 44.10	1.705 - 1.736	457	70	1000	M14

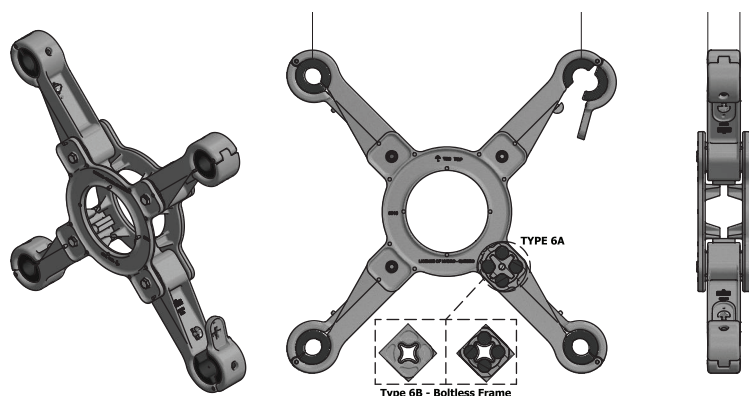
*For Spacing Options: Replace "M" in QSD5A1840/M/01, with J-350, K-400, L-450, M-457 & N-500

For Boltless Frame Options: Replace "A" in QSD5A1840/M/01, with "B"

COMPONENT	MATERIAL	NOTE
Clamp Body, Frame & Pivot	Aluminium Alloy	(High Temperature Application upto 240°C)
Bolt, Nut & Washers	Galvanized Steel	
Damping Elements	Elastometer	
Helical Protection rods	Aluminium Alloy	

QUADRUPLE SPACER DAMPER (TYPE 6)

Hinged (Nut Cracker) Clamp



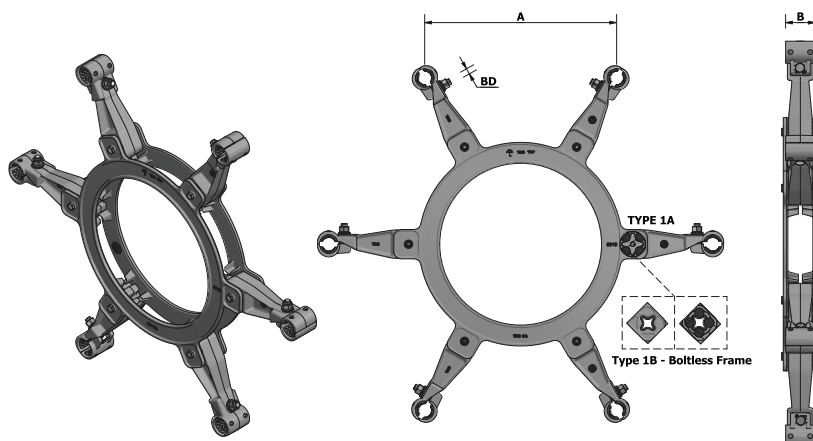
SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)	
		mm	In	A*	B
1	QSD6A019/M/01	18.01 - 19.00	0.709 - 0.748	457	56
2	QSD6A020/M/01	19.01 - 20.00	0.748 - 0.787	457	56
3	QSD6A021/M/01	20.01 - 21.00	0.787 - 0.826	457	56
4	QSD6A022/M/01	21.01 - 22.00	0.827 - 0.866	457	56
5	QSD6A023/M/01	22.01 - 23.00	0.866 - 0.905	457	56
6	QSD6A024/M/01	23.01 - 24.00	0.905 - 0.944	457	56
7	QSD6A025/M/01	24.01 - 25.00	0.945 - 0.984	457	56
8	QSD6A026/M/01	25.01 - 26.00	0.984 - 1.023	457	56
9	QSD6A027/M/01	26.01 - 27.00	1.024 - 1.062	457	56
10	QSD6A028/M/01	27.01 - 28.00	1.063 - 1.102	457	56
11	QSD6A029/M/01	28.01 - 29.00	1.102 - 1.141	457	56
12	QSD6A030/M/01	29.01 - 30.00	1.142 - 1.181	457	56
13	QSD6A031/M/01	30.01 - 31.00	1.181 - 1.220	457	56
14	QSD6A032/M/01	31.01 - 32.00	1.220 - 1.259	457	56
15	QSD6A033/M/01	32.01 - 33.00	1.260 - 1.299	457	56
16	QSD6A034/M/01	32.31 - 33.30	1.299 - 1.338	457	56
17	QSD6A035/M/01	34.01 - 35.00	1.338 - 1.377	457	56
18	QSD6A036/M/01	35.01 - 36.00	1.378 - 1.417	457	56
19	QSD6A037/M/01	36.01 - 37.00	1.417 - 1.456	457	56
20	QSD6A038/M/01	37.01 - 38.00	1.457 - 1.496	457	56
21	QSD6A039/M/01	38.01 - 39.00	1.496 - 1.535	457	56
22	QSD6A040/M/01	39.01 - 40.00	1.535 - 1.574	457	56
23	QSD6A041/M/01	40.01 - 41.00	1.575 - 1.614	457	56
24	QSD6A042/M/01	41.01 - 42.00	1.614 - 1.653	457	56
25	QSD6A043/M/01	42.01 - 43.00	1.653 - 1.692	457	56
26	QSD6A044/M/01	43.01 - 44.00	1.693 - 1.732	457	56

*For Spacing Options: Replace "L" in QSD6A019/L/01, with **K-400, L-450, M-457 & N-500**

For Boltless Frame Options: Replace "A" in QSD6A019/L/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Frame & Pivot	Aluminium Alloy	
Bolt, Nut, Washers & Pin	Galvanized Steel	
Damping Cylinder	Elastometer	Standard Elastomer rated for 125° COT
Clamp Cushion	Elastomer	(High Temperature Elastomer rated for 230° COT)

HEXAGONAL SPACER DAMPER (TYPE 1) Bolted Clamp (Clamp Cushion Type)



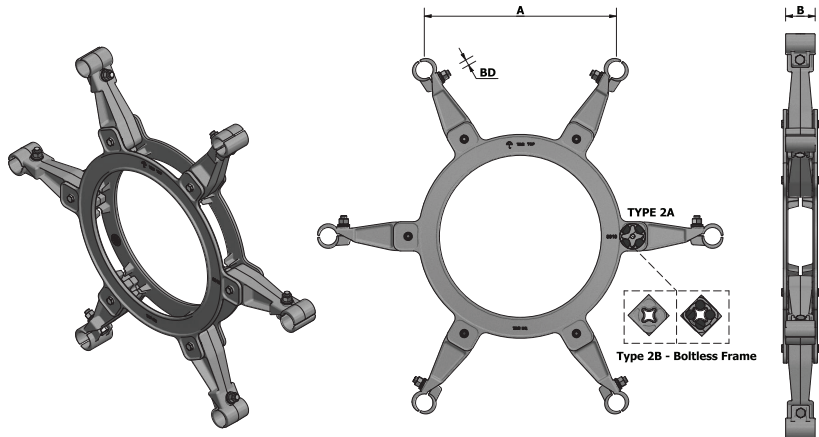
SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)		
		mm	In	A*	B	BD
1	HSD1A019/M/01	18.01 - 19.00	0.709 - 0.748	457	70	M14
2	HSD1A020/M/01	19.01 - 20.00	0.748 - 0.787	457	70	M14
3	HSD1A021/M/01	20.01 - 21.00	0.787 - 0.826	457	70	M14
4	HSD1A022/M/01	21.01 - 22.00	0.827 - 0.866	457	70	M14
5	HSD1A023/M/01	22.01 - 23.00	0.866 - 0.905	457	70	M14
6	HSD1A024/M/01	23.01 - 24.00	0.905 - 0.944	457	70	M14
7	HSD1A025/M/01	24.01 - 25.00	0.945 - 0.984	457	70	M14
8	HSD1A026/M/01	25.01 - 26.00	0.984 - 1.023	457	70	M14
9	HSD1A027/M/01	26.01 - 27.00	1.024 - 1.062	457	70	M14
10	HSD1A028/M/01	27.01 - 28.00	1.063 - 1.102	457	70	M14
11	HSD1A029/M/01	28.01 - 29.00	1.102 - 1.141	457	70	M14
12	HSD1A030/M/01	29.01 - 30.00	1.142 - 1.181	457	70	M14
13	HSD1A031/M/01	30.01 - 31.00	1.181 - 1.220	457	70	M14
14	HSD1A032/M/01	31.01 - 32.00	1.220 - 1.259	457	70	M14
15	HSD1A033/M/01	32.01 - 33.00	1.260 - 1.299	457	70	M14
16	HSD1A034/M/01	32.31 - 33.30	1.299 - 1.338	457	70	M14
17	HSD1A035/M/01	34.01 - 35.00	1.338 - 1.377	457	70	M14
18	HSD1A036/M/01	35.01 - 36.00	1.378 - 1.417	457	70	M14
19	HSD1A037/M/01	36.01 - 37.00	1.417 - 1.456	457	70	M14
20	HSD1A038/M/01	37.01 - 38.00	1.457 - 1.496	457	70	M14
21	HSD1A039/M/01	38.01 - 39.00	1.496 - 1.535	457	70	M14
22	HSD1A040/M/01	39.01 - 40.00	1.535 - 1.574	457	70	M14
23	HSD1A041/M/01	40.01 - 41.00	1.575 - 1.614	457	70	M14
24	HSD1A042/M/01	41.01 - 42.00	1.614 - 1.653	457	70	M14
25	HSD1A043/M/01	42.01 - 43.00	1.653 - 1.692	457	70	M14
26	HSD1A044/M/01	43.01 - 44.00	1.693 - 1.732	457	70	M14

*For Spacing Options: Replace "M" in HSD1A019/M/01, with K-400, L-450, M-457 & N-500

For Boltless Frame Options: Replace "A" in HSD1A019/M/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Keeper Piece, Frame & Pivot	Aluminium Alloy	
Bolt, Nut & Washers	Galvanized Steel	
Damping Cylinder	Elastometer	Standard Elastomer rated for 125° COT
Clamp Cushion	Elastomer	(High Temperature Elastomer rated for 230° COT)

HEXAGONAL SPACER DAMPER (TYPE 2) Bolted Clamp (Metal to Metal Type)



SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)		
		mm	In	A*	B	BD
1	TRSD2A020/M/01	18.01 - 20.00	0.709 - 0.787	457	70	M14
2	TRSD2A022/M/01	20.01 - 22.00	0.787 - 0.866	457	70	M14
3	TRSD2A024/M/01	22.01 - 24.00	0.866 - 0.944	457	70	M14
4	TRSD2A026/M/01	24.01 - 26.00	0.945 - 1.023	457	70	M14
5	TRSD2A027.7/M/01	26.01 - 27.70	1.024 - 1.090	457	70	M14
6	TRSD2A028.7/M/01	27.71 - 28.70	1.090 - 1.129	457	70	M14
7	TRSD2A030/M/01	28.71 - 30.00	1.130 - 1.181	457	70	M14
8	TRSD2A032/M/01	31.01 - 32.00	1.220 - 1.259	457	70	M14
9	TRSD2A033.50/M/01	32.01 - 33.50	1.260 - 1.318	457	70	M14
10	TRSD2A035/M/01	33.51 - 35.00	1.319 - 1.377	457	70	M14
11	TRSD2A036/M/01	35.01 - 36.00	1.378 - 1.417	457	70	M14
12	TRSD2A038/M/01	38.01 - 40.00	1.417 - 1.496	457	70	M14
13	TRSD2A040/M/01	40.01 - 41.00	1.496 - 1.574	457	70	M14
14	TRSD2A041/M/01	41.01 - 42.00	1.575 - 1.614	457	70	M14
15	TRSD2A042/M/01	42.01 - 42.70	1.614 - 1.653	457	70	M14
16	TRSD2A042.70/M/01	42.71 - 44.00	1.653 - 1.681	457	70	M14
17	TRSD2A044/M/01	44.01 - 45.00	1.681 - 1.732	457	70	M14
18	TRSD2A045/M/01	44.01 - 45.00	1.732 - 1.771	457	70	M14
19	TRSD2A045.5/M/01	45.01 - 45.50	1.772 - 1.791	457	70	M14

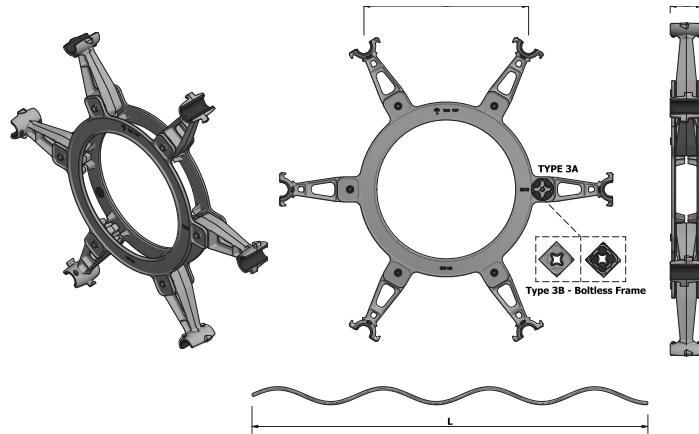
*For Spacing Options: Replace "M" in HSD2A019/M/01, with **K-400, L-450, M-457 & N-500**

For Boltless Frame Options: Replace "A" in HSD2A020/M/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Keeper Piece, Frame & Pivot	Aluminium Alloy	(High Temperature Application upto 150°C)
Bolt, Nut & Washers	Galvanized Steel	
Damping Elements	Elastometer	

HEXAGONAL SPACER DAMPER (TYPE 3)

Retaining Rod Type



SL.NO.	CATALOG NUMBER	CONDUCTOR DIAMETER RANGE		GENERAL DIMENSIONS (mm)		
		mm	In	A*	B	L
1	HSD3A1880/M/01	18.01 - 18.80	0.709 - 0.740	457	90	1100
2	HSD3A1960/M/01	18.81 - 19.60	0.740 - 0.771	457	90	1100
3	HSD3A2060/M/01	19.61 - 20.60	0.772 - 0.811	457	90	1100
4	HSD3A2150/M/01	20.61 - 21.50	0.811 - 0.846	457	90	1100
5	HSD3A2230/M/01	21.51 - 22.30	0.846 - 0.877	457	90	1100
6	HSD3A2300/M/01	22.31 - 23.00	0.878 - 0.905	457	90	1100
7	HSD3A2360/M/01	23.01 - 23.60	0.905 - 0.929	457	90	1100
8	HSD3A2480/M/01	23.61 - 24.80	0.929 - 0.976	457	90	1100
9	HSD3A2550/M/01	24.81 - 25.50	0.976 - 1.003	457	90	1100
10	HSD3A2630/M/01	25.51 - 26.30	1.004 - 1.035	457	90	1100
11	HSD3A2700/M/01	26.31 - 27.00	1.035 - 1.062	457	90	1100
12	HSD3A2770/M/01	27.01 - 27.70	1.063 - 1.090	457	90	1100
13	HSD3A2830/M/01	27.71 - 28.30	1.090 - 1.114	457	90	1100
14	HSD3A2930/M/01	28.31 - 29.30	1.114 - 1.153	457	90	1100
15	HSD3A3050/M/01	29.31 - 30.50	1.153 - 1.200	457	90	1100
16	HSD3A3130/M/01	30.51 - 31.30	1.201 - 1.232	457	90	1100
17	HSD3A3220/M/01	31.31 - 32.20	1.232 - 1.267	457	90	1100
18	HSD3A3300/M/01	32.21 - 33.00	1.268 - 1.299	457	90	1100
19	HSD3A3370/M/01	33.01 - 33.70	1.299 - 1.326	457	90	1100
20	HSD3A3450/M/01	33.71 - 34.50	1.327 - 1.358	457	90	1100
21	HSD3A3530/M/01	34.51 - 35.30	1.358 - 1.389	457	90	1100
22	HSD3A3600/M/01	35.31 - 36.00	1.390 - 1.417	457	90	1100
23	HSD3A3700/M/01	36.01 - 37.00	1.417 - 1.456	457	90	1100
24	HSD3A3780/M/01	37.01 - 37.80	1.457 - 1.488	457	90	1100
25	HSD3A3860/M/01	37.81 - 38.60	1.488 - 1.519	457	90	1100
26	HSD3A3940/M/01	38.61 - 39.40	1.520 - 1.551	457	90	1100
22	HSD3A4020/M/01	39.41 - 40.20	1.551 - 1.582	457	90	1100
23	HSD3A4120/M/01	40.21 - 41.20	1.583 - 1.622	457	90	1100
24	HSD3A4210/M/01	41.21 - 42.10	1.622 - 1.657	457	90	1100
25	HSD3A4300/M/01	42.11 - 43.00	1.657 - 1.692	457	90	1100
26	HSD3A4400/M/01	43.01 - 44.00	1.693 - 1.732	457	90	1100

*For Spacing Options: Replace "M" in HSD3A1880/M/01, with **K-400, L-450, M-457 & N-500**

For Boltless Frame Options: Replace "A" in HSD3A1880/M/01, with "B"

COMPONENT	MATERIAL	OPTIONS
Clamp Body, Frame & Pivot	Aluminium Alloy	
Bolt, Nut & Washers	Galvanized Steel	
Helical Retaining Rods	Aluminium Alloy	
Damping Cylinder	Elastomer	Standard Elastomer rated for 125° COT
Clamp Cushion	Elastomer	(High Temperature Elastomer rated for 230° COT)



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