



P1L Series

High Performance Repairable
Pneumatic Cylinder



D

SR/SRM, SRD/SRDM

SRX

P1L

P

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D57

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Optional Piston Magnet

Located under wear band, piston magnet is used for through-the-barrel sensors for electronic piston position indication. Does not add length to the piston.

Aluminum Piston with Ultra-Wide Nylon Wear Band

Piston is permanently sealed and locked to rod with anaerobic adhesive. Ultra wide wear band prevents metal-to-metal contact and distributes piston loads across wide bearing area.

Z-Profile Piston Seal

Dynamic nitrile piston seal features two rounded micro sealing edges for maximum wear compensation and rounded grooves for retaining lubrication. Dual lipseal for 40mm to 100mm bore sizes.

Adjustable Cushion Option

Available for high speed applications, it features fine-thread, brass needle valves with a captive design.

High Strength Rod Bearing

PTFE-coated bronze rod bearing is inboard of rod seal. Long rod bearing provides rigid support of piston while minimizing bearing stress.

Ports

Optional NPTF or BSPT ports provide full air flow to piston.

Rounded Lip Rod Wiper Seal

Non-lube, urethane rod seal provides dual function as rod seal and rod wiper to eliminate leakage and prevent contamination from entering the cylinder.

Bumpers

Impact resistant urethane bumpers are standard for all bore sizes to provide noise reduction and impact resistance

Four Standard Piston Rod Ends

Inch or metric with male or female to meet a variety of requirements.

Tapped Mounting Holes

Inch or metric holes provide flush mounting from the head or cap face. Standard mounting kits can be bolted-on for adapting to a wide range of applications.

Cylinder Body

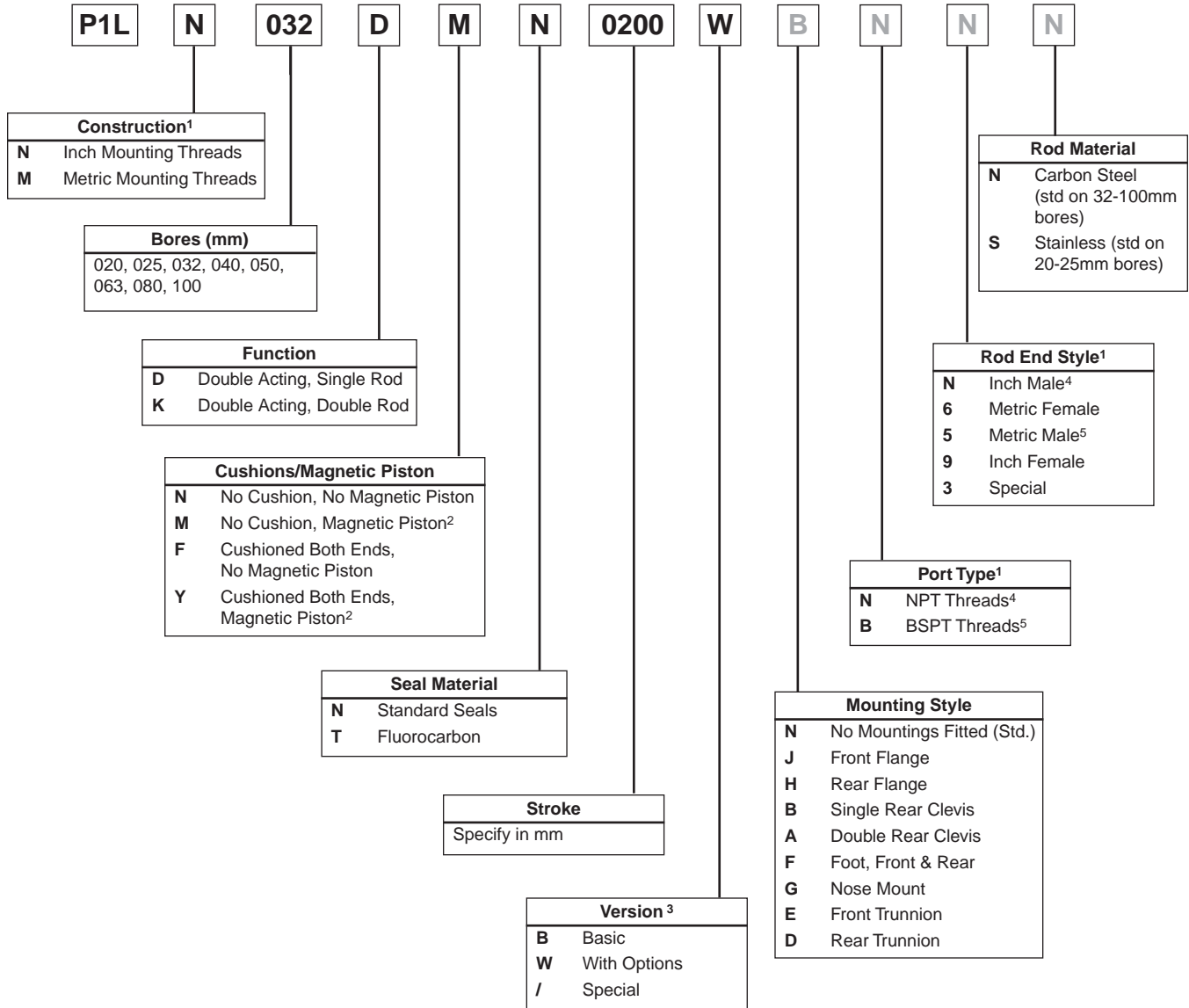
Smooth anodized aluminum tube provides wear-resistant surface. Clean tubular design eliminates area where contamination can accumulate.

Piston Rod

Ground, polished hard chrome plated steel piston rod. Stainless steel is standard on 20 and 25mm bore. Smooth rod surface finish provides minimum friction and maximum seal life.

Threaded End Cap Construction

Precision-machined, aluminum alloy end caps are black anodized and removable from either end for easy cylinder repair. Construction minimizes cylinder size and weight.



Minimum and Maximum Stroke Length for Standard P1L Cylinders

Bore	Min. Stroke (mm)	Max. Stroke (mm) ⁶
20	2	1000
25	2	1000
32	2	1000
40	4	1000
50	5	1000
63	7	1000
80	4	1000
100	4	1000

Notes:

- When selecting inch or metric construction, be advised that the piston rod end and porting thread will coincide with the mounting thread selected as the standard for the basic cylinder. For example, selecting "M" in the construction field will automatically provide a metric male piston rod end and BSPT ports as standard.
- Not available with fluorocarbon seal option.
- If cylinder contains no options, then use "B" as the last digit in the model code. The last 4 boxes are used only when "W" or "/" appears in this field.
- Standard with Inch Construction
- Standard with Metric Construction
- Please consult factory for availability of stroke lengths longer than those listed.

For sensor part numbers and specifications, see the Electronic Sensors Section.



Specifications

- Bore Sizes: 20 to 100mm (3/4" to 4")
- Rod Diameters: 8 to 32mm (5/16" to 1-1/4")
- Rod Ends: Four Standard, specials to order
- Bumpers standard on both ends
- Adjustable Cushions provided at both ends as an option
- Single End or Double End Mounting
- Mounting Styles: 9 standard
- Rated Air Pressure: 10 bar (145 psi) Non-Lube
- Strokes available in any practical stroke length
- Standard Temperature: -23°C to + 74°C (- 10°F to + 165°F)
- Optional High Temp Service: -23°C to +121°C (-10°F to +250°F)*

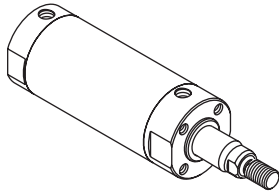
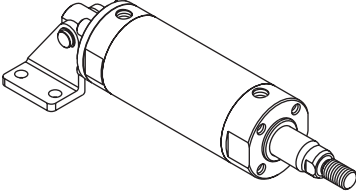
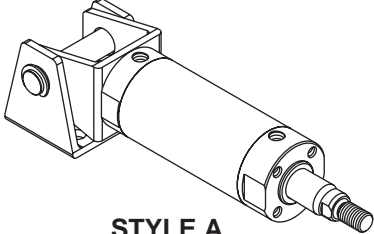
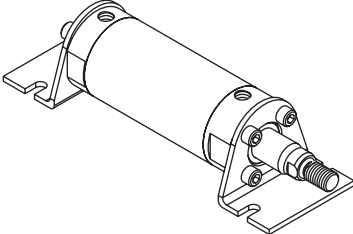
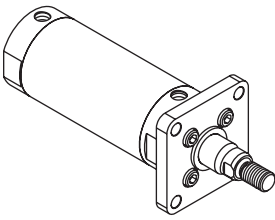
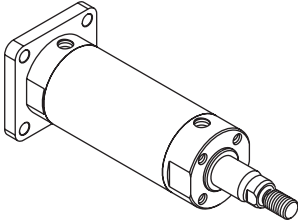
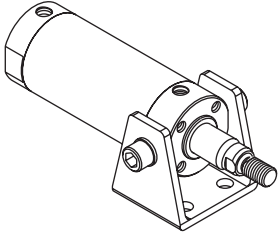
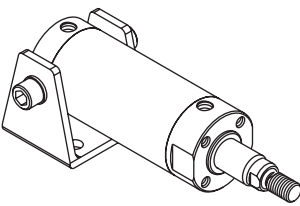
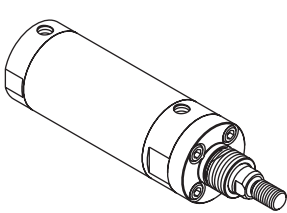
*Option intended for limited exposure to temperatures over +80°C or +176°F. This option is primarily for applications which subject the cylinder to fluids that have an adverse effect on external seals.

Cylinder Weights

Bore	Base (Lb)	Per 25mm of Stroke (Lb)
20	0.24	0.06
25	0.35	0.08
32	0.55	0.11
40	0.9	0.17
50	1.58	0.25
63	2.19	0.28
80	4	0.41
100	6.75	0.59

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Available Mountings

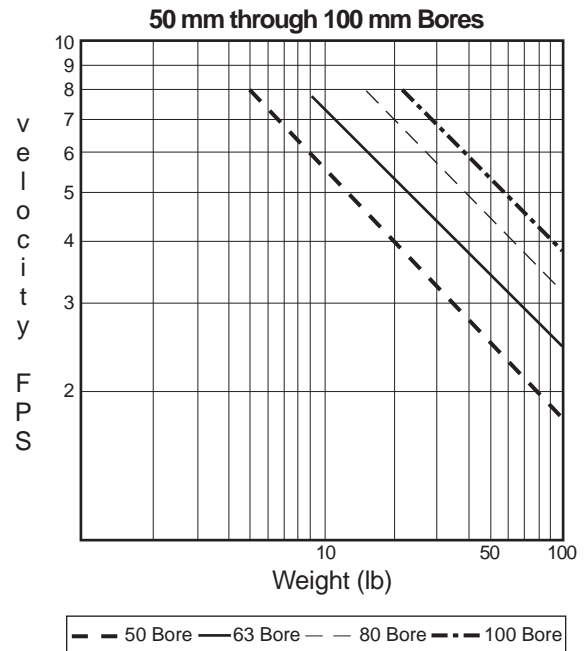
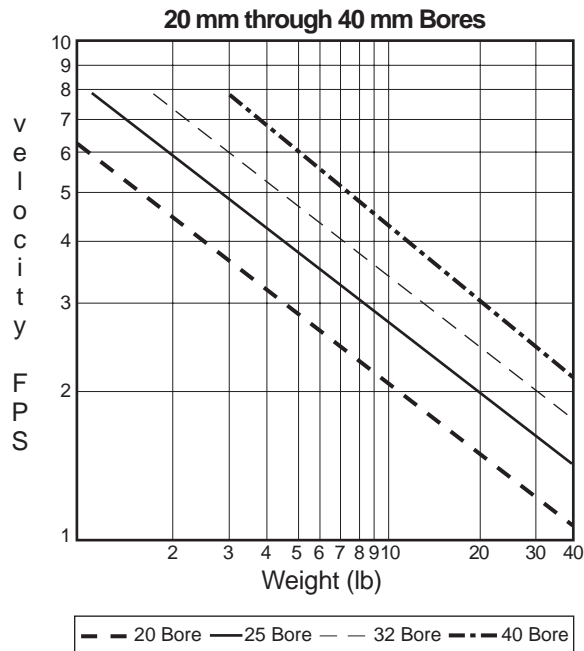
		
STYLE N Basic No Mounts	STYLE B Single Rear Clevis	STYLE A Double Rear Clevis
		
STYLE F Foot Mount	STYLE J Front Flange	STYLE H Rear Flange
		
STYLE E Front Trunnion	STYLE D Rear Trunnion	STYLE G Nose Mount

Theoretical Push and Pull Forces in lbs.

Bore mm	Rod Diameter mm	Action	Effective Area in ²	Operating Pressure (PSI)				
				40	60	80	100	125
20	0	Extend	0.5	19	29	39	49	61
	8	Retract	0.4	16	24	33	41	51
25	0	Extend	0.8	30	46	61	76	95
	10	Retract	0.6	26	38	51	64	80
32	0	Extend	1.2	50	75	100	125	156
	12	Retract	1.1	43	64	86	107	134
40	0	Extend	1.9	78	117	156	195	243
	16	Retract	1.6	65	98	131	164	204
50	0	Extend	3.0	122	183	243	304	380
	20	Retract	2.6	102	153	204	256	320
63	0	Extend	4.8	193	290	386	483	604
	20	Retract	4.3	174	261	348	434	543
80	0	Extend	7.8	312	467	623	779	974
	25	Retract	7.0	281	422	562	703	879
100	0	Extend	12.2	487	730	974	1217	1522
	32	Retract	10.93	437	656	874	1093	1366

Cushioning Capacity Charts

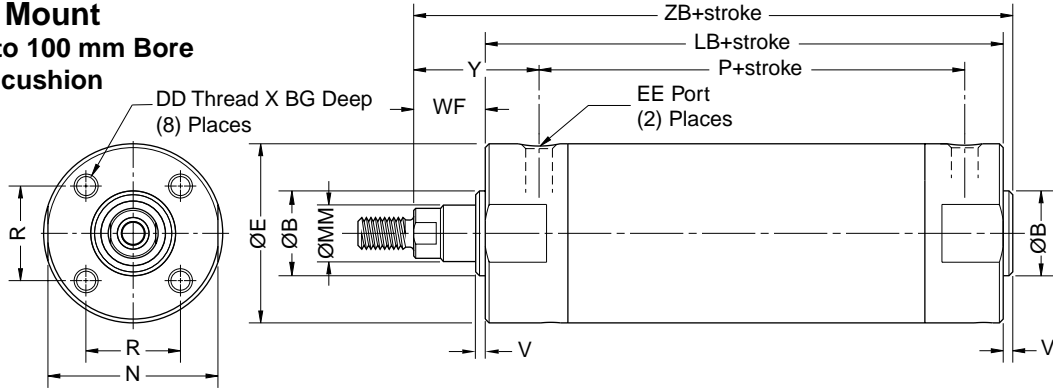
Use the graphs below to determine whether a cylinder will adequately decelerate a load without damage to the cylinder. Find the point on the graph where the piston rod speed intersects the weight of the load. Any cylinder bore size above the intersect point will adequately decelerate the load at that speed.



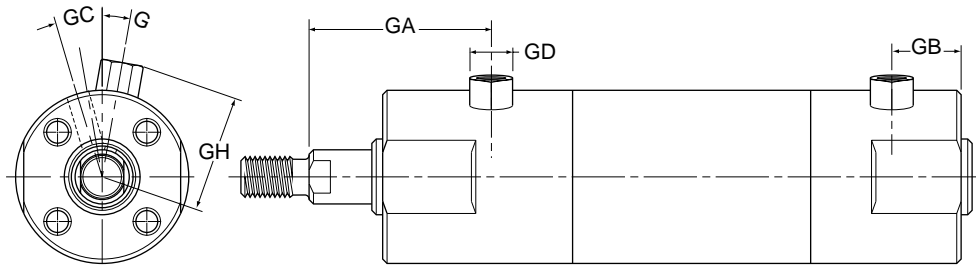
Note: Cushions are recommended for applications with cylinder velocities exceeding 1 ft/sec.

Style N

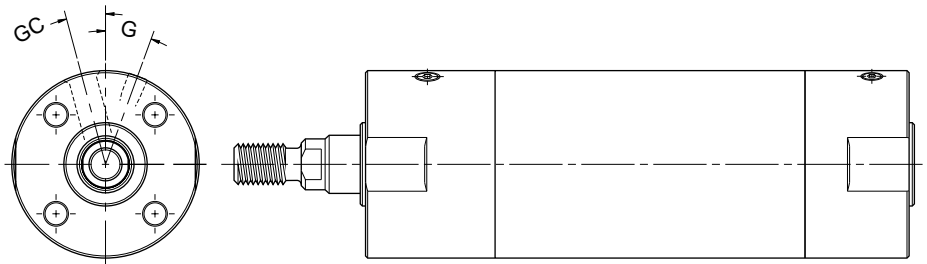
Basic No Mount
Typical 20 to 100 mm Bore
without air cushion



With adjustable air cushion - 20 to 25 mm bores



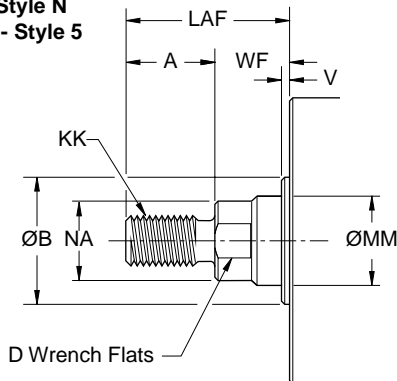
With adjustable air cushion - 32 to 100 mm bores (feature a flush-fit cushion adjustment screw)



Rod End Details

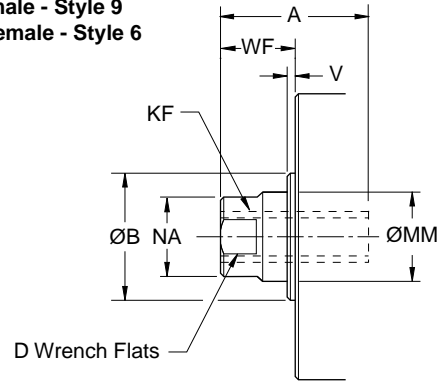
MALE THREADS

Inch Male - Style N
Metric Male - Style 5



FEMALE THREADS

Inch Female - Style 9
Metric Female - Style 6



SPECIAL ROD END THREADS

Thread Style 3

Special Metric or Inch threads, extension, blank, etc., are also available. To order, specify "Style 3" and give desired dimensions for KK or KF, A and LAF or WF (length dimensions in millimeters). If otherwise special, supply a dimensioned sketch.

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Metric Dimensions – Envelope and Mounting Dimensions (mm)

Bore	A	ØB +0 -0.02	DD	BG (Depth)	D	ØE	EE	Thread KK Style 5	Thread KF Style 6	LAF	Ø MM Rod Dia.	N	NA	R	V	WF	Y
20	13	12	M4x0.7	7	6	27	1/8*	M8 x 1.25	M5 x 0.80	26	8	24	-	14	2	13	28
25	13	14	M5x0.8	7.6	8	32	1/8*	M10 x 1.25	M6 x 1.00	29	10	29	-	16.5	2	16	30
32	19	18	M5x0.8	7.6	10	39	1/8	M10 x 1.25	M8 x 1.25	41	12	36	11	20	2	22	40
40	19	25	M6x1	12	12	48.5	1/8	M14 x 1.5	M8 x 1.25	41	16	44	14	26	2	22	42
50	22	30	M8x1.25	16	16	59	1/4	M18 x 1.5	M10 x 1.25	52	20	55	18	32	2	30	53
63	22	32	M10x1.5	16	16	72	1/4	M18 x 1.5	M10 x 1.25	52	20	69	18	38	2	30	53
80	38	40	M10x1.5	22	20	90	3/8	M22 x 1.5	M16 x 1.5	69	25	86	23	50	3	31	59
100	48	50	M12x1.75	22	26	110	1/2	M26 x 1.5	M20 x 1.5	79	32	106	30	60	3	31	57

*Ports are M5 for cushioned versions

Bore	Add Stroke		
	LB	P	ZB
20	69	45	83
25	69	46	86
32	71	43	95
40	78	49	102
50	90	53	122
63	90	52	122
80	108	64	142
100	108	66	142

Bore	Adjustable Air Cushion							
	GA	GB	GD Hex	GC°	G°	GH	EE	Cushion Length
20	33	14	8	13-1/2	25-1/2	20.5	M5 x 0.8	9
25	35	14	8	15-1/2	20-1/2	23	M5 x 0.8	9
32	-	-	-	10-1/2	30-1/2	-	1/8	10
40	-	-	-	10-1/2	22-1/2	-	1/8	12
50	-	-	-	10-1/2	23-1/2	-	1/4	15
63	-	-	-	15-1/2	20-1/2	-	1/4	15
80	-	-	-	15-1/2	25-1/2	-	3/8	15
100	-	-	-	15-1/2	25-1/2	-	1/2	15

Inch Dimensions – Envelope and Mounting Dimensions (inch)

Bore Size	A	ØB +0 -0.001	DD (UNF)	BG (Depth)	D	ØE	EE (NPTF)	Thread		LAF	ØMM Rod Dia.	N	NA	R	V	WF	Y
								KK (UNF) Style N	KF (UNF) Style 9								
20	0.50	0.472	8-32	0.28	0.24	1.06	1/8†	1/4-28	#10-32	1.00	0.315	0.94	-	0.55	0.08	0.50	1.10
25	0.50	0.551	10-32	0.30	0.31	1.26	1/8†	5/16-24	1/4-28	1.12	0.394	1.14	-	0.65	0.08	0.62	1.18
32	0.75	0.709	10-32	0.30	0.39	1.53	1/8	7/16-20	5/16-24	1.63	0.472	1.42	0.43	0.79	0.08	0.88	1.57
40	0.75	0.984	1/4-28	0.47	0.47	1.91	1/8	7/16-20	3/8-24	1.63	0.630	1.73	0.55	1.02	0.08	0.88	1.65
50	0.88	1.181	5/16-24	0.63	0.63	2.32	1/4	1/2-20	1/2-20	2.07	0.787	2.17	0.71	1.26	0.08	1.19	2.09
63	0.88	1.260	3/8-24	0.63	0.63	2.83	1/4	1/2-20	1/2-20	2.07	0.787	2.72	0.71	1.50	0.08	1.19	2.09
80	1.50	1.575	3/8-24	0.88	0.79	3.54	3/8	3/4-16	5/8-18	2.72	0.984	3.39	0.91	1.97	0.12	1.22	2.32
100	1.88	1.968	1/2-20	0.88	1.02	4.33	1/2	1-14	3/4-16	3.11	1.260	4.17	1.18	2.36	0.12	1.22	2.24

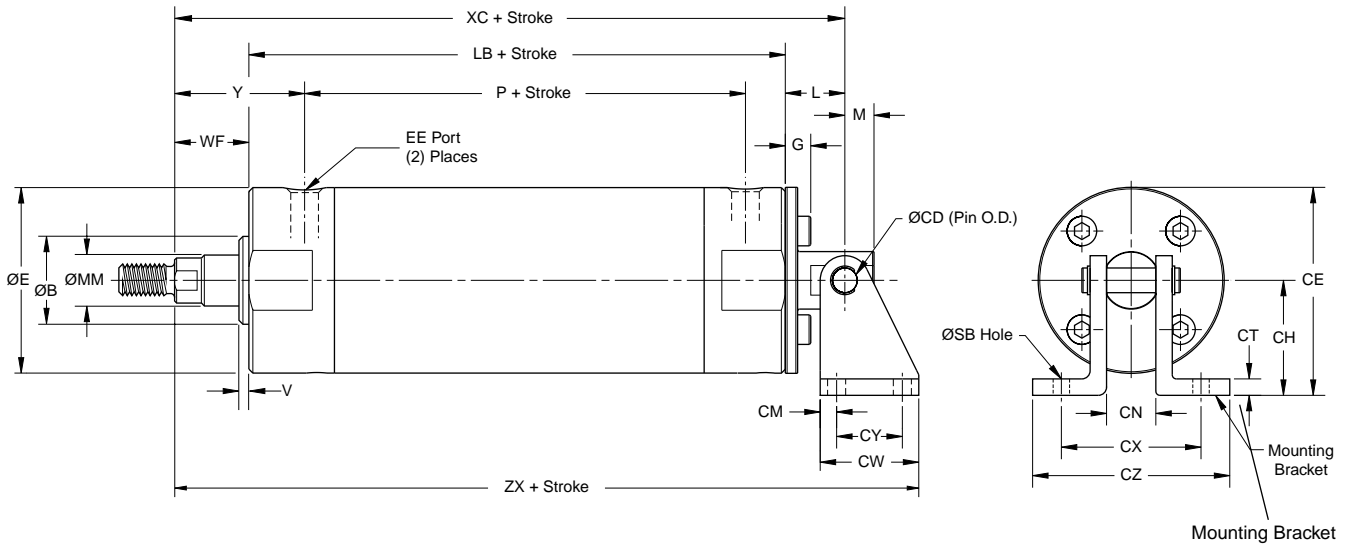
† Ports are 10-32 for cushioned versions

Bore (mm)	Add Stroke		
	LB	P	ZB
20	2.70	1.77	3.28
25	2.70	1.81	3.40
32	2.78	1.69	3.74
40	3.06	1.93	4.02
50	3.53	2.09	4.80
63	3.53	2.05	4.80
80	4.25	2.52	5.59
100	4.25	2.60	5.59

Bore (mm)	Adjustable Air Cushion							
	GA	GB	GD Hex	GC°	G°	GH	EE	Cushion Length
20	1.30	0.55	0.31	13-1/2	25-1/2	0.81	10-32 UNF	0.35
25	1.38	0.55	0.31	15-1/2	20-1/2	0.91	10-32 UNF	0.35
32	-	-	-	10-1/2	30-1/2	-	1/8 NPTF	0.39
40	-	-	-	10-1/2	22-1/2	-	1/8 NPTF	0.47
50	-	-	-	10-1/2	23-1/2	-	1/4 NPTF	0.59
63	-	-	-	15-1/2	20-1/2	-	1/4 NPTF	0.59
80	-	-	-	15-1/2	25-1/2	-	3/8 NPTF	0.59
100	-	-	-	15-1/2	25-1/2	-	1/2 NPTF	0.59



Style B
Single Rear Clevis
Typical 20 to 100 mm Bore

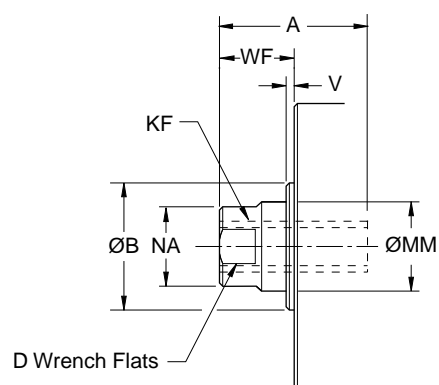
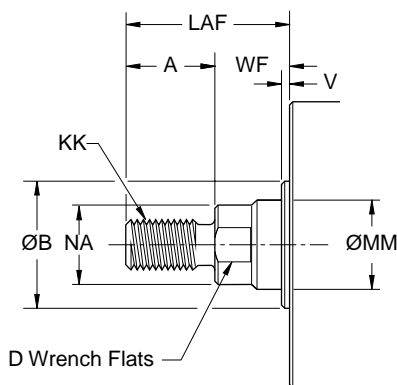


Note: Mating Mounting Bracket and Pin must be ordered as separate items

Rod End Details

MALE THREADS
Inch Male - Style N
Metric Male - Style 5

FEMALE THREADS
Inch Female - Style 9
Metric Female - Style 6



SPECIAL ROD END THREADS

Thread Style 3

Special Metric or Inch threads, extension, blank, etc., are also available. To order, specify "Style 3" and give desired dimensions for KK or KF, A and LAF or WF (length dimensions in millimeters). If otherwise special, supply a dimensioned sketch.



Metric Dimensions – Envelope and Mounting Dimensions (mm)

Bore	A	ØB +0 -0.02	ØCD h9	D	ØE	EE (BSPT)	G	Thread KK Style 5	Thread KF Style 6	L	LAF	M	ØMM Rod Dia.	NA	V	WF	Y
20	13	12	6.35	6	27	1/8*	7	M8 x 1.25	M5 x 0.80	18	26	7	8	–	2	13	28
25	13	14	6.35	8	32	1/8*	8	M10 x 1.25	M6 x 1.00	17	29	7	10	–	2	16	30
32	19	18	6.35	10	39	1/8	15.5	M10 x 1.25	M8 x 1.25	27	41	10	12	11	2	22	40
40	19	25	9.52	12	48.5	1/8	10	M14 x 1.5	M8 x 1.25	22	41	10	16	14	2	22	42
50	22	30	9.52	16	59	1/4	12	M18 x 1.5	M10 x 1.25	23	52	11	20	18	2	30	53
63	22	32	9.52	16	72	1/4	13	M18 x 1.5	M10 x 1.25	23	52	11	20	18	2	30	53
80	38	40	19.07	20	90	3/8	15	M22 x 1.5	M16 x 1.5	35	69	19	25	23	3	31	59
100	48	50	19.07	26	110	1/2	17	M26 x 1.5	M20 x 1.5	43	79	19	32	30	3	31	57

Bore	CE	CH	CM	CN	CT	CW	CX	CY	CZ	ØSB	Add Stroke			
											LB	P	XC	ZX
20	35.5	22	5	10	3	29	32	19	51	7	69	45	99	120
25	38	22	5	10	3	29	32	19	51	7	69	46	102	123
32	41.5	22	5	13	3	29	35	19	54	7	71	43	120	141
40	59	35	6	16	3	38	47	25	67	7	78	49	122	151
50	64.5	35	6	19	6	38	54	25	76	7	90	53	143	172
63	80	44	6	19	6	38	54	25	76	7	90	52	143	172
80	96	51	13	28	6	64	72	38	104	11	108	64	173	218
100	115	60	13	32	6	70	76	44	108	14	108	66	189	240

* Ports are M5 for cushioned versions

Inch Dimensions – Envelope and Mounting Dimensions (inch)

Bore (mm)	A	ØB +0 -0.001	ØCD +0 -0.002	D	ØE	EE (NTPF)	G	Thread KK Style N	Thread KF Style 9	L	LAF	M	ØMM Rod Dia.	NA	V	WF	Y
20	0.50	0.472	0.250	0.24	1.06	1/8†	0.26	1/4-28	#10-32	0.70	1.00	0.28	0.315	–	0.08	0.50	1.10
25	0.50	0.551	0.250	0.31	1.26	1/8†	0.27	5/16-24	1/4-28	0.68	1.12	0.28	0.394	–	0.08	0.62	1.18
32	0.75	0.709	0.250	0.39	1.53	1/8	0.57	7/16-20	5/16-24	1.07	1.63	0.39	0.472	0.43	0.08	0.88	1.57
40	0.75	0.984	0.375	0.47	1.91	1/8	0.36	7/16-20	3/8-24	0.88	1.63	0.38	0.630	0.55	0.08	0.88	1.65
50	0.88	1.181	0.375	0.63	2.32	1/4	0.43	1/2-20	1/2-20	0.91	2.07	0.44	0.787	0.71	0.08	1.19	2.09
63	0.88	1.260	0.375	0.63	2.83	1/4	0.46	1/2-20	1/2-20	0.91	2.07	0.44	0.787	0.71	0.08	1.19	2.09
80	1.50	1.575	0.751	0.79	3.54	3/8	0.54	3/4-16	5/8-18	1.38	2.72	0.75	0.984	0.91	0.12	1.22	2.32
100	1.88	1.968	0.751	1.02	4.33	1/2	0.64	1-14	3/4-16	1.69	3.11	0.75	1.260	1.18	0.12	1.22	2.24

Bore (mm)	CE	CH	CM	CN	CT	CW	CX	CY	CZ	ØSB	Add Stroke			
											LB	P	XC	ZX
20	1.39	0.87	0.19	0.38	0.12	1.13	1.25	0.75	2.00	0.27	2.70	1.77	3.91	4.74
25	1.49	0.87	0.19	0.38	0.12	1.13	1.25	0.75	2.00	0.27	2.70	1.81	4.00	4.83
32	1.63	0.87	0.19	0.50	0.12	1.13	1.38	0.75	2.12	0.27	2.78	1.69	4.72	5.55
40	2.31	1.38	0.25	0.62	0.12	1.50	1.86	1.00	2.62	0.27	3.06	1.93	4.81	5.94
50	2.52	1.38	0.25	0.75	0.25	1.50	2.12	1.00	3.00	0.27	3.53	2.09	5.63	6.76
63	3.17	1.75	0.25	0.75	0.25	1.50	2.12	1.00	3.00	0.27	3.53	2.05	5.63	6.76
80	3.77	2.00	0.50	1.09	0.25	2.50	2.84	1.50	4.09	0.42	4.25	2.52	6.82	8.57
100	4.54	2.37	0.50	1.25	0.25	2.75	3.00	1.75	4.25	0.55	4.25	2.60	7.44	9.44

† Ports are 10-32 for cushioned versions



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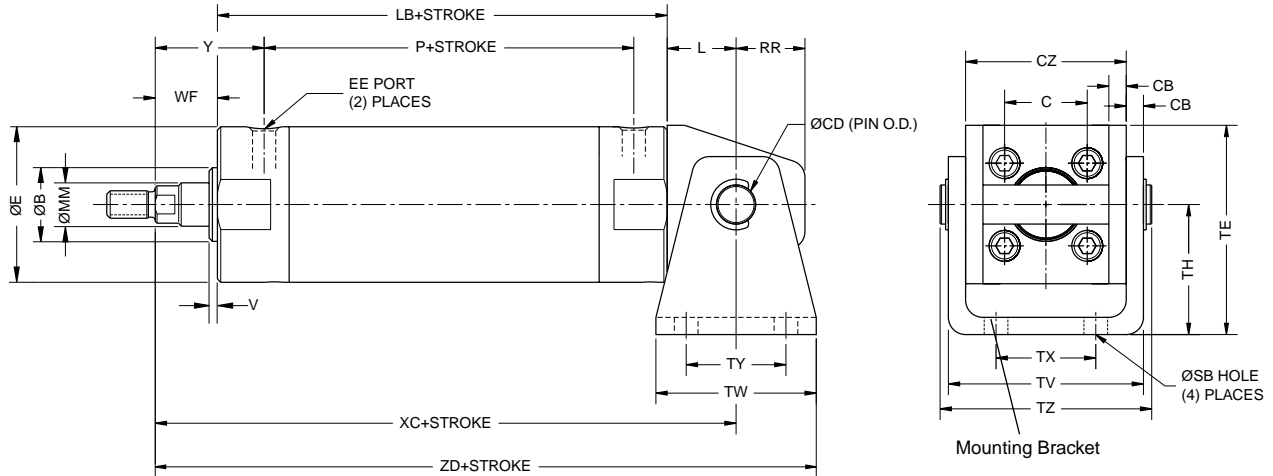
SR/SRM, SRD/SRDM

SRX

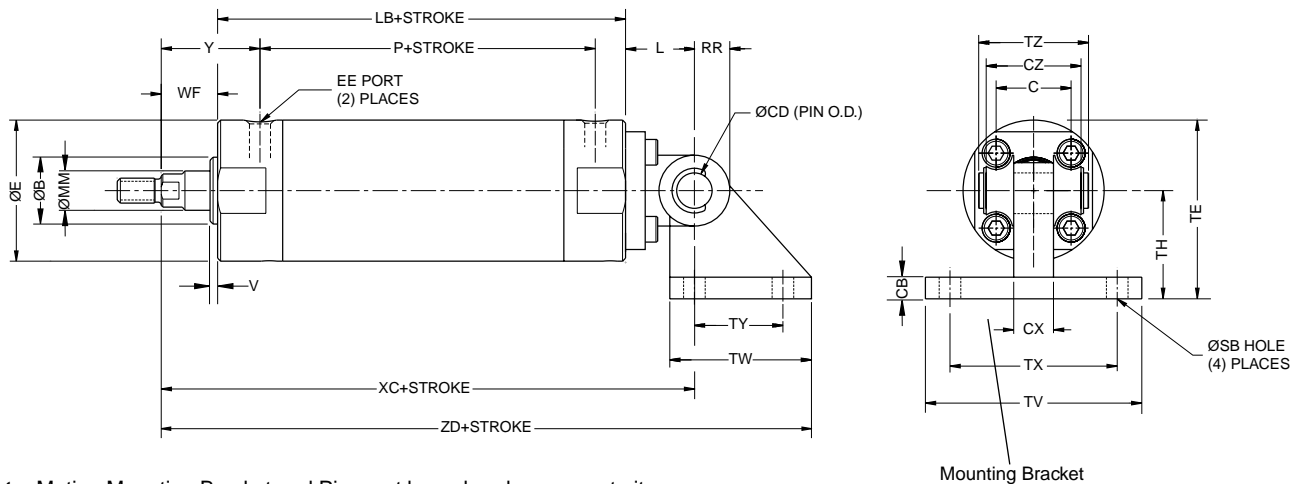
P1L

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Style A
Double Rear Clevis
Typical 20 to 63 mm Bore



Style A
Double Rear Clevis
Typical 80 to 100 mm Bore



Note: Mating Mounting Bracket and Pin must be ordered as separate items.

Rod End Details

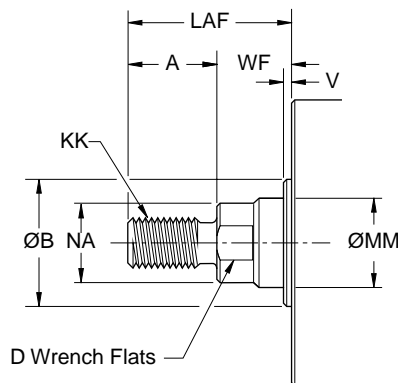
MALE THREADS

Inch Male - Style N
Metric Male - Style 5

SPECIAL ROD END THREADS

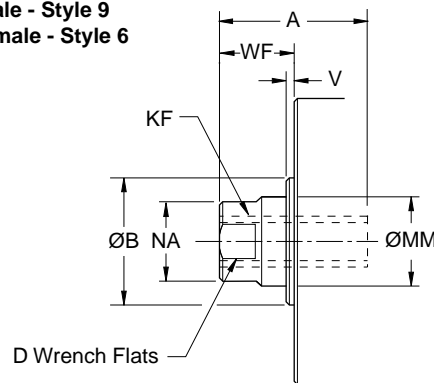
Thread Style 3

Special Metric or Inch threads, extension, blank, etc., are also available. To order, specify "Style 3" and give desired dimensions for KK or KF, A and LAF or WF (length dimensions in millimeters). If otherwise special, supply a dimensioned sketch.



FEMALE THREADS

Inch Female - Style 9
Metric Female - Style 6



Metric Dimensions – Envelope and Mounting Dimensions (mm)

Bore	A	ØB +0 -0.02	C	CB	ØCD d9	CZ	CX	D	ØE	EE (BSPT)	Thread KK Style 5	Thread KF Style 6	L	LAF	ØMM Rod Dia.	NA	RR	V	WF
20	13	12	14	3	8	29	-	6	27	1/8*	M8x1.25	M5x0.80	14	26	8	-	11	2	13
25	13	14	16.5	3	10	33	-	8	32	1/8*	M10x1.25	M6x1.00	16	29	10	-	13	2	16
32	19	18	20	4.5	12	40	-	10	39	1/8	M10x1.25	M8x1.25	20	41	12	11	15	2	22
40	19	25	26	4.5	14	49	-	12	48.5	1/8	M14x1.5	M8x1.25	22	41	16	14	18	2	22
50	22	30	32	6	16	60	-	16	59	1/4	M18x1.5	M10x1.25	25	52	20	18	20	2	30
63	22	32	38	8	18	74	-	16	72	1/4	M18x1.5	M10x1.25	30	52	20	18	22	2	30
80	38	40	50	11	18	56	28	20	90	3/8	M22x1.5	M16x1.5	35	69	25	23	18	3	31
100	48	50	60	12	22	64	32	26	110	1/2	M26x1.5	M20x1.5	43	79	32	30	22	3	31

Bore	ØSB	TY	TV	TE	TH	TX	TW	TZ	Y	Add Stroke			
										LB	P	XC	ZD
20	5.5	28	35	38	25	16	42	43.4	28	69	45	95	116
25	5.5	28	39	45.5	30	20	42	48	30	69	46	100	121
32	7	28	49	54	35	22	48	59.4	40	71	43	113	137
40	7	30	58	63.5	40	30	56	71.4	42	78	49	122	150
50	9	36	72	79	50	36	64	86	53	90	53	145	177
63	11	46	90	96	60	46	74	105.4	53	90	52	150	187
80	11	45	110	100	55	85	72	64	59	108	64	174	232.5
100	13.5	60	130	120	65	100	93	72	57	108	66	182	258.5

* Ports are M5 for cushioned versions

Inch Dimensions – Envelope and Mounting Dimensions (inch)

Bore (mm)	A	ØB +0 -0.001	C	CB	ØCD -0.001 -0.003	CZ	CX	D	ØE	EE (NPTF)	Thread KK (UNF) Style N	Thread KF (UNF) Style 9	L	LAF	ØMM	NA	RR	V	WF
20	0.50	0.472	0.55	0.12	0.315	1.14	-	0.24	1.06	1/8†	1/4-28	#10-32	0.55	1.00	0.315	-	0.43	0.08	0.50
25	0.50	0.551	0.65	0.12	0.394	1.30	-	0.31	1.26	1/8†	5/16-24	1/4-28	0.63	1.12	0.394	-	0.51	0.08	0.62
32	0.75	0.709	0.79	0.18	0.472	1.57	-	0.39	1.53	1/8	7/16-20	5/16-24	0.79	1.63	0.472	0.43	0.59	0.08	0.88
40	0.75	0.984	1.02	0.18	0.551	1.93	-	0.47	1.91	1/8	7/16-20	3/8-24	0.87	1.63	0.630	0.55	0.71	0.08	0.88
50	0.88	1.181	1.26	0.25	0.630	2.36	-	0.63	2.32	1/4	1/2-20	1/2-20	0.98	2.07	0.787	0.71	0.79	0.08	1.19
63	0.88	1.260	1.50	0.31	0.709	2.91	-	0.63	2.83	1/4	1/2-20	1/2-20	1.18	2.07	0.787	0.71	0.87	0.08	1.19
80	1.50	1.575	1.97	0.43	0.709	2.20	1.10	0.79	3.54	3/8	3/4-16	5/8-18	1.38	2.72	0.984	0.91	0.71	0.12	1.22
100	1.88	1.968	2.36	0.47	0.866	2.52	1.26	1.02	4.33	1/2	1-14	3/4-16	1.69	3.11	1.260	1.18	0.87	0.12	1.22

Bore (mm)	ØSB	TY	TV	TE	TH	TX	TW	TZ	Y	Add Stroke			
										LB	P	XC	ZD
20	0.22	1.10	1.39	1.50	0.98	0.63	1.66	1.71	1.10	2.70	1.77	3.75	4.58
25	0.22	1.10	1.55	1.79	1.18	0.79	1.66	1.89	1.18	2.70	1.81	3.95	4.78
32	0.28	1.10	1.93	2.13	1.38	0.87	1.88	2.34	1.57	2.78	1.69	4.45	5.39
40	0.28	1.18	2.28	2.50	1.57	1.18	2.20	2.81	1.65	3.06	1.93	4.81	5.91
50	0.35	1.42	2.83	3.11	1.97	1.42	2.52	3.38	2.09	3.53	2.09	5.70	6.96
63	0.43	1.81	3.54	3.78	2.36	1.81	2.91	4.15	2.09	3.53	2.05	5.90	7.36
80	0.43	1.77	4.33	3.94	2.17	3.35	2.83	2.52	2.32	4.25	2.52	6.85	9.15
100	0.53	2.36	5.12	4.72	2.56	3.94	3.66	2.83	2.24	4.25	2.60	7.17	10.18

†Ports are 10-32 for cushioned versions



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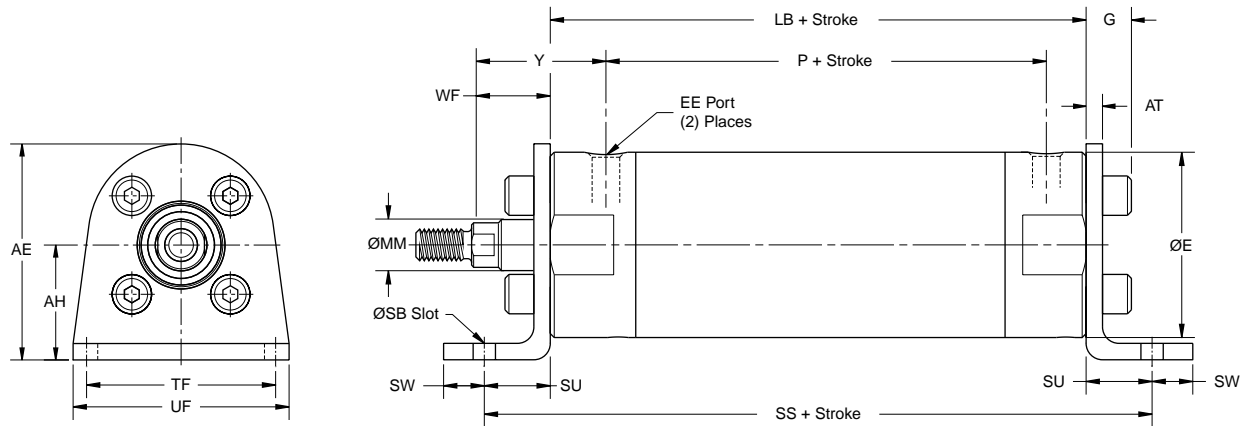
SRX

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**Style F
 Foot Mount
 Typical 20 to 100 mm Bore**

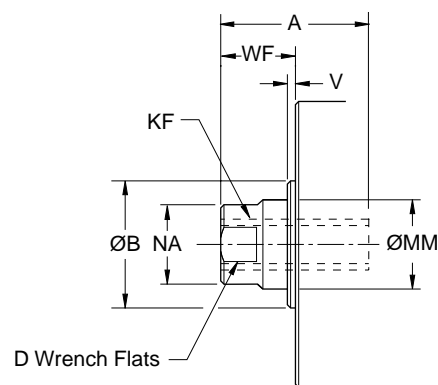
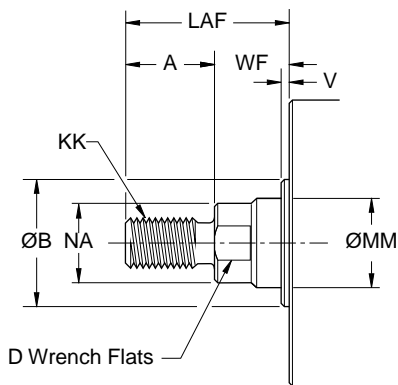
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Rod End Details

MALE THREADS
 Inch Male - Style N
 Metric Male - Style 5

FEMALE THREADS
 Inch Female - Style 9
 Metric Female - Style 6



SPECIAL ROD END THREADS

Thread Style 3

Special Metric or Inch threads, extension, blank, etc., are also available. To order, specify "Style 3" and give desired dimensions for KK or KF, A and LAF or WF (length dimensions in millimeters). If otherwise special, supply a dimensioned sketch.

Metric Dimensions – Envelope and Mounting Dimensions (mm)

Bore	A	AE	AH	AT	ØB +0 -0.02	D	ØE	EE (BSPT)	G	Thread KK Style 5	Thread KF Style 6	LAF	ØMM Rod Dia.	NA	ØSB
20	13	36.5	20.6	3	12	6	27	1/8*	6	M8x1.25	M5x0.80	26	8	–	7
25	13	38.5	20.6	3	14	8	32	1/8*	6.5	M10x1.25	M6x1.00	29	10	–	7
32	19	46.5	25.4	3	18	10	39	1/8	6.5	M10x1.25	M8x1.25	41	12	11	7
40	19	51	25.4	3	25	12	48.5	1/8	7	M14x1.5	M8x1.25	41	16	14	7
50	22	72	38.1	6	30	16	59	1/4	11	M18x1.5	M10x1.25	52	20	18	9
63	22	83.5	44.5	6	32	16	72	1/4	12	M18x1.5	M10x1.25	52	20	18	9
80	38	101	55	6	40	20	90	3/8	12	M22x1.5	M16x1.5	69	25	23	11
100	48	121	65	6	50	26	110	1/2	13	M26x1.5	M20x1.5	79	32	30	14

Bore	SU	SW	TF	UF	V	WF	Y	Add Stroke		
								LB	P	SS
20	14	11	38	48	2	13	28	69	45	97
25	14	11	38	48	2	16	30	69	46	97
32	19	19	48	63.5	2	22	40	71	43	109
40	18	20	48	63.5	2	22	42	78	49	114
50	25	16	57	79	2	30	53	90	53	140
63	25	16	73	95	2	30	53	90	52	140
80	28.5	14	100	125	3	31	59	108	64	165
100	30	16	120	150	3	31	57	108	66	168

* Ports are M5 for cushioned versions

Inch Dimensions – Envelope and Mounting Dimensions (inch)

Bore	A	AE	AH	AT	ØB +0 -0.001	D	ØE	EE (NPTF)	G	Thread KK (UNF) Style N	Thread KF (UNF) Style 9	LAF	ØMM	NA	ØSB
20	0.50	1.44	0.81	0.12	0.472	0.24	1.06	1/8†	0.20	1/4-28	#10-32	1.00	0.315	–	0.27
25	0.50	1.52	0.81	0.12	0.551	0.31	1.26	1/8†	0.22	5/16-24	1/4-28	1.12	0.394	–	0.27
32	0.75	1.83	1.00	0.12	0.709	0.39	1.53	1/8	0.22	7/16-20	5/16-24	1.63	0.472	0.43	0.28
40	0.75	2.02	1.00	0.12	0.984	0.47	1.91	1/8	0.25	7/16-20	3/8-24	1.63	0.630	0.55	0.28
50	0.88	2.84	1.50	0.25	1.181	0.63	2.32	1/4	0.41	1/2-20	1/2-20	2.07	0.787	0.71	0.34
63	0.88	3.29	1.75	0.25	1.260	0.63	2.83	1/4	0.44	1/2-20	1/2-20	2.07	0.787	0.71	0.34
80	1.50	3.98	2.17	0.25	1.575	0.79	3.54	3/8	0.44	3/4-16	5/8-18	2.72	0.984	0.91	0.43
100	1.88	4.76	2.56	0.25	1.968	1.02	4.33	1/2	0.50	1-14	3/4-16	3.11	1.260	1.18	0.55

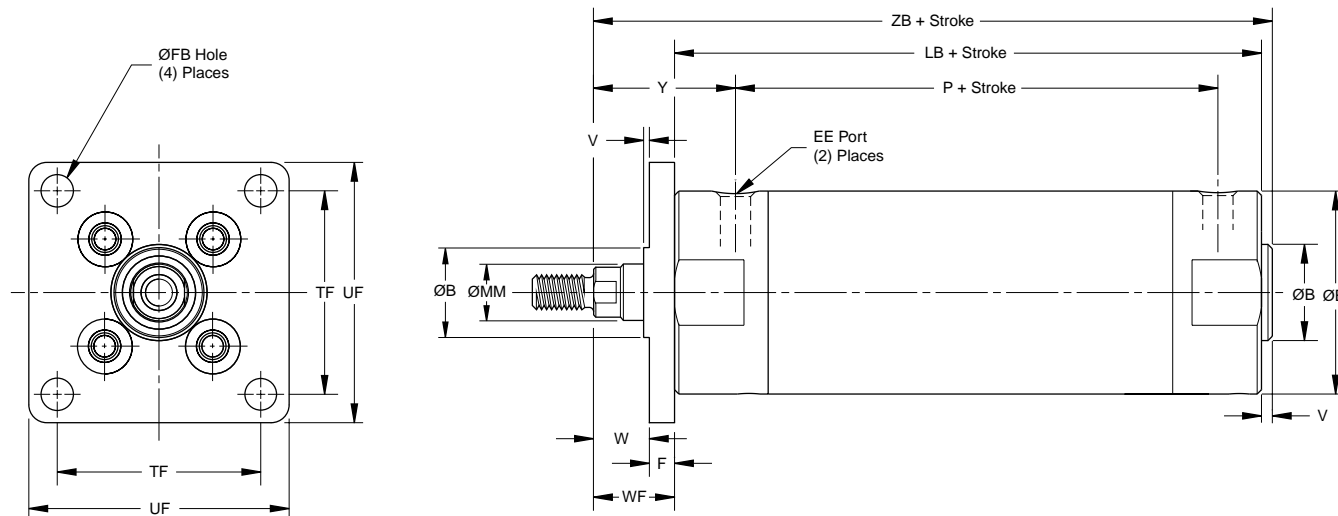
Bore (mm)	SU	SW	TF	UF	V	WF	Y	Add Stroke		
								LB	P	SS
20	0.56	0.44	1.50	1.88	0.08	0.50	1.10	2.70	1.77	3.82
25	0.56	0.44	1.50	1.88	0.08	0.62	1.18	2.70	1.81	3.82
32	0.75	0.75	1.88	2.50	0.08	0.88	1.57	2.78	1.69	4.28
40	0.72	0.78	1.88	2.50	0.08	0.88	1.65	3.06	1.93	4.50
50	1.00	0.62	2.24	3.12	0.08	1.19	2.09	3.53	2.09	5.53
63	1.00	0.62	2.88	3.75	0.08	1.19	2.09	3.53	2.05	5.53
80	1.12	0.55	3.94	4.92	0.12	1.22	2.32	4.25	2.52	6.49
100	1.18	0.63	4.72	5.91	0.12	1.22	2.24	4.25	2.60	6.61

† Ports are 10-32 for cushioned versions



Style J
Front Flange
Typical 20 to 100 mm Bore

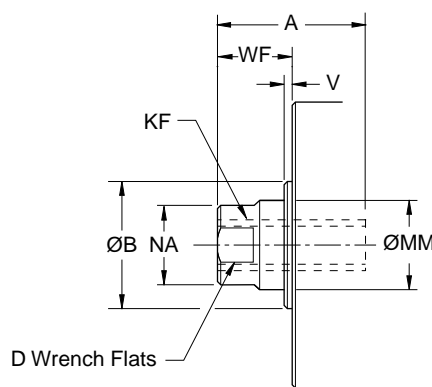
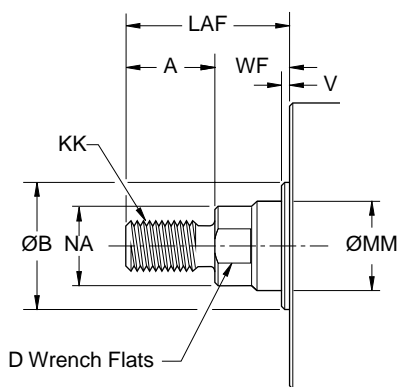
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Rod End Details

MALE THREADS
Inch Male - Style N
Metric Male - Style 5

FEMALE THREADS
Inch Female - Style 9
Metric Female - Style 6



SPECIAL ROD END THREADS

Thread Style 3

Special Metric or Inch threads, extension, blank, etc., are also available. To order, specify "Style 3" and give desired dimensions for KK or KF, A and LAF or WF (length dimensions in millimeters). If otherwise special, supply a dimensioned sketch.



Metric Dimensions – Envelope and Mounting Dimensions (mm)

Bore	A	ØB +0 -0.02	D	ØE	EE (BSPT)	F	ØFB	Thread KK Style 5	Thread KF Style 6	LAF	ØMM Rod Dia.	NA	TF	UF	V	WF	W	Y
20	13	12	6	27	1/8*	6	5.5	M8x1.25	M5x0.80	26	8	–	28	40	2	13	7	28
25	13	14	8	32	1/8*	7	5.5	M10x1.25	M6x1.00	29	10	–	32	44	2	16	9	30
32	19	18	10	39	1/8	7	7	M10x1.25	M8x1.25	41	12	11	38	53	2	22	15	40
40	19	25	12	48.5	1/8	8	7	M14x1.5	M8x1.25	41	16	14	46	61	2	22	14	42
50	22	30	16	59	1/4	9	9	M18x1.5	M10x1.25	52	20	18	58	76	2	30	21	53
63	22	32	16	72	1/4	9	11	M18x1.5	M10x1.25	52	20	18	70	92	2	30	21	53
80	38	40	20	90	3/8	11	11	M22x1.5	M16x1.5	69	25	23	82	104	3	31	20	59
100	48	50	26	110	1/2	14	14	M26x1.5	M20x1.5	79	32	30	100	128	3	31	17	57

Bore	Add Stroke		
	LB	P	ZB
20	69	45	83
25	69	46	86
32	71	43	95
40	78	49	102
50	90	53	122
63	90	52	122
80	108	64	142
100	108	66	142

* Ports are M5 for cushioned versions

Inch Dimensions – Envelope and Mounting Dimensions (inch)

Bore (mm)	A	ØB +0 -0.001	D	ØE	EE (NPTF)	F	ØFB	Thread KK (UNF) Style N	Thread KF (UNF) Style 9	LAF	ØMM Rod Dia.	NA	TF	UF	V	WF	W	Y
20	0.50	0.472	0.24	1.06	1/8†	0.24	0.22	1/4-28	#10-32	1.00	0.315	–	1.10	1.57	0.08	0.50	0.26	1.10
25	0.50	0.551	0.31	1.26	1/8†	0.28	0.22	5/16-24	1/4-28	1.12	0.394	–	1.26	1.73	0.08	0.62	0.34	1.18
32	0.75	0.709	0.39	1.53	1/8	0.28	0.28	7/16-20	5/16-24	1.63	0.472	0.43	1.50	2.09	0.08	0.88	0.60	1.57
40	0.75	0.984	0.47	1.91	1/8	0.31	0.28	7/16-20	3/8-24	1.63	0.630	0.55	1.81	2.40	0.08	0.88	0.57	1.65
50	0.88	1.181	0.63	2.32	1/4	0.35	0.35	1/2-20	1/2-20	2.07	0.787	0.71	2.28	3.00	0.08	1.19	0.84	2.09
63	0.88	1.260	0.63	2.83	1/4	0.35	0.43	1/2-20	1/2-20	2.07	0.787	0.71	2.76	3.62	0.08	1.19	0.84	2.09
80	1.50	1.575	0.79	3.54	3/8	0.43	0.43	3/4-16	5/8-18	2.72	0.984	0.91	3.23	4.09	0.12	1.22	0.79	2.32
100	1.88	1.968	1.02	4.33	1/2	0.55	0.55	1-14	3/4-16	3.11	1.260	1.18	3.94	5.04	0.12	1.22	0.67	2.24

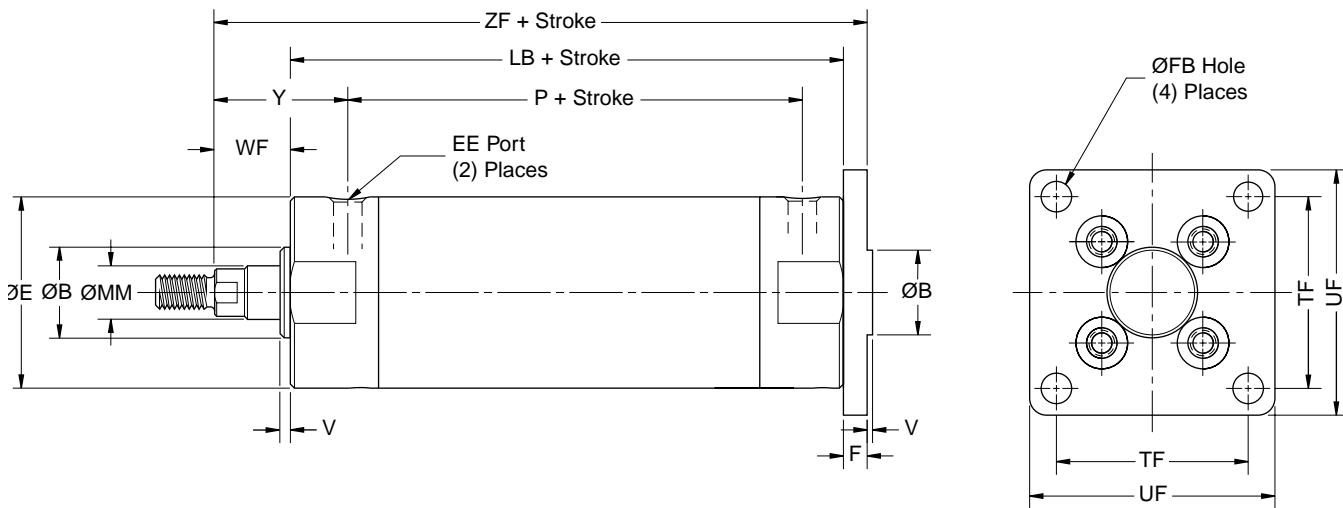
Bore (mm)	Add Stroke		
	LB	P	ZB
20	2.70	1.77	3.28
25	2.70	1.81	3.40
32	2.78	1.69	3.74
40	3.06	1.93	4.02
50	3.53	2.09	4.80
63	3.53	2.05	4.80
80	4.25	2.52	5.59
100	4.25	2.60	5.59

† Ports are 10-32 for cushioned versions



Style H
Rear Flange
Typical 20 to 100 mm Bore

D



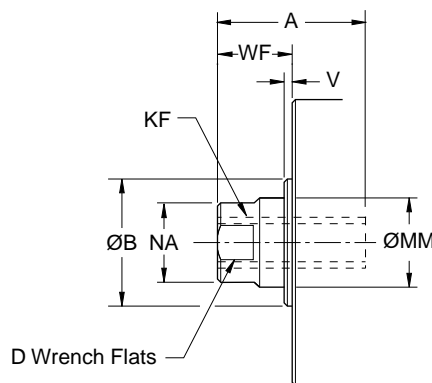
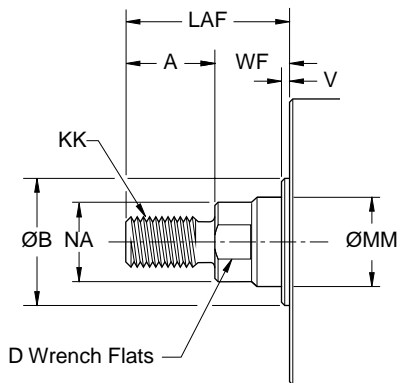
Rod End Details

MALE THREADS

Inch Male - Style N
Metric Male - Style 5

FEMALE THREADS

Inch Female - Style 9
Metric Female - Style 6



SPECIAL ROD END THREADS

Thread Style 3

Special Metric or Inch threads, extension, blank, etc., are also available. To order, specify "Style 3" and give desired dimensions for KK or KF, A and LAF or WF (length dimensions in millimeters). If otherwise special, supply a dimensioned sketch.



Metric Dimensions – Envelope and Mounting Dimensions (mm)

Bore	A	ØB +0 -0.02	D	ØE	EE (BSPT)	F	ØFB	Thread KK Style 5	Thread KF Style 6	LAF	ØMM Rod Dia.	NA	TF	UF	V	WF	Y
20	13	12	6	27	1/8*	6	5.5	M8x1.25	M5x0.80	26	8	–	28	40	2	13	28
25	13	14	8	32	1/8*	7	5.5	M10x1.25	M6x1.00	29	10	–	32	44	2	16	30
32	19	18	10	39	1/8	7	7	M10x1.25	M8x1.25	41	12	11	38	53	2	22	40
40	19	25	12	48.5	1/8	8	7	M14x1.5	M8x1.25	41	16	14	46	61	2	22	42
50	22	30	16	59	1/4	9	9	M18x1.5	M10x1.25	52	20	18	58	76	2	30	53
63	22	32	16	72	1/4	9	11	M18x1.5	M10x1.25	52	20	18	70	92	2	30	53
80	38	40	20	90	3/8	11	11	M22x1.5	M16x1.5	69	25	23	82	104	3	31	59
100	48	50	26	110	1/2	14	14	M26x1.5	M20x1.5	79	32	30	100	128	3	31	57

Bore	Add Stroke		
	LB	P	ZF
20	69	45	87
25	69	46	91
32	71	43	100
40	78	49	108
50	90	53	129
63	90	52	129
80	108	64	150
100	108	66	153

* Ports are M5 for cushioned versions

Inch Dimensions – Envelope and Mounting Dimensions (inch)

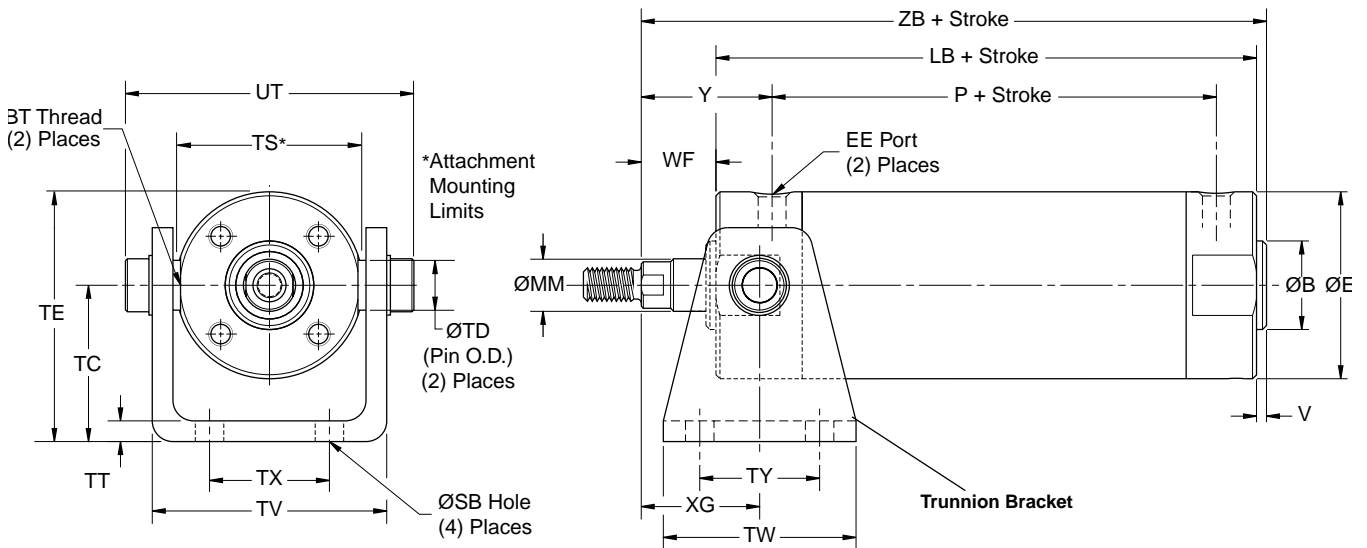
Bore (mm)	A	ØB +0 -0.001	D	ØE	EE (NPTF)	F	ØFB	Thread KK (UNF) Style N	Thread KF (UNF) Style 9	LAF	ØMM Rod Dia.	NA	TF	UF	V	WF	Y
20	0.50	0.472	0.24	1.06	1/8†	0.24	0.22	1/4-28	#10-32	1.00	0.315	–	1.10	1.57	0.08	0.50	1.10
25	0.50	0.551	0.31	1.26	1/8†	0.28	0.22	5/16-24	1/4-28	1.12	0.394	–	1.26	1.73	0.08	0.62	1.18
32	0.75	0.709	0.39	1.53	1/8	0.28	0.28	7/16-20	5/16-24	1.63	0.472	0.43	1.50	2.09	0.08	0.88	1.57
40	0.75	0.984	0.47	1.91	1/8	0.31	0.28	7/16-20	3/8-24	1.63	0.630	0.55	1.81	2.40	0.08	0.88	1.65
50	0.88	1.181	0.63	2.32	1/4	0.35	0.35	1/2-20	1/2-20	2.07	0.787	0.71	2.28	3.00	0.08	1.19	2.09
63	0.88	1.260	0.63	2.83	1/4	0.35	0.43	1/2-20	1/2-20	2.07	0.787	0.71	2.76	3.62	0.08	1.19	2.09
80	1.50	1.575	0.79	3.54	3/8	0.43	0.43	3/4-16	5/8-18	2.72	0.984	0.91	3.23	4.09	0.12	1.22	2.32
100	1.88	1.968	1.02	4.33	1/2	0.55	0.55	1-14	3/4-16	3.11	1.260	1.18	3.94	5.04	0.12	1.22	2.24

Bore (mm)	Add Stroke		
	LB	P	ZF
20	2.70	1.77	3.44
25	2.70	1.81	3.60
32	2.78	1.69	3.94
40	3.06	1.93	4.25
50	3.53	2.09	5.07
63	3.53	2.05	5.07
80	4.25	2.52	5.91
100	4.25	2.60	6.02

† Ports are 10-32 for cushioned versions



Style E
Front Trunnion
Typical 20 to 63 mm Bore

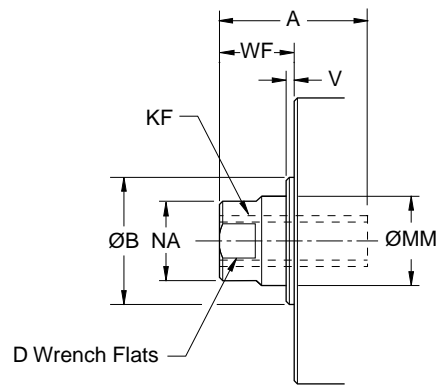
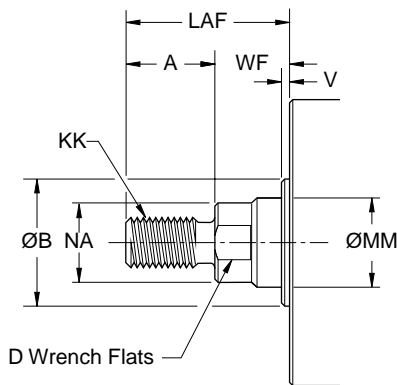


Note: Trunnion Bracket must be ordered as separate item

Rod End Details

MALE THREADS
Inch Male - Style N
Metric Male - Style 5

FEMALE THREADS
Inch Female - Style 9
Metric Female - Style 6



SPECIAL ROD END THREADS

Thread Style 3

Special Metric or Inch threads, extension, blank, etc., are also available. To order, specify "Style 3" and give desired dimensions for KK or KF, A and LAF or WF (length dimensions in millimeters). If otherwise special, supply a dimensioned sketch.



Metric Dimensions – Envelope and Mounting Dimensions (mm)

Bore	A	ØB +0 -0.02	BT	D	ØE	EE (BSPT)	Thread KK Style 5	Thread KF Style 6	LAF	ØMM Rod Dia.	NA	V	WF	XG	Y	ØSB
20	13	12	M5x0.80	6	27	1/8*	M8x1.25	M5x0.80	26	8	–	2	13	24	28	5.5
25	13	14	M6x0.75	8	32	1/8*	M10x1.25	M6x1.00	29	10	–	2	16	27	30	5.5
32	19	18	M8x1.00	10	39	1/8	M10x1.25	M8x1.25	41	12	11	2	22	33	40	7
40	19	25	M10x1.25	12	48.5	1/8	M14x1.5	M8x1.25	41	16	14	2	22	34	42	7
50	22	30	M12x1.25	16	59	1/4	M18x1.5	M10x1.25	52	20	18	2	30	43	53	9
63	22	32	M14x1.50	16	72	1/4	M18x1.5	M10x1.25	52	20	18	2	30	43	53	11

Bore	TC	ØTD _{e8}	TE	TS	TT	TV	TW	TX	TY	UT	Add Stroke		
											LB	P	ZB
20	25	8	38.5	28	3	35	42	16	28	47.5	69	45	83
25	30	10	46	33	3	39	42	20	28	53	69	46	86
32	35	12	54.5	40	4.5	49	48	22	28	68	71	43	95
40	40	14	64	49	4.5	58	56	30	30	79	78	49	102
50	50	16	79.5	60	6	72	64	36	36	99	90	53	122
63	60	18	96	74	8	90	74	46	46	119	90	52	122

* Ports are M5 for cushioned versions

Inch Dimensions – Envelope and Mounting Dimensions (inch)

Bore (mm)	A	ØB +0 -0.001	BT	D	ØE	EE (NPTF)	Thread KK (UNF) Style N	Thread KF (UNF) Style 9	LAF	ØMM Rod Dia.	NA	V	WF	XG	Y	ØSB
20	0.50	0.472	M5x0.80	0.24	1.06	1/8†	1/4-28	#10-32	1.00	0.315	–	0.08	0.50	0.93	1.10	0.22
25	0.50	0.551	M6x0.75	0.31	1.26	1/8†	5/16-24	1/4-28	1.12	0.394	–	0.08	0.62	1.05	1.18	0.22
32	0.75	0.709	M8x1.00	0.39	1.53	1/8	7/16-20	5/16-24	1.63	0.472	0.43	0.08	0.88	1.31	1.57	0.28
40	0.75	0.984	M10x1.25	0.47	1.91	1/8	7/16-20	3/8-24	1.63	0.630	0.55	0.08	0.88	1.35	1.65	0.28
50	0.88	1.181	M12x1.25	0.63	2.32	1/4	1/2-20	1/2-20	2.07	0.787	0.71	0.08	1.19	1.70	2.09	0.35
63	0.88	1.260	M14x1.50	0.63	2.83	1/4	1/2-20	1/2-20	2.07	0.787	0.71	0.08	1.19	1.70	2.09	0.43

Bore (mm)	TC	ØTD	TE	TS	TT	TV	TW	TX	TY	UT	Add Stroke		
											LB	P	ZB
20	0.98	0.315	1.51	1.10	0.12	1.39	1.66	0.63	1.10	1.87	2.70	1.77	3.28
25	1.18	0.394	1.81	1.30	0.12	1.55	1.66	0.79	1.10	2.09	2.70	1.81	3.40
32	1.38	0.472	2.15	1.58	0.18	1.93	1.88	0.87	1.10	2.67	2.78	1.69	3.74
40	1.57	0.551	2.53	1.93	0.18	2.28	2.20	1.18	1.18	3.10	3.06	1.93	4.02
50	1.97	0.630	3.13	2.36	0.25	2.83	2.52	1.42	1.42	3.88	3.53	2.09	4.80
63	2.36	0.709	3.78	2.91	0.31	3.54	2.91	1.81	1.81	4.69	3.53	2.05	4.80

† Ports are 10-32 for cushioned versions



D

SR/SRM, SRD/SRDM

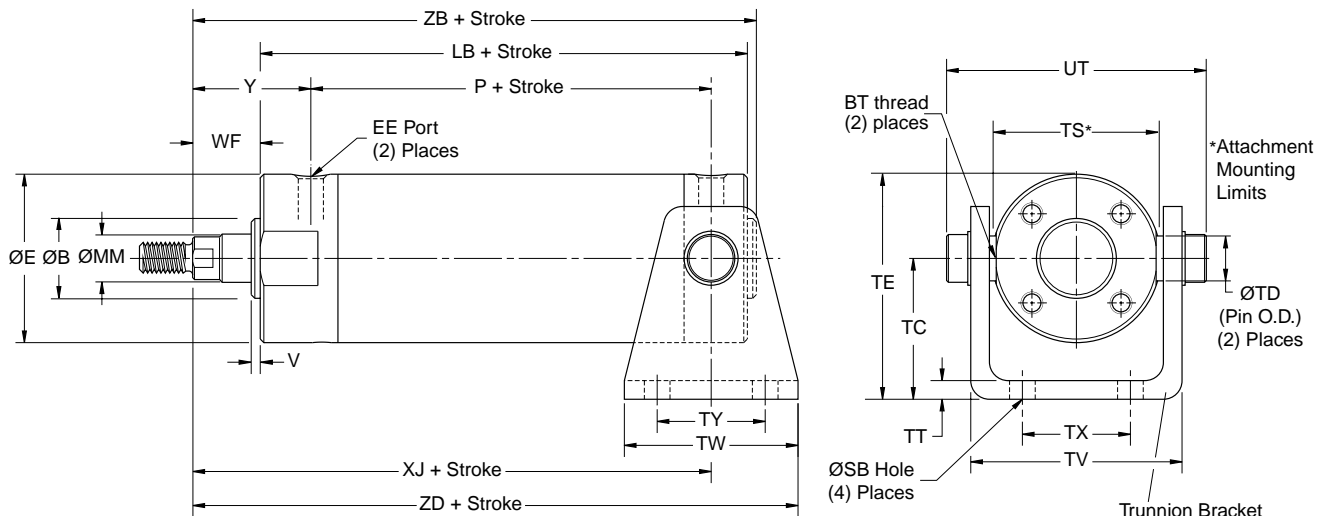
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P

Style D
Rear Trunnion
Typical 20 to 63 mm Bore

D

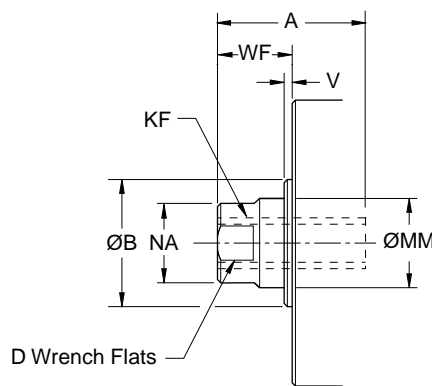
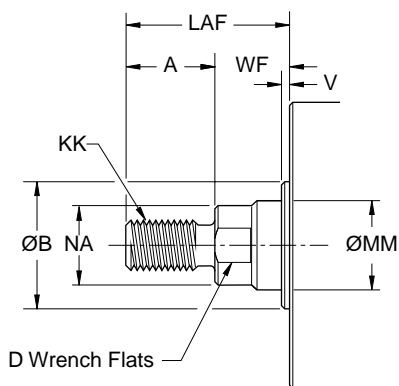


Note: Trunnion Bracket must be ordered as separate item

Rod End Details

MALE THREADS
Inch Male - Style N
Metric Male - Style 5

FEMALE THREADS
Inch Female - Style 9
Metric Female - Style 6



SPECIAL ROD END THREADS

Thread Style 3

Special Metric or Inch threads, extension, blank, etc., are also available. To order, specify "Style 3" and give desired dimensions for KK or KF, A and LAF or WF (length dimensions in millimeters). If otherwise special, supply a dimensioned sketch.



Metric Dimensions – Envelope and Mounting Dimensions (mm)

Bore	A	ØB +0 -0.02	BT	D	ØE	EE (BSPT)	Thread KK Style 5	Thread KF Style 6	LAF	ØMM Rod Dia.	NA	V	WF	Y	ØSB	TC
20	13	12	M5x0.80	6	27	1/8*	M8x1.25	M5x0.80	26	8	–	2	13	28	5.5	25
25	13	14	M6x0.75	8	32	1/8*	M10x1.25	M6x1.00	29	10	–	2	16	30	5.5	30
32	19	18	M8x1.00	10	39	1/8	M10x1.25	M8x1.25	41	12	11	2	22	40	7	35
40	19	25	M10x1.25	12	48.5	1/8	M14x1.5	M8x1.25	41	16	14	2	22	42	7	40
50	22	30	M12x1.25	16	59	1/4	M18x1.5	M10x1.25	52	20	18	2	30	53	9	50
63	22	32	M14x1.50	16	72	1/4	M18x1.5	M10x1.25	52	20	18	2	30	53	11	60

Bore	ØTD e8	TE	TS	TT	TV	TW	TX	TY	UT	Add Stroke				
										LB	P	XJ	ZB	ZD
20	8	38.5	28	3	35	42	16	28	47.5	69	45	70	83	91
25	10	46	33	3	39	42	20	28	53	69	46	73	86	94
32	12	54.5	40	4.5	49	48	22	28	68	71	43	83	95	107
40	14	64	49	4.5	58	56	30	30	79	78	49	90	102	118
50	16	79.5	60	6	72	64	36	36	99	90	53	108	122	140
63	18	96	74	8	90	74	46	46	119	90	52	108	122	145

*Ports are M5 for cushioned versions

Inch Dimensions – Envelope and Mounting Dimensions (inch)

Bore	A	ØB +0 -0.001	BT	D	ØE	EE (NPTF)	Thread KK (UNF) Style N	Thread KF (UNF) Style 9	LAF	ØMM Rod Dia.	NA	V	WF	Y	ØSB	TC
20	0.50	0.472	M5x0.80	0.24	1.06	1/8†	1/4-28	#10-32	1.00	0.315	–	0.08	0.50	1.10	0.22	0.98
25	0.50	0.551	M6x0.75	0.31	1.26	1/8†	5/16-24	1/4-28	1.12	0.394	–	0.08	0.62	1.18	0.22	1.18
32	0.75	0.709	M8x1.00	0.39	1.53	1/8	7/16-20	5/16-24	1.63	0.472	0.43	0.08	0.88	1.57	0.28	1.38
40	0.75	0.984	M10x1.25	0.47	1.91	1/8	7/16-20	3/8-24	1.63	0.630	0.55	0.08	0.88	1.65	0.28	1.57
50	0.88	1.181	M12x1.25	0.63	2.32	1/4	1/2-20	1/2-20	2.07	0.787	0.71	0.08	1.19	2.09	0.35	1.97
63	0.88	1.260	M14x1.50	0.63	2.83	1/4	1/2-20	1/2-20	2.07	0.787	0.71	0.08	1.19	2.09	0.43	2.36

Bore (mm)	ØTD -0.001 -0.002	TE	TS	TT	TV	TW	TX	TY	UT	Add Stroke				
										LB	P	XJ	ZB	ZD
20	0.315	1.51	1.10	0.12	1.39	1.66	0.63	1.10	1.87	2.70	1.77	2.77	3.28	3.60
25	0.394	1.81	1.30	0.12	1.55	1.66	0.79	1.10	2.09	2.70	1.81	2.89	3.40	3.72
32	0.472	2.15	1.58	0.18	1.93	1.88	0.87	1.10	2.67	2.78	1.69	3.27	3.74	4.21
40	0.551	2.53	1.93	0.18	2.28	2.20	1.18	1.18	3.10	3.06	1.93	3.54	4.02	4.64
50	0.630	3.13	2.36	0.25	2.83	2.52	1.42	1.42	3.88	3.53	2.09	4.25	4.80	5.51
63	0.709	3.78	2.91	0.31	3.54	2.91	1.81	1.81	4.69	3.53	2.05	4.25	4.80	5.71

† Ports are 10-32 for cushioned versions



D77

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D

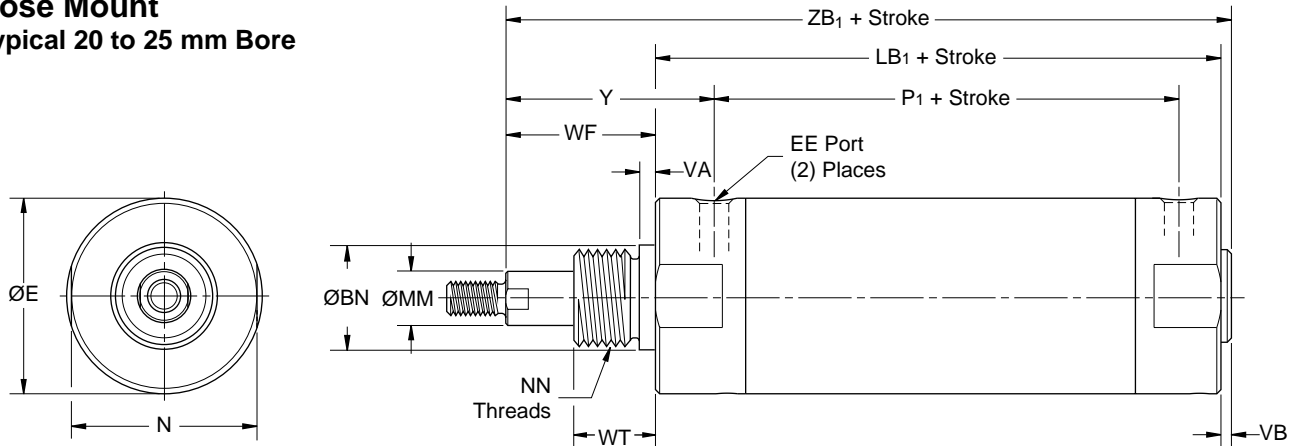
SR/SRM, SRD/SRDM

SRX

P1L

P

Style G
Nose Mount
Typical 20 to 25 mm Bore



Metric Dimensions – Envelope and Mounting Dimensions (mm)

Bore	A	BN +0 -0.08	D	ØE	EE (BSPT)	Thread KK Style 5	Thread KF Style 6	LAF	ØMM Rod Dia.	NN	N	VA	VB	WF	WT	Y	Add Stroke		
																	LB ¹	P ¹	ZB ¹
20	13	19.02	6	27	1/8*	M8x1.25	M5x0.80	35	8	3/4-16	24	3	2	22	16	32	66	47	90
25	13	19.02	8	32	1/8*	M10x1.25	M6x1.00	35	10	3/4-16	29	3	2	22	16	32	66	47	90

* Ports are M5 for cushioned versions

Inch Dimensions – Envelope and Mounting Dimensions (inch)

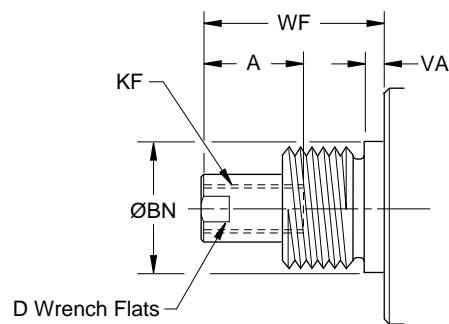
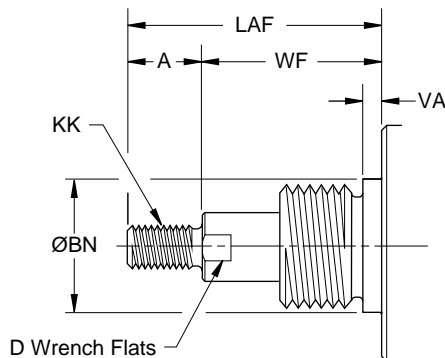
Bore	A	BN +0 -0.003	D	ØE	EE (NPTF)	Thread KK (UNF) Style N	Thread KF (UNF) Style 9	LAF	ØMM Rod Dia.	NN	N	VA	VB	WF	WT	Y	Add Stroke		
																	LB ¹	P ¹	ZB ¹
20	0.50	0.749	0.24	1.06	1/8†	1/4-28	#10-32	1.38	0.315	3/4-16	0.94	0.12	0.08	0.88	0.63	1.25	2.60	1.85	3.56
25	0.50	0.749	0.31	1.26	1/8†	5/16-24	1/4-28	1.38	0.394	3/4-16	1.14	0.12	0.08	0.88	0.63	1.25	2.60	1.85	3.56

† Ports are 10-32 for cushioned versions

Rod End Details – 20 and 25 mm Bore

MALE THREADS
Inch Male - Style N
Metric Male - Style 5

FEMALE THREADS
Inch Female - Style 9
Metric Female - Style 6

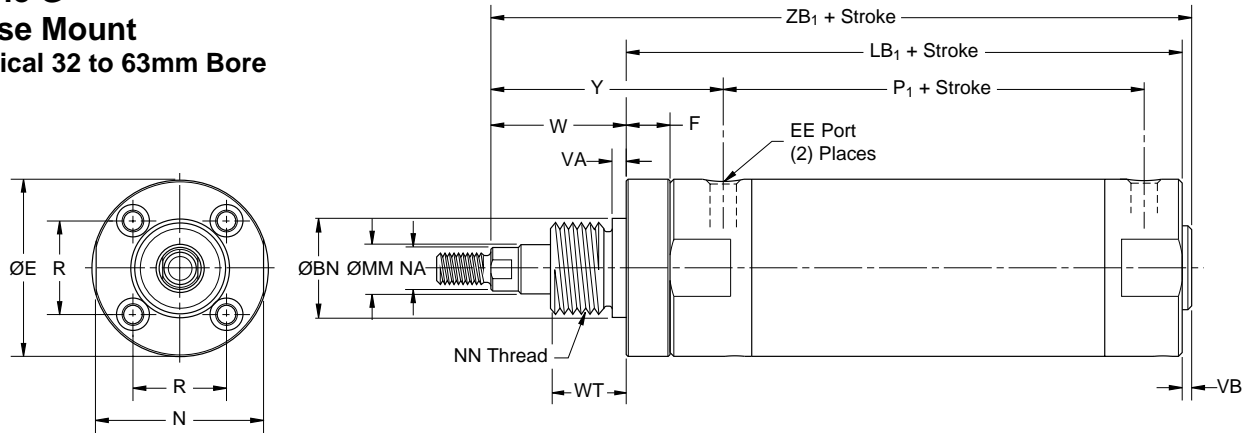


SPECIAL ROD END THREADS

Thread Style 3

Special Metric or Inch threads, extension, blank, etc., are also available. To order, specify "Style 3" and give desired dimensions for KK or KF, A and LAF or WF (length dimensions in millimeters). If otherwise special, supply a dimensioned sketch.

Style G
Nose Mount
Typical 32 to 63mm Bore



Metric Dimensions – Envelope and Mounting Dimensions (mm)

Bore	A	BN +0 -0.8	D	ØE	EE* (BSPT)	F	Thread KK Style 5	Thread KF Style 6	LA	ØMM Rod Dia.	NN	N	NA	R	VA	VB	W	WT	Y	Add Stroke		
																				LB ¹	P ¹	ZB ¹
32	19	19.02	10	39	1/8	9	M10x1.25	M8x1.25	41	12	3/4-16	36	11	20	3	2	22	16	49	80	43	104
40	19	26.87	12	48.5	1/8	14	M14x1.5	M8x1.25	51	16	1-14	44	14	26	5	2	32	22	66	92	49	126
50	22	34.90	16	59	1/4	15	M18x1.5	M10x1.25	52	20	1-1/4-12	55	18	32	3	2	30	20.5	68	105	53	137
63	22	38.10	16	72	1/4	16	M18x1.5	M10x1.25	52	20	1-3/8-12	69	18	38	3	2	30	20.5	70	106	52	139

* See Inch Dimensions for NPTF Port Size.

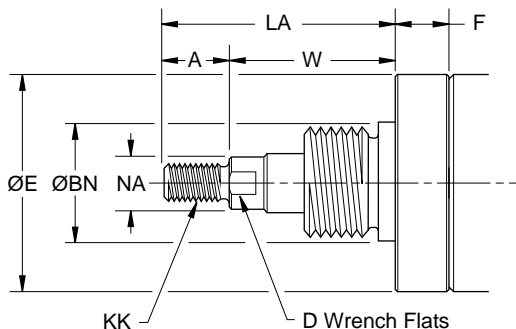
Inch Dimensions – Envelope and Mounting Dimensions (inch)

Bore (mm)	A	BN +0 -0.003	D	ØE	EE* (NPTF)	F	Thread KK (UNF) Style N	Thread KF (UNF) Style 9	LA	ØMM Rod Dia.	NN	N	NA	R	VA	VB	W	WT	Y	Add Stroke		
																				LB ¹	P ¹	ZB ¹
32	0.75	0.749	0.39	1.53	1/8	0.37	7/16-20	5/16-24	1.63	0.472	3/4-16	1.42	0.43	0.79	0.12	0.08	0.88	0.63	1.93	3.15	1.69	4.11
40	0.75	1.058	0.47	1.91	1/8	0.56	7/16-20	3/8-24	2.00	0.630	1-14	1.73	0.55	1.02	0.19	0.08	1.25	0.88	2.60	3.62	1.93	4.95
50	0.88	1.374	0.63	2.32	1/4	0.59	1/2-20	1/2-20	2.07	0.787	1-1/4-12	2.17	0.71	1.26	0.12	0.08	1.19	0.81	2.68	4.12	2.09	5.39
63	0.88	1.500	0.63	2.83	1/4	0.63	1/2-20	1/2-20	2.07	0.787	1-3/8-12	2.72	0.71	1.50	0.12	0.08	1.19	0.81	2.76	4.19	2.05	5.46

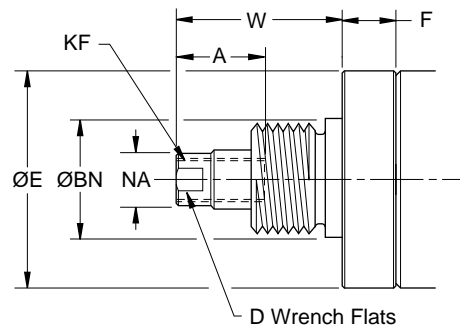
* See Metric Dimensions for BSPT Port Size.

Rod End Details – 32 and 63 mm Bore

MALE THREADS
Inch Male - Style N
Metric Male - Style 5



FEMALE THREADS
Inch Female - Style 9
Metric Female - Style 6



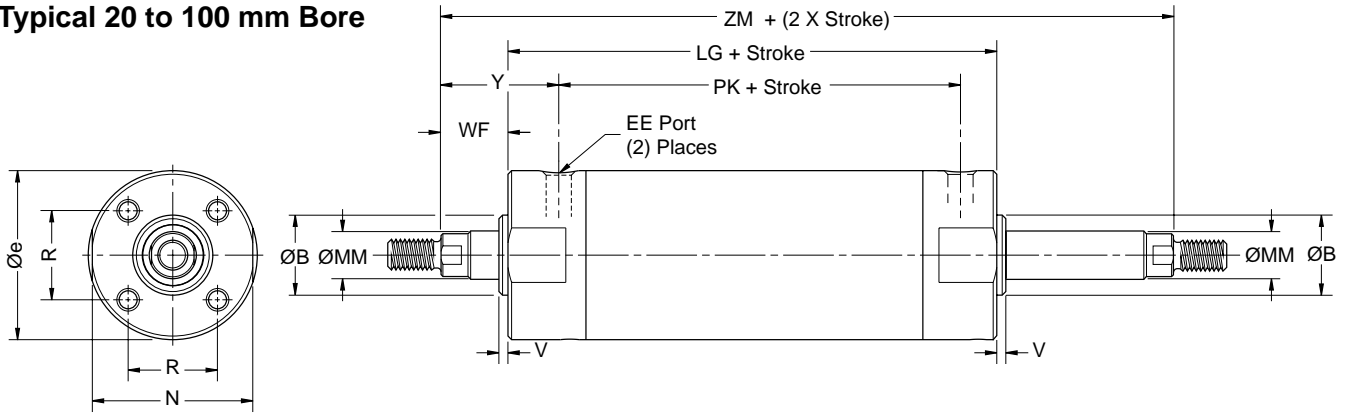
SPECIAL ROD END THREADS

Thread Style 3

Special Metric or Inch threads, extension, blank, etc., are also available. To order, specify "Style 3" and give desired dimensions for KK or KF, A and LAF or WF (Note: LAF = LA+F and WF = W+F) (length dimensions in millimeters). If otherwise special, supply a dimensioned sketch.

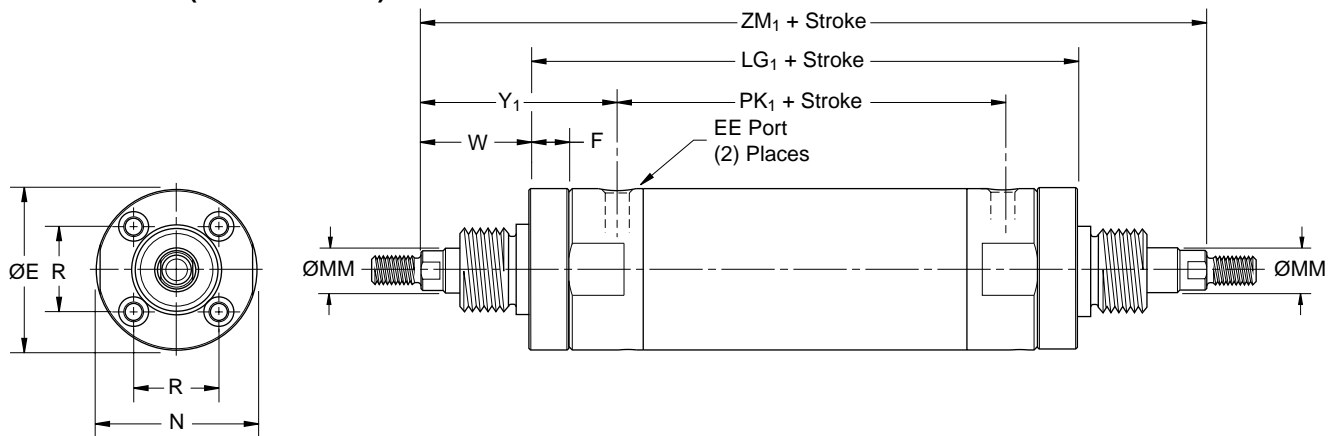


**Double-Rod
Typical 20 to 100 mm Bore**



D

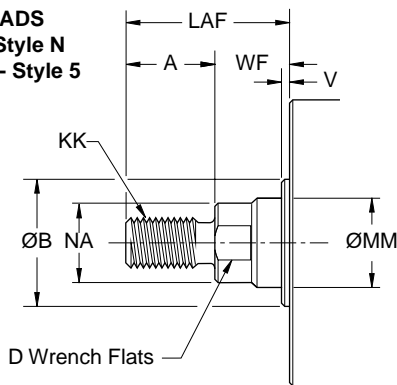
**Double-Rod
Nose Mount (32-63mm bore)**



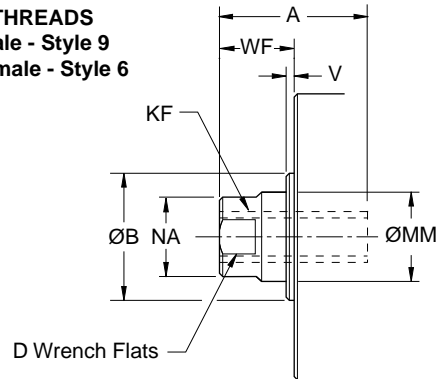
For detailed dimensions for the nose mount from 20 to 63 mm bore, please refer to pages D78 and 2D793.

Rod End Details

MALE THREADS
Inch Male - Style N
Metric Male - Style 5



FEMALE THREADS
Inch Female - Style 9
Metric Female - Style 6



SPECIAL ROD END THREADS

Thread Style 3

Special Metric or Inch threads, extension, blank, etc., are also available. To order, specify "Style 3" and give desired dimensions for KK or KF, A and LAF or WF (length dimensions in millimeters). If otherwise special, supply a dimensioned sketch.

When two rod ends are different on double rod cylinder, please clearly indicate what rod end should be provided on which end of the cylinder, or provide a sketch.



Metric Dimensions – Envelope and Mounting Dimensions (mm)

Bore	A	ØB +0 -0.02	D	ØE	F	EE (BSPT)	Thread KK Style 5	Thread KF Style 6	LAF	ØMM Rod Dia.	N	NA	R	V	W	WF
20	13	12	6	27	–	1/8*	M8x1.25	M5x0.80	26	8	24	–	14	2	–	13
25	13	14	8	32	–	1/8*	M10x1.25	M6x1.00	29	10	29	–	16.5	2	–	16
32	19	18	10	39	9	1/8	M10x1.25	M8x1.25	41	12	36	11	20	2	22	22
40	19	25	12	48.5	14	1/8	M14x1.5	M8x1.25	41	16	44	14	26	2	32	22
50	22	30	16	59	15	1/4	M18x1.5	M10x1.25	52	20	55	18	32	2	30	30
63	22	32	16	72	17	1/4	M18x 1.5	M10x1.25	52	20	69	18	38	2	30	30
80	38	40	20	90	–	3/8	M22 x1.5	M16x1.5	69	25	86	23	50	3	–	31
100	48	50	26	110	–	1/2	M26x1.5	M20x1.5	79	32	106	30	60	3	–	31

Bore	Y	Y ¹	Add Stroke					
			LG	LG ¹	PK	PK ¹	ZM	ZM ¹
20	28	32	75	70	45	50	101	95
25	30	32	75	70	47	50	107	101
32	40	49	78	97	42	42	122	141
40	42	66	87	115	47	47	131	179
50	53	68	100	130	54	54	160	190
63	53	70	100	133	54	54	160	194
80	59	–	119	–	61	–	181	–
100	57	–	119	–	65	–	181	–

* Ports are M5 for cushioned versions

INCH DIMENSIONS - Envelope and Mounting Dimensions (inch)

Bore (mm)	A	ØB +0 -0.001	D	ØE	F	EE (NPTF)	Thread KK (UNF) Style N	Thread KF (UNF) Style 9	LAF	ØMM Rod Dia.	N	NA	R	V	W	WF
20	0.50	0.472	0.24	1.06	–	1/8†	1/4-28	#10-32	1.00	0.315	0.94	–	0.55	0.08	–	0.50
25	0.50	0.551	0.31	1.26	–	1/8†	5/16-24	1/4-28	1.12	0.394	1.14	–	0.65	0.08	–	0.62
32	0.75	0.709	0.39	1.53	0.37	1/8	7/16-20	5/16-24	1.63	0.472	1.42	0.43	0.79	0.08	0.88	0.88
40	0.75	0.984	0.47	1.91	0.56	1/8	7/16-20	3/8-24	1.63	0.630	1.73	0.55	1.02	0.08	1.25	0.88
50	0.88	1.181	0.63	2.32	0.59	1/4	1/2-20	1/2-20	2.07	0.787	2.17	0.71	1.26	0.08	1.19	1.19
63	0.88	1.260	0.63	2.83	0.66	1/4	1/2-20	1/2-20	2.07	0.787	2.72	0.71	1.50	0.08	1.19	1.19
80	1.50	1.575	0.79	3.54	–	3/8	3/4-16	5/8-18	2.72	0.984	3.39	0.91	1.97	0.12	–	1.22
100	1.88	1.968	1.02	4.33	–	1/2	1-14	3/4-16	3.11	1.260	4.17	1.18	2.36	0.12	–	1.22

Bore (mm)	Y	Y ¹	Add Stroke					
			LG	LG ¹	PK	PK ¹	ZM	ZM ¹
20	1.10	1.25	2.97	2.74	1.77	1.97	3.97	3.74
25	1.18	1.25	2.97	2.74	1.85	1.97	4.21	3.98
32	1.57	1.93	3.06	3.80	1.65	1.65	4.82	5.56
40	1.65	2.60	3.41	4.53	1.85	1.85	5.17	7.03
50	2.09	2.68	3.93	5.11	2.13	2.13	6.31	7.49
63	2.09	2.76	3.93	5.25	2.13	2.13	6.31	7.63
80	2.32	–	4.70	–	2.40	–	7.14	–
100	2.24	–	4.70	–	2.56	–	7.14	–

† Ports are 10-32 for cushioned versions



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D

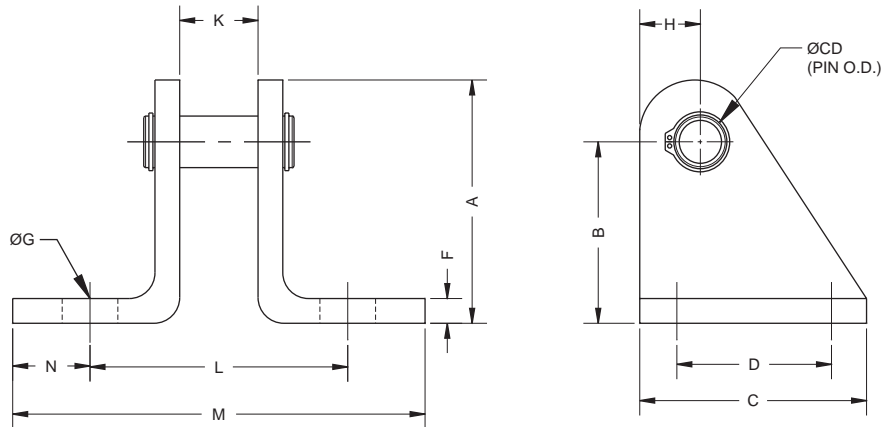
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SRX

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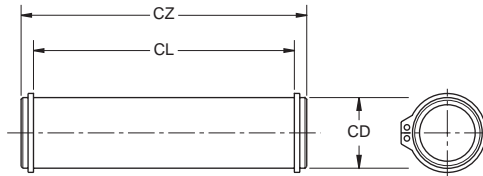
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Single Clevis Brackets



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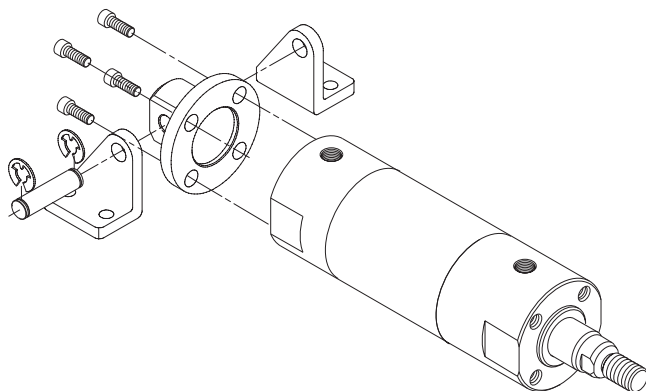
Single Clevis Pin



Note :
 Two snap rings shown are included with the pivot pin.
 Order clevis bracket separately.

Single Clevis Kit Assembly Instructions

Align the rear clevis with the port location as desired. Insert the four (4) screws through the bracket and thread them into the end caps until they are hand tight. Torque the screws to the values listed in the table below.
 Single Clevis Kit, bracket and pivot pin are ordered separately.
 Please see next page for part numbers.



Bore	Fastener Size		Torque	
20	8-32	M4x0.7	10-12 in-lbs	1.1-1.4 Nm
25	10-32	M5x0.8	12-14 in-lbs	1.4-1.6 Nm
32	10-32	M5x0.8	12-14 in-lbs	1.4-1.6 Nm
40	1/4-28	M6x1	32-36 in-lbs	3.6-4.1 Nm
50	5/16-24	M8x1.25	72-82 in-lbs	8.1-9.3 Nm
63	3/8-24	M10x1.5	18-19 ft-lbs	24-26 Nm
80	3/8-24	M10x1.5	18-19 ft-lbs	24-26 Nm
100	1/2-20	M12x1.75	40-44 ft-lbs	54-60 Nm

Single Clevis Brackets

Metric Dimensions (mm)

Part Number	Bore	A	B	C	ØCD _{h9}	D	F	ØG	H	K	L	M	N
L077520075	20	30	22	29	6.35	19	3	7	8	10	32	51	9
L077520075	25	30	22	29	6.35	19	3	7	8	10	32	51	9
L077520125	32	30	22	29	6.35	19	3	7	8	13	35	54	9
L077520150	40	44	35	38	9.52	25	3	7	9	16	47	67	10
L077520200	50	44	35	38	9.52	25	6	7	9	19	54	76	11
L077520250	63	54	44	38	9.52	25	6	7	9	19	54	76	11
L077520312	80	70	51	64	19.07	38	6	11	19	28	72	104	16
L077520400	100	79	60	70	19.07	44	6	14	19	32	76	108	16

Imperial Dimensions (Inch)

Part Number	Bore (mm)	A	B	C	ØCD _{+0 -0.002}	D	F	ØG	H	K	L	M	N
L077520075	20	1.17	0.87	1.13	0.250	0.75	0.12	0.27	0.30	0.38	1.25	2.00	0.37
L077520075	25	1.17	0.87	1.13	0.250	0.75	0.12	0.27	0.30	0.38	1.25	2.00	0.37
L077520125	32	1.17	0.87	1.13	0.250	0.75	0.12	0.27	0.30	0.50	1.38	2.12	0.37
L077520150	40	1.75	1.38	1.50	0.375	1.00	0.12	0.27	0.37	0.62	1.86	2.62	0.38
L077520200	50	1.75	1.38	1.50	0.375	1.00	0.25	0.27	0.37	0.75	2.12	3.00	0.44
L077520250	63	2.12	1.75	1.50	0.375	1.00	0.25	0.27	0.37	0.75	2.12	3.00	0.44
L077520312	80	2.75	2.00	2.50	0.751	1.50	0.25	0.42	0.75	1.09	2.84	4.09	0.62
L077520400	100	3.12	2.37	2.75	0.751	1.75	0.25	0.55	0.75	1.25	3.00	4.25	0.62

Single Clevis Pins

Metric Dimensions (mm)

Part Number	Bore	ØCD _{h9}	CL	CZ
L077490075	20	6.35	16	22
L077490075	25	6.35	16	22
L077490125	32	6.35	19	25
L077490150	40	9.52	23	29
L077490200	50	9.52	32	39
L077490200	63	9.52	32	39
L077490312	80	19.07	41	51
L077490400	100	19.07	45	55

Imperial Dimensions (Inch)

Part Number	Bore	ØCD _{+0 -0.002}	CL	CZ
L077490075	20	0.250	0.63	0.85
L077490075	25	0.250	0.63	0.85
L077490125	32	0.250	0.76	0.97
L077490150	40	0.375	0.89	1.15
L077490200	50	0.375	1.27	1.53
L077490200	63	0.375	1.27	1.53
L077490312	80	0.751	1.63	2.00
L077490400	100	0.751	1.79	2.16



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SR/SRM, SRD/SRDM

SRX

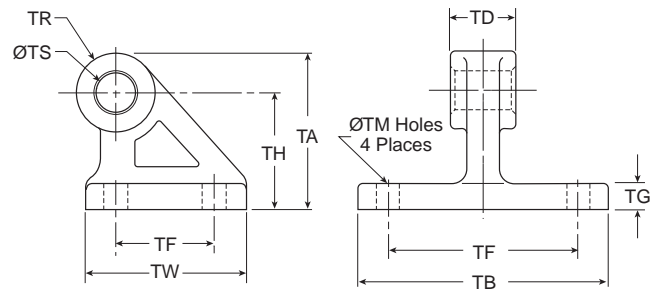
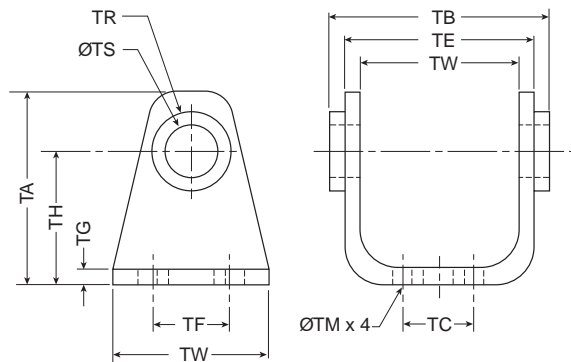
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Double Clevis Brackets

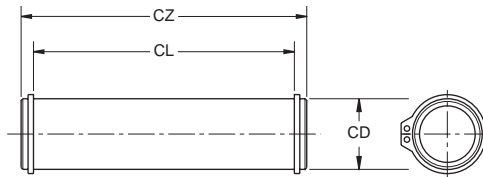
20-63 mm Bore Double Clevis Bracket

80-100 mm Bore Double Clevis Bracket



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Double Clevis Pin

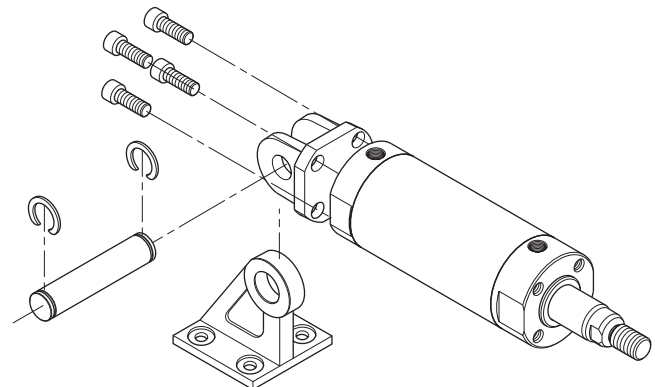
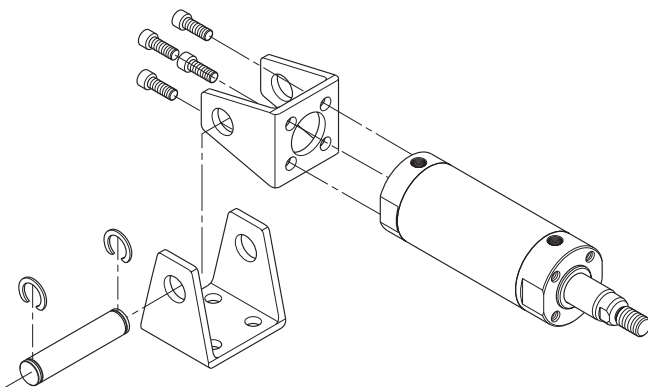


Note:

Two snap rings shown are included with the pivot pin.
 Order clevis bracket separately.

Double Clevis 20-63 mm Bore

Double Clevis 80-100 mm Bore



Double Clevis Kit Assembly Instructions

Align the rear clevis with the port location as desired.
 Insert the four (4) screws through the bracket and thread them into the end caps until they are hand tight. Torque the screws to the values listed in the table beside.
 Double Clevis Kit, bracket and pivot pin are ordered separately. Please see next page for part numbers.

Bore	Fastener Size		Torque	
20	8-32	M4x0.7	10-12 in-lbs	1.1-1.4 Nm
25	10-32	M5x0.8	12-14 in-lbs	1.4-1.6 Nm
32	10-32	M5x0.8	12-14 in-lbs	1.4-1.6 Nm
40	1/4-28	M6x1	32-36 in-lbs	3.6-4.1 Nm
50	5/16-24	M8x1.25	72-82 in-lbs	8.1-9.3 Nm
63	3/8-24	M10x1.5	18-19 ft-lbs	24-26 Nm
80	3/8-24	M10x1.5	18-19 ft-lbs	24-26 Nm
100	1/2-20	M12x1.75	40-44 ft-lbs	54-60 Nm

Double Clevis Brackets

Metric Dimensions (mm)

Part Number	Bore	TA	TB	TC	TD	TE	TF	TG	TH	TM	TR	TS ⁴⁹	TW
L077510020	20	36	38	16	29	35	28	3	25	5.5	13	8	42
L077510025	25	43	42	20	33	39	28	3	30	5.5	15	10	42
L077510032	32	50	53.4	22	40	49	28	4.5	35	7	17	12	48
L077510040	40	58	64.4	30	49	58	30	4.5	40	7	21	14	56
L077510050	50	70	78.8	36	60	72	36	6	50	9	24	16	64
L077510063	63	82	96.6	46	74	90	46	8	60	11	26	18	74
L077510080	80	73	110	85	28	110	45	11	55	11	36	18	72
L077510100	100	90	130	100	32	130	60	12	65	13.5	50	22	93

Imperial Dimensions (Inch)

Part Number	Bore	TA	TB	TC	TD	TE	TF	TG	TH	TM	TR	TS ⁴⁹ +0.002, -0	TW
L077510020	20	1.42	1.50	0.63	1.14	1.39	1.10	0.12	0.98	0.22	0.51	0.315	1.66
L077510025	25	1.69	1.65	0.79	1.30	1.55	1.10	0.12	1.18	0.22	0.59	0.394	1.66
L077510032	32	1.97	2.10	0.87	1.57	1.93	1.10	0.18	1.38	0.28	0.67	0.472	1.88
L077510040	40	2.28	2.53	1.18	1.93	2.28	1.18	0.18	1.57	0.28	0.83	0.551	2.20
L077510050	50	2.76	3.10	1.42	2.36	2.83	1.42	0.25	1.97	0.35	0.94	0.630	2.52
L077510063	63	3.23	3.80	1.81	2.91	3.54	1.81	0.31	2.36	0.43	1.02	0.709	2.91
L077510080	80	2.87	4.33	3.35	1.10	4.33	1.77	0.43	2.17	0.43	1.42	0.709	2.83
L077510100	100	3.54	5.12	3.94	1.26	5.12	2.36	0.47	2.56	0.53	1.97	0.866	3.66

Double Clevis Pins

Metric Dimensions (mm)

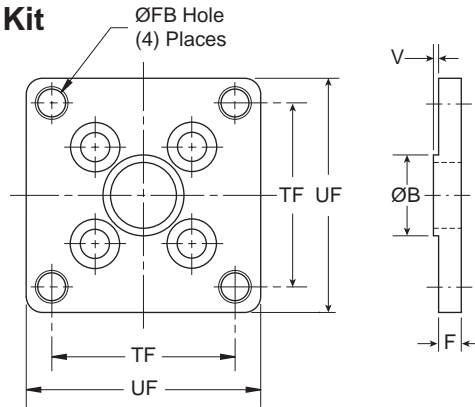
Part Number	Bore	∅CD ^{d9}	CL	CZ
L077500020	20	8	38.6	43.4
L077500025	25	10	42.6	48
L077500032	32	12	54	59.4
L077500040	40	14	65	71.4
L077500050	50	16	79.6	86
L077500063	63	18	97.8	105.4
L077500080	80	18	56.2	64
L077500100	100	22	64.2	72

Imperial Dimensions (Inch)

Part Number	Bore	∅CD ^{-0.001 -0.003}	CL	CZ
L077500020	20	0.315	1.52	1.71
L077500025	25	0.394	1.68	1.89
L077500032	32	0.472	2.12	2.34
L077500040	40	0.551	2.56	2.81
L077500050	50	0.630	3.13	3.38
L077500063	63	0.709	3.85	4.15
L077500080	80	0.709	2.21	2.52
L077500100	100	0.866	2.53	2.83



Front or Rear Flange Mount Kit



Metric Dimensions (mm)

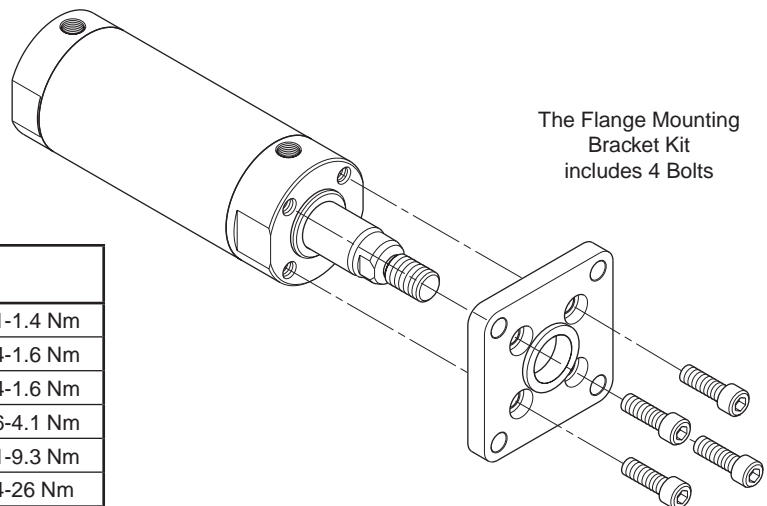
Part Number	Bore	ØB ⁺⁰ / _{-0.02}	F	FB	UF	TF	V
L077560020	20	12	6	5.5	40	28	2
L077560025	25	14	7	5.5	44	32	2
L077560032	32	18	7	7	53	38	2
L077560040	40	25	8	7	61	46	2
L077560050	50	30	9	9	76	58	2
L077560063	63	32	9	11	92	70	2
L077560080	80	40	11	11	104	82	3
L077560100	100	50	14	14	128	100	3

Imperial Dimensions (Inch)

Part Number	Bore	ØB ⁺⁰ / _{-0.001}	F	FB	UF	TF	V
L077450075	20	0.472	0.24	0.22	1.57	1.10	0.08
L077450100	25	0.551	0.28	0.22	1.73	1.26	0.08
L077450125	32	0.709	0.28	0.28	2.09	1.50	0.08
L077450150	40	0.984	0.31	0.28	2.40	1.81	0.08
L077450200	50	1.181	0.35	0.35	3.00	2.28	0.08
L077450250	63	1.260	0.35	0.43	3.62	2.76	0.08
L077450312	80	1.575	0.43	0.43	4.09	3.23	0.12
L077450400	100	1.968	0.55	0.55	5.04	3.94	0.12

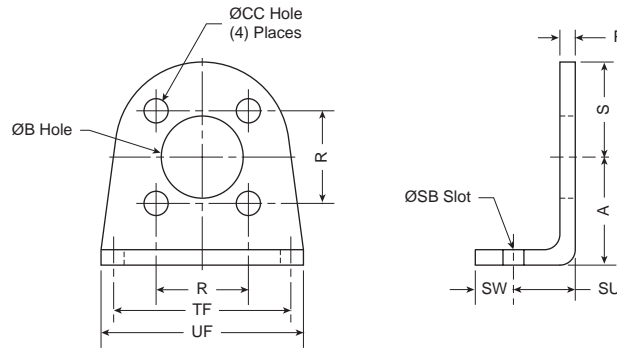
**Flange Mount Kit
 Installation Instructions**

Insert the four (4) screws through the nose mount or the flange mounts and thread them into the cylinder head or cap until they are hand tight. Torque the screws to the values listed in the table below.



Bore Size	Fastener Size		Torque	
20	8-32	M4x0.7	10-12 in-lbs	1.1-1.4 Nm
25	10-32	M5x0.8	12-14 in-lbs	1.4-1.6 Nm
32	10-32	M5x0.8	12-14 in-lbs	1.4-1.6 Nm
40	1/4-28	M6x1	32-36 in-lbs	3.6-4.1 Nm
50	5/16-24	M8x1.25	72-82 in-lbs	8.1-9.3 Nm
63	3/8-24	M10x1.5	18-19 ft-lbs	24-26 Nm
80	3/8-24	M10x1.5	18-19 ft-lbs	24-26 Nm
100	1/2-20	M12x1.75	40-44 ft-lbs	54-60 Nm

Foot Mount Bracket



Metric Dimensions (mm)

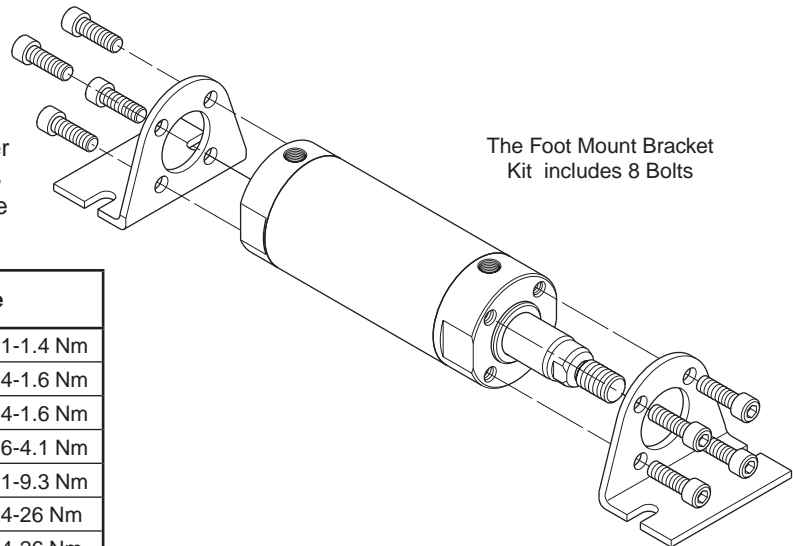
Part Number	Bore	A	ØB ^{+0.15} ₋₀	ØCC	P	R	S	ØSB	SU	SW	TF	UF
L077550020	20	20.6	12.2	5.00	3	14	16	7	14	11	38	48
L077550025	25	20.6	14.2	5.80	3	16.5	18	7	14	11	38	48
L077550032	32	25.4	18.2	5.80	3	20	21	7	19	19	48	63.5
L077550040	40	25.4	25.2	7.50	3	26	26	7	18	20	48	63.5
L077550050	50	38.1	30.2	9.00	6	32	34	9	25	16	57	79
L077550063	63	44.5	32.2	11.50	6	38	39	9	25	16	73	95
L077550080	80	55	40.2	11.50	6	50	46	11	28.5	14	100	125
L077550100	100	65	50.2	14.50	6	60	56	14	30	16	120	150

Imperial Dimensions (inch)

Part Number	Bore	A	ØB ^{+0.006} ₋₀	ØCC	P	R	S	ØSB	SU	SW	TF	UF
L077440075	20	0.81	0.480	0.20	0.12	0.55	0.63	0.27	0.56	0.44	1.50	1.88
L077440100	25	0.81	0.559	0.23	0.12	0.65	0.71	0.27	0.56	0.44	1.50	1.88
L077440125	32	1.00	0.717	0.23	0.12	0.79	0.83	0.28	0.75	0.75	1.88	2.50
L077440150	40	1.00	0.992	0.30	0.12	1.02	1.02	0.28	0.72	0.78	1.88	2.50
L077440200	50	1.50	1.189	0.35	0.25	1.26	1.34	0.34	1.00	0.62	2.24	3.12
L077440250	63	1.75	1.268	0.45	0.25	1.50	1.54	0.34	1.00	0.62	2.88	3.75
L077440312	80	2.17	1.583	0.45	0.25	1.97	1.81	0.43	1.12	0.55	3.94	4.92
L077440400	100	2.56	1.976	0.57	0.25	2.36	2.20	0.55	1.18	0.63	4.72	5.91

**Foot Mount Kit
 Assembly Instructions**

Align each of the foot brackets with the port location as desired. Insert the four (4) screws through the foot mounts and thread them into the end caps until they are hand tight. Place the cylinder assembly on to a flat surface and torque the screws to the values listed in the table below. Make sure the foot mounts rest properly on a flat surface.



The Foot Mount Bracket Kit includes 8 Bolts

Bore Size	Fastener Size		Torque	
20	8-32	M4x0.7	10-12 in-lbs	1.1-1.4 Nm
25	10-32	M5x0.8	12-14 in-lbs	1.4-1.6 Nm
32	10-32	M5x0.8	12-14 in-lbs	1.4-1.6 Nm
40	1/4-28	M6x1	32-36 in-lbs	3.6-4.1 Nm
50	5/16-24	M8x1.25	72-82 in-lbs	8.1-9.3 Nm
63	3/8-24	M10x1.5	18-19 ft-lbs	24-26 Nm
80	3/8-24	M10x1.5	18-19 ft-lbs	24-26 Nm
100	1/2-20	M12x1.75	40-44 ft-lbs	54-60 Nm



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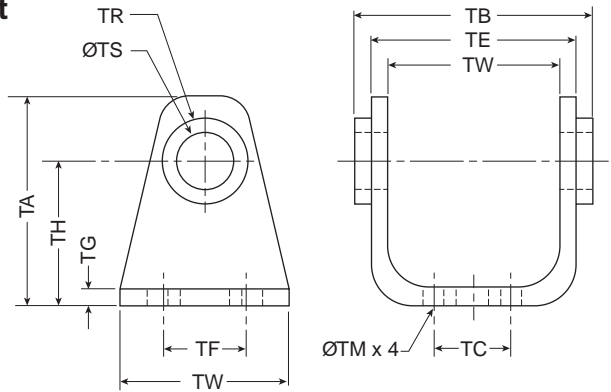
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Trunnion Mount Bracket



Metric Dimensions (mm)

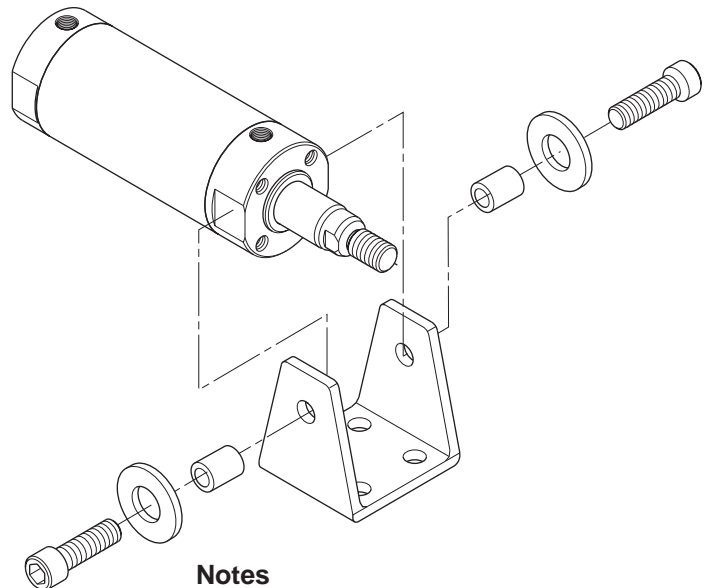
Part Number	Bore	TA	TB	TC	TD	TE	TF	TG	TH	TM	TR	TS H9	TW
L077510020	20	36	38	16	29	35	28	3	25	5.5	13	8	42
L077510025	25	43	42	20	33	39	28	3	30	5.5	15	10	42
L077510032	32	50	53.4	22	40	49	28	4.5	35	7	17	12	48
L077510040	40	58	64.4	30	49	58	30	4.5	40	7	21	14	56
L077510050	50	70	78.8	36	60	72	36	6	50	9	24	16	64
L077510063	63	82	96.6	46	74	90	46	8	60	11	26	18	74

Imperial Dimensions (Inch)

Part Number	Bore	TA	TB	TC	TD	TE	TF	TG	TH	TM	TR	TS ^{+0.002} ₀	TW
L077510020	20	1.42	1.50	0.63	1.14	1.39	1.10	0.12	0.98	0.22	0.51	0.315	1.66
L077510025	25	1.69	1.65	0.79	1.30	1.55	1.10	0.12	1.18	0.22	0.59	0.394	1.66
L077510032	32	1.97	2.10	0.87	1.57	1.93	1.10	0.18	1.38	0.28	0.67	0.472	1.88
L077510040	40	2.28	2.53	1.18	1.93	2.28	1.18	0.18	1.57	0.28	0.83	0.551	2.20
L077510050	50	2.76	3.10	1.42	2.36	2.83	1.42	0.25	1.97	0.35	0.94	0.630	2.52
L077510063	63	3.23	3.80	1.81	2.91	3.54	1.81	0.31	2.36	0.43	1.02	0.709	2.91

**Trunnion Mount
 Assembly Instructions**

Align the bracket on the machine member providing cylinder rotation as desired. Securely mount the bracket to the machine member. Align the cylinder head or cap with the bracket. Insert the bearing, washer and pivot bolt on to each side of the cylinder as shown. Torque the pivot bolts to the values listed in the table below. Use only bolts provided, as they have a special adhesive coating for secure fastening.

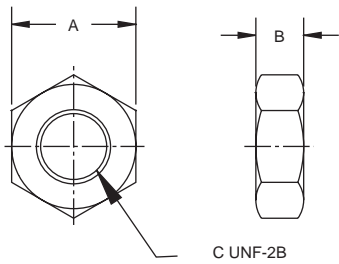


Bore Size	Trunnion Pivot Bolt	Torque	
		in-lbs	Nm
20	M5x0.8	12-14	1.4-1.6
25	M6x0.75	32-36	3.6-4.1
32	M8x1	72-82	8.1-9.3
40	M10x1.25	18-19	24-26
50	M12x1.25	40-44	54-60
63	M14x1.5	70-74	95-100

Notes

Order trunnion mounts by specifying "E" for front trunnion or "D" for rear trunnion in the "Mounting Style" digit of the model code. The bearings, washers and pivot bolts will be supplied with the cylinder. The trunnion bracket must be ordered as a separate item, using the part numbers shown above.

Rod Jam Nut



Rod Jam Nut should be ordered separately on all mounting styles

Rod Jam Nut Dimensions

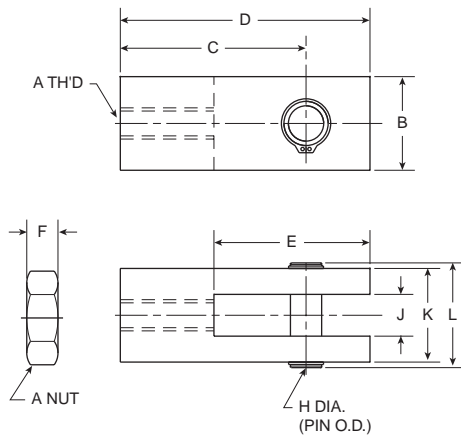
Metric Dimensions (mm)

Part Number	Bore	A	B	C
L075540008	20	13	4	M8 x 1.25
L075540010	25-32	17	5	M10 x 1.25
L075540014	40	22	7	M14 x 1.5
L075540018	50-63	27	8	M18 x 1.5
L075540022	80	32	11	M22 x 1.5
L075540026	100	41	16	M26 x 1.5

Imperial Dimensions (inch)

Part Number	Bore	A	B	C
L077970025	20	0.44	0.16	1/4-28
L077970031	25	0.50	0.19	5/16-24
L077970044	32-40	0.69	0.25	7/16-20
L077970050	50-63	0.75	0.31	1/2-20
L077970075	80	1.12	0.42	3/4 -16
L077970100	100	1.50	0.55	1-14

Piston Rod Clevis



Piston Rod Clevis Dimensions

Metric Dimensions (mm)

Part Number	Bore	A	B	C	D	E	F	H h9	J	K	L
L077590020	20	M8x1.25	13	24	30	18	4	6.35	6.5	13	17.5
L077590025	25	M10x1.25	19	24	30	18	5	6.35	6.5	19	24.5
L077590032	32	M10x1.25	19	34	43	24	5	9.52	10	19	26
L077590040	40	M14x1.5	19	34	43	24	7	9.52	10	19	26
L077590050	50	M18x1.5	28	34	43	24	8	9.52	10	28	36
L077590050	63	M18x1.5	28	34	43	24	8	9.52	10	28	36
PIM-4PRC	80	M22x1.5	38	50	71	48	11	18	28	56	64
L077590100	100	M26x1.5	44	55	79	55	16	22	32	63.5	72

Imperial Dimensions (inch)

Part Number	Bore	A	B	C	D	E	F	H ⁺⁰ / _{-0.002}	J	K	L
L077960025	20	1/4-28	0.50	0.94	1.19	0.69	0.16	0.250	0.26	0.50	0.69
L077960031	25	5/16-24	0.50	0.94	1.19	0.69	0.19	0.250	0.26	0.50	0.69
L077960044	32	7/16-20	0.75	1.32	1.69	0.94	0.25	0.375	0.38	0.75	1.03
L077960044	40	7/16-20	0.75	1.32	1.69	0.94	0.25	0.375	0.38	0.75	1.03
L077960050	50	1/2-20	0.75	1.32	1.69	0.94	0.31	0.375	0.38	0.75	1.03
L077960050	63	1/2-20	0.75	1.32	1.69	0.94	0.31	0.375	0.38	0.75	1.03
L077960075	80	3/4-16	1.25	1.81	2.38	1.31	0.42	0.437	0.52	1.25	1.66
L077960100	100	1-14	1.50	2.63	3.38	1.81	0.55	0.500	0.64	1.50	1.91



How to Order P1L Mounting Kits as a Separate Item

Bore Size	Foot Mounting		Flange	
	Inch	Metric	Inch	Metric
20	L077440075	L077550020	L077450075	L077560020
25	L077440100	L077550025	L077450100	L077560025
32	L077440125	L077550032	L077450125	L077560032
40	L077440150	L077550040	L077450150	L077560040
50	L077440200	L077550050	L077450200	L077560050
63	L077440250	L077550063	L077450250	L077560063
80	L077440312	L077550080	L077450312	L077560080
100	L077440400	L077550100	L077450400	L077560100

Bore Size	Single Clevis		Double Clevis		Single Clevis Pin	Double Clevis Pin
	Inch	Metric	Inch	Metric		
20	L077470075	L077570020	L077480075	L077580020	L077490075	L077500020
25	L077470100	L077570025	L077480100	L077580025	L077490075	L077500025
32	L077470125	L077570032	L077480125	L077580032	L077490125	L077500032
40	L077470150	L077570040	L077480150	L077580040	L077490150	L077500040
50	L077470200	L077570050	L077480200	L077580050	L077490200	L077500050
63	L077470250	L077570063	L077480250	L077580063	L077490200	L077500063
80	L077470312	L077570080	L077480312	L077580080	L077490312	L077500080
100	L077470400	L077570100	L077480400	L077580100	L077490400	L077500100

Notes :

- "Inch" mounting kits include inch threaded bolts, while "Metric" mounting kits include metric threaded bolts. Please verify that the kit style matches the cylinder Construction type (code "N" or "M") for which it is intended.
- Clevis pins may be used for either Inch or Metric mounting kits.

Mounting Brackets and Rod End Accessories

Bore Size	Trunnion/ Double Clevis Bracket	Single Clevis Bracket	Piston Rod Clevis		Rod Jam Nut	
			Inch	Metric	Inch	Metric
20	L077510020	L077520075	L077960025	L077590020	L077970025	L075540008
25	L077510025	L077520075	L077960031	L077590025	L077970031	L075540010
32	L077510032	L077520125	L077960044	L077590032	L077970044	L075540010
40	L077510040	L077520150	L077960044	L077590040	L077970044	L075540014
50	L077510050	L077520200	L077960050	L077590050	L077970050	L075540018
63	L077510063	L077520250	L077960050	L077590050	L077970050	L075540018
80	L077510080	L077520312	L077960075	PIM-4PRC	L077970075	L075540022
100	L077510100	L077520400	L077960100	L077590100	L077970100	L075540026

Service Kits

Bore Size	Single Rod Cylinder Repair Kits		Double Rod Cylinder Repair Kits	
	Consisting of: 1 ea. Symbol #5, 7, 12, & 2 ea. Symbol #1, 8 11, 14		Consisting of: 1 ea. Symbol #5, 7, & 2 ea. Symbol #1, 8 11, 12, 14	
	Class 1 Seals, Std. Service	Class 5 Seals, High Temp.	Class 1 Seals, Std. Service	Class 5 Seals, High Temp.
mm	Part No.	Part No.	Part No.	Part No.
20	P1L020D001	P1L020D005	P1L020K001	P1L020K005
25	P1L025D001	P1L025D005	P1L025K001	P1L025K005
32	P1L032D001	P1L032D005	P1L032K001	P1L032K005
40	P1L040D001	P1L040D005	P1L040K001	P1L040K005
50	P1L050D001	P1L050D005	P1L050K001	P1L050K005
63	P1L063D001	P1L063D005	P1L063K001	P1L063K005
80	P1L080D001	P1L080D005	P1L080K001	P1L080K005
100	P1L100D001	P1L100D005	P1L100K001	P1L100K005

