

THE
REACTION WASHER
C O M P A N Y



TECHNICAL
SPECIFICATION GUIDE
2024





REACTION WASHER SYSTEM - TECHNICAL SPECIFICATIONS

Product Specification comply with **ASTM F3394/F3394M** "Standard Specification for Hardened Steel Backup and Reaction Washers Inch and Metric Dimensions."

NOTE: These washers are suitable for use with fasteners covered in Specifications **A354, A193/A193M, A194/A194M, A320/A320M, F959/F959M, A449, A563/A563M and F3125.**

Material Operations

- AISI 4140 (UNS G41400)
- 42CrMo4 (1.7225)
- RVS (316L)
- Additional Material Types per ASTM F3394/F3394M

Hardening

- Per ASTM F436 Type 1 (min 38 HRC - max 45 HRC)

Maximum Temperature Exposure

- Dependent upon material type specified (Contact Customer Support for Details)

Usage Allowance

- Repeatable

Appearance

REACTION WASHER

- Exterior Peripheral Castles (O.D.)
- Bi-Directional Angled Helical Serrations - Two Rows (Bottom)

BACKUP WASHER

- Round Exterior (O.D.) With Angled Helical Serration One Row (Top)
- Bi-Directional Angled Helical Serrations - Two Rows (Bottom)

Markings

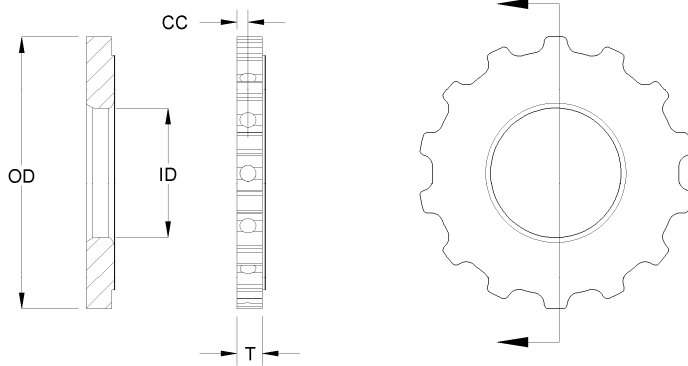
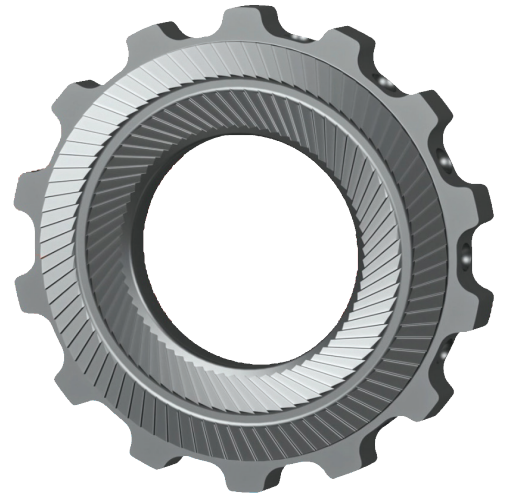
- Thread Size (Imperial and/or Metric) - Top Face
- SLR (SerraLoc Reaction Washer) or SLB (SerraLoc Backup Washer)

Coatings

- Zinc Corrosion Protective Coating
 - Thermo-diffusion
 - Mechanically Deposited
- Black Oxide with corrosion repellent oil



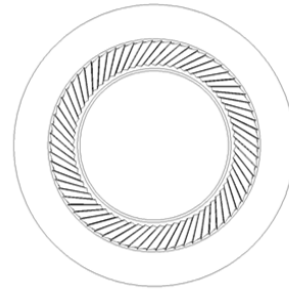
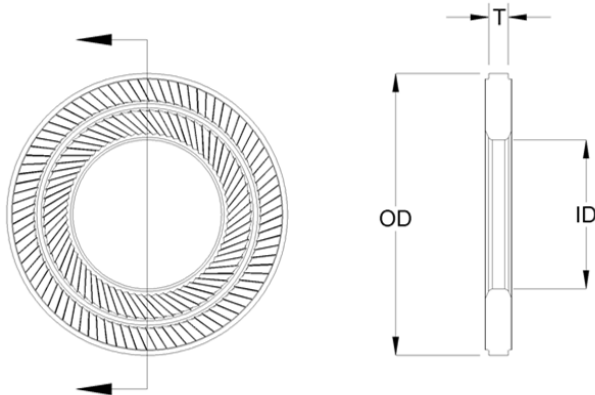
REACTION WASHER IMPERIAL SIZES



Part No.	Size	ID (min)	OD (max)	T	CC	WT (gr)
SLW008	1/2"	0.520	1.20	0.180	0.068	17.7
SLW009	9/16"	0.585	1.30	0.180	0.068	20.2
SLW010	5/8"	0.651	1.50	0.180	0.068	28.2
SLW012	3/4"	0.783	1.70	0.220	0.088	40.3
SLW014	7/8"	0.914	2.00	0.220	0.088	56.4
SLW100	1"	1.043	2.20	0.220	0.088	68.0
SLW102	1-1/8"	1.174	2.50	0.220	0.088	90.4
SLW104	1-1/4"	1.306	2.70	0.220	0.088	102.8
SLW106	1-3/8"	1.437	2.90	0.220	0.088	117.8
SLW108	1-1/2"	1.568	3.10	0.220	0.088	133.7
SLW110	1-5/8"	1.693	3.30	0.220	0.088	151.1
SLW112	1-3/4"	1.818	3.60	0.220	0.088	183.7
SLW114	1-7/8"	1.943	3.80	0.220	0.088	202.3
SLW200	2"	2.068	4.00	0.250	0.103	274.7
SLW204	2-1/4"	2.318	4.50	0.360	0.158	501.6
SLW208	2-1/2"	2.568	4.90	0.360	0.158	586.5
SLW212	2-3/4"	2.818	5.40	0.360	0.158	718.7
SLW300	3"	3.068	5.70	0.450	0.188	993.3



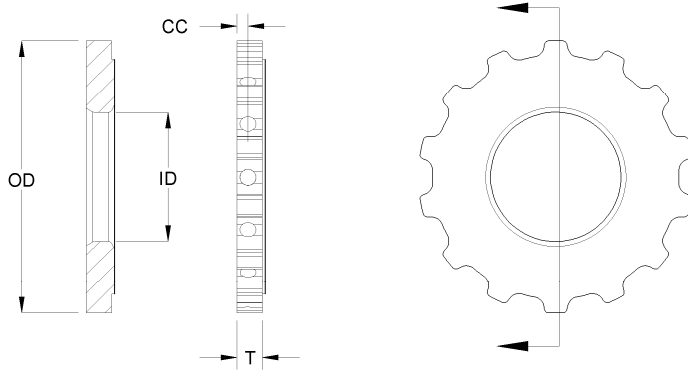
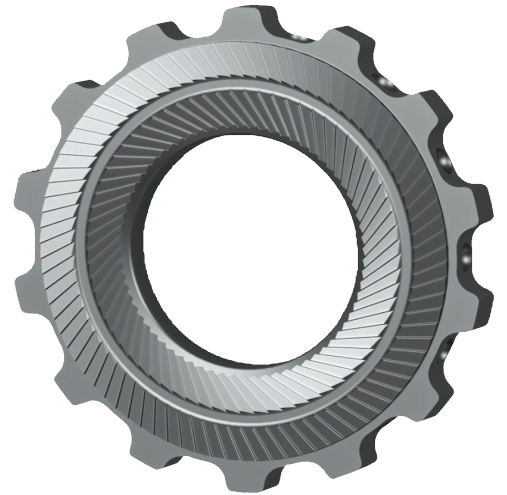
BACKUP WASHER IMPERIAL SIZES



Part No.	Size	ID (min)	OD (max)	T	CC	WT (gr)
SLB008	1/2"	0.520	1.10	0.097	N/A	10.6
SLB009	9/16"	0.585	1.20	0.110	N/A	13.9
SLB010	5/8"	0.651	1.30	0.122	N/A	17.9
SLB012	3/4"	0.783	1.60	0.122	N/A	26.4
SLB014	7/8"	0.914	1.80	0.136	N/A	47.3
SLB100	1"	1.043	2.00	0.136	N/A	45.4
SLB102	1-1/8"	1.174	2.20	0.158	N/A	63.1
SLB104	1-1/4"	1.306	2.50	0.158	N/A	79.6
SLB106	1-3/8"	1.437	2.70	0.158	N/A	92.9
SLB108	1-1/2"	1.568	2.90	0.158	N/A	108.5
SLB110	1-5/8"	1.693	3.10	0.158	N/A	125.8
SLB112	1-3/4"	1.818	3.30	0.178	N/A	173.7
SLB114	1-7/8"	1.943	3.50	0.178	N/A	192.1
SLB200	2"	2.068	3.80	0.178	N/A	224.4
SLB204	2-1/4"	2.318	4.30	0.240	N/A	329.9
SLB208	2-1/2"	2.568	4.70	0.240	N/A	379.5
SLB212	2-3/4"	2.818	5.20	0.240	N/A	484.0
SLB300	3"	3.068	5.40	0.240	N/A	528.1



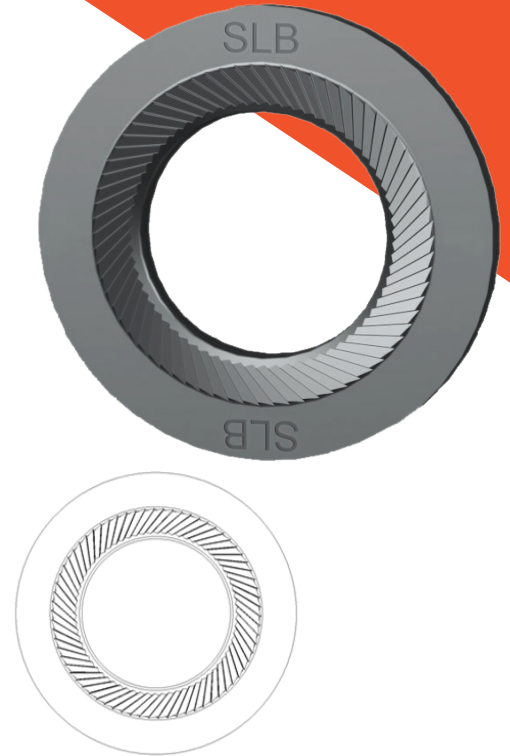
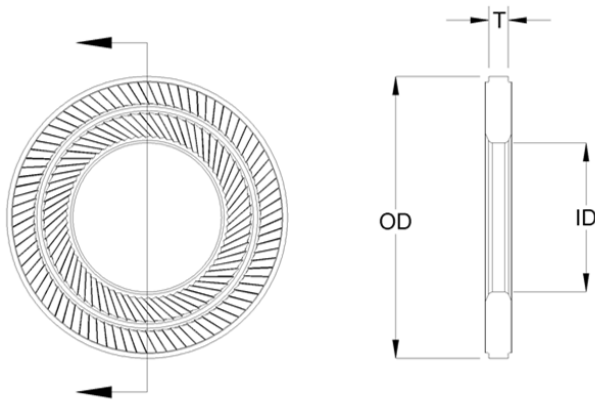
REACTION WASHER METRIC SIZES



Part No.	Size	ID (min)	OD (max)	T	CC	WT (gr)
SLB-M14	M14	14.50	30.0	3.8	1.73	13.1
SLB-M16	M16	16.50	33.0	3.8	1.73	15.5
SLB-M18	M18	18.50	38.0	3.8	1.73	21.3
SLB-M20	M20	20.50	39.0	3.8	1.73	21.1
SLB-M22	M22	23.00	42.0	3.8	1.73	23.8
SLB-M24	M24	25.00	48.0	4.6	1.73	40.4
SLB-M27	M27	28.00	53.0	4.6	1.73	49.0
SLB-M30	M30	31.00	59.0	5.6	2.24	75.4
SLB-M33	M33	34.00	64.0	5.6	2.24	88.3
SLB-M36	M36	37.00	70.0	5.6	2.24	107.5
SLB-M39	M39	40.00	75.0	5.6	2.24	123.5
SLB-M42	M42	43.00	82.0	5.6	2.24	157.1
SLB-M45	M45	46.00	87.0	5.6	2.24	178.1
SLB-M48	M48	49.00	94.0	5.6	2.24	212.7
SLB-M52	M52	53.00	98.0	6.4	2.62	252.5
SLB-M56	M56	57.00	110.0	8.3	3.43	413.2
SLB-M60	M60	61.00	110.0	8.3	3.43	385.6
SLB-M64	M64	65.00	122.0	9.2	4.01	553.0
SLB-M68	M68	69.00	122.0	9.2	4.01	518.5
SLB-M72	M72	73.00	134.0	9.2	4.01	655.3
SLB-M76	M76	77.00	134.0	9.2	4.01	616.5
SLB-M80	M80	81.00	144.0	11.5	4.78	924.7



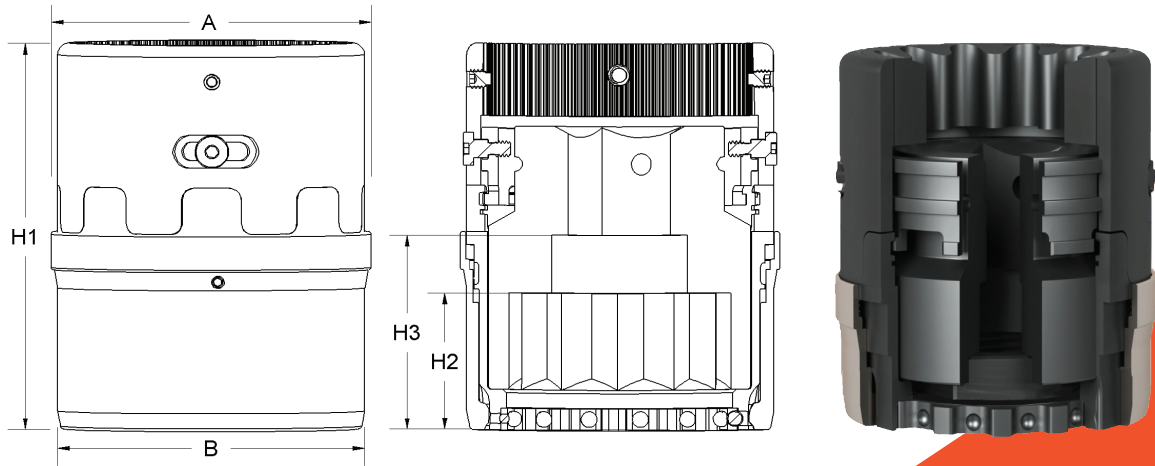
BACKUP WASHER METRIC SIZES



Part No.	Size	ID (min)	OD (max)	T	CC	WT (gr)
SLB-M14	M14	14.50	27.0	3.1	N/A	9.4
SLB-M16	M16	16.50	29.0	3.1	N/A	9.9
SLB-M18	M18	18.50	33.0	3.1	N/A	11.8
SLB-M20	M20	20.50	36.0	3.1	N/A	15.3
SLB-M22	M22	23.00	38.0	3.4	N/A	18.9
SLB-M24	M24	25.00	44.0	3.4	N/A	26.3
SLB-M27	M27	28.00	50.0	4.0	N/A	36.4
SLB-M30	M30	31.00	56.0	4.0	N/A	48.5
SLB-M33	M33	34.00	61.0	4.0	N/A	57.7
SLB-M36	M36	37.00	67.0	4.0	N/A	72.2
SLB-M39	M39	40.00	72.0	4.0	N/A	84.6
SLB-M42	M42	43.00	78.0	4.6	N/A	117.8
SLB-M45	M45	46.00	83.0	4.6	N/A	129.3
SLB-M48	M48	49.00	89.0	4.6	N/A	147.2
SLB-M52	M52	53.00	95.0	4.6	N/A	166.6
SLB-M56	M56	57.00	107.0	6.1	N/A	331.8
SLB-M60	M60	61.00	107.0	6.1	N/A	308.0
SLB-M64	M64	65.00	117.0	6.1	N/A	403.1
SLB-M68	M68	69.00	117.0	6.1	N/A	381.0
SLB-M72	M72	73.00	128.0	6.1	N/A	474.9
SLB-M76	M76	77.00	128.0	6.1	N/A	455.9
SLB-M80	M80	81.00	136.0	6.1	N/A	541.1



QUICK CONNECT DRIVE SYSTEM STANDARD



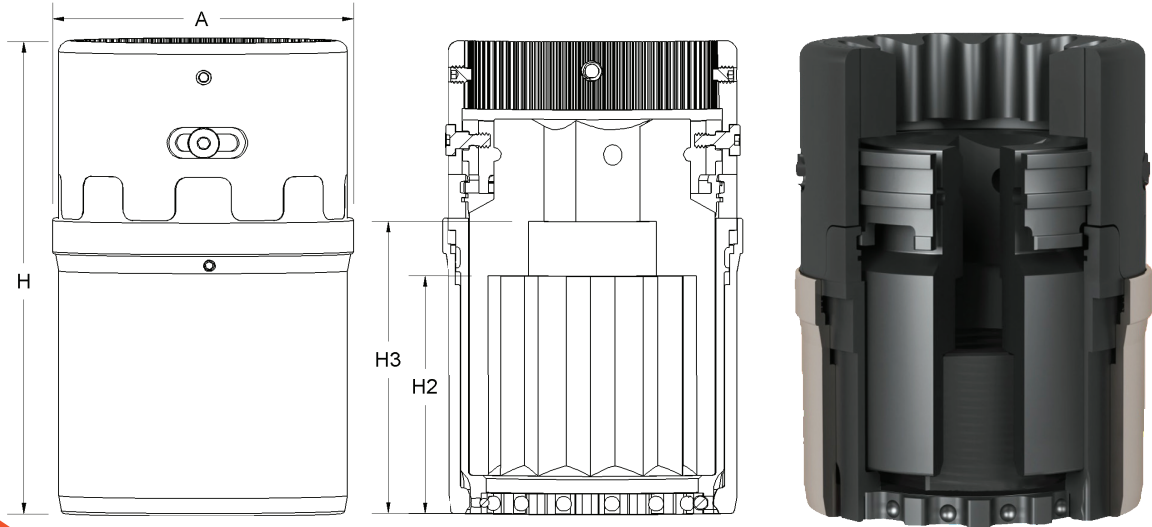
Part No.	SQ	Washer Size (mm/in)	Socket Size A.F.	ØA	ØB	H1	H2 (min)	H3 (min)
SQCDS012 - 30M	3/4"	M20	30mm	68,1 mm	52 mm	70,2 mm	27,6 mm	33,1 mm
SQCDS012-M32 or 104		M22/3/4"	32mm - 1-1/4"	68,1 mm	55,5 mm	77,7 mm	33,2 mm	39,8 mm
SQCDS012-M36 or 107		M24/7/8"	36mm - 1-7/16"	68,1 mm	60 mm	79,9 mm	35,2 mm	42,2 mm
SQCDS012-M41 or 110		M27/1"	41mm - 1-5/8"	68,1 mm	65,4 mm	84,9 mm	38,2 mm	45,8 mm
SQCDS012-M46 or 113		M30/1-1/8"	46mm - 1-13/16"	73,6 mm	73,6 mm	91,1 mm	41,2 mm	49,4 mm
SQCDS012-M50 or 200		M33/1-1/4"	50mm - 2"	84,2 mm	81,5 mm	98,6 mm	44,2 mm	53 mm
SQCDS012-M55 or 203		M36/1-3/8"	55mm - 2-3/16"	90,6 mm	87,9 mm	103,5 mm	47,2 mm	56,6 mm
SQCDS012-M60 or 206		M39/1-1/2"	60mm - 2-3/8"	96,5 mm	93,5 mm	107,8 mm	50,2 mm	60,2 mm

SQCDS100-M41 - 110	1"	M27/1"	41mm - 1-5/8"	100,8 mm	68,1 mm	90 mm	38,2 mm	45,8 mm
SQCDS100-M46 or 113		M30/1-1/8"	46mm - 1-13/16"	100,8 mm	74,9 mm	99,2 mm	41,2 mm	49,4 mm
SQCDS100-M50 or 200		M33/1-1/4"	50mm - 2"	100,8 mm	81,5 mm	111,3 mm	44,2 mm	53 mm
SQCDS100-M55 or 203		M36/1-3/8"	55mm - 2-3/16"	100,8 mm	87,9 mm	111,9 mm	47,2 mm	56,6 mm
SQCDS100-M60 or 206		M39/1-1/2"	60mm - 2-3/8"	100,8 mm	93,6 mm	117,4 mm	50,2 mm	60,2 mm
SQCDS100-M65 or 209		M42/1-5/8"	65mm - 2-9/16"	106,5 mm	100,8 mm	125,5 mm	53,6 mm	64,3 mm
SQCDS100-M70 or 212		M45/1-3/4"	70mm - 2-3/4"	111,3 mm	106,2 mm	126,6 mm	56,6 mm	67,9 mm
SQCDS100-M75 or 216		M48/1-7/8"	75mm - 2-15/16"	121,1 mm	114,7 mm	130,1 mm	59,6 mm	71,5 mm
SQCDS100-M80 or 302		M52/2"	80mm - 3-1/8"	124,7 mm	121,1 mm	136,2 mm	64,8 mm	77,8 mm

SQCDS150-M60 or 206	1-1/2"	M39/1-1/2"	60mm - 2-3/8"	135,9 mm	95,3 mm	125,7 mm	50,2 mm	60,2 mm
SQCDS150-M65 or 209		M42/1-5/8"	65mm - 2-9/16"	135,9 mm	108,9 mm	128,8 mm	53,6 mm	64,3 mm
SQCDS150-M70 or 212		M45/1-3/4"	70mm - 2-3/4"	135,9 mm	114,8 mm	130,4 mm	56,6 mm	67,9 mm
SQCDS150-M75 or 215		M48/1-7/8"	75mm - 2-15/16"	135,9 mm	120,1 mm	131,5 mm	59,6 mm	71,5 mm
SQCDS150-M80 or 302		M52/2"	80mm - 3-1/8"	135,9 mm	129,7 mm	138,4 mm	64,8 mm	77,8 mm
SQCDS150-M85 or 308		M56/2-1/4"	85mm - 3-1/2"	142,7 mm	142,6 mm	143,1 mm	74,2 mm	89 mm
SQCDS150-M90		M60	90mm	148,9 mm	149,9 mm	150,2 mm	78,2 mm	93,8 mm
SQCDS150-M85 or 314		M64/2-1/2"	95mm - 3-7/8"	154,5 mm	154,4 mm	156 mm	82,2 mm	98,6 mm
SQCDS150-M100		M68	100mm	161,3 mm	160,3 mm	160 mm	86,2 mm	103,4 mm
SQCDS150-M72 or 404		M72/2-3/4"	105mm - 4-1/4"	166,3 mm	166,2 mm	163,3 mm	90,2 mm	108,2 mm
SQCDS150-M110		M76	110mm	172,5 mm	172,4 mm	168,3 mm	94,2 mm	113 mm
SQCDS150-M115 or 410		M80/3"	115mm - 4-5/8"	178,1 mm	178 mm	173,9 mm	102,8 mm	123,4 mm



QUICK CONNECT DRIVE SYSTEM DEEP WELL



Part No.	SQ	Washer Size (mm/in)	Socket Size A.F.	ØA	ØB	H1	H2 (min)	H3 (min)
SQCDD012 - 30M	3/4"	M20	30mm	68,1 mm	52 mm	86,7 mm	27,6 mm	62,3 mm
SQCDD012-M32 or 104		M22/3/4"	32mm - 1-1/4"	68,1 mm	55,5 mm	90,6 mm	33,2 mm	68,3 mm
SQCDD012-M36 or 107		M24/7/8"	36mm - 1-7/16"	68,1 mm	60 mm	91,9 mm	35,2 mm	67,1 mm
SQCDD012-M41 or 110		M27/1"	41mm - 1-5/8"	68,1 mm	65,4 mm	93,6 mm	38,2 mm	52,4 mm
SQCDD012-M46 or 113		M30/1-1/8"	46mm - 1-13/16"	73,6 mm	73,6 mm	96 mm	41,2 mm	73 mm
SQCDD012-M50 or 200		M33/1-1/4"	50mm - 2"	84,2 mm	81,5 mm	103,9 mm	44,2 mm	66,6 mm
SQCDD012-M55 or 203		M36/1-3/8"	55mm - 2-3/16"	90,6 mm	87,9 mm	114,8 mm	47,2 mm	74,1 mm
SQCDD012-M60 or 206		M39/1-1/2"	60mm - 2-3/8"	96,5 mm	93,5 mm	116 mm	50,2 mm	69,3 mm
SQCDD100-M41 - 110	1"	M27/1"	41mm - 1-5/8"	100,8 mm	68,1 mm	101,4 mm	38,2 mm	71,5 mm
SQCDD100-M46 or 113		M30/1-1/8"	46mm - 1-13/16"	100,8 mm	74,9 mm	111,4 mm	41,2 mm	77,7 mm
SQCDD100-M50 or 200		M33/1-1/4"	50mm - 2"	100,8 mm	81,5 mm	114,9 mm	44,2 mm	77,6 mm
SQCDD100-M55 or 203		M36/1-3/8"	55mm - 2-3/16"	100,8 mm	87,9 mm	121,3 mm	47,2 mm	80,6 mm
SQCDD100-M60 or 206		M39/1-1/2"	60mm - 2-3/8"	100,8 mm	93,6 mm	132,1 mm	50,2 mm	88,7 mm
SQCDD100-M65 or 209		M42/1-5/8"	65mm - 2-9/16"	106,5 mm	100,8 mm	140,4 mm	53,6 mm	93,2 mm
SQCDD100-M70 or 212		M45/1-3/4"	70mm - 2-3/4"	111,3 mm	106,2 mm	145,8 mm	56,6 mm	96,3 mm
SQCDD100-M75 or 216		M48/1-7/8"	75mm - 2-15/16"	121,1 mm	114,7 mm	152,8 mm	59,6 mm	97,7 mm
SQCDD100-M80 or 302		M52/2"	80mm - 3-1/8"	124,7 mm	121,1 mm	160,7 mm	64,8 mm	104,4 mm
SQCDD150-M60 or 206	1-1/2"	M39/1-1/2"	60mm - 2-3/8"	135,9 mm	95,3 mm	146,9 mm	50,2 mm	101,8 mm
SQCDD150-M65 or 209		M42/1-5/8"	65mm - 2-9/16"	135,9 mm	108,9 mm	156,6 mm	53,6 mm	101,3 mm
SQCDD150-M70 or 212		M45/1-3/4"	70mm - 2-3/4"	135,9 mm	114,8 mm	156,9 mm	56,6 mm	98,7 mm
SQCDD150-M75 or 215		M48/1-7/8"	75mm - 2-15/16"	135,9 mm	120,1 mm	165 mm	59,6 mm	104,5 mm
SQCDD150-M80 or 302		M52/2"	80mm - 3-1/8"	135,9 mm	129,7 mm	168,6 mm	64,8 mm	106,9 mm
SQCDD150-M56 or 308		M56/2-1/4"	85mm - 3-1/2"	142,7 mm	142,6 mm	175,2 mm	74,2 mm	111,5 mm
SQCDD150-M90		M60	90mm	148,9 mm	149,9 mm	177,6 mm	78,2 mm	109,5 mm
SQCDD150-M85 or 314		M64/2-1/2"	95mm - 3-7/8"	154,5 mm	154,4 mm	179,6 mm	82,2 mm	105,8 mm
SQCDD150-M100		M68	100mm	161,3 mm	160,3 mm	183,1 mm	86,2 mm	109,4 mm
SQCDD150-M72 or 404		M72/2-3/4"	105mm - 4-1/4"	166,3 mm	166,2 mm	184,8 mm	90,2 mm	111,7 mm
SQCDD150-M110		M76	110mm	172,5 mm	172,4 mm	191,6 mm	94,2 mm	121,5 mm
SQCDD150-M115 or 410		M80/3"	115mm - 4-5/8"	178,1 mm	178 mm	199,3 mm	102,8 mm	128,2 mm