

Adjustable Series Hydraulic Shock Absorbers

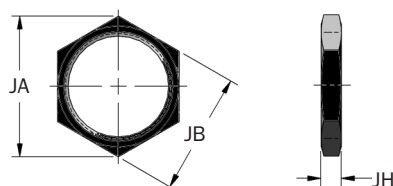
ECO OEM Small Bore Series

ECO OEM 0.1M → ECO (LR)OEM 1.0M Series

Accessories

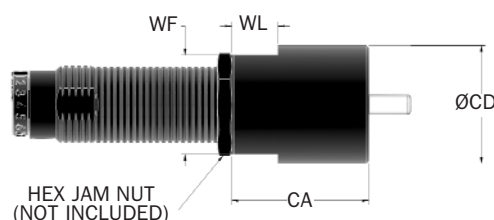
Jam Nut (JN)

*Note: One Hex Jam Nut included with every shock absorber.



Catalog No./Model	Part Number	Model Ref	JA mm	JB mm	JH mm	Mass g
JN M10 x 1	J223840167	ECO OEM 0.1M (B)	15,0	13,0	3,2	2
JN M12 x 1	J223841035	ECO OEM .15M (B)	17,0	15,0	4,0	2
JN M14 x 1.5	J223842165	ECO (LR)OEM .25M (B)	19,7	17,0	4,0	3
JN M16 x 1.5	J224055035	ECO (LR)OEM .35M (B)	20,0	19,0	6,0	5
JN M20 x 1.5	J223844035	ECO (LR)OEM .5M (B)	27,7	24,0	4,6	9
JN M27 x 3	J124059034	ECO (LR)OEM 1.0M (B)	37,0	32,0	4,6	15
JN M25 x 1.5	J223846035	ECO (LR)OEM 1.0MF (B)	37,0	32,0	4,6	15

Stop Collar (SC)



Catalog No./Model	Part Number	Model Ref	CA mm	CD mm	WF mm	WL mm	Mass g
Δ SC M10 x 1	M923840171	ECO OEM 0.1M (B)	19,0	14,0	—	—	11
Δ SC M12 x 1	M923841058	ECO OEM 0.15M (B)	19,0	16,0	14,0	9,0	14
Δ SC M14 x 1.5	M923842171	ECO (LR)OEM .25M (B)	25,4	19,0	19,0	12,0	28
Δ SC M16 x 1.5	M924055199	ECO (LR)OEM .35M (B)	25,4	19,0	—	—	28
Δ SC M20 x 1.5	M924057058	ECO (LR)OEM .5M (B)	38,0	25,4	22,0	12,0	63
Δ SC M27 x 3	M923846170	ECO (LR)OEM 1.0M (B)	50,8	38,0	32,0	15,0	215
Δ SC M25 x 1.5	M923846171	ECO (LR)OEM 1.0MF (B)	50,8	38,0	32,0	15,0	215

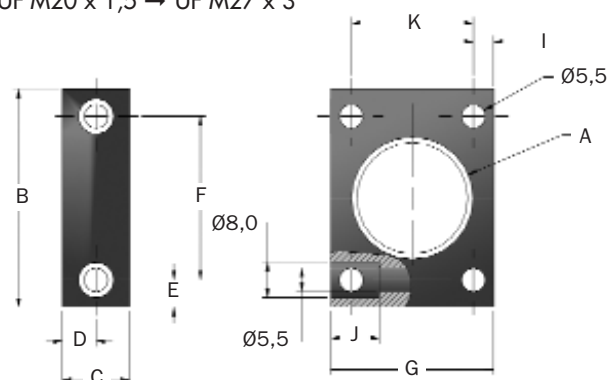
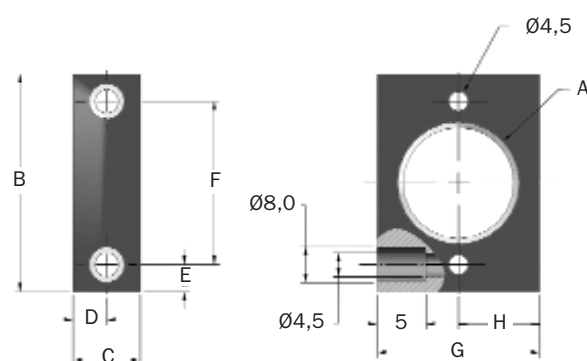
Notes: 1. *Do not use with urethane striker cap.

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

Universal Retaining Flange (Small Bore) (UF)

UF M10 x 1 → UF M16 x 1,5

UF M20 x 1,5 → UF M27 x 3



Catalog No./Model	Part Number	Model Ref	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	K mm
Δ UF M14 x 1.5	U13935143	ECO (LR)OEM .25M (B)	M14 x 1,5	45,0	16,0	8,0	5,0	35,0	30,0	15,0	—	5	—
Δ UF M16 x 1.5	U19018143	ECO (LR)OEM .35M (B)	M16 x 1,5	45,0	16,0	8,0	5,0	35,0	30,0	15,0	—	—	—
Δ UF M20 x 1.5	U12646143	ECO (LR)OEM .5M (B)	M20 x 1,5	48,0	16,0	8,0	6,5	35,0	35,0	—	4,75	11,4	25,5
Δ UF M25 x 1.5	U13004143	ECO (LR)OEM 1.0MF (B)	M25 x 1,5	48,0	16,0	8,0	6,5	35,0	35,0	—	4,75	11,4	25,5
Δ UF M27 x 3	U12587143	ECO (LR)OEM 1.0M (B)	M27 x 3	48,0	16,0	8,0	6,5	35,0	35,0	—	4,75	11,4	25,5

Notes: 1. Δ = Non-standard lead time items, contact ITT Enidine.

2. All dimensions in millimeters

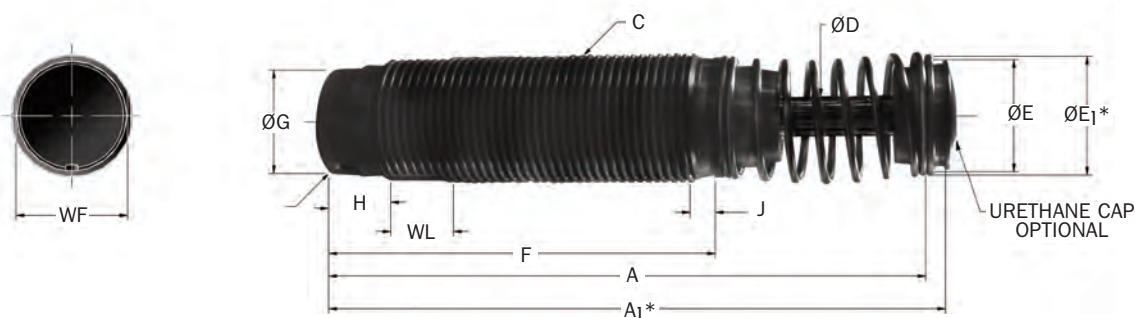
Adjustable Series Hydraulic Shock Absorbers

ECO OEM Small Bore Series

ECO OEM 1.15M → ECO (LR)OEM 1.25M Series

Technical Data

Standard



*Note: A₁ and E₁ apply to urethane striker cap accessory.

Catalog No./Model	(S) Stroke mm	Optimal Velocity Range m/s	E _T Max. Nm/c	E _T C Max. Nm/hr	F _p Max. Reaction Force N	Nominal Coil Spring Force		F _D Max. Propelling Force N	Mass g
						Extended N	Compressed N		
Δ ECO OEM 1.15M x 1	25,0	0,3-3,30	195,0	75 700	11 120	56,0	89,0	2 220	482
Δ ECO (LR)OEM 1.15M x 1	25,0	0,08-2,0	195,0	75 700	11 120	56,0	89,0	3 335	482
Δ ECO OEM 1.15M x 2	50,0	0,3-3,30	385,0	98 962	11 120	31,0	89,0	2 220	708
Δ ECO (LR)OEM 1.15M x 2	50,0	0,08-2,0	385,0	98 962	11 120	31,0	89,0	3 335	708
ECO OEM 1.25M x 1	25,0	0,3-3,30	195,0	100 000	11 120	56,0	89,0	2 220	567
ECO (LR)OEM 1.25M x 1	25,0	0,08-2,0	195,0	100 000	11 120	56,0	89,0	3 335	567
ECO OEM 1.25M x 2	50,0	0,3-3,30	385,0	111 400	11 120	31,0	89,0	2 220	737
ECO (LR)OEM 1.25M x 2	50,0	0,08-2,0	385,0	111 400	11 120	31,0	89,0	3 335	737

Catalog No./Model	A mm	A ₁ mm	C mm	D mm	E mm	E ₁ mm	F mm	G mm	H mm	J mm	WF mm	WL mm
Δ ECO (LR)OEM 1.15M x 1	150,0	155,5	M33 x 1,5	9,5	29,0	30,5	97,0	28,0	14,0	5,3	30,0	16,0
Δ ECO (LR)OEM 1.15M x 2	217,0	222,0	M33 x 1,5	9,5	29,0	30,5	138,0	28,0	14,0	5,3	30,0	16,0
ECO (LR)OEM 1.25M x 1	150,0	155,5	M36 x 1,5	9,5	29,0	30,5	97,0	28,0	14,0	5,3	33,0	16,0
ECO (LR)OEM 1.25M x 2	217,0	222,0	M36 x 1,5	9,5	29,0	30,5	138,0	28,0	14,0	5,3	33,0	16,0

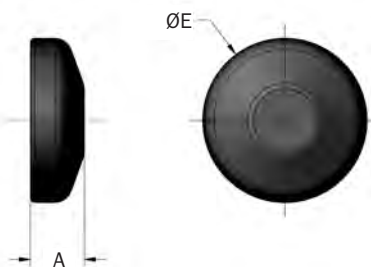
Notes: 1. All shock absorbers will function satisfactorily at 5% of their maximum rated energy per cycle. If less than 5%, a smaller model should be specified.

2. For mounting accessories, see pages 25-26.

3. Urethane striker caps are available as accessories for models ECO OEM 1.15M x 1 to ECO OEM 1.25M x 2.

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

Urethane Striker Cap (USC)



Catalog No./Model	Part Number	Model Ref	A mm	E mm	Mass g
UC 8609	C98609079	ECO (LR)OEM 1.15/1.25M	10,0	30,5	6

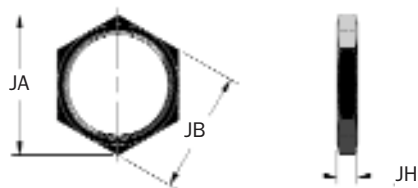
Adjustable Series Hydraulic Shock Absorbers

ECO OEM Small Bore Series

ECO OEM 1.15M → ECO OEM 1.25M Series

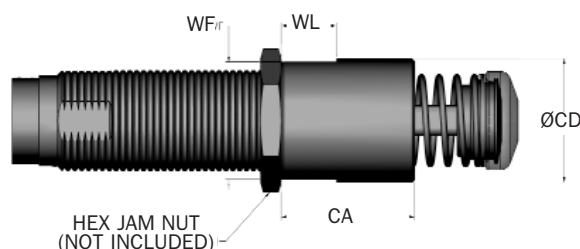
Accessories

Jam Nut (JN)



Catalog No./Model	Part Number	Model Ref	JA mm	JB mm	JH mm	Mass g
JN M33 x 1.5	J224061035	ECO (LR)OEM 1.15M	47,3	41,0	6,4	27
JN M36 x 1.5	J224063035	ECO (LR)OEM 1.25M	47,3	41,0	6,4	27

Stop Collar (SC)

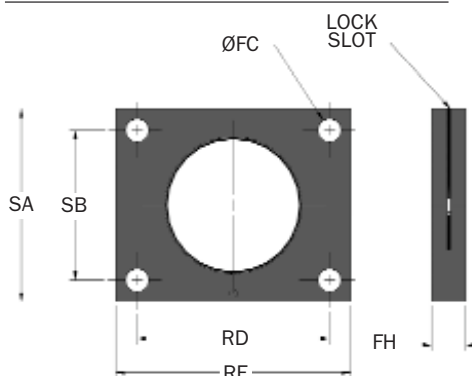


Catalog No./Model	Part Number	Model Ref	CA mm	CD mm	WF mm	WL mm	Mass g
ΔSC M33 x 1.5	M923865058	ECO OEM 1.15M	41,0	36,0	30,0	17,0	215
ΔSC M36 x 1.5	M924063058	ECO OEM 1.25M	63,5	43,0	41,0	18,0	210
ΔSC M25 x 2 x 1.56	M930288171	HP 110 MC	50,8	38,0	32,0	15,0	215
ΔSC M25 x 1.5 x 1.56	M931291171	HP 110 MF	50,8	38,0	32,0	15,0	215

Notes: 1. *Do not use with urethane striker cap.

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

Rectangular Flange (RF)



Catalog No./Model	Part Number	Model Ref	FC mm	FH mm	RD mm	RE mm	SA mm	SB mm	Size	Mass g
RF M33 x 1.5	N121049141	ECO (LR)OEM 1.15M	5,5	9,5	41,3	50,8	44,5	28,6	M5	30
RF M36 x 1.5	N121293141	ECO (LR)OEM 1.25M	5,5	9,5	41,3	58,8	44,5	28,6	M5	30

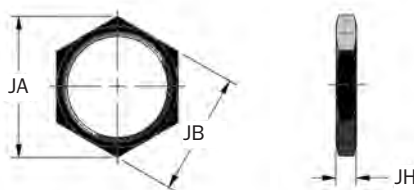
Non-Adjustable Series Hydraulic Shock Absorbers

TK Micro-Bore Series, STH Series

TK 10M → STH 1.5M x 2 Series

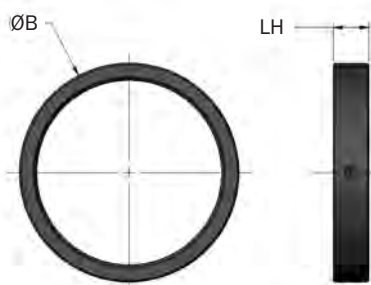
Accessories

Jam Nut (JN)



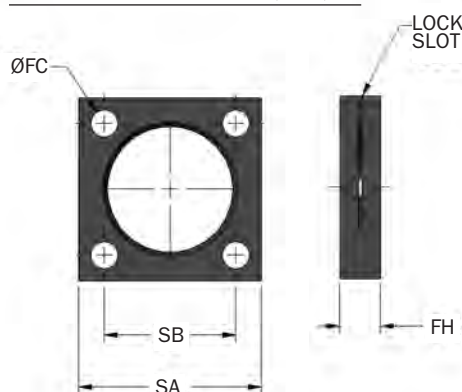
Catalog No./Model	Part Number	Model Ref	JA mm	JB mm	JH mm	Mass g
JN M10 x 1	J24421167	TK10M/TK21M	15,0	13,0	3,2	2,8
JN M14 x 1	J24950035	STH .25M	19,7	17,0	4,0	3
JN M22 x 1.5	J26402167	STH .5M	31,5	27,0	5,5	12
JN M30 x 2	J30583167	STH .75M	41,6	36,0	7,0	26
JN M36 x 1.5	J23164035	STH 1.0M	41,6	36,0	7,0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

Lock Ring (LR)



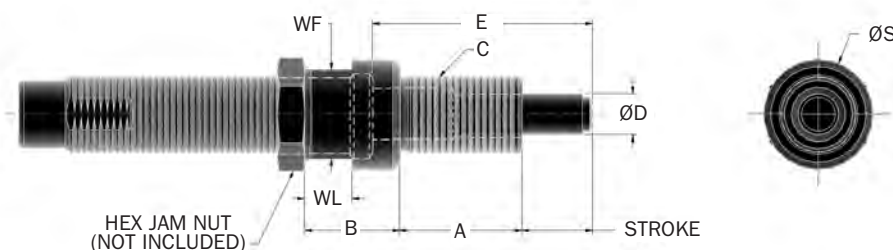
Catalog No./Model	Part Number	Model Ref	B mm	LH mm	Mass g
LR M45 x 1.5	F88637049	STH 1.5 Series	57,2	9,5	75

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°.

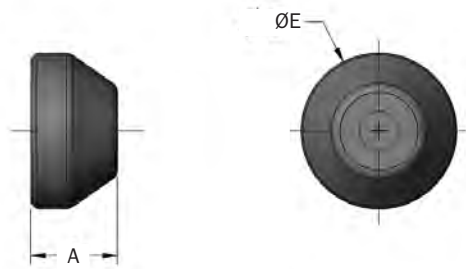
2. △ = Non-standard lead time items, contact ITT Enidine.

Non-Adjustable Series Hydraulic Shock Absorbers
ECO Series

ECO 120 → ECO 225 Series

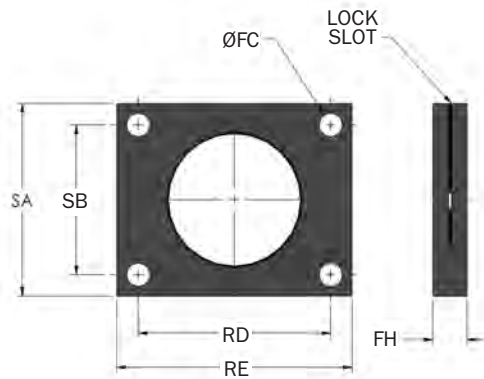
Overview

Urethane Striker Cap (USC)



Catalog No./ Model	Part Number	Model (Ref)	A mm	E1 mm	Mass g
UC 8609	C98609079	ECO 120, 125, 220 & 225	10,0	30,5	3

Rectangular Flange (RF)



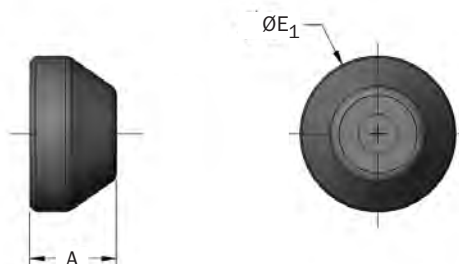
Catalog No./ Model	Part Number	Model (Ref)	FC mm	FH mm	RD mm	RE mm	SA mm	SB mm	Bolt Size mm	Mass g
RF M33 x 1,5	N121049141	ECO 120/ 220M	5,5	9,5	41,3	50,8	44,5	28,6	M5	30
RF M36 x 1,5	N121293129	ECO 125/225M	5,5	9,5	41,3	58,8	44,5	28,6	M5	30

PMXT 1525M → PMXT 2150M Series

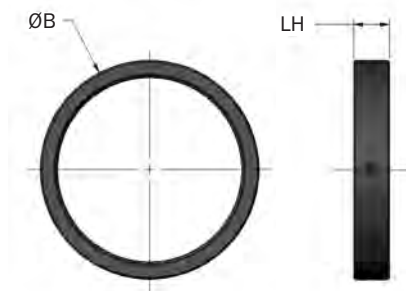
Stop Collar (SC)

Catalog No./ Model	Part Number	Model Ref	CA mm	CD mm	Mass g
SC M45 x 1.5	8K8637	PMXT 1500M Series	49,0	56,5	340
Δ SC M64 x 2 x 2	M93010057	PMXT 2050M Series	89,0	76,0	936
Δ SC M64 x 2 x 4	M93011057	PMXT 2100M Series	114,0	76,0	1 191
Δ SC M64 x 2 x 6	M93012057	PMXT 2150M Series	143,0	76,0	1 475

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

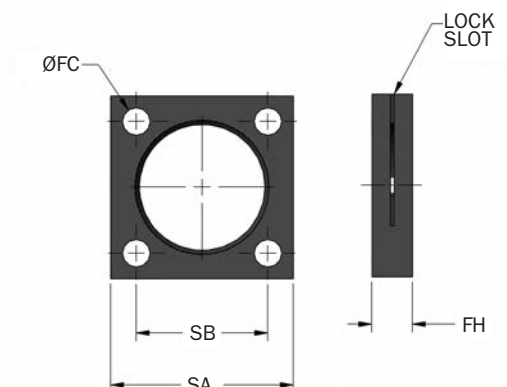
Urethane Striker Cap (USC)

Catalog No./ Model	Part Number	Model Ref	A mm	E ₁ mm	Mass g
UC 2940	C92940079	PMXT 1500M	24,5	44,5	14
UC 3010	C93010079	PMXT 2000M	24,0	57,0	23

Lock Ring (LR)

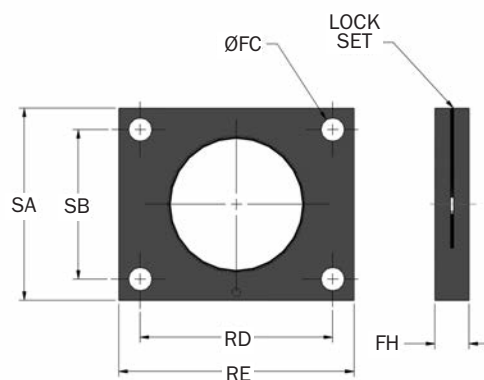
Catalog No./ Model	Part Number	Model Ref	B mm	LH mm	Mass g
LR M45 x 1.5	F88637049	PMXT 1500M Series	57,2	9,5	75
LR M64 x 2	F83010049	PMXT 2000M Series	72,9	12,7	85

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	PMXT 1500M Series	8,6	12,7	57,2	41,1	M8	140
SF M64 x 2	M43010141	PMXT 2000M Series	10,4	15,7	89	69,9	M10	570

Rectangular Flange (RF)



Catalog No./Model	Part Number	Model Ref	FC mm	FH mm	RD mm	RE mm	SA mm	SB mm	Bolt Size mm	Mass g
RF M45 x 1.5	M58637129	PMXT 1500M Series	8,6	12,7	60,5	76,2	57,2	41,4	M8	260