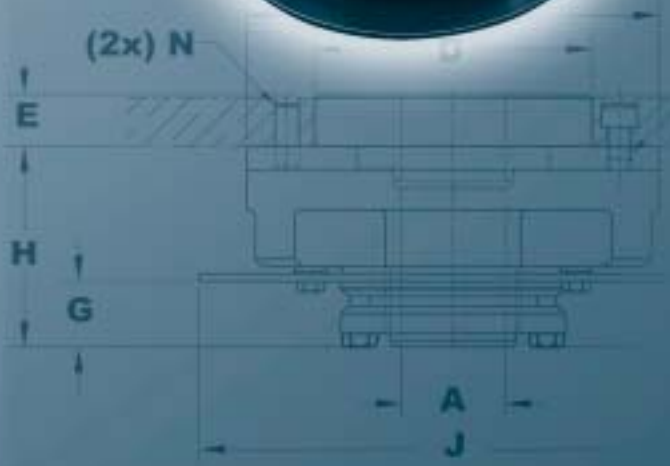


Output and Input Overload Clutches



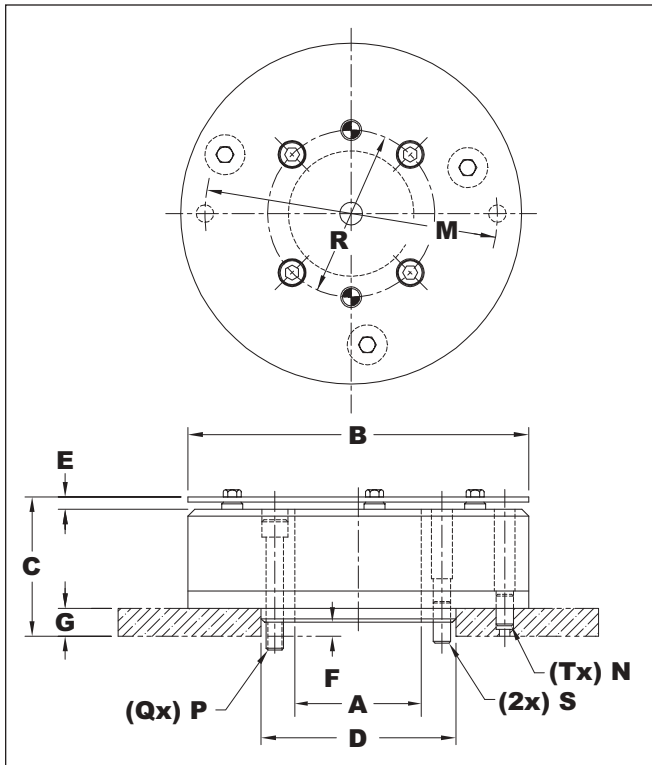
Features

IMC **Output Overload** and **Rite-Torq® Clutches** are designed to protect your indexing equipment from costly downtime due to overload or jam conditions by quickly disengaging the drive system.

- ◆ Easily Mounted to IMC index drives
- ◆ Single Position reset to maintain accuracy and machine timing
- ◆ Precision hardened and ground plungers and drive plate
- ◆ Overload Detector plate provides actuation for overload detector switch
- ◆ Variety of Models for all applications
- ◆ Standard & custom torque settings
 - Rite-Torq clutches are fully adjustable within a range
- ◆ Rigid, Backlash-Free design

IMC **Input Overload Clutches (IOC)** are used when an Output Overload Clutch cannot be used such as when the indexer is lifting a weight. IOC's have an adjustable torque setting and reset when the overload condition is removed.

“D” Clutch: Flange-Mounted Body



“D” Type clutches are designed to mount on IMC Index Drives with large dial mounting surfaces. The dial plate rests directly on the index drive output flange, providing stability and accuracy.

All dimensions are subject to change. For actual dimensions, please request the current drawing from IMC.

Dimensions – D-Type Clutch

Model	A	B	C	D	E	F	G	M	N	P	Q	R	S	T
2.8D	1.00	5.12	2.50	2.500	0.22*	0.250	0.500	4.250	0.312	.312-18	4	2.00	0.31	2
4.0D	2.25	6.12	2.50	3.500	0.22*	0.250	0.500	5.250	0.312	.312-18	4	3.00	0.31	2
7.8D	3.41	8.50	2.88	5.000	0.25**	0.188	0.750	6.750	0.500	.500-20	4	4.25	0.50	2
18D	2.62	10.25	4.53	5.000	0.31***	0.188	1.000	8.250	0.625	.500-20	4	4.25	0.50	2
31D	5.25	14.50	4.03	9.000	0.34***	-	1.000	11.750	0.750	.500-20	6	8.25	0.50	4
32D	5.25	14.50	4.03	9.000	0.34***	-	1.000	11.750	0.750	.500-13	6	8.25	0.50	4
61D	7.25	18.38	5.40	11.000	0.34***	-	1.250	16.000	0.750	.625-11	8	10.00	.625 (4)	4

* Dimension increases .06 during overload

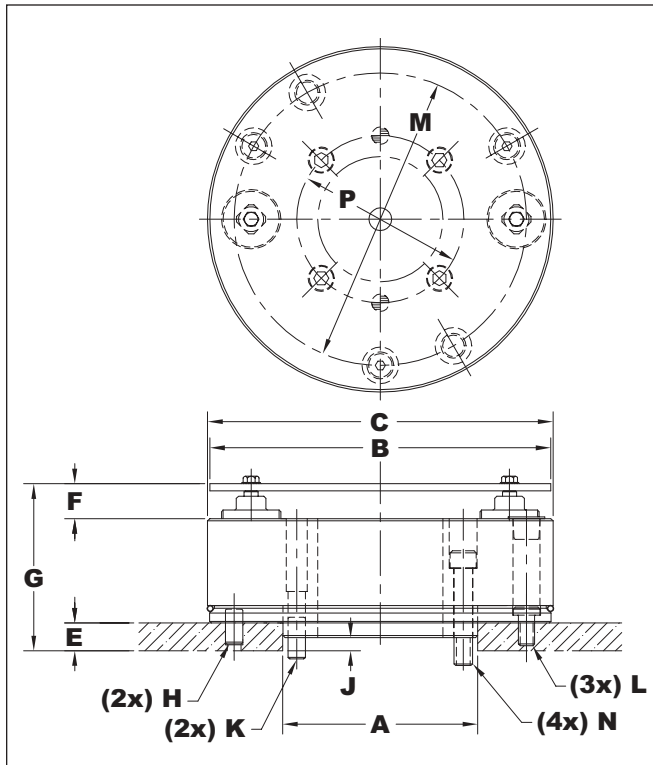
** Dimension increases .09 during overload

*** Dimension increases .12 during overload

Specifications – D-Type Clutch

Model	Internal Inertia (lb-in)	Torque Setting (in-lb)	Index Drive
2.8D	29	400 480 700 850 1100 1300 1800 2200 3100	425RD
4.0D	69	420 620 750 1150 1750 2950 4000	601RDM
7.8D	266	1400 1700 2600 3200 4200 5000 7200 10000	902RDM 663RAD 900RAD
18D	743	5000 7000 7800 10,000 13000 15000 20000 25000	900RAD
31D	2910	8500 13000 20000 31000	1200RAD
32D	2910	8500 13000 20000 31000	1305RDM
61D	4900	23000 36000 44000 50000 60000	1800RDM

“D-SA” Clutch: Super-Accurate Flange-Mounted Body



IMC’s Super Accurate “D-SA” clutches are designed to mount on IMC Index Drives which feature large dial mounting surfaces. Using externally mounted torque nuts, these clutches are easily adjustable throughout their entire torque range. “D-SA” clutches will re-engage to within ± 10 arc seconds of their original setting and may be used in wash down applications, making them ideal for use in the most demanding high-performance applications.

All dimensions are subject to change. For actual dimensions, please request the current drawing from IMC.

H

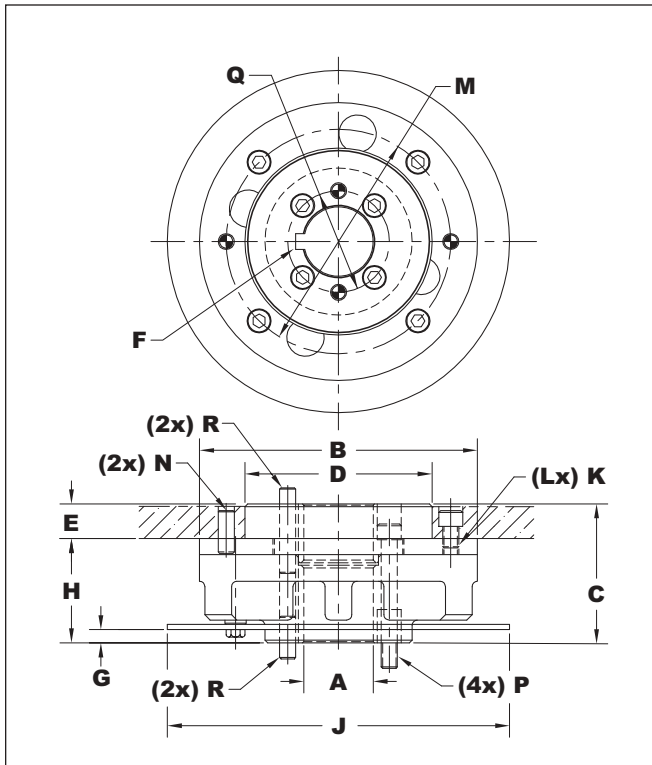
Dimensions – D-SA Type Clutch													
Model	A	B	C	E	F	G	H	J	K	L	M	N	P
2.8D-SA	2.5000	5.12	5.20	0.500	.62*	3.00	0.313	0.250	0.3125	.312-18	4.250	.312-24	2.000
4.0D-SA	3.5000	6.12	6.20	0.500	.62*	3.00	0.313	0.250	0.3125	.312-18	5.250	.312-24	3.000
7.8D-SA	5.0000	8.50	8.56	0.750	.58**	3.21	0.500	0.188	0.5	.375-16	6.750	.500-20	4.250

* F Dimension increases .06 during overload

** F Dimension increases .07 during overload

Specifications – D-SA Type Clutch			
Model	Internal Inertia (lb-in)	Torque Setting (in-lb)	Index Drive
2.8D	29	Fully adjustable: 500 in-lb to 3,100 in-lb	425RD
4.0D	69	Fully adjustable: 750 in-lb to 4,000 in-lb	601RDM
7.8D	266	Fully adjustable: 2,600 in-lb to 10,000 in-lb	902RDM 663RAD 900RAD

“F” Clutch: Flange to Flange Mounting



IMC “F” type clutches are designed to mount on IMC index drives. These clutches will flange mount to the output shaft, providing a rigid, compact, and accurate connection with the driven member.

All dimensions are subject to change. For actual dimensions, please request the current drawing from IMC.

Dimensions – F-Type Clutch

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
.39F	0.6250	3.38	2.19	2.375	0.41	0.1875	.22†	1.78	4.75	10-32	4	2.875	0.250	10-32	1.25	0.25
M40F*	17	86	56	60.3	10.8	-	5.5††††	45.2	120	M5	4	73	6	M4	28	4
M50F*	20	86	56	60.3	10.8	-	5.5††††	45.2	150	M5	4	73	6	M5	35	5
M70F*	35	130	70.6	90	14.3	-	5.5††††	56.3	165	M8	4	110	8	M6	55	6
M80F*	45	130	70.6	90	14.3	-	5.5††††	56.3	203	M8	4	110	8	M8	55	8
2.3F	1.0000**	5.12	2.78	3.500	0.56	0.250	.22†	2.22	6.50	5/16-24	4	4.25	0.312	5/16-24	2.00	0.31
6.0F	1.6250	6.50	3.25	4.375	0.81	0.375	.31††	2.44	8.00	3/8-24	4	5.25	0.375	3/8-24	2.38	0.38
11F	2.0000	8.50	3.72	5.750	0.81	0.500	.38††	2.91	10.00	3/8-24	4	6.75	0.500	3/8-24	3.25	0.50
25F	2.7500	10.25	4.97	7.125	1.06	0.625	.38†††	3.91	12.00	1/2-13	6	8.25	0.625	1/2-20	4.25	0.63
41F	3.0000	15.00	5.50	10.000	1.06	0.750	.41†††	4.44	17.00	5/8-18	6	11.75	0.750	3/4-10	5.50	0.65

* Dimensions in millimeters

** Also 1.2500

† Dimension decreases .06 during overload

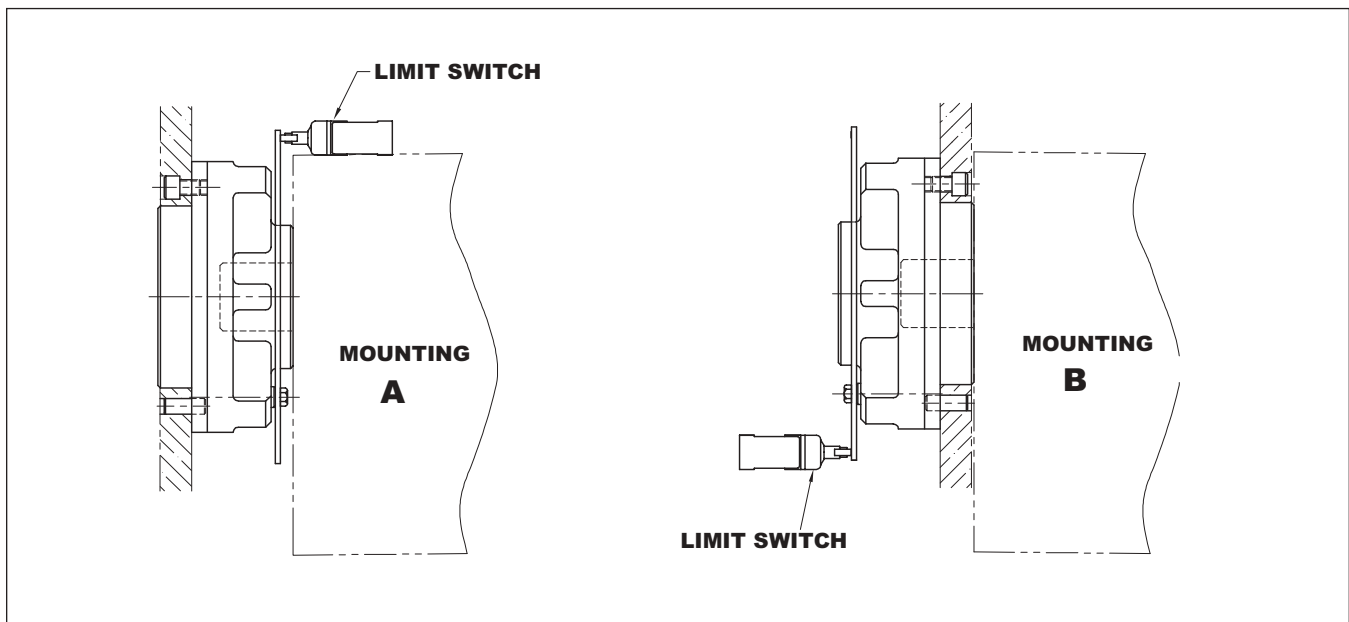
†† Dimension decreases .09 during overload

††† Dimension decreases .12 during overload

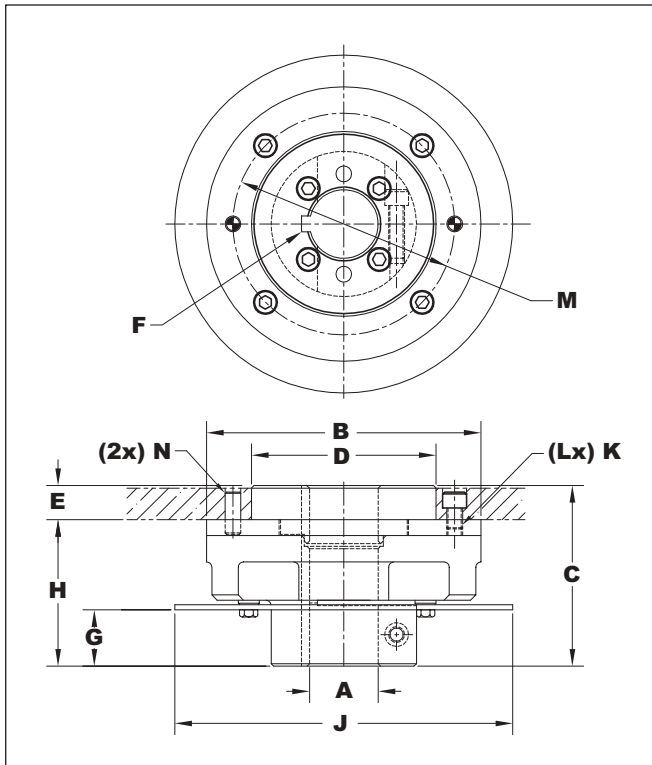
†††† Dimension decreases 1.5 mm during overload

Specifications – F-Type Clutch			
Model	Internal Inertia (lb-in)	Torque Setting (in-lb)	Index Drive
.39F	5	160 210 270 320 390	250P 301RA
M40F	5	160 210 270	40RGS
M50F	5	270 320 390	50RGS
M70F	32	400 600 700 850 1000	70RGS
M80F	32	400 600 700 850 1000 1300	80RGS
2.3F	32	400 600 700 850 1000 1300 1800 2000 230	387P 350RGS/RGD 400RA 401RA
6.0F	87	670 825 1100 1400 1700 2000 2300 2500 3000 3800 4000 5000 6000	512P 512RA
11F	340	2300 4000 6000 8500 11000	662P 662RA 663RAD
25F	842	5000 7000 10000 13000 15000 20000 25000	900RAD 900P
41F	5390	13000 21000 30000 41000	1200P

IMC “F” type clutches may be mounted in two positions, “A” or “B.” Mounting “B” provides greater rigidity and overhung loading and should be used whenever high loads are exerted on driven members.



“S” Clutch: Shaft to Flange Mounting



IMC “S” type clutches are designed to mount on IMC index drives without output flanges. The combination of key and clamped hub design provides a rigid and backlash-free connection.

All dimensions are subject to change. For actual dimensions, please request the current drawing from IMC.

Dimensions – S-Type Clutch

Model	A	B	C	D	E	F	G	H	J	K	L	M	N
.39S	0.6250	3.38	2.63	2.375	0.40	0.187	.66†	2.22	4.75	10-32	4	2.88	0.250
M40S*	16	86	67	60.3	10.6	5	17††††	56.4	120	M5	4	73	6
M50S*	20	86	67	60.3	10.6	6	17††††	56.4	150	M5	4	73	6
M70S*	25	130	84	90	14	8	19††††	70	165	M8	4	110	8
M80S*	30	130	84	90	14	8	19††††	70	203	M8	4	110	8
2.3S	1.0000**	5.12	3.31	3.500	0.56	0.250	.75†	2.75	6.50	5/16-24	4	4.25	0.312
6.0S	1.6250	6.50	4.28	4.375	0.81	0.375	1.34††	3.47	8.00	3/8-24	4	5.25	0.375
11S	2.0000	8.50	5.00	5.750	0.81	0.500	1.69††	4.19	10.00	3/8-24	4	6.75	0.500
25S	2.5000	10.25	6.25	7.125	1.06	0.625	1.66†††	5.19	12.00	1/2-13	6	8.25	0.625
41S	3.0000	15.00	7.56	10.000	1.06	0.750	2.47†††	6.50	17.00	5/8-18	6	11.75	0.750

* Dimensions in millimeters

** Also 1.2500

† Dimension decreases .06 during overload

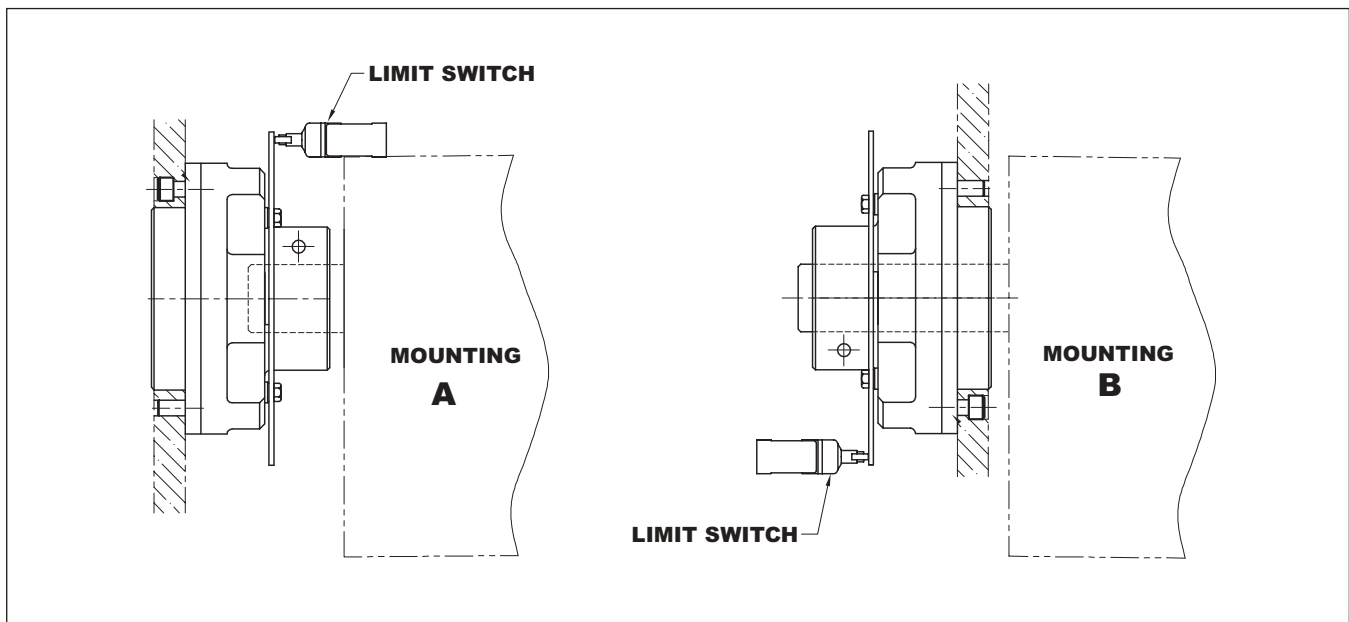
†† Dimension decreases .09 during overload

††† Dimension decreases .12 during overload

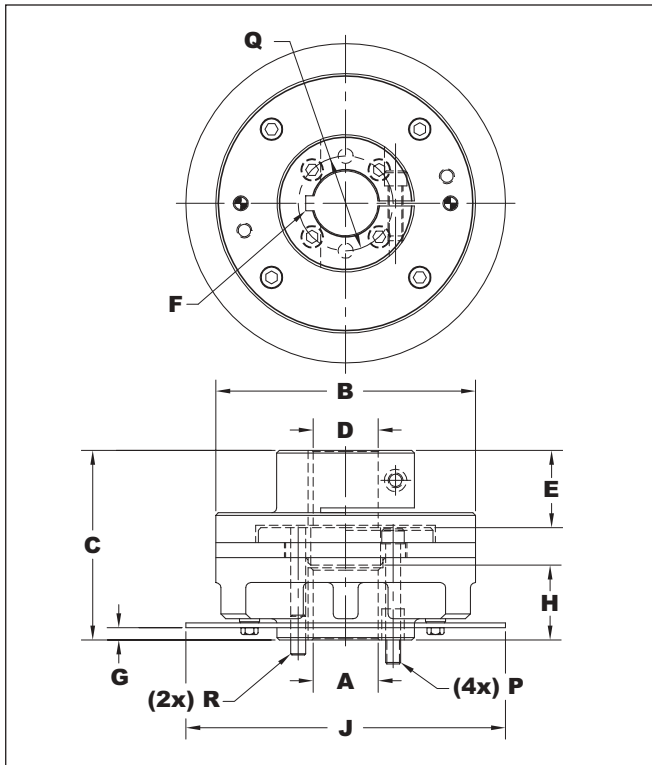
†††† Dimension decreases 1.5 mm during overload

Specifications – S-Type Clutch			
Model	Internal Inertia (lb-in)	Torque Setting (in-lb)	Index Drive
.39S	5	160 210 270 320 390	250P 301RA
M40S	5	160 210 270	40RGS
M50S	5	270 320 390	50RGS
M70S	31	400 600 700 850 1000	70RGS
M80S	31	400 600 700 850 1000 1300	80RGS
2.3S	31	400 600 700 850 1000 1300 1800 2000 230	387P 350RGS/RGD 400RA 401RA
6.0S	83	670 825 1100 1400 1700 2000 2300 2500 3000 3800 4000 5000 6000	512P 512RA
11S	320	2300 4000 6000 8500 11000	500RGD/RGS 662RA 662P
25S	803	5000 7000 10000 13000 15000 20000 25000	700RGS
41S	4750	13000 21000 30000 41000	1200P

IMC “S” type clutches may be mounted two positions, “A” or “B.” Mounting “B” provides greater rigidity and overhung loading and should be used whenever high loads are exerted on driven members.



“FC” Clutch: Flange to Shaft Mounting



IMC “FC” type clutches are designed to mount on IMC index drives. These clutches will flange mount to the output shaft, providing a rigid, compact and accurate connection.

All dimensions are subject to change. For actual dimensions, please request the current drawing from IMC.

Dimensions – FC-Type Clutch

Model	A	B	C	D	E	F	G	H	J	P	Q	R
.39FC	0.6250	3.38	3.03	0.625	1.06	0.187	.22†	1.41	4.75	10-32	1.25	0.25
M40FC*	17	86	77	16	27	5	5.5††††	36	120	M4	28	4
M50FC*	20	86	77	20	27	6	5.5††††	36	150	M5	35	5
M70FC*	35	130	97	25	31	8	5.5††††	44	165	(6) M6	55	6
M80FC*	45	130	97	30	31	8	5.5††††	44	165	M8	55	8
2.3FC	1.0000**	5.12	3.81	1.000	1.28	0.250	.22†	1.75	6.50	5/16-24	2.00	0.31
6.0FC	1.6250	6.50	4.75	1.625	1.94	0.375	.31††	1.88	8.00	3/8-24	2.38	0.38
11FC	2.0000	8.50	5.72	2.000	2.38	0.500	.38††	2.25	10.00	3/8-24	3.25	0.38
25FC	2.5000	10.25	6.97	2.500	2.50	0.625	.38†††	3.09	12.00	1/2-20	4.25	0.50
41FC	3.0000	15.00	8.81	3.000	3.63	0.750	.41†††	3.38	17.00	3/4-10	5.50	0.62

* Dimensions in millimeters

** Also 1.2500

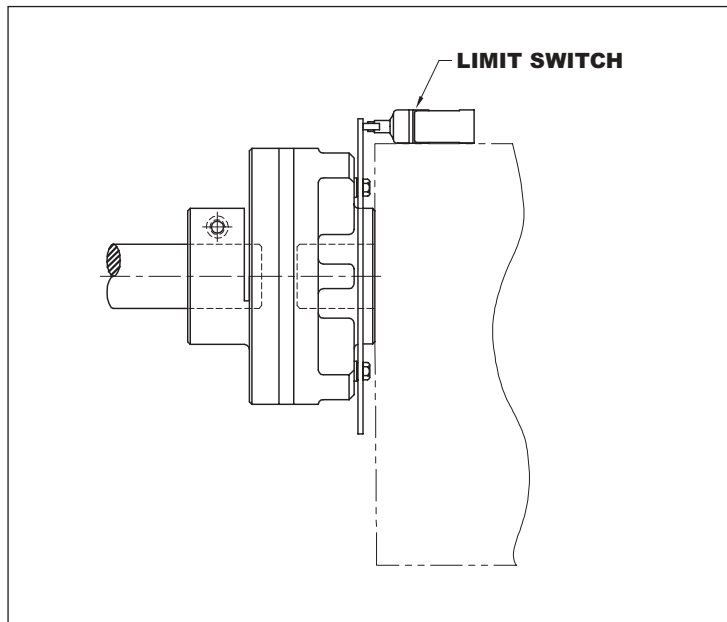
† Dimension decreases .06 during overload

†† Dimension decreases .09 during overload

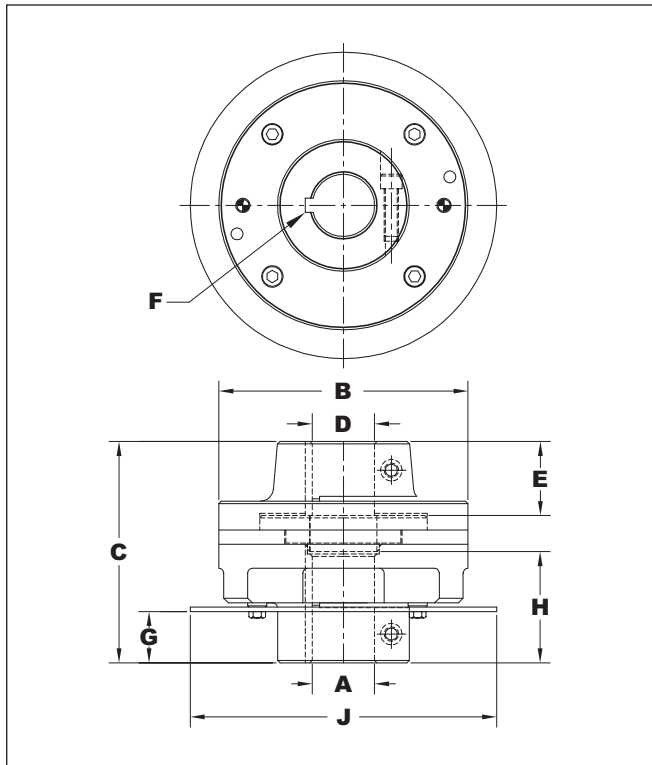
††† Dimension decreases .12 during overload

†††† Dimension decreases 1.5 mm during overload

Specifications – FC-Type Clutch			
Model	Internal Inertia (lb-in)	Torque Setting (in-lb)	Index Drive
.39FC	7	160 210 270 320 390	250P 301RA
M40FC	7	160 210 270	40RGD
M50FC	7	270 320 390	50RGD
M70FC	43	400 600 700 850 1000	70RGD
M80FC	43	400 600 700 850 1000 1300	80RGD
2.3FC	43	400 600 700 850 1000 1300 1800 2000 230	387P 350RGS/RGD 400RA 401RA
6.0FC	118	670 825 1100 1400 1700 2000 2300 2500 3000 3800 4000 5000 6000	512P 512RA
11FC	456	2300 4000 6000 8500 11000	662P 662RA 663RAD
25FC	1130	5000 7000 10000 13000 15000 20000 25000	900P 900RAD
41FC	6940	13000 21000 30000 41000	1200P



“C” Clutch: Shaft to Shaft Mounting



IMC “C” type clutches are designed to mount on IMC index drives without output flanges. These clutches are used whenever a positive connection is required between two shafts.

All dimensions are subject to change. For actual dimensions, please request the current drawing from IMC.

Dimensions – C-Type Clutch

Model	A	B	C	D	E	F	G	H	J
.39C	0.6250	3.38	3.47	0.625	1.06	0.187	.66†	1.84	4.75
M40C*	16	86	88	16	27	5	17††††	47	120
M50C*	20	86	88	20	27	6	17††††	47	150
M70C*	25	130	110	25	31	8	19††††	58	165
M80C*	30	130	110	30	31	8	19††††	58	203
2.3C	1.0000**	5.12	4.34	1.000	1.28	0.250	.75†	2.28	6.50
6.0C	1.6250	6.50	5.78	1.625	1.94	0.375	1.34††	2.91	8.00
11C	2.0000	8.50	7.00	2.000	2.38	0.500	1.69††	3.56	10.00
25C	2.5000	10.25	8.25	2.500	2.50	0.625	1.66†††	4.38	12.00
41C	3.0000	15.00	10.88	3.000	3.63	0.750	2.47†††	5.44	17.00

* Dimensions in millimeters

** Also 1.2500

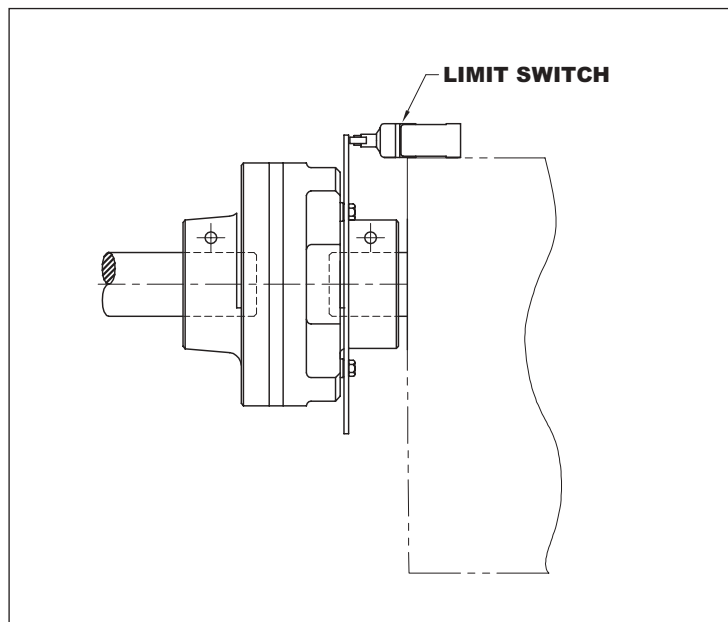
† Dimension decreases .06 during overload

†† Dimension decreases .09 during overload

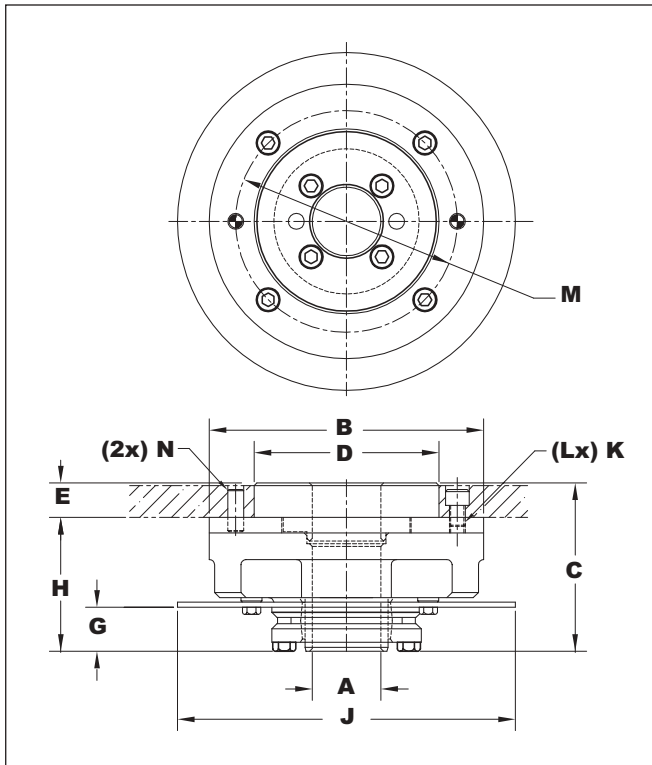
††† Dimension decreases .12 during overload

†††† Dimension decreases 1.5 mm during overload

Specifications – C-Type Clutch			
Model	Internal Inertia (lb-in)	Torque Setting (in-lb)	Index Drive
.39C	7	160 210 270 320 390	250P 301RA
M40C	7	160 210 270	40RGS
M50C	7	270 320 390	50RGS
M70C	44	400 600 700 850 1000	70RGS
M80C	44	400 600 700 850 1000 1300	80RGS
2.3C	44	400 600 700 850 1000 1300 1800 2000 230	387P 350RGS/RGD 400RA 401RA
6.0C	122	670 825 1100 1400 1700 2000 2300 2500 3000 3800 4000 5000 6000	512P 512RA
11C	476	2300 4000 6000 8500 11000	500RGD/RGS 662P
25C	1169	5000 7000 10000 13000 15000 20000 25000	700RGS
41C	7225	13000 21000 30000 41000	1200P



“S-SD” Clutch: Shaft to Flange, Shrink-Disk Mounting



IMC “S-SD” type clutches are designed to mount on IMC index drives without output flanges. The shrink disk design converts clamp loads from multiple high strength locking screws to radial gripping force through the use of circular wedges, providing the highest capacity mechanical interference connection available.

All dimensions are subject to change. For actual dimensions, please request the current drawing from IMC.

Dimensions – S-SD-Type Clutch

Model	A	B	C	D	E	G	H	J	K	L	M	N
.39S-SD	0.6250	3.38	2.62	2.375	0.40	.66†	2.22	4.75	10-32	4	2.88	0.250
2.3S-SD	1.0000	5.12	3.31	3.500	0.56	.75†	2.75	6.50	5/16-24	4	4.25	0.312
6.0S-SD	1.6250	6.50	3.98	4.375	0.81	1.04††	3.17	8.00	3/8-24	4	5.25	0.375
11S-SD	2.0000	8.50	4.38	5.750	0.82	1.06††	3.56	10.00	3/8-24	4	6.75	0.500
25S-SD	2.5000	10.25	5.75	7.125	1.06	1.16†††	4.69	12.00	1/2-13	6	8.25	0.625

* Dimensions in millimeters

† Dimension decreases .06 during overload

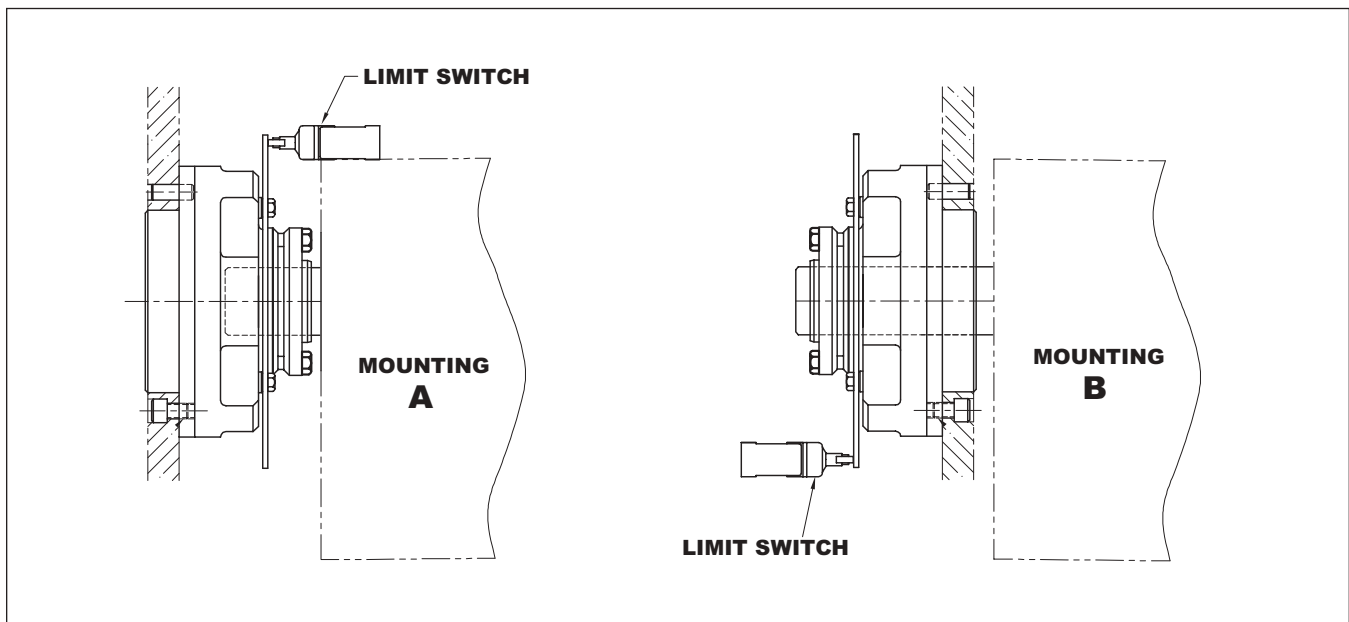
†† Dimension decreases .09 during overload

††† Dimension decreases .12 during overload

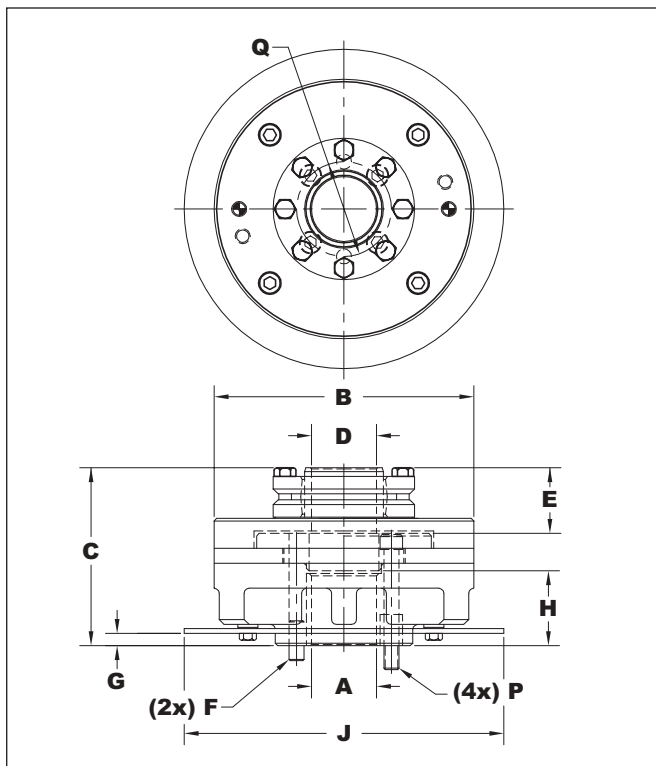
†††† Dimension decreases 1.5 mm during overload

Specifications – S-SD-Type Clutch			
Model	Internal Inertia (lb-in)	Torque Setting (in-lb)	Index Drive
.39S-SD	5	160 210 270 320 390	250P 301RA
2.3S-SD	32	400 600 700 850 1000 1300 1800 2000 230	387P 350RGS/RGD 400RA 401RA
6.0S-SD	87	670 825 1100 1400 1700 2000 2300 2500 3000 3800 4000 5000 6000	512P 512RA
11S-SD	340	2300 4000 6000 8500 11000	500RGD/RGS 662P
25S-SD	842	5000 7000 10000 13000 15000 20000 25000	700RGS 900P

IMC ‘S-SD’ type clutches may be mounted in two positions, “A” or “B.” Mounting “B” provides greater rigidity and overhung loading and should be used whenever high loads are exerted on driven members.



“FC-SD” Clutch: Flange to Shaft, Shrink-Disk Mounting



IMC “FC-SD” type clutches are designed to mount on IMC index drives with output flanges. The shrink disk design converts clamp loads from multiple high strength locking screws to radial gripping force through the use of circular wedges, providing the highest capacity mechanical interference connection available.

All dimensions are subject to change. For actual dimensions, please request the current drawing from IMC.

Dimensions – FC-SD-Type Clutch											
Model	A	B	C	D	E	F	G	H	J	P	Q
.39FC-SD	0.6250	3.38	3.00	0.625	1.03	0.25	.22†	1.41	4.75	10-32	1.25
2.3FC-SD	1.0000	5.12	3.81	1.000	1.27	0.31	.22†	1.75	6.50	5/16-24	2.00
6.0FC-SD	1.6250	6.50	4.46	1.625	1.64	0.38	.31††	1.88	8.00	3/8-24	2.38
11FC-SD	2.0000	8.50	5.06	2.000	1.75	0.38	.38††	2.25	10.00	3/8-24	3.25
25FC-SD	2.5000	10.25	6.50	2.500	2.00	0.50	.38†††	3.09	12.00	1/2-20	4.25

* Dimensions in millimeters

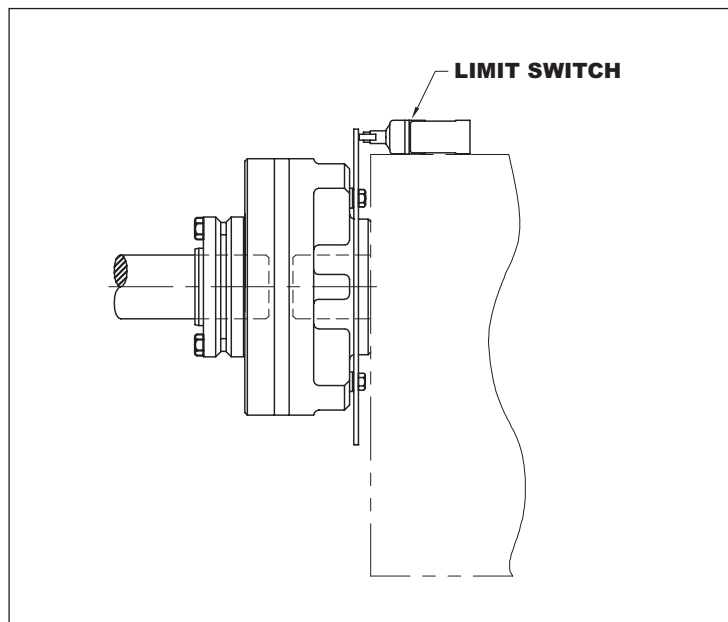
† Dimension decreases .06 during overload

†† Dimension decreases .09 during overload

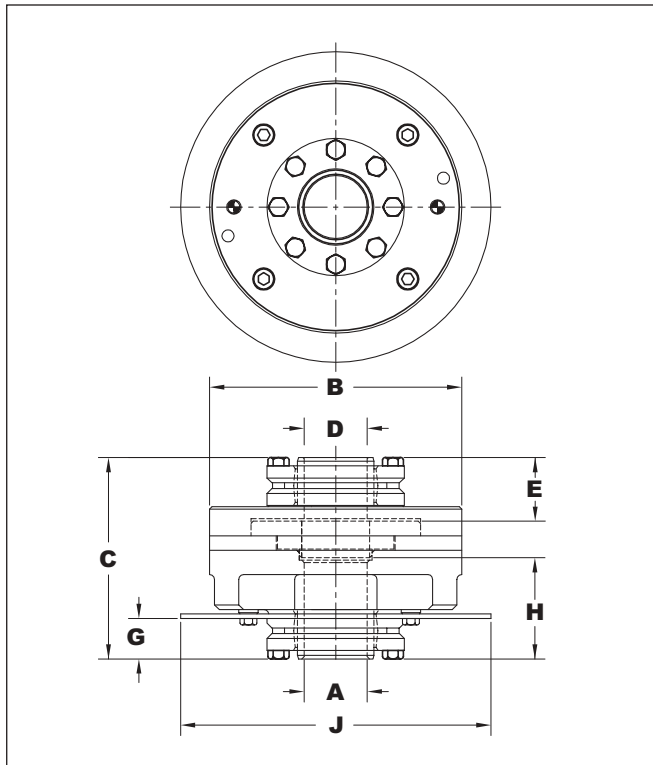
††† Dimension decreases .12 during overload

†††† Dimension decreases 1.5 mm during overload

Specifications – FC-SD-Type Clutch			
Model	Internal Inertia (lb-in)	Torque Setting (in-lb)	Index Drive
.39FC-SD	7	160 210 270 320 390	250P 301RA
2.3FC-SD	43	400 600 700 850 1000 1300 1800 2000 230	387P 350RGS/RGD 400RA 401RA
6.0FC-SD	118	670 825 1100 1400 1700 2000 2300 2500 3000 3800 4000 5000 6000	512P 512RA
11FC-SD	456	2300 4000 6000 8500 11000	500RGD/RGS 662P 662RA
25FC-SD	1130	5000 7000 10000 13000 15000 20000 25000	700RGS 900P 900RAD



“C-SD” Clutch: Shaft to Shaft, Shrink-Disk Mounting



IMC “C-SD” type clutches are designed to mount on IMC index drives without output flanges. The shrink disk design converts clamp loads from multiple high strength locking screws to radial gripping force through the use of circular wedges, providing the highest capacity mechanical interference connection available.

All dimensions are subject to change. For actual dimensions, please request the current drawing from IMC.

Dimensions – C-SD-Type Clutch								
Model	A	B	C	D	E	G	H	J
.39C-SD	0.6250	3.38	3.44	0.625	1.03	.66†	1.84	4.75
2.3C-SD	1.0000	5.12	4.34	1.000	1.28	.75†	2.28	6.50
6.0C-SD	1.6250	6.50	5.19	1.625	1.64	1.04††	2.61	8.00
11C-SD	2.0000	8.50	5.75	2.000	1.75	1.06††	2.93	10.00
25C-SD	2.5000	10.25	7.31	2.500	2.00	1.16†††	3.88	12.00

* Dimensions in millimeters

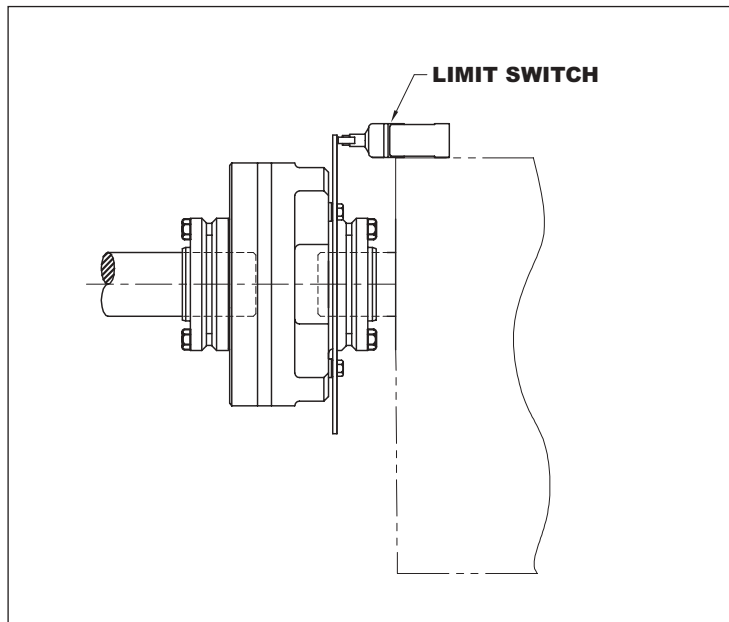
† Dimension decreases .06 during overload

†† Dimension decreases .09 during overload

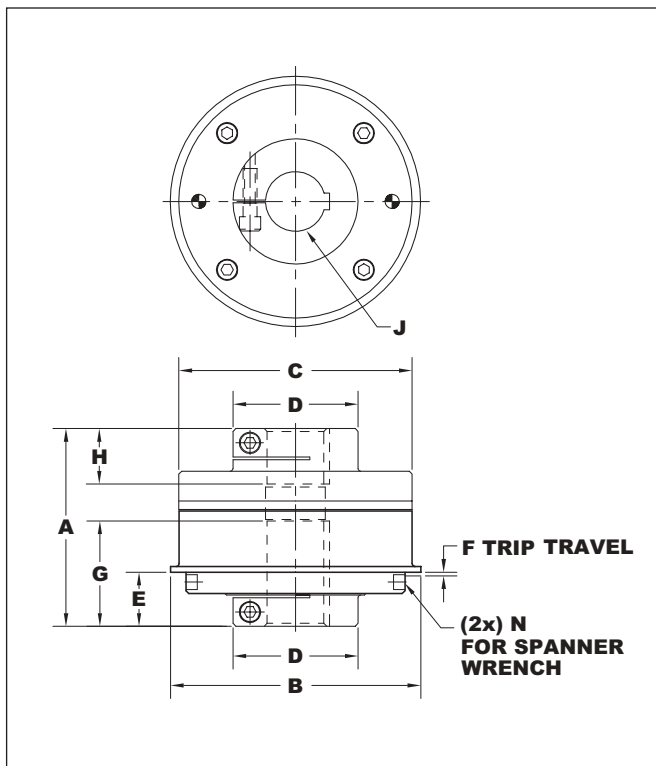
††† Dimension decreases .12 during overload

†††† Dimension decreases 1.5 mm during overload

Specifications – C-SD-Type Clutch			
Model	Internal Inertia (lb-in)	Torque Setting (in-lb)	Index Drive
.39C-SD	7	160 210 270 320 390	250P 301RA
2.3C-SD	44	400 600 700 850 1000 1300 1800 2000 230	387P 350RGS/RGD 400RA 401RA
6.0C-SD	122	670 825 1100 1400 1700 2000 2300 2500 3000 3800 4000 5000 6000	512P 512RA
11C-SD	476	2300 4000 6000 8500 11000	500RGD/RGS 662P 662RA
25C-SD	1169	5000 7000 10000 13000 15000 20000 25000	700RGS 900P 900RAD



RITE-TORQ® “S/S” Clutch: Shaft to Shaft Mounting



IMC “S/S” type clutches are designed to mount on IMC index drives without output flanges. The combination of key and clamped hub design provides a rigid and backlash-free connection.

All dimensions are subject to change. For actual dimensions, please request the current drawing from IMC.

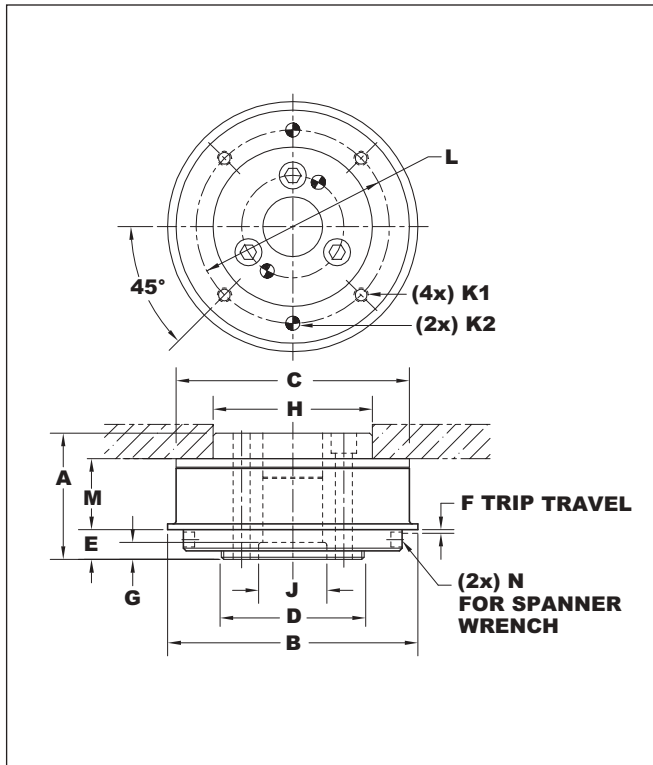
Dimensions – RITE-TORQ® S/S Clutch

Model	A	B	C	D	E	F	G	H	J	N
RT3-S/S	3.46	3.75	3.37	1.75	1.00	0.06	1.86	1.00	.4375 - .7500	0.25
RT5-S/S	4.34	5.50	5.12	2.75	1.19	0.08	2.31	1.22	.6250 - 1.2500	0.31
RT6-S/S	6.68	7.00	6.50	3.75	1.84	0.09	3.19	2.06	1.0000 - 2.0000	0.31
RT8-S/S	7.00	9.00	8.50	5.00	2.06	0.11	3.50	2.00	1.5000 - 2.5000	0.31

Specifications – RITE-TORQ® S/S Clutch

Model	Internal Inertia (lb-in)	Adjustable Torque Setting Ranges (in-lb)	Index Drive
RT3-S/S	9	100-175, 175-275, 250-350, 325-500	P325
RT5-S/S	54	500-850, 800-1700, 1600-3000	P400
RT6-S/S	170	1000-2700, 2500-5000, 4000-8500	P500
RT8-S/S	650	4000-9500, 6000-15,500	

RITE-TORQ® “F/F” Clutch: Flange to Flange Mounting



IMC “F/F” type clutches are designed to mount on IMC index drives. These clutches will flange mount to the output shaft, providing a rigid, compact, and accurate connection with the driven member.

All dimensions are subject to change. For actual dimensions, please request the current drawing from IMC.

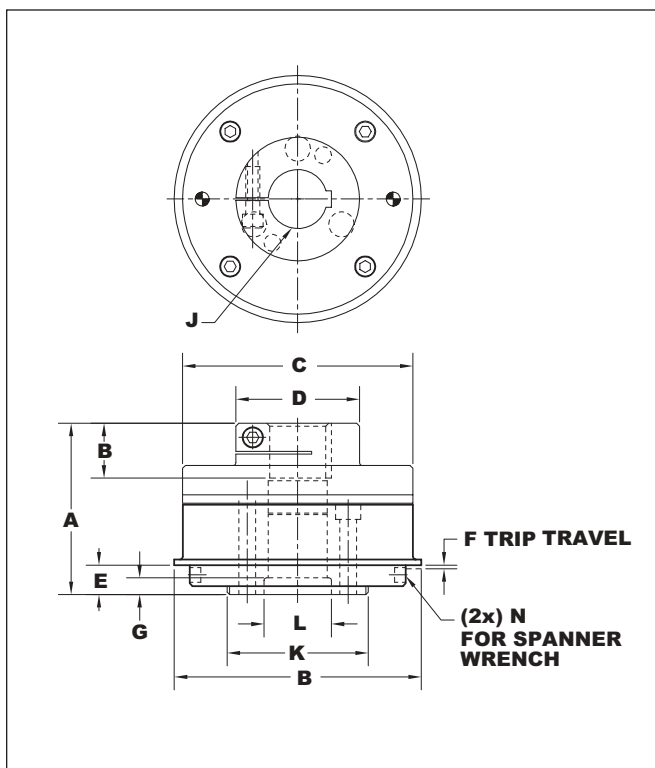
H

Dimensions – RITE-TORQ® F/F Clutch									
Model	A	B	C	D	E	F	G	H	J
RT3-F/F	2.19	3.75	3.37	2.12	0.58	0.06	0.25	2.373/2.372	.788/.787
RT5-F/F	2.78	5.50	5.13	3.12	0.66	0.08	0.38	3.498/3.497	1.501/1.50
RT6-F/F	3.75	7.00	6.50	4.12	0.69	0.09	0.38	4.623/4.622	2.501/2.500
RT8-F/F	4.09	9.00	8.50	5.62	0.88	0.11	0.38	6.248/6.247	3.001/3.000
Model	K1			K2			L	M	N
RT3-F/F	10-32 X 1/4 DP			1/4 Dowel X 1/4 DP			2.88	1.20	0.25
RT5-F/F	5/16-18 X 5/16 DP			5/16 Dowel X 5/16			4.25	1.56	0.31
RT6-F/F	3/8-16 X 5/8 DP			3/8 Dowel X 5/8 DP			5.50	2.19	0.31
RT8-F/F	1/2-13 X 3/4 DP			1/2 Dowel X 3/4 DP			7.25	2.41	0.39

Specifications – RITE-TORQ® F/F Clutch			
Model	Internal Inertia (lb-in)	Adjustable Torque Setting Ranges (in-lb)	Index Drive
RT3-F/F	7	100-175, 175-275, 250-350, 325-500	FD-100
RT5-F/F	42	500-850, 800-1700, 1600-3000	FD-162
RT6-F/F	118	1000-2700, 2500-5000, 4000-8500	FD-250 FD-300
RT8-F/F	453	4000-9500, 6000-15,500	

All dimensions are subject to change. For actual dimensions, please request the current drawing from IMC.

RITE-TORQ® “F/S” Clutch: Flange to Shaft Mounting



IMC “F/S” type clutches are designed to mount on IMC index drives. These clutches will flange mount to the output shaft, providing a rigid, compact and accurate connection.

All dimensions are subject to change. For actual dimensions, please request the current drawing from IMC.

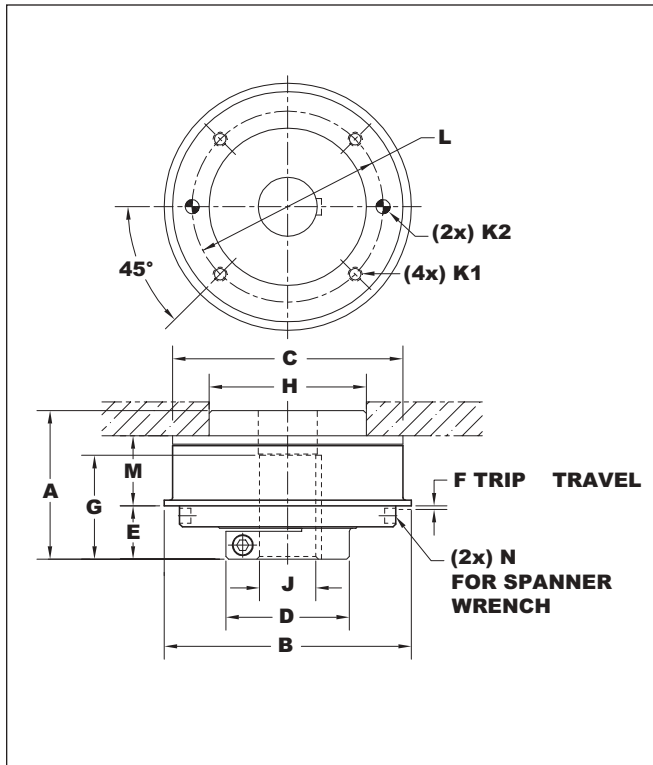
Dimensions – RITE-TORQ® F/S Clutch

Model	A	B	C	D	E	F	G	H	J	K	L	N
RT3-F/S	3.03	3.75	3.37	1.75	0.58	0.06	0.25	1.00	.4375-.7500	2.12	.788/.787	0.25
RT5-F/S	3.81	5.50	5.13	2.75	0.66	0.08	0.38	1.22	.6250-1.2500	3.12	1.501/1.500	0.31
RT6-F/S	5.56	7.00	6.50	3.75	0.69	0.09	0.38	2.06	1.0000-2.0000	4.12	2.501/2.500	0.31
RT8-F/S	5.81	9.00	8.50	5.00	0.88	0.11	38.00	2.00	1.5000-2.5000	5.62	3.001/3.000	0.39

Specifications – RITE-TORQ® F/S Clutch

Model	Internal Inertia (lb-in)	Adjustable Torque Setting Ranges (in-lb)	Index Drive
RT3-F/S	9	100-175, 175-275, 250-350, 325-500	FD-100
RT5-F/S	54	500-850, 800-1700, 1600-3000	FD-162
RT6-F/S	170	1000-2700, 2500-5000, 4000-8500	FD-250 FD-300
RT8-F/S	630	4000-9500, 6000-15,500	

RITE-TORQ® “S/F” Clutch: Shaft to Flange Mounting



IMC “S/F” type clutches are designed to mount on IMC index drives. These clutches will shaft mount to the indexer output, providing a rigid, compact and accurate connection.

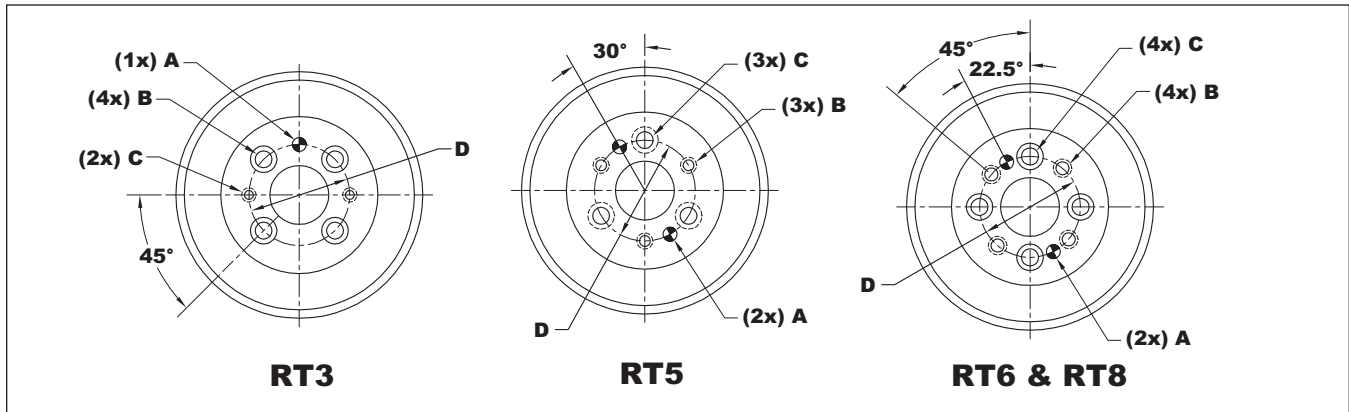
All dimensions are subject to change. For actual dimensions, please request the current drawing from IMC.

H

Dimensions – RITE-TORQ® S/F Clutch									
Model	A	B	C	D	E	F	G	H	J
RT3-S/F	2.63	3.75	3.37	1.75	1.00	0.06	1.86	2.373/2.372	.4375-.7500
RT5-S/F	3.31	5.50	5.13	2.75	1.19	0.08	2.31	3.498/3.497	.6250-1.2500
RT6-S/F	4.87	7.00	6.50	3.75	1.84	0.09	3.19	4.623/4.622	1.0000-2.0000
RT8-S/F	5.28	9.00	8.50	5.00	2.06	0.11	3.50	6.248/6.247	1.5000-2.5000
Model	K1			K2			L	M	N
RT3-S/F	10-32 X 1/4 DP			1/4 Dowel X 1/4 DP			2.88	1.20	0.25
RT5-S/F	3/16-18 X 5/16 DP			5/16 Dowel X 5/16			4.25	1.56	0.31
RT6-S/F	3/8-16 X 5/8 DP			3/8 Dowel X 5/8 DP			5.50	2.19	0.31
RT8-S/F	1/2-13 X 3/4 DP			1/2 Dowel X 3/4 DP			7.25	2.41	0.39

Specifications – RITE-TORQ® S/F Clutch			
Model	Internal Inertia (lb-in)	Adjustable Torque Setting Ranges (in-lb)	Index Drive
RT3-S/F	8	100-175, 175-275, 250-350, 325-500	P325
RT5-S/F	43	500-850, 800-1700, 1600-3000	P400
RT6-S/F	125	1000-2700, 2500-5000, 4000-8500	P500
RT8-S/F	460	4000-9500, 6000-15,500	

Input Flange Mounting Specifications



Model	A	B	C	D
RT3	.2362/.2358 dia. x 50 dp	Drilled & Counter Bored for 1/4 Socket Head Cap Screw	1/4-20 x .50 dp	1.378
RT5	.3750/.3745 dia. x .75 dp	3/8-16 x .75 dp	Drilled & Counter Bored for 3/8 Socket Head Cap Screw	2.250
RT6	.3750/.3745 dia. x .75 dp	3/8-16 x .75 dp	Drilled & Counter Bored for 3/8 Socket Head Cap Screw	3.250
RT8	.5000/.4995 dia. x 1.00 dp	1/2-13 x 1.00 dp	Drilled & Counter Bored for 1/2 Socket Head Cap Screw	4.250

H

Input Overload Clutches (IOC)

IMC's Input Overload Clutches (IOC) are used when an output overload clutch cannot be mounted to your index drive. The trip torque setting of the Input Overload Clutches is set under fully loaded, field conditions. When an overload condition is removed, the clutch automatically takes hold and carries peak load as usual. Resetting is required only when the load changes. Since the clutch mounts to the gear reducer, the IOC is selected based on the size of the gear reducer used in the application. Your IMC sales representative will help determine the proper clutch and clutch bore size.

IOC Model	Reducer
180-IOC	R180
225-IOC	R225
260-IOC	R260
300-IOC	7300C
350-IOC	7350C
400-IOC	7400C
500-IOC	7500C
600-IOC	7600C
700-IOC	7700C
800-IOC	7800C

ADJUSTING TOOL

180 IOC - 350 IOC

400 IOC - 1000 IOC

MODEL	A (BORE RANGE)	B	C	D1	D2	E	F	G	H	J	K	L	M	N	P	Q	R	S
180-IOC	.625-.748	3.50	4.35	-----	0.750	-----	2.43	1.75	3.00	3.50	3.35	0.81	1.062	4	0.219	3	0.156	45°
200-IOC	.625-.875	3.50	4.35	1.000	-----	0.25	2.43	1.75	3.00	3.50	3.35	0.81	1.437	4	0.281	3	0.219	35°
225-IOC	0.938	4.00	5.00	1.188	-----	0.25	2.94	1.88	3.25	3.75	4.06	0.81	1.562	6	0.281	4	0.219	30°
250-IOC	1.125-1.250	4.00	5.00	1.688	-----	0.25	2.94	1.88	3.25	3.75	4.06	0.81	2.125	4	0.281	3	0.219	35°
260-IOC	.938-1.188	4.00	5.00	-----	1.188	-----	2.94	1.88	3.25	3.75	4.06	0.81	2.000	4	0.343	3	0.281	45°
300-IOC	1.250-1.938	6.00	6.81	2.188	-----	0.25	4.19	2.94	4.50	5.00	5.65	0.81	2.687	6	0.344	3	0.281	0°
350-IOC	1.438-1.938	6.00	6.81	2.438	-----	0.25	4.19	2.94	4.50	5.00	5.65	0.81	3.000	6	0.344	3	0.281	0°
400-IOC	1.938	8.00	7.88	2.438	-----	0.25	5.53	3.63	5.25	5.75	6.75	0.81	3.250	6	0.531	2	0.169	0°
500-IOC	1.938-2.938	10.00	9.38	3.188	-----	0.25	6.44	5.12	7.00	7.50	8.03	0.81	4.000	6	0.531	3	0.469	0°
600-IOC	2.938-3.5	10.00	9.38	3.938	-----	0.25	6.44	5.12	7.00	7.50	8.03	0.81	4.688	6	0.531	3	0.469	0°
700-IOC	3.500	12.12	12.25	3.938	-----	0.25	8.5	6.25	8.75	9.25	10.50	0.81	5.500	6	0.656	3	0.594	0°
800-IOC	3.500	16.37	13.75	4.438	-----	0.25	9.95	7.50	9.75	10.25	11.95	0.81	5.750	6	0.781	4	0.719	0°

