

Shock Absorber and Rate Controls Quick Selection Guide

Typical Selections

Technical Data

Use this **ITT Enidine Product Quick Selection Guide** to quickly locate potential shock absorber models most suited for your requirements. Models are organized in order of smallest to largest energy capacity per cycle within their respective product families.

ITT Enidine Adjustable Shock Absorbers

Catalog No. Model	(S) Stroke mm	E _T Max. Nm/c	E _T C Max. Nm/hr	Damping Type	Page No.
OEM 0.1M (B)	7,0	7,0	13 600	D	21
ECO OEM .15M (B)	10,0	7,0	20 900	D	21
ECO OEM .25M (B)	10,0	7,0	22 000	D	21
ECO (LR)OEM .25M (B)	10,0	7,0	22 000	D	21
ECO OEM .35M (B)	12,0	19,0	37 400	D	21
ECO (LR)OEM .35M (B)	12,0	19,0	37 400	D	21
ECO OEM .5M (B)	12,0	31,0	35 200	D	21
ECO (LR)OEM .5M (B)	12,0	31,0	35 200	D	21
ECO OEM 1.0M (B)	25,0	81,0	77 000	C	21
ECO (LR)OEM 1.0M (B)	25,0	81,0	77 000	C	21
ECO OEM 1.15M x 1	25,0	215,0	83 300	C	24
ECO (LR)OEM 1.15M x 1	25,0	215,0	83 300	C	24
ECO OEM 1.15M x 2	50,0	424,0	108 800	C	24
ECO (LR)OEM 1.15M x 2	50,0	424,0	108 800	C	24
ECO OEM 1.25M x 1	25,0	215,0	100 100	C	24
ECO (LR)OEM 1.25M x 1	25,0	215,0	100 100	C	24
ECO OEM 1.25M x 2	50,0	424,0	122 500	C	24
ECO (LR)OEM 1.25M x 2	50,0	424,0	122 500	C	24
(LR)OEMXT 3/4 x 1	25,0	425,0	126 000	C	27
OEMXT 3/4 x 1	25,0	425,0	126 000	C	27
(LR)OEMXT 1.5M x 1	25,0	425,0	126 000	C	27
OEMXT 1.5M x 1	25,0	425,0	126 000	C	27
(LR)OEMXT 3/4 x 2	50,0	850,0	167 000	C	27
OEMXT 3/4 x 2	50,0	850,0	167 000	C	27
(LR)OEMXT 1.5M x 2	50,0	850,0	167 000	C	27
OEMXT 1.5M x 2	50,0	850,0	167 000	C	27
OEMXT 3/4 x 3	75,0	1 300,0	201 000	C	27
OEMXT 1.5M x 3	75,0	1 300,0	201 000	C	27
(LR)OEMXT 1 1/8 x 2	50,0	2 300,0	271 000	C	29
OEMXT 1 1/8 x 2	50,0	2 300,0	271 000	C	29
(LR)OEMXT 2.0M x 2	50,0	2 300,0	271 000	C	29
OEMXT 2.0M x 2	50,0	2 300,0	271 000	C	29
OEM 3.0M x 2	50,0	2 300,0	372 000	C	31
OEMXT 1 1/8 x 4	100,0	4 500,0	362 000	C	29
OEMXT 2.0M x 4	100,0	4 500,0	362 000	C	29
OEM 4.0M x 2	50,0	3 800,0	1 503 000	C	31
OEM 3.0M x 3.5	90,0	4 000,0	652 000	C	31
OEMXT 1 1/8 x 6	150,0	6 780,0	421 000	C	29
OEMXT 2.0M x 6	150,0	6 780,0	421 000	C	29
OEM 3.0M x 5	125,0	5 700,0	933 000	C	31
OEM 3.0M x 6.5	165,0	7 300,0	1 215 000	C	31
OEM 4.0M x 4	100,0	7 700,0	1 808 000	C	31
OEM 4.0M x 6	150,0	11 500,0	2 012 000	C	31
OEM 4.0M x 8	200,0	15 400,0	2 407 000	C	31
OEM 4.0M x 10	250,0	19 200,0	2 712 000	C	31

Key for Damping Type:
D – Dashpot
C – Conventional
SC – Self-compensating

ITT Enidine Non-Adjustable Shock Absorbers

Catalog No. (Model)	(S) Stroke mm	E _T Max. Nm/c	E _T C Max. Nm/hour	Damping Type	Page No.
TK 6	4,0	1,0	3 600	D	39
TK 8	4,0	6,0	4 800	D	39
TK 21	6,4	2,2	4 100	D	40
ECO 8	6,4	4,0	6 215	SC	47
TK 10M	6,4	6,0	13 000	D	40
ECO 10	7,0	7,0	13 640	SC	47
ECO 15	10,4	12,0	31 020	SC	47
STH .25M	6,0	11,0	4 420	D	41
ECO S 25	12,7	24,0	37 400	SC	47
ECO 25	12,7	30,0	44 000	SC	47
ECOS 50	12,7	32,0	49 720	SC	47
ECO 50	22,0	62,0	59 070	SC	47
STH .5M	12,5	65,0	44 200	D	41
ECO 100	25,0	105,0	77 000	SC	47
PRO 110	25,0	210,0	84 000	SC	50
ECO 120	25,0	185,0	84 000	SC	50
ECO 125	25,0	185,0	104 000	SC	50
PMXT 1525	25,0	367,0	126 000	SC	59
STH .75M	19,0	245,0	88 400	D	41
ECO 220	50,0	350,0	103 000	SC	50
ECO 225	50,0	350,0	127 000	SC	50
PMXT 1550	50,0	735,0	167 000	SC	59
STH 1.0M	25,0	500,0	147 000	D	41
PMXT 1575	75,0	1 130,0	201 000	SC	59
STH 1.0M x 2	50,0	1 000,0	235 000	D	41
PMXT 2050	50,0	1 865,0	271 000	SC	59
STH 1.5M x 1	25,0	1 150,0	250 000	D	41
PMXT 2100	100,0	3 729,0	362 000	SC	59
STH 1.5M x 2	50,0	2 300,0	360 000	D	41
PMXT 2150	150,0	5 650,0	421 000	SC	59

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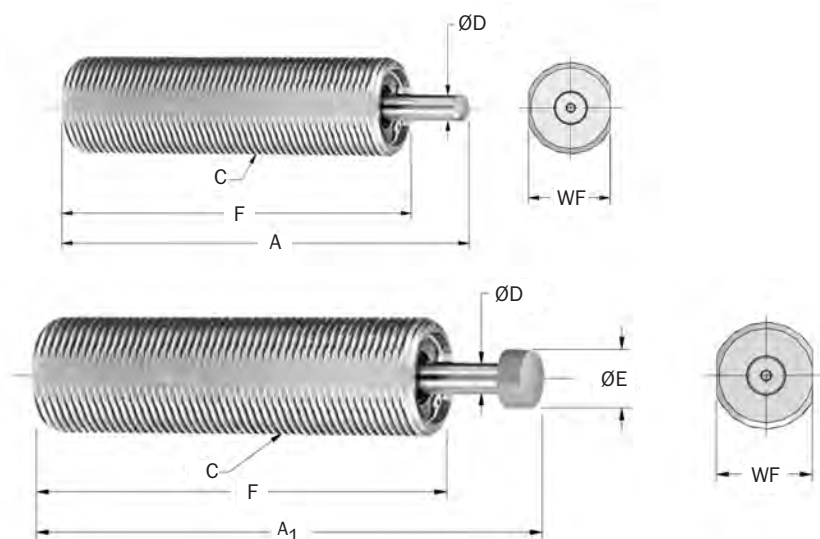
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STH .25M → STH 1.5M x 2 Series

Custom Orificed Products



Catalog No./Model	S Stroke mm	E _T Max. Nm/c	E _T C Max. Nm/hr	F _p Max. Reaction Force N	Nominal Coil Spring Force		Mass g
					Extended N	Compressed N	
Δ STH .25M	6,0	11	4 420	2 730	11	18	79
Δ STH .5M	12,5	65	44 200	8 000	18	31	218
Δ STH .75M	19,0	245	88 400	19 600	35	90	500
Δ STH 1.0M	25,0	500	147 000	29 800	98	235	726
Δ STH 1.0M x 2	50,0	1 000	235 000	29 800	66	133	862
Δ STH 1.5M x 1	25,0	1 150	250 000	65 000	90	227	1 400
Δ STH 1.5M x 2	50,0	2 300	360 000	65 000	56	227	1 800

Notes: 1. Custom orificed application data needed.

2. All shock absorbers will function at 5% of their rated energy per cycle. If less than 5%, a smaller model should be specified.

3. ITT Enidine recommends a positive stop to prevent bottoming of the shock absorber.

4. Δ = Non-standard lead time items, contact ITT Enidine.

Catalog No./Model	A mm	A ₁ mm	C	D mm	E mm	F mm	WF
Δ STH .25M	—	71,0	M14 x 1,0	4,8	12,7	51,0	13,0
Δ STH .5M	—	89,0	M22 x 1,5	5,6	9,5	68,5	20,0
Δ STH .75M	—	130,0	M30 x 2,0	8,0	14,3	103,0	27,0
Δ STH 1.0M	—	170,0	M36 x 1,5	9,5	17,5	136,5	32,0
Δ STH 1.0M x 2	—	238,2	M36 x 1,5	9,5	17,5	178,3	32,0
Δ STH 1.5M x 1	180,0	—	M45 x 1,5	16,0	—	154,0	42,0
Δ STH 1.5M x 2	270,0	—	M45 x 1,5	16,0	—	219,0	42,0

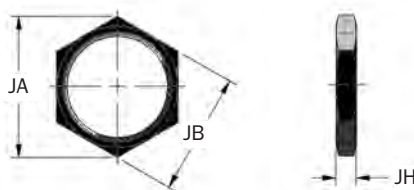
Non-Adjustable Series Hydraulic Shock Absorbers

TK Micro-Bore Series, STH Series

TK 10M → STH 1.5M x 2 Series

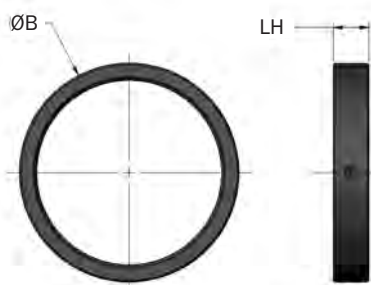
Accessories

Jam Nut (JN)



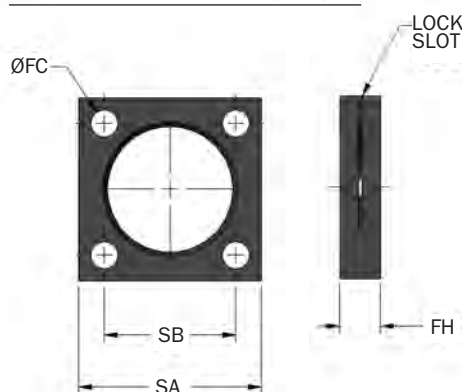
Catalog No./Model	Part Number	Model Ref	JA mm	JB mm	JH mm	Mass g
JN M10 x 1	J24421167	TK10M/TK21M	15,0	13,0	3,2	2,8
JN M14 x 1	J24950035	STH .25M	19,7	17,0	4,0	3
JN M22 x 1.5	J26402167	STH .5M	31,5	27,0	5,5	12
JN M30 x 2	J30583167	STH .75M	41,6	36,0	7,0	26
JN M36 x 1.5	J23164035	STH 1.0M	41,6	36,0	7,0	26

Lock Ring (LR)



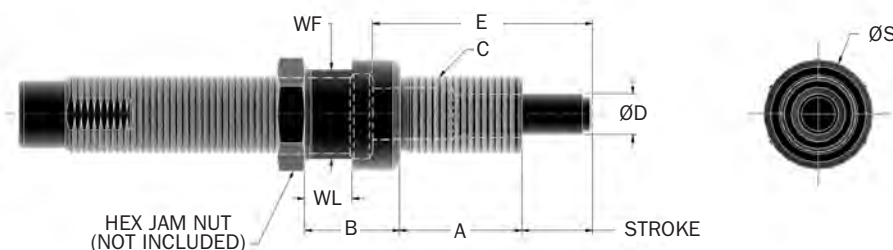
Catalog No./Model	Part Number	Model Ref	B mm	LH mm	Mass g
LR M45 x 1.5	F88637049	STH 1.5 Series	57,2	9,5	75

Square Flange (SF)



Catalog No./Model	Part Number	Model Ref	FC mm	FH mm	SA mm	SB mm	Bolt Size mm	Mass g
SF M45 X 1.5	M48637129	STH 1.5 Series	8,6	12,7	57,2	41,3	M8	142

Side Load Adapter (SLA)



Catalog No./Model	Part Number	Model Ref	Stroke mm	A mm	B mm	C	D mm	E mm	S mm	WF mm	WL mm
△ SLA 10MF	SLA 33457	TK 10M/TK 21M	6,9	12	11	M10 x 1	5,0	21,6	13,0	11,0	4,0

Notes: 1. Maximum sideload angle is 30°.

2. △ = Non-standard lead time items, contact ITT Enidine.

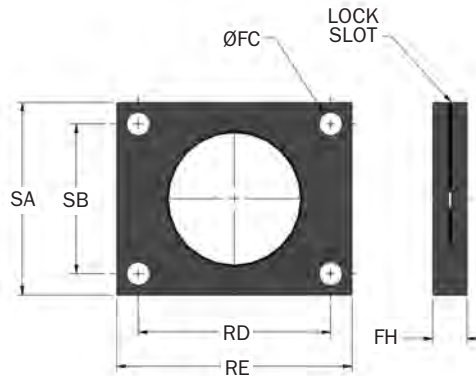
Non-Adjustable Series Hydraulic Shock Absorbers

TK Micro-Bore Series, STH Series

Accessories

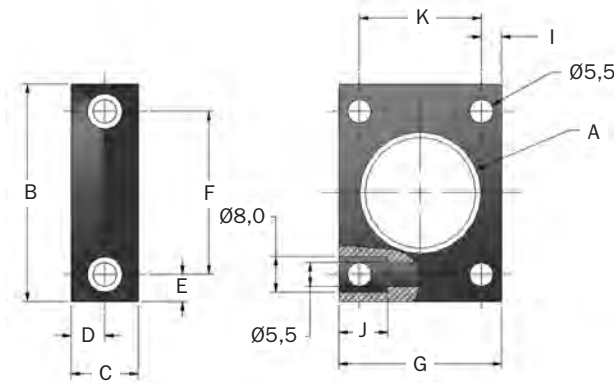
TK 10M → STH 1.5M x 2 Series

Rectangular Flange (RF)



Catalog No./Model	Part Number	Model Ref	A mm	FC mm	FH mm	RD mm	RE mm	SA mm	SB mm	Bolt Size mm	Mass g
RF M45 x 1.5	M58637053	STH 1.5 Series	M45 x 1,5	8,6	12,7	60,5	76,2	57,2	41,3	M8	255

Universal Retaining Flange (UF)



Catalog No./Model	Part Number	Model Ref	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	J mm
UF M10 x 1	U16363189	TK 10M(B)/TK21M	M10 x 1	38,0	12,0	6,0	6,25	25,5	25	12,5	5

Note: All dimensions in millimeters.