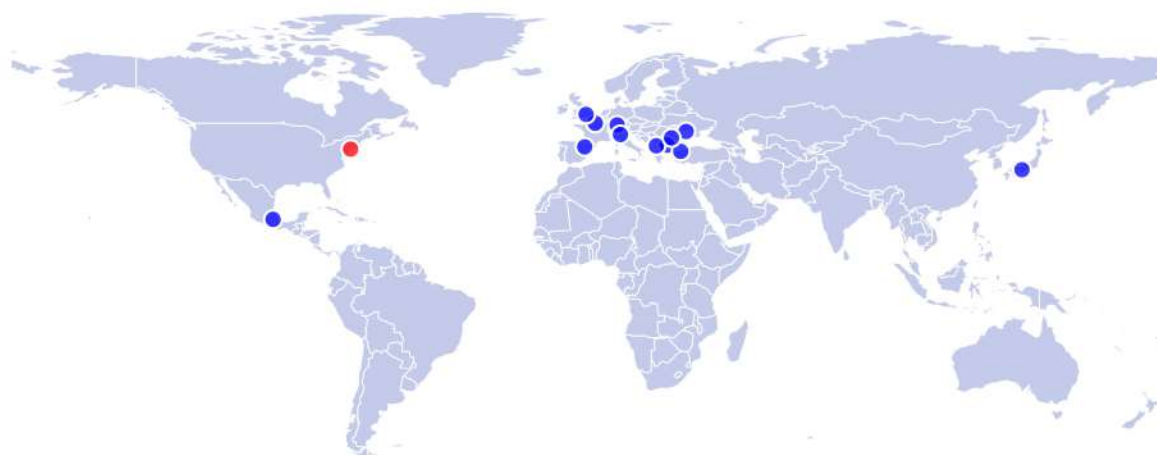




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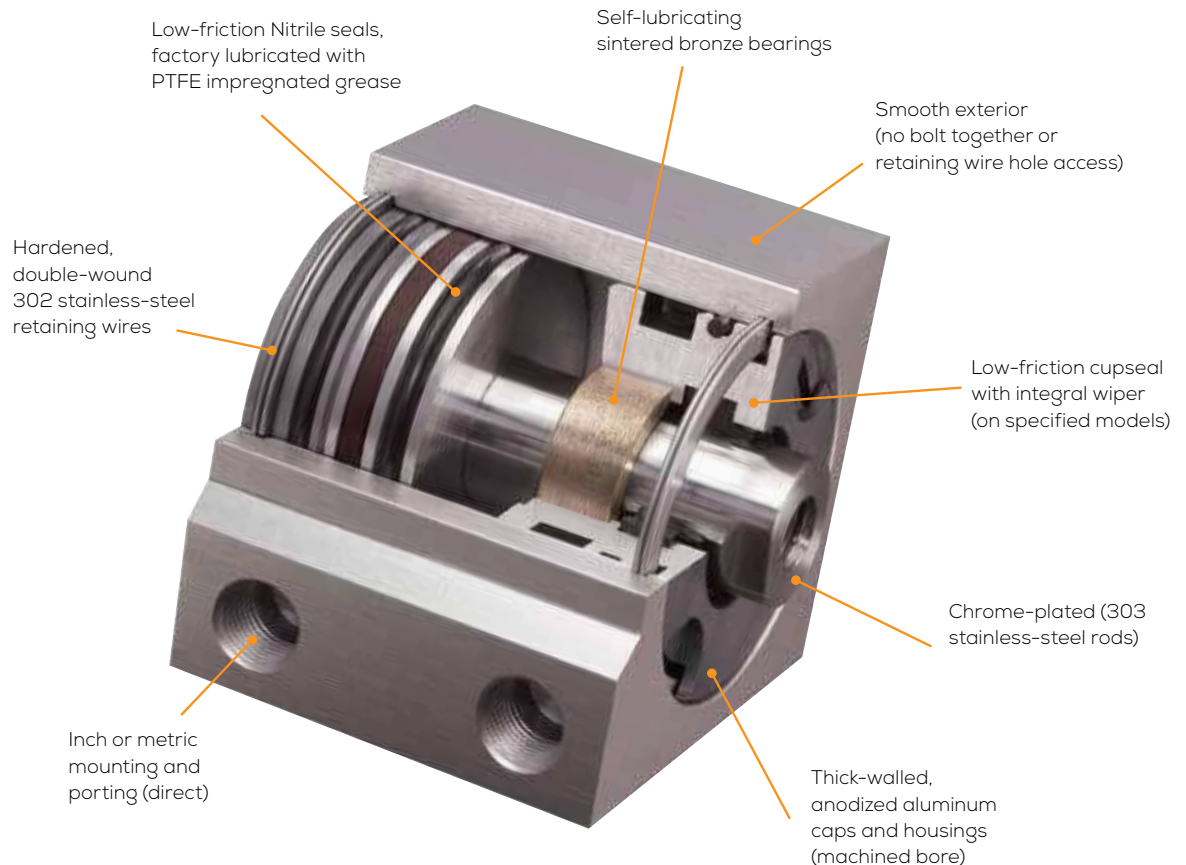
L SERIES Pneumatic Cylinders



8	Features	28	32mm	Bore
9	How to Order	32	40mm	Bore
10	Engineering Data	36	50mm	Bore
11	Quick Delivery	40	63mm	Bore
12	12mm Bore	44	76mm	Bore
16	20mm Bore	48	101mm	Bore
20	25mm Bore	50	127mm	Bore
24	28.5mm Bore	52	152mm	Bore

L SERIES

PNEUMATIC CYLINDERS



Low Breakaway and Running Friction / Long Life

Designed for low start up and running friction, the L series contains low friction Nitrile seals and is lubricated at the factory with PTFE impregnated grease. Precision machined components and self-lubricating bearings ensure long life and continued low friction operation.

Compact Size / Clean Design

Nason L series cylinders were designed with today's automation equipment in mind. They offer more power in a smaller package than comparable pancake or compact type cylinders. The smooth exterior of the cylinder body (no bolt together or retaining wire hole access) means no dirt or grease traps.

Rugged Construction

The L series incorporates thick walled, anodized aluminum housings and caps. Rods are chrome plated 303 stainless steel riding in self-lubricating bronze bearings and hardened 302 stainless steel retaining wires are used for assembly.

Rebuildable

All L series cylinders are field rebuildable.

Versatile Design

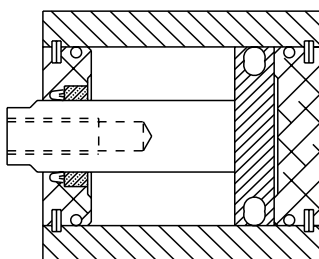
The L series cylinders are metric in design (bore and rod sizes). They are offered in inch or metric mounting and porting. Due to their 100% machined design they are easily customized by Nason.

Individual Features

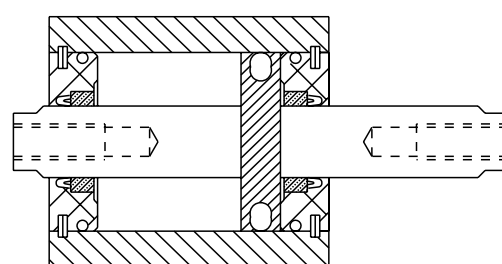
Model LS

- Most compact of 3 models

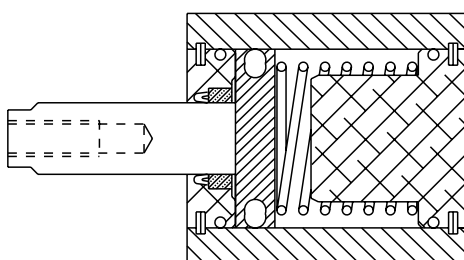
Double Acting, Single Rod



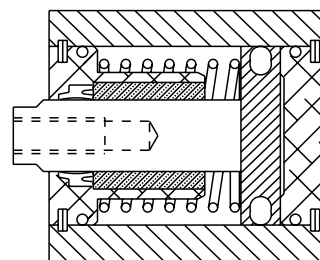
Type "D" - Double Acting, Double Rod



Type "R" - Single Acting, Spring Extend



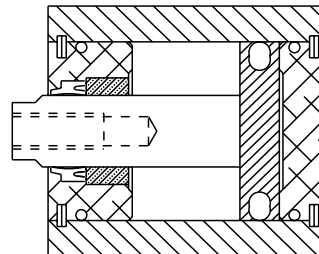
Type "S" - Single Acting, Spring Retract



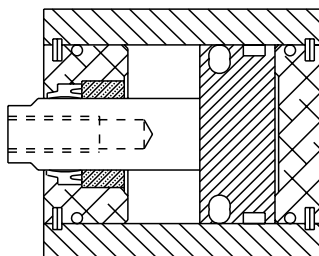
Model LE

- Extended internal rod bearing for additional load support
- Integral seal and rod wiper

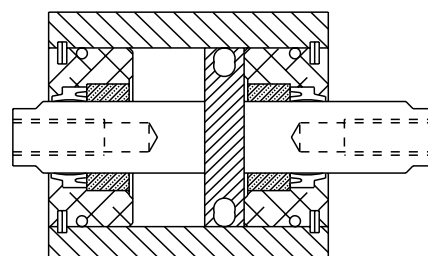
Double Acting, Single Rod



Double Acting, Single Rod



Type "D" - Double Acting, Double Rod



Model LH

- Extended internal rod bearing for additional load support
- Integral seal and rod wiper
- Wear band added to piston for additional load support

Example: Heavy Duty, 32mm Bore, 50mm stroke, Double Acting Single Rod, Tapped Mounting Both Ends, Nonmagnetic Piston, Inch threads, 17mm Total Rod Extension, Rod Stud

LH — 32 X 50 — MB — EM R12 RS
 MODEL BORE STROKE TYPE MOUNTING PISTON TYPE OPTIONS

MODEL
 LS Standard Duty
 LE Medium Duty
 LH Heavy Duty

BORE

12	12mm (.47")
20	20mm (.79")
25	25mm (.98")
28.5	28.6mm (1.13")
32	32mm (1.26")
40	40mm (1.58")
50	50mm (1.97")
63	63mm (2.48")
76	76.2mm (3.00")
101	101mm (4.00")
127	127mm (5.00")
152	152mm (6.00")

STROKE

1 to 100	1mm to 100mm in 1mm increments
----------	--------------------------------

 See Stroke Table on Page 10 and Product Pages for Availability

TYPE

Nil	Double Acting, Single Rod
D	Double Acting, Double Rod
S	Single Acting, Spring Retract
R	Single Acting, Spring Extend

 See Stroke Table on Page 10 and Product Pages for Availability

PISTON TYPE

Nil	No Magnet
M	Magnetic Piston

 See note #1

MOUNTING

MF	Threads on Front Face (Rod End)
MR	Threads on Rear Face (Opposite Rod End)
MB	Threads on Both Faces
MT	Drilled Thru and Counterbored for Bolt Clearance
MS	Threads on Side of Cylinder Body
FF	Flange on Front Face (Rod End)
FR	Flange on Rear Face (Opposite Rod End)
FE	Flange on Side of Cylinder Body (Holes on End)
FS	Flange on Side of Cylinder Body (Holes on Side)
PR	Pivot on Rear Face
PL	Pivot on Rear Face with Mounting Brackets and Pin

 See Product Pages and Accessories Section for Availability

OPTIONS

EM	InchThreads and Ports
HS	FKM Seals (See Note #1, page 10, and page 97)
SH	Hydraulic Seals (See Note #1, page 10, and page 97)
RE	Rod Eye Pivot (See page 96)
RS	Male Thread Stud for Rod End (See page 96)
RF	Additional 5mm Rod Extension (See page 96)
RT	Additional 10mm Rod Extension (See page 96)
RN	Additional 15mm Rod Extension (See page 96)
RY	Additional 20mm Rod Extension (See page 96)
RV	Additional 25mm Rod Extension (See page 96)
RH	Additional 35mm Rod Extension (See page 96)
R_	Additional custom Rod Extension (See page 96)
HR	Hollow double rod with standard taps (Type "D" must be specified)
HP	Hollow double rod with taps for fittings (Type "D" must be specified)
PE	Enlarged Ports (See Product pages for availability and size)
UB	Urethane Shock Pads Both Ends (See note #3 and page 97)
UF	Urethane Shock Pad Front (See note #3 and page 97)
UR	Urethane Shock Pad Rear (See note #3 and page 97)

Note 1 - Magnetic Piston "M" limits temperature range to -10°C to 82°C (14°F to 180°F). This temperature rating overrides ALL OTHER TEMPERATURE ratings (Standard Seals, HS Seals, etc.). Magnetic Piston limits Pressure rating 250 PSI (1.7 MPa)

Note 2 - "R_" Enter desired additional Custom Length Rod extension in mm after "R". Example LE-32X40MSM-EMR20.4 would have a TOTAL ROD EXTENSION of 25.4mm (20.4mm+Standard 5mm extension)

Note 3 - "UB", "UF", "UR" Urethane Shock Pads limit temperature range to -10°C to 82°C (14°F to 180°F). This temperature rating overrides ALL OTHER TEMPERATURE ratings (Standard Seals, HS Seals, etc.). Pads are mechanically retained at the Cap faces. "UB" OPTION CHANGES STROKE TOLERANCE TO +/-2mm. "UF" and "UR" OPTION CHANGES STROKE TOLERANCE TO +/-1mm.

Piston Areas and Pressure Ratings

Bore	Piston Area Extend	Piston Area Retract	Maximum Pressure Ratings		
			Standard Pneumatic	Hydraulic (SH Option)	Magnetic (SH Option)
12	1,13 cm ² (.18 in ²)	0,85 cm ² (.14 in ²)	1.0 MPa (150 PSI)	NA	NA
20	3,14 cm ² (.48 in ²)	2,64 cm ² (.40 in ²)	1.7 MPa (250 PSI)	3.45 MPa (500 PSI)	1.7 MPa (250 PSI)
25	4,91 cm ² (.76 in ²)	4,12 cm ² (.64 in ²)	1.7 MPa (250 PSI)	3.45 MPa (500 PSI)	1.7 MPa (250 PSI)
28.5	6,41 cm ² (1.0 in ²)	5,28 cm ² (.82 in ²)	1.7 MPa (250 PSI)	3.45 MPa (500 PSI)	1.7 MPa (250 PSI)
32	8,04 cm ² (1.25 in ²)	6,91 cm ² (1.07 in ²)	1.7 MPa (250 PSI)	3.45 MPa (500 PSI)	1.7 MPa (250 PSI)
40	12,56 cm ² (1.95 in ²)	10,55 cm ² (1.64 in ²)	1.7 MPa (250 PSI)	3.45 MPa (500 PSI)	1.7 MPa (250 PSI)
50	19,63 cm ² (3.04 in ²)	17,62 cm ² (2.73 in ²)	1.7 MPa (250 PSI)	3.45 MPa (500 PSI)	1.7 MPa (250 PSI)
63	31,17 cm ² (4.83 in ²)	28,03 cm ² (4.34 in ²)	1.7 MPa (250 PSI)	3.45 MPa (500 PSI)	1.7 MPa (250 PSI)
76	45,6 cm ² (7.07 in ²)	42,46 cm ² (6.59 in ²)	1.7 MPa (250 PSI)	3.45 MPa (500 PSI)	1.7 MPa (250 PSI)
101	81,07 cm ² (12.57 in ²)	77,93 cm ² (12.09 in ²)	1.4 MPa (200 PSI)	NA	NA
127	126,7 cm ² (19.6 in ²)	123,5 cm ² (19.1 in ²)	1.4 MPa (200 PSI)	NA	NA
152	181, 46 cm ² (28.2 in ²)	176,55 cm ² (27.45 in ²)	1.4 MPa (200 PSI)	NA	NA

Spring Forces for Type "S" and "R"

Bore	Stroke	Fully Compressed	Spring Rate
12	1mm - 25mm	2.72 kg (6 lbs)	.064 kg/mm (3.6 lbs/in)
20	1mm - 25mm	4.08 kg (9 lbs)	.098 kg/mm (5.5 lbs/in)
20	26mm - 50mm	4.40 kg (9.7 lbs)	.073 kg/mm (4.1 lbs/in)
25	1mm - 25mm	3.04 kg (6.7 lbs)	.063 kg/mm (3.5 lbs/in)
25	26mm - 50mm	3.13 kg (6.9 lbs)	.039 kg/mm (2.2 lbs/in)
28.5	1mm - 25mm	5.94 kg (13.1 lbs)	.134 kg/mm (7.53 lbs/in)
28.5	26mm - 50mm	6.07 kg (13.4 lbs)	.072 kg/mm (4.13 lbs/in)
32	1mm - 25mm	5.67 kg (12.5 lbs)	.134 kg/mm (7.53 lbs/in)
32	26mm - 50mm	6.03 kg (13.3 lbs)	.072 kg/mm (4.13 lbs/in)
40	1mm - 25mm	8.62 kg (19 lbs)	.198 kg/mm (11.1 lbs/in)
40	26mm - 50mm	9.03 kg (19.9 lbs)	.107 kg/mm (6.0 lbs/in)
50	1mm - 25mm	8.62 kg (19 lbs)	.198 kg/mm (11.1 lbs/in)
50	26mm - 50mm	9.03 kg (19.9 lbs)	.107 kg/mm (6.0 lbs/in)

Specifications

Media (Standard and HS Seals)	Air - Clean, Dry Or Lubricated
Media (SH Seals)	Standard Mineral Hydraulic Fluid
Pre-Lubricated at Factory	Non-soap elastomer/PTFE thickener
Temp. Range (Std.)	-10°C to 93°C (14°F to 200°F)
Temp. Range (Mag. Piston)	-10°C to 82°C (14°F to 180°F) See Note 2 & 3
Temp. Range (UB Option)	-10°C to 82°C (14°F to 180°F) See Note 2 & 3
Temp. Range (HS Option)	-10°C to 150°C (14°F to 302°F) See Note 2 & 3
Stroke Tolerance (Std)	+1mm/-0 (+0.04"/-0)
Stroke Tolerance (UB)	+/-2mm (+/- .08")
Stroke Tolerance (UF)	+/-1mm (+/- .04")
Stroke Tolerance (UR)	+/-1mm (+/- .04")

Note 1 - Longer strokes and other increments available upon request
 Note 2 - Magnetic Piston "M" limits temperature range to -10°C to 82°C (14°F to 180°F). This temperature rating overrides ALL OTHER TEMPERATURE ratings (Standard Seals, HS Seals, etc.). Magnetic Piston and Sensor mounting tracks are provided on Front Stroke Cylinder only.
 Note 3 - "UB", "UF", "UR" Urethane Shock Pads limit temperature range to -10°C to 82°C (14°F to 180°F). This temperature rating overrides ALL OTHER TEMPERATURE ratings (Standard Seals, HS Seals, etc.). Pads are mechanically retained at the Cap faces. "UB" OPTION CHANGES STROKE TOLERANCE TO +/-2mm. "UF" and "UR" OPTION CHANGES STROKE TOLERANCE TO +/-1mm. "UB", "UF", and "UR" Not available with "SH" Seal Option.
 Note 4 - While all Models are offered in all strokes, it is recommended that strokes over 50mm use LE or LH Models for added bearing support.

Available Strokes

Model LS - 10mm through 100mm in 1mm increments
Model LS with Magnetic Piston - 5mm through 100mm in 1mm increments
Models LE & LH (Standard and Magnetic Piston) - 5mm through 100mm in 1mm increments
Model LS, LE & LH 28.5mm Bore (Standard and Magnetic Piston) - 6.35mm through 101.6mm in 6.35mm increments
Model LS, Type S and R (Standard and Magnetic Piston) 12mm Bore - 5mm through 25mm in 1mm increments
Model LS, Type S and R (Standard and Magnetic Piston) 20mm Bore Thru 50mm Bore - 5mm through 50mm in 1mm increments
Model LS, Type S and R 28.5mm Bore (Standard and Magnetic Piston)) - 6.35mm through 50.8mm in 6.35mm increments

See note #1 and #4

Stock Strokes for Quick Delivery

Ship in 2-3 Days

Models LS, LE, and LH

Standard and Magnetic Pistons

Mounting Styles MF, MR, MB, MT, and MS

Metric and Inch Threads

Single Rod End Type Cylinders

Bore Sizes - 20mm, 25mm, 32mm			
1-10 pieces	Stock Strokes (Ship 2-3 days)		
Model	LS	LE	LH
Standard Piston	20mm	15mm	10mm
Magnetic Piston	15mm	10mm	5mm
Standard Piston	30mm	25mm	20mm
Magnetic Piston	25mm	20mm	15mm
Standard Piston	45mm	40mm	35mm
Magnetic Piston	40mm	35mm	30mm
Standard Piston	55mm	50mm	45mm
Magnetic Piston	50mm	45mm	40mm
Standard Piston	70mm	65mm	60mm
Magnetic Piston	65mm	60mm	55mm
Standard Piston	80mm	75mm	70mm
Magnetic Piston	75mm	70mm	65mm

Bore Sizes - 40mm, 50mm			
1-10 pieces	Stock Strokes (Ship 2-3 days)		
Model	LS	LE	LH
Standard Piston	25mm	15mm	10mm
Magnetic Piston	20mm	10mm	5mm
Standard Piston	35mm	25mm	20mm
Magnetic Piston	30mm	20mm	15mm
Standard Piston	50mm	40mm	35mm
Magnetic Piston	45mm	35mm	30mm
Standard Piston	60mm	50mm	45mm
Magnetic Piston	55mm	45mm	40mm
Standard Piston	75mm	65mm	60mm
Magnetic Piston	70mm	60mm	55mm
Standard Piston	85mm	75mm	70mm
Magnetic Piston	80mm	70mm	65mm

Strokes

Bore Size	Standard (Non-Magnetic)		5mm	10mm	15mm	20mm	25mm	30mm	35mm	40mm	45mm	50mm	55mm	60mm	65mm	70mm	75mm	80mm	85mm
20mm	Model	LS				*		*			*		*			*		*	
		LE			*		*			*		*			*		*		
		LH		*		*			*		*			*		*			
25mm	Magnetic Piston		5mm	10mm	15mm	20mm	25mm	30mm	35mm	40mm	45mm	50mm	55mm	60mm	65mm	70mm	75mm	80mm	85mm
32mm	Model	LS			*		*			*		*			*		*		
		LE		*		*			*		*			*		*			
		LH	*		*			*		*			*		*				

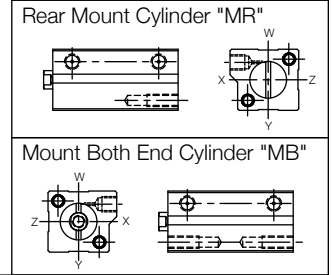
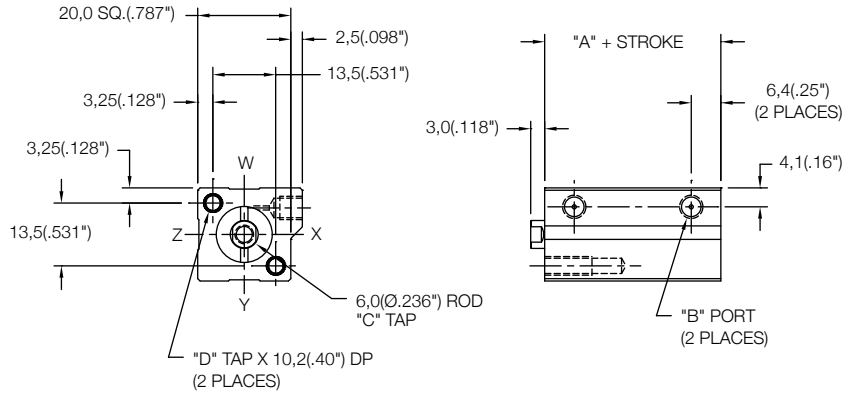
Strokes

Bore Size	Standard (Non-Magnetic)		5mm	10mm	15mm	20mm	25mm	30mm	35mm	40mm	45mm	50mm	55mm	60mm	65mm	70mm	75mm	80mm	85mm
40mm	Model	LS					*		*			*		*			*		*
		LE			*		*			*		*			*		*		
		LH		*		*			*		*			*		*			
50mm	Magnetic Piston		5mm	10mm	15mm	20mm	25mm	30mm	35mm	40mm	45mm	50mm	55mm	60mm	65mm	70mm	75mm	80mm	85mm
	Model	LS				*		*			*		*			*		*	
		LE		*		*			*		*			*		*			
		LH	*		*			*		*			*		*				

Non Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	-	10mm - 50mm	16,0(0.63")	PUSH 1,13 cm ² (0.18 in ²)
LE	-	5mm - 50mm	21,0(0.83")	
LH	-	5mm - 50mm	26,0(1.03")	PULL 0,85 cm ² (0.14 in ²)
LS	S,R	5mm - 25mm	31,0(1.22")	

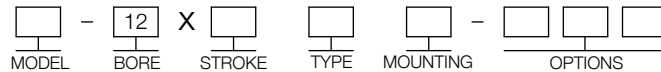
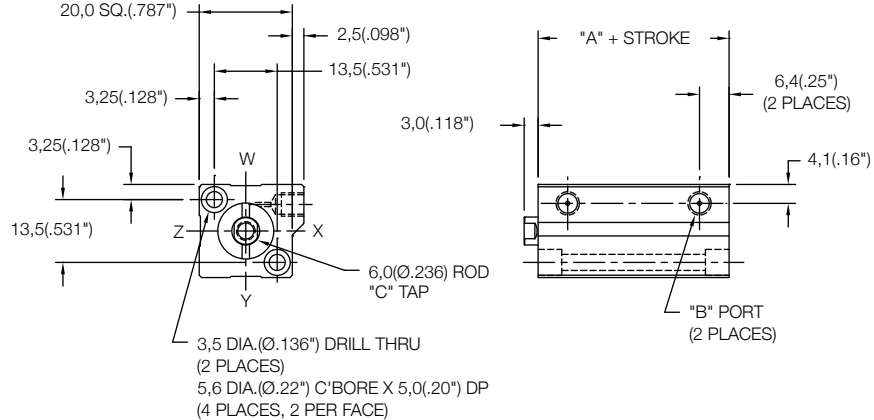
	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M4X0,7	#8-32
"D"	M4X0,7	#8-32



Non Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	-	10mm - 20mm	16,0(0.63")	PUSH 1,13 cm ² (0.18 in ²)
LE	-	5mm - 15mm	21,0(0.83")	
LH	-	5mm - 10mm	26,0(1.03")	PULL 0,85 cm ² (0.14 in ²)
LS	S,R	5mm	31,0(1.22")	

	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M4X0,7	#8-32



MODEL
LS
LE
LH

5mm - 50mm STROKE
(SEE STROKE RANGE)

BLANK - NO CODE, DOUBLE
ACTING, SINGLE ROD

S - SINGLE ACTING, SPRING RETRACT
R - SINGLE ACTING, SPRING EXTEND

MT - THRU MOUNT
MF - FRONT MOUNT
MR - REAR MOUNT
MB - BOTH END MOUNTS
FF - FRONT FLANGE
FR - REAR FLANGE
(FOR FLANGES SEE PAGE 92)
PR - REAR PIVOT
(FOR PIVOT SEE PAGE 94)

EM - INCH THREADS & PORT OPTIONS

HS - HIGH TEMPERATURE SEALS OPTION:
AVAILABLE ON LE AND LH MODELS ONLY
(SEE PAGE 97)

RE - ROD EYE
(SEE PAGE 96)

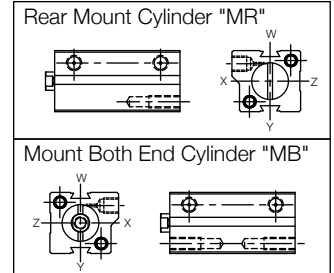
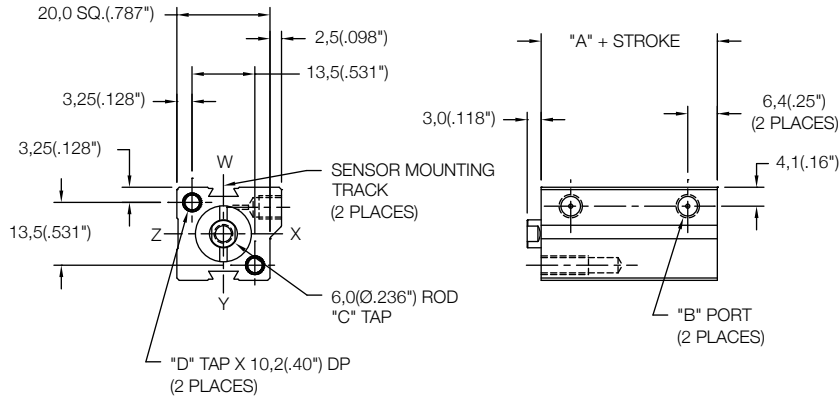
RS - MALE STUD FOR ROD END
(SEE PAGE 96)

RF, RH, RN, RT, RV, RY - ROD EXTENSIONS
(SEE PAGE 96)

Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	-	10mm - 50mm	26,0(1.03")	PUSH 1,13 cm ² (0.18 in ²) PULL 0,85 cm ² (0.14 in ²)
LE	-	5mm - 50mm	31,0(1.23")	
LH	-	5mm - 50mm	36,0(1.42")	
LS	S,R	5mm - 25mm	41,0(1.62")	

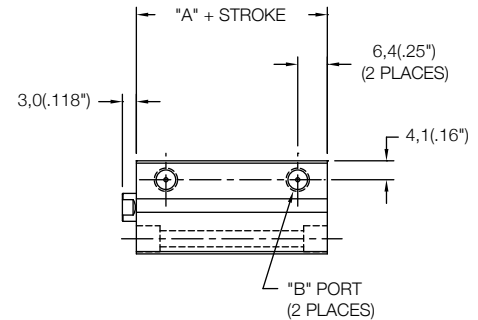
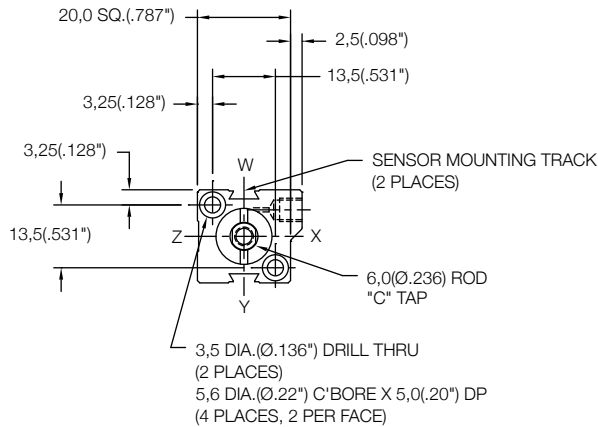
	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M4X0,7	#8-32
"D"	M4X0,7	#8-32



Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	-	10mm	26,0(1.03")	PUSH 1,13 cm ² (0.18 in ²) PULL 0,85 cm ² (0.14 in ²)
LE	-	5mm	31,0(1.23")	

	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M4X0,7	#8-32



MODEL	-	12	X	STROKE	TYPE	MOUNTING	MAGNETIC	-	OPTIONS
LS LE LH				5mm - 50mm STROKE (SEE STROKE RANGE)	BLANK - NO CODE, DOUBLE ACTING, SINGLE ROD	MT - THRU MOUNT MF - FRONT MOUNT MR - REAR MOUNT MB - BOTH END MOUNTS FF - FRONT FLANGE FR - REAR FLANGE (FOR FLANGES SEE PAGE 92) PR - REAR PIVOT (FOR PIVOT SEE PAGE 94)	M		

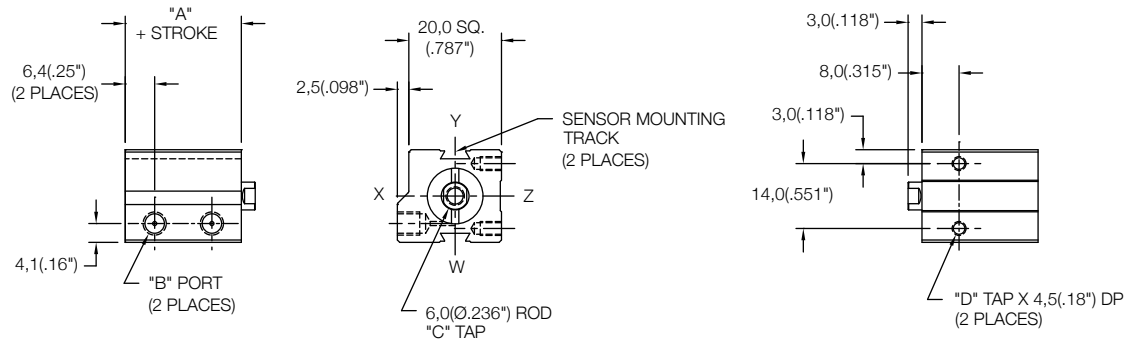
SENSORS SOLD SEPARATELY
SKS, SKP, SCS, SCP - SOLID STATE
LIMIT SENSORS (SEE PAGE 88)

- EM - INCH THREADS & PORT OPTIONS
- HS - HIGH TEMPERATURE SEALS OPTION:
AVAILABLE ON LE AND LH MODELS ONLY
(SEE PAGE 97)
- RE - ROD EYE
(SEE PAGE 96)
- RS - MALE STUD FOR ROD END
(SEE PAGE 96)
- RF, RH, RN, RT, RV, RY - ROD EXTENSIONS
(SEE PAGE 96)

Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	-	10mm	26,0(1.03")	PUSH 1,13 cm ² (0.18 in ²)
LE	-	5mm	31,0(1.23")	PULL 0,85 cm ² (0.14 in ²)

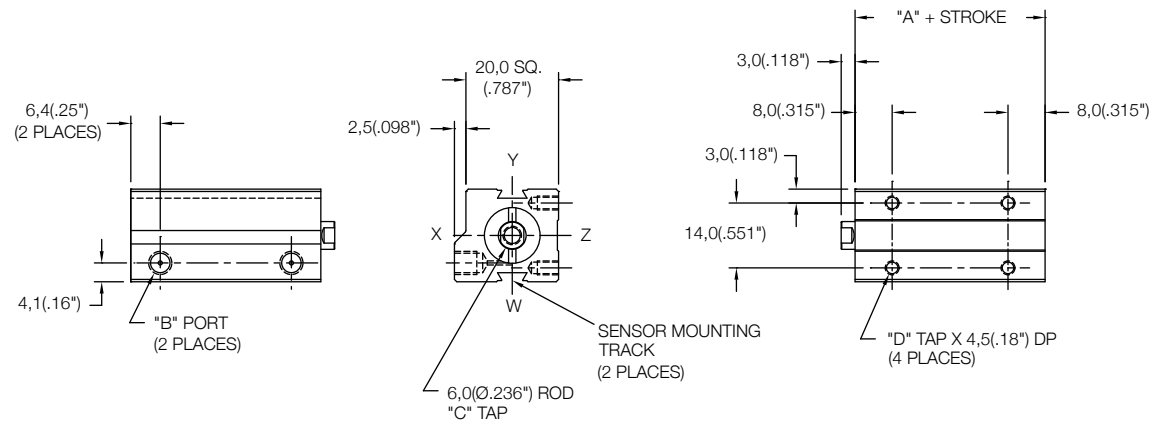
	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M4X0,7	#8-32
"D"	M3X0,5	#4-40



Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	-	15mm - 50mm	26,0(1.03")	PUSH 1,13 cm ² (0.18 in ²)
LE	-	10mm - 50mm	31,0(1.23")	
LH	-	5mm - 50mm	36,0(1.42")	PULL 0,85 cm ² (0.14 in ²)
LS	S,R	5mm - 25mm	41,0(1.62")	

	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M4X0,7	#8-32
"D"	M3X0,5	#4-40

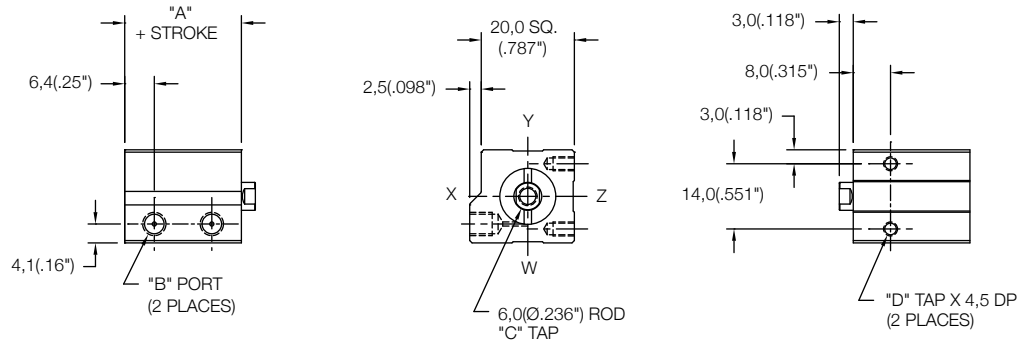


MODEL	BORE	STROKE	TYPE	MOUNTING	MAGNETIC	OPTIONS
LS LE LH	12	X			M	
SENSORS SOLD SEPARATELY SKS, SKP, SCS, SCP - SOLID STATE LIMIT SENSORS (SEE PAGE 88)						
5mm - 50mm STROKE (SEE STROKE RANGE)						
BLANK - NO CODE, DOUBLE ACTING, SINGLE ROD						
S - SINGLE ACTING, SPRING RETRACT R - SINGLE ACTING, SPRING EXTEND						
MS - SIDE MOUNT FE - FLANGE ON END FS - FLANGE ON SIDE (SEE PAGE 93)						
EM - INCH THREADS & PORT OPTIONS						
HS - HIGH TEMPERATURE SEALS OPTION: AVAILABLE ON LE AND LH MODELS ONLY (SEE PAGE 97)						
RE - ROD EYE (SEE PAGE 96)						
RS - MALE STUD FOR ROD END (SEE PAGE 96)						
RF, RH, RN, RT, RV, RY - ROD EXTENSIONS (SEE PAGE 96)						

Non Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	-	10mm - 20mm	16,0(0.63")	PUSH 1,13 cm ² (0.18 in ²)
LE	-	5mm - 15mm	21,0(0.83")	
LH	-	5mm - 10mm	26,0(1.03")	PULL 0,85 cm ² (0.14 in ²)
LS	S,R	5mm	31,0(1.22")	

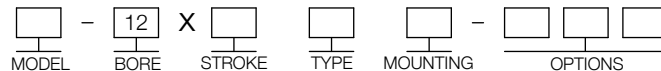
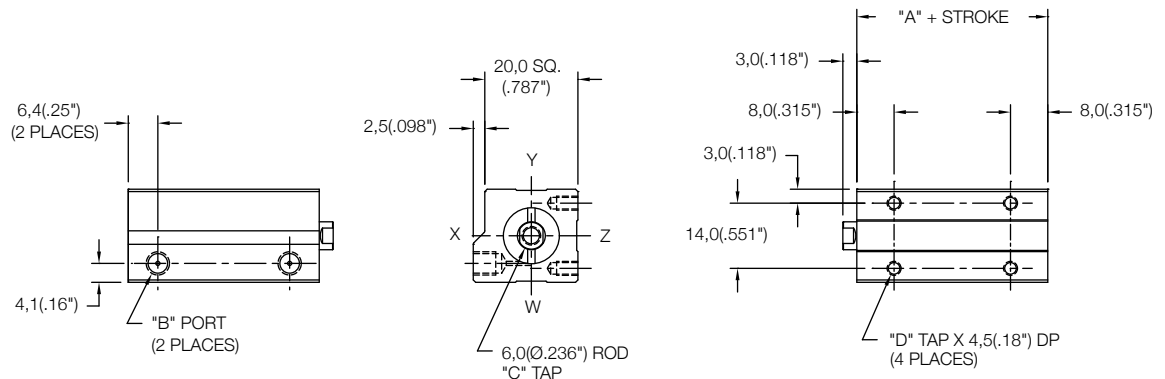
	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M4X0,7	#8-32
"D"	M3X0,5	#4-40



Non Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	-	25mm - 50mm	16,0(0.63")	PUSH 1,13 cm ² (0.18 in ²)
LE	-	20mm - 50mm	21,0(0.83")	
LH	-	15mm - 50mm	26,0(1.03")	PULL 0,85 cm ² (0.14 in ²)
LS	S,R	10mm - 25mm	31,0(1.22")	

	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M4X0,7	#8-32
"D"	M3X0,5	#4-40



MODEL
LS
LE
LH

5mm - 50mm STROKE
(SEE STROKE RANGE)

BLANK - NO CODE, DOUBLE
ACTING, SINGLE ROD
S - SINGLE ACTING, SPRING RETRACT
R - SINGLE ACTING, SPRING EXTEND

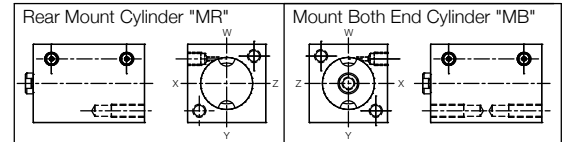
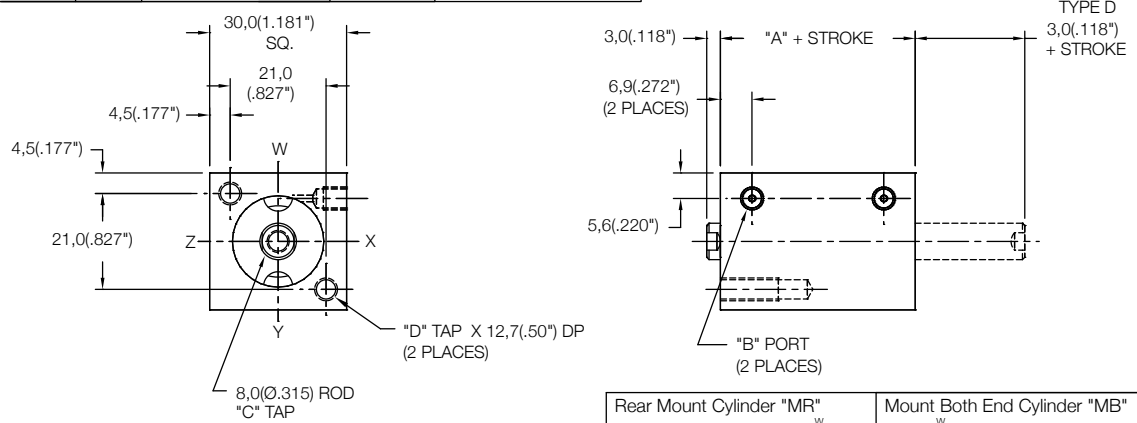
MS - SIDE MOUNT
FE - FLANGE ON END
FS - FLANGE ON SIDE
(SEE PAGE 93)

EM - INCH THREADS & PORT OPTIONS
HS - HIGH TEMPERATURE SEALS OPTION:
AVAILABLE ON LE AND LH MODELS ONLY
(SEE PAGE 97)
RE - ROD EYE
(SEE PAGE 96)
RS - MALE STUD FOR ROD END
(SEE PAGE 96)
RF, RH, RN, RT, RV, RY - ROD EXTENSIONS
(SEE PAGE 96)

Non Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	10mm - 100mm	18,5(0.73")	PUSH 3,14 cm ² (0.48 in ²)
LE	-	5mm - 100mm	23,5(0.93")	
LH	_,D	5mm - 100mm	28,5(1.12")	PULL 2,64 cm ² (0.40 in ²)
LS	S,R	5mm - 50mm	33,5(1.32")	

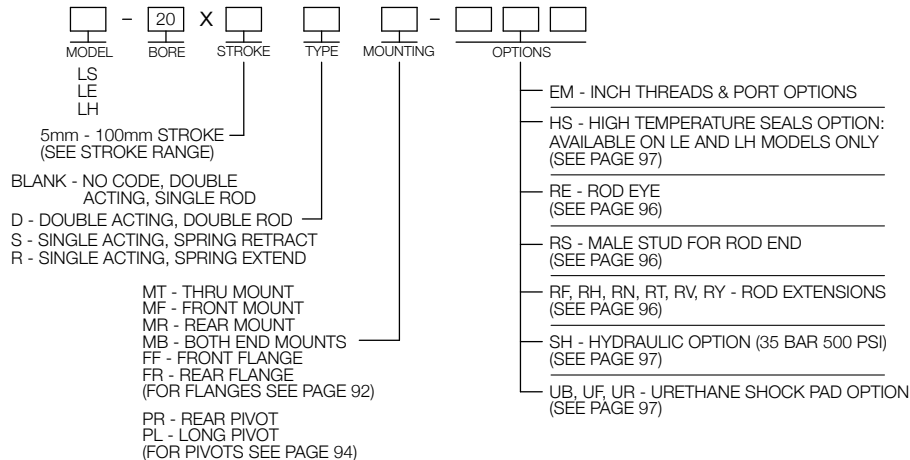
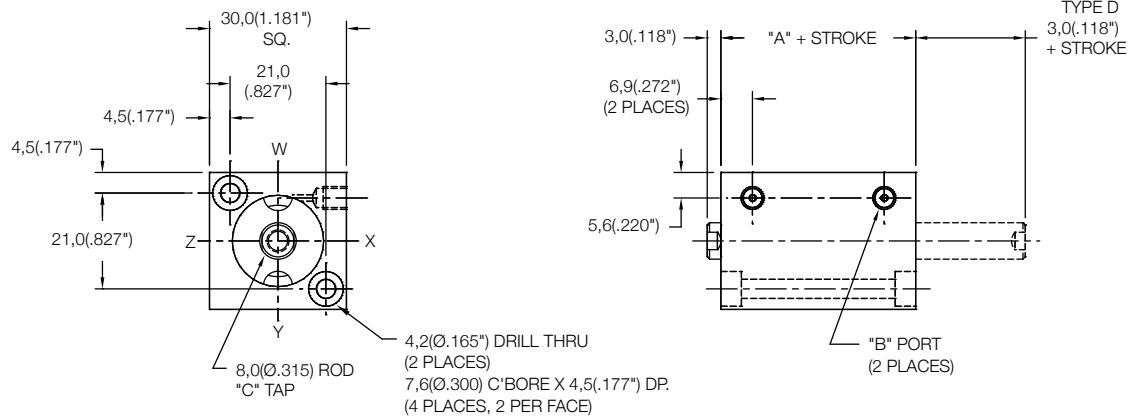
	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M5X0,8	#10-32
"D"	M5X0,8	#10-32



Non Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	10mm - 25mm	18,5(0.73")	PUSH 3,14 cm ² (0.48 in ²)
LE	-	5mm - 20mm	23,5(0.93")	
LH	_,D	5mm - 15mm	28,5(1.12")	PULL 2,64 cm ² (0.40 in ²)
LS	S,R	5mm - 10mm	33,5(1.32")	

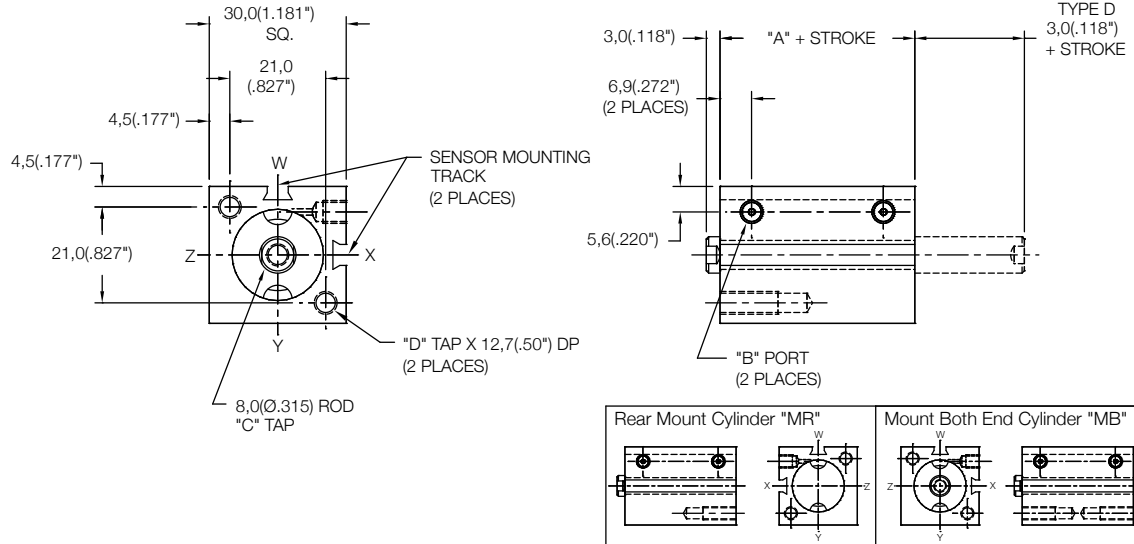
	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M5X0,8	#10-32



Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	5mm - 100mm	23,5(0.93")	PUSH 3,14 cm ² (0.48 in ²)
LE	_,	5mm - 100mm	28,5(1.12")	
LH	_,D	5mm - 100mm	33,5(1.32")	PULL 2,64 cm ² (0.40 in ²)
LS	S,R	5mm - 50mm	38,5(1.52")	

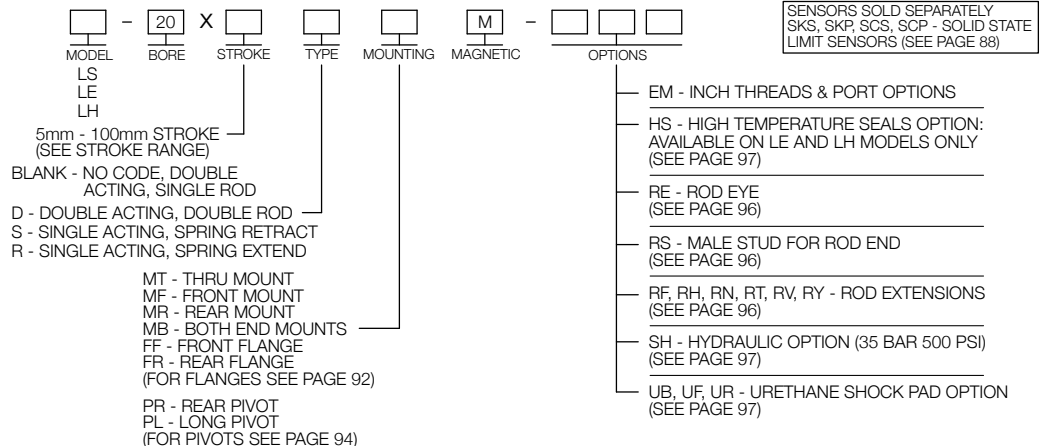
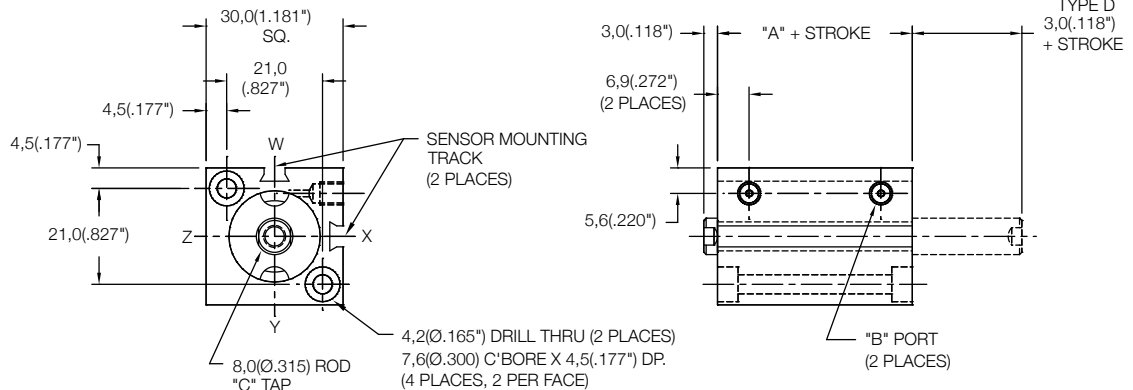
	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M5X0,8	#10-32
"D"	M5X0,8	#10-32



Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	5mm - 20mm	23,5(0.93")	PUSH 3,14 cm ² (0.48 in ²)
LE	_,	5mm - 15mm	28,5(1.12")	
LH	_,D	5mm - 10mm	33,5(1.32")	PULL 2,64 cm ² (0.40 in ²)
LS	S,R	5mm	38,5(1.52")	

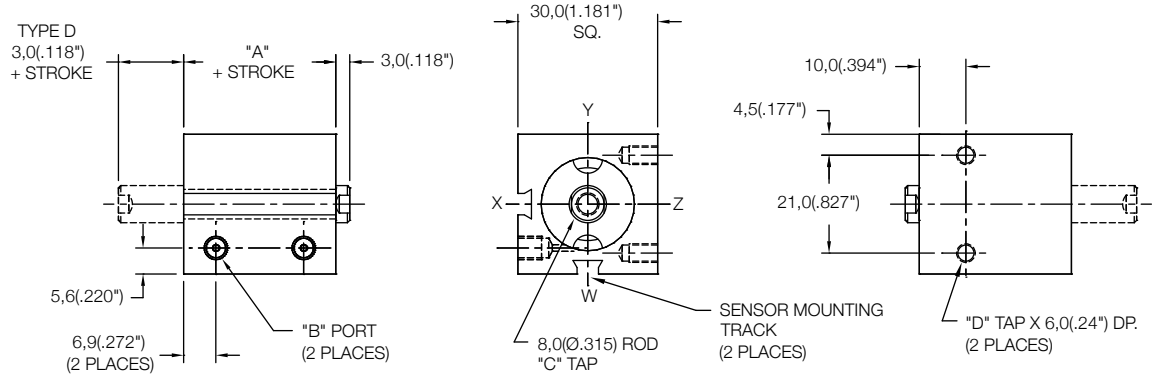
	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M5X0,8	#10-32



Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	5mm - 15mm	23,5(0.93")	PUSH 3,14 cm ² (0.48 in ²)
LE	-	5mm - 10mm	28,5(1.12")	
LH	_,D	5mm	33,5(1.32")	PULL 2,64 cm ² (0.40 in ²)

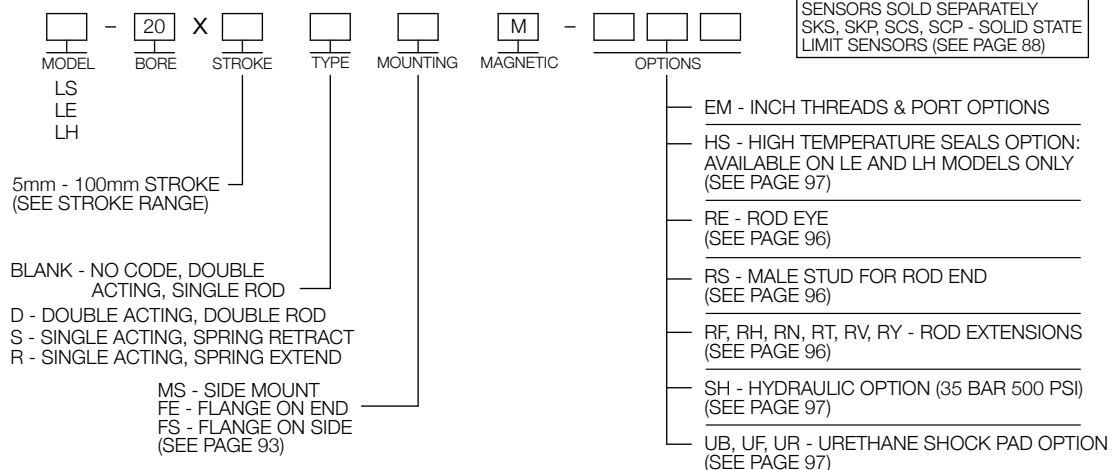
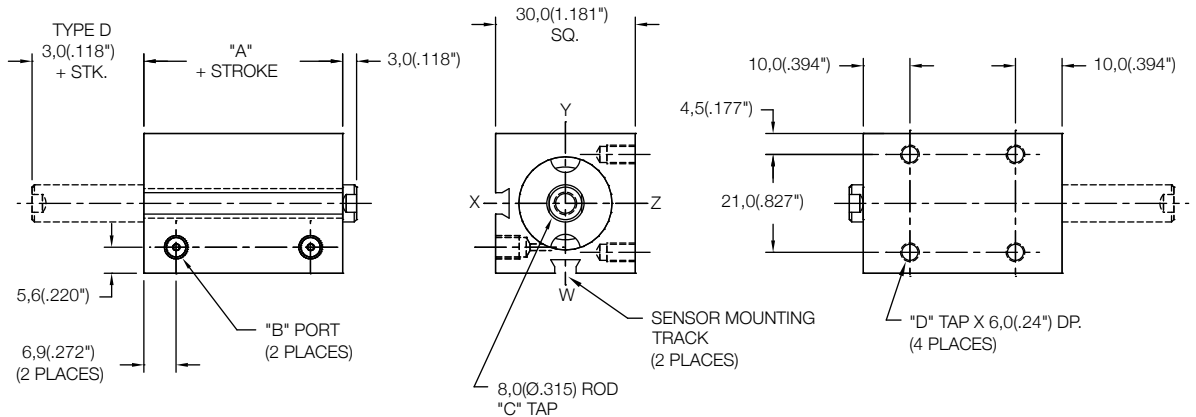
	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M5X0,8	#10-32
"D"	M4X0,7	#8-32



Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	20mm - 100mm	23,5(0.93")	PUSH 3,14 cm ² (0.48 in ²)
LE	-	15mm - 100mm	28,5(1.12")	
LH	_,D	10mm - 100mm	33,5(1.32")	PULL 2,64 cm ² (0.40 in ²)
LS	S,R	5mm - 50mm	38,5(1.52")	

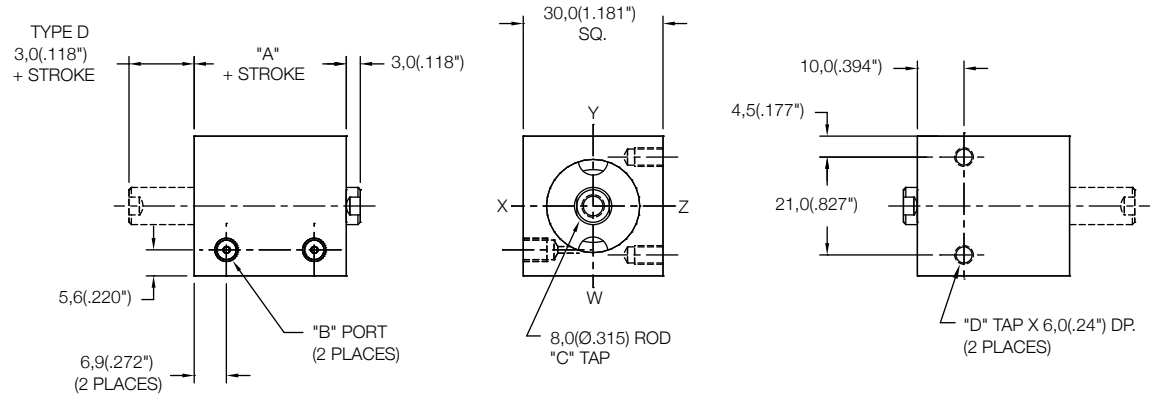
	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M5X0,8	#10-32
"D"	M4X0,7	#8-32



Non Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	10mm - 20mm	18,5(0.73")	PUSH 3,14 cm ² (0.48 in ²)
LE	-	5mm - 15mm	23,5(0.93")	
LH	...D	5mm - 10mm	28,5(1.12")	PULL 2,64 cm ² (0.40 in ²)
LS	S,R	5mm	33,5(1.32")	

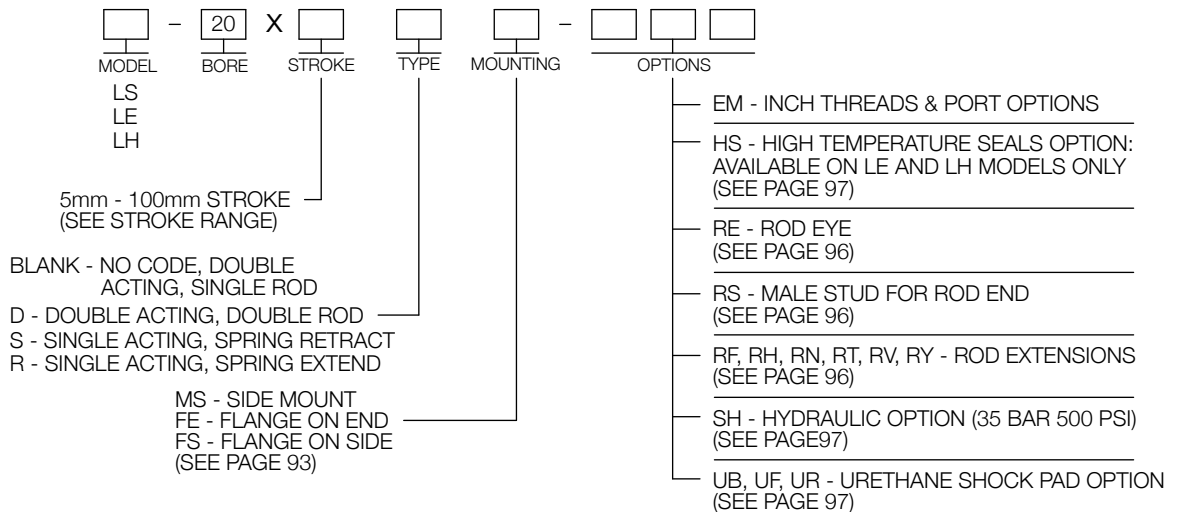
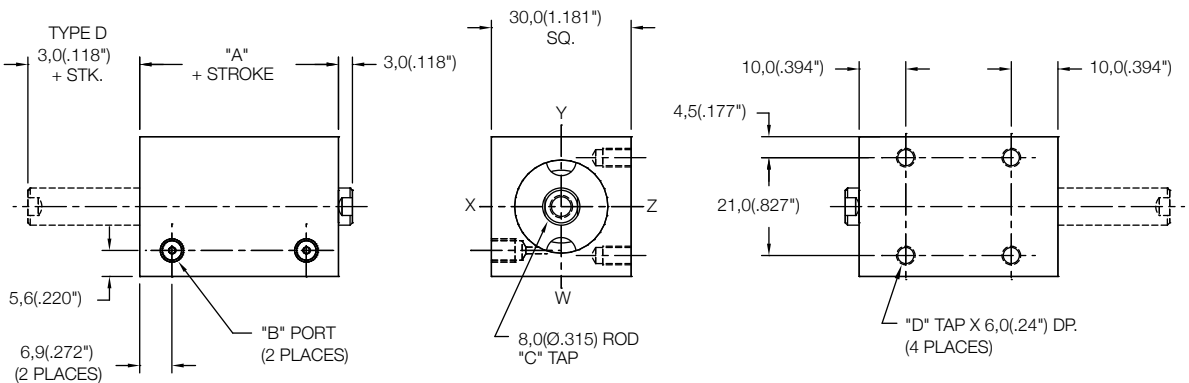
	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M5X0,8	#10-32
"D"	M4X0,7	#8-32



Non Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	25mm - 100mm	18,5(0.73")	PUSH 3,14 cm ² (0.48 in ²)
LE	-	20mm - 100mm	23,5(0.93")	
LH	...D	15mm - 100mm	28,5(1.12")	PULL 2,64 cm ² (0.40 in ²)
LS	S,R	10mm - 50mm	33,5(1.32")	

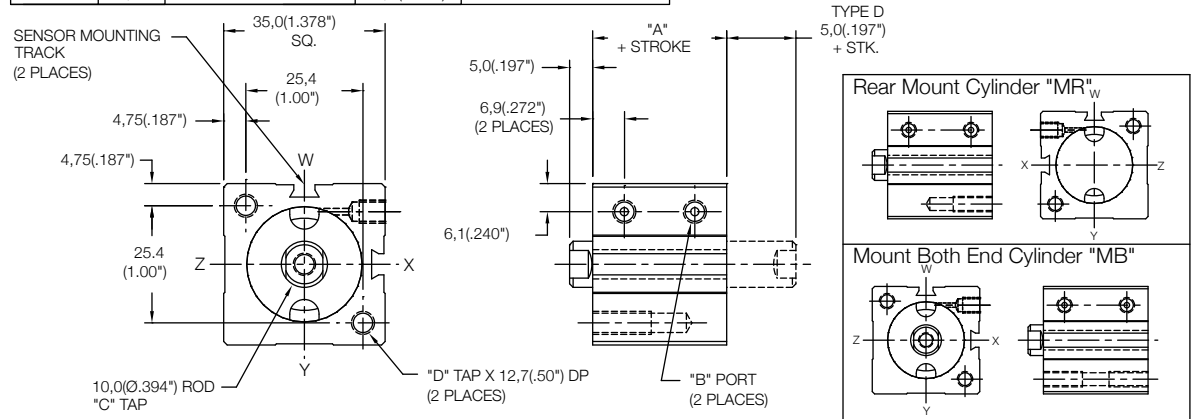
	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M5X0,8	#10-32
"D"	M4X0,7	#8-32



Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	5mm - 50mm	24,0(0.95")	PUSH 4,91 cm ² (0.76 in ²)
LE	_,	5mm - 100mm	29,0(1.14")	
LH	_,D	5mm - 100mm	34,0(1.34")	PULL 4,12 cm ² (0.64 in ²)
LS	S,R	5mm - 25mm	39,0(1.54")	
LS	S,R	26mm - 50mm	44,0(1.74")	

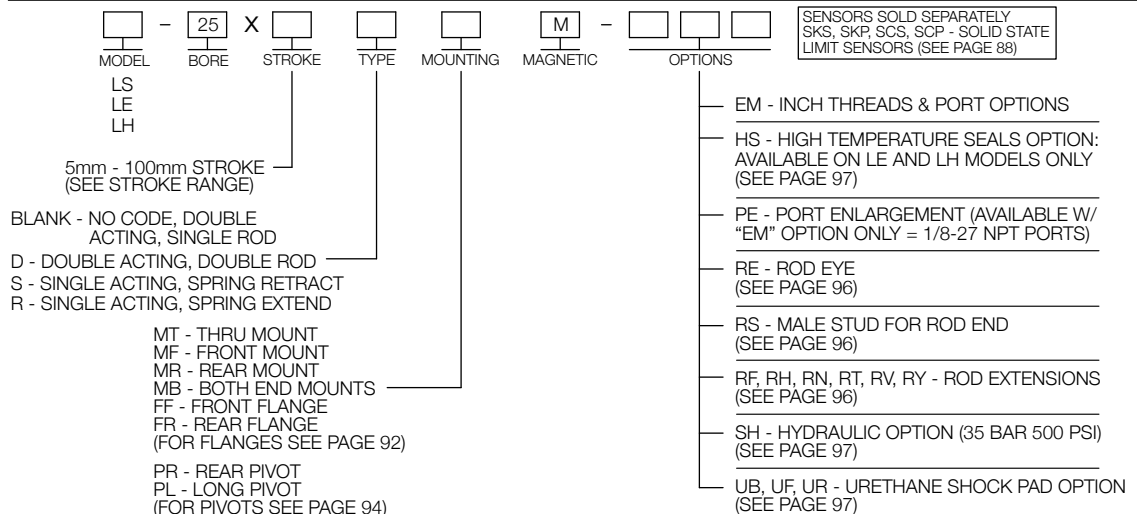
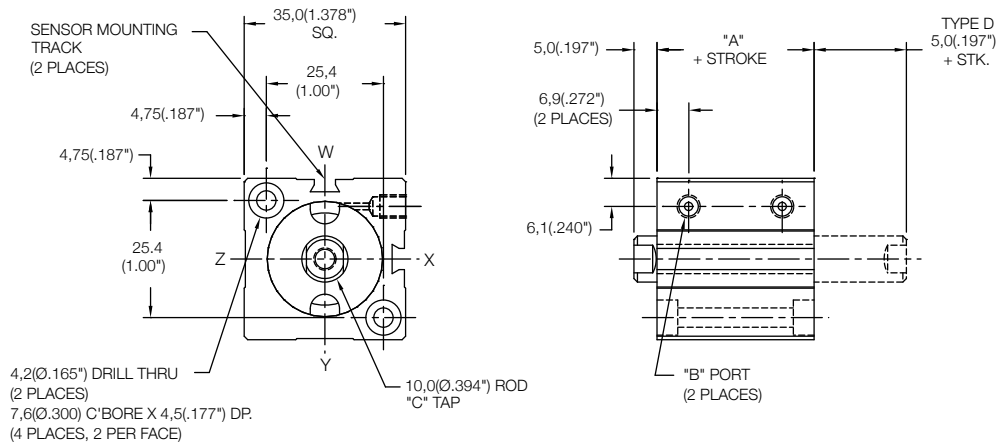
	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M5X0,8	#10-32
"D"	M5X0,8	#10-32



Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	5mm - 20mm	24,0(0.95")	PUSH 4,91 cm ² (0.76 in ²)
LE	_,	5mm - 15mm	29,0(1.14")	
LH	_,D	5mm - 10mm	34,0(1.34")	PULL 4,12 cm ² (0.64 in ²)
LS	S,R	5mm	39,0(1.54")	

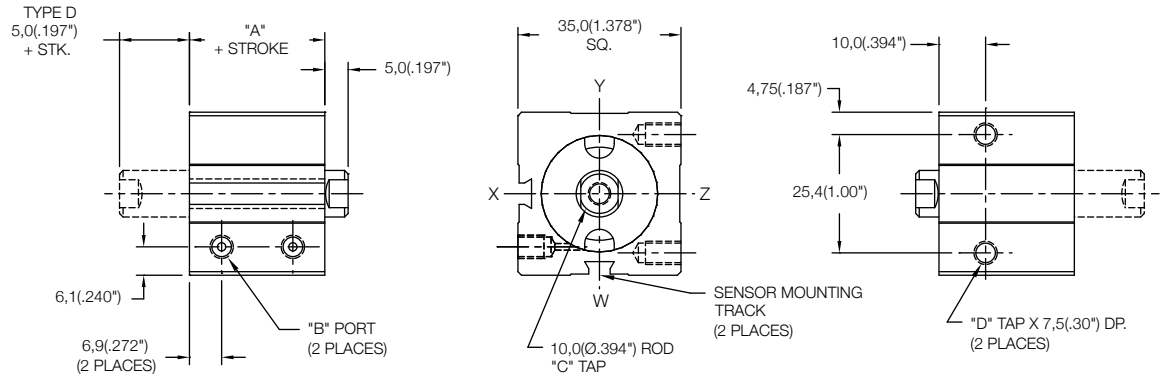
	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M5X0,8	#10-32



Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	5mm - 15mm	24,0(0.95")	PUSH 4,91 cm ² (0.76 in ²)
LE	...	5mm - 10mm	29,0(1.14")	
LH	...D	5mm	34,0(1.34")	PULL 4,12 cm ² (0.64 in ²)

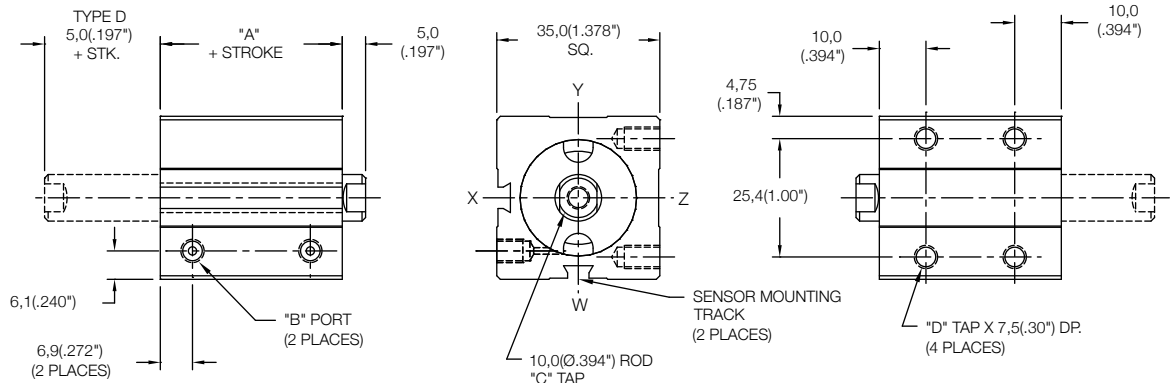
	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M5X0,8	#10-32
"D"	M5X0,8	#10-32



Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	20mm - 100mm	24,0(0.95")	PUSH 4,91 cm ² (0.76 in ²)
LE	...	15mm - 100mm	29,0(1.14")	
LH	...D	10mm - 100mm	34,0(1.34")	PULL 4,12 cm ² (0.64 in ²)
LS	S,R	5mm - 25mm	39,0(1.54")	
LS	S,R	26mm - 50mm	44,0(1.74")	

	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M5X0,8	#10-32
"D"	M5X0,8	#10-32



MODEL - 25 X STROKE TYPE MOUNTING MAGNETIC OPTIONS

LS
LE
LH

5mm - 100mm STROKE (SEE STROKE RANGE)

BLANK - NO CODE, DOUBLE ACTING, SINGLE ROD

D - DOUBLE ACTING, DOUBLE ROD

S - SINGLE ACTING, SPRING RETRACT

R - SINGLE ACTING, SPRING EXTEND

MS - SIDE MOUNT

FE - FLANGE ON END

FS - FLANGE ON SIDE (SEE PAGE 93)

SENSORS SOLD SEPARATELY
SKS, SKP, SCS, SCP - SOLID STATE
LIMIT SENSORS (SEE PAGE 88)

EM - INCH THREADS & PORT OPTIONS

HS - HIGH TEMPERATURE SEALS OPTION:
AVAILABLE ON LE AND LH MODELS ONLY
(SEE PAGE 97)

PE - PORT ENLARGEMENT (AVAILABLE W/
"EM" OPTION ONLY = 1/8-27 NPT PORTS)

RE - ROD EYE
(SEE PAGE 96)

RS - MALE STUD FOR ROD END
(SEE PAGE 96)

RF, RH, RN, RT, RV, RY - ROD EXTENSIONS
(SEE PAGE 96)

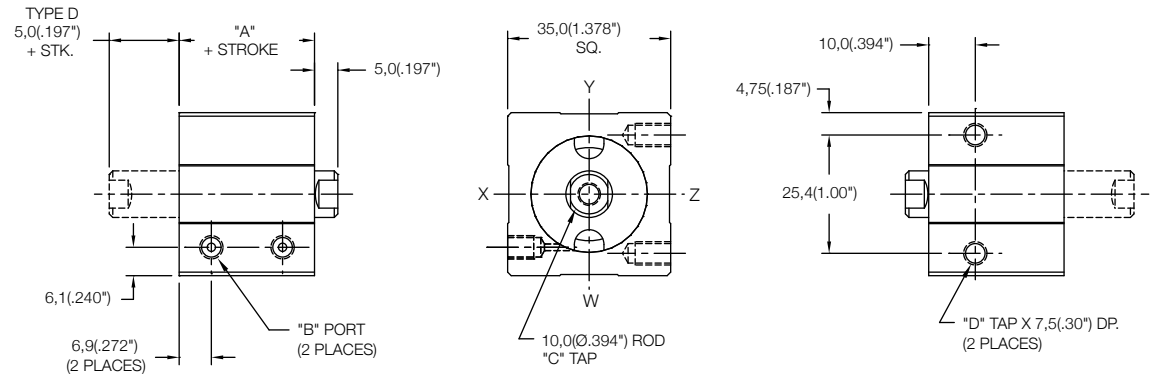
SH - HYDRAULIC OPTION (35 BAR 500 PSI)
(SEE PAGE 97)

UB, UF, UR - URETHANE SHOCK PAD OPTION
(SEE PAGE 97)

Non Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	10mm - 20mm	19,0(0.75")	PUSH 4,91 cm ² (0.76 in ²)
LE	_,	5mm - 15mm	24,0(0.95")	
LH	_,D	5mm - 10mm	29,0(1.14")	PULL 4,12 cm ² (0.64 in ²)
LS	S,R	5mm	34,0(1.34")	

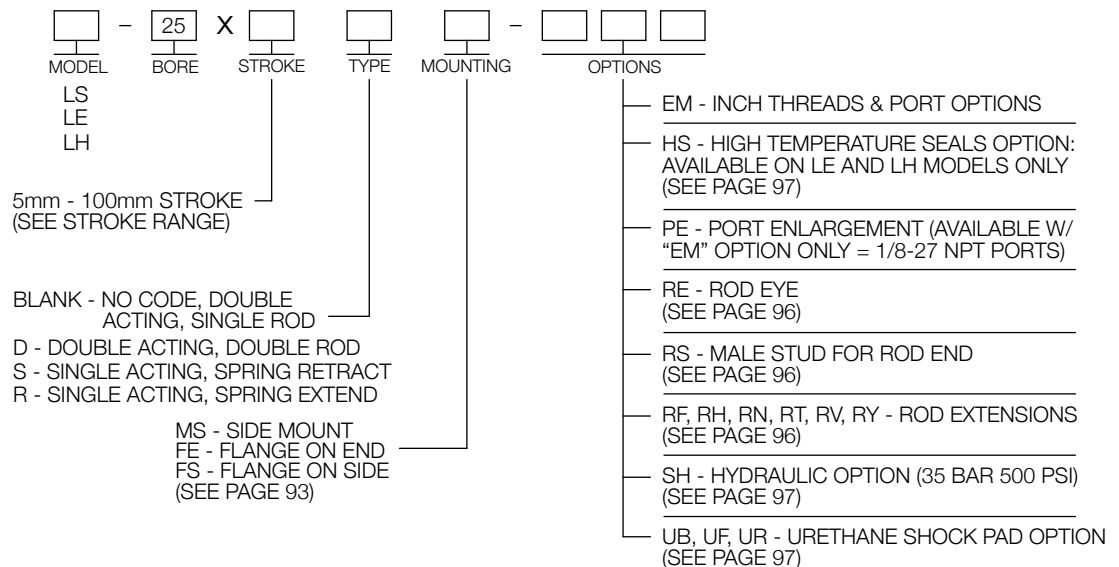
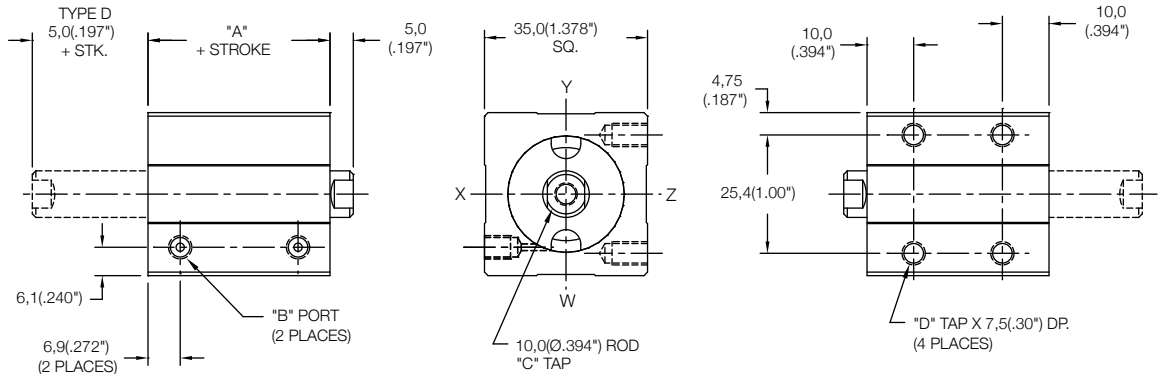
	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M5X0,8	#10-32
"D"	M5X0,8	#10-32



Non Magnetic Side Mount Cylinder "MS"

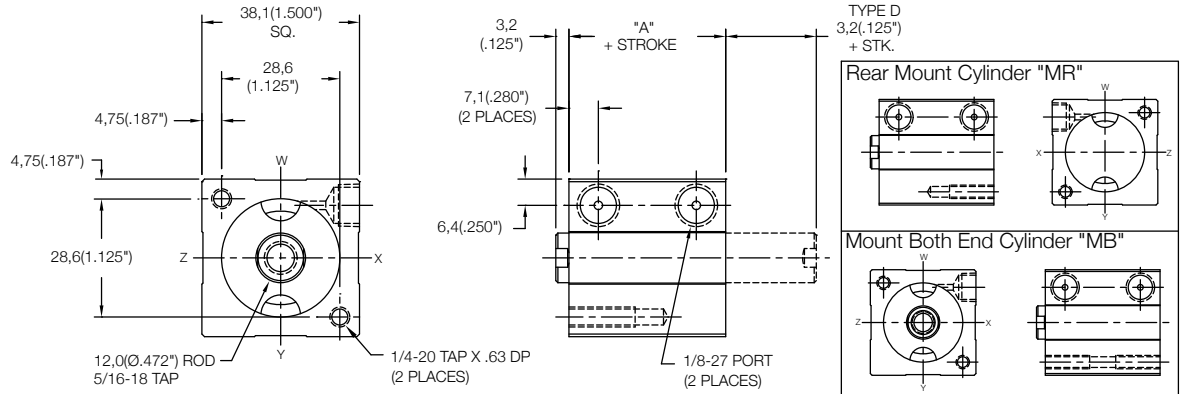
MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	25mm - 100mm	19,0(0.75")	PUSH 4,91 cm ² (0.76 in ²)
LE	_,	20mm - 100mm	24,0(0.95")	
LH	_,D	15mm - 100mm	29,0(1.14")	PULL 4,12 cm ² (0.64 in ²)
LS	S,R	10mm - 25mm	34,0(1.34")	
LS	S,R	26mm - 50mm	39,0(1.54")	

	Standard Threads	"EM" Option
"B"	M5X0,8	#10-32
"C"	M5X0,8	#10-32
"D"	M5X0,8	#10-32



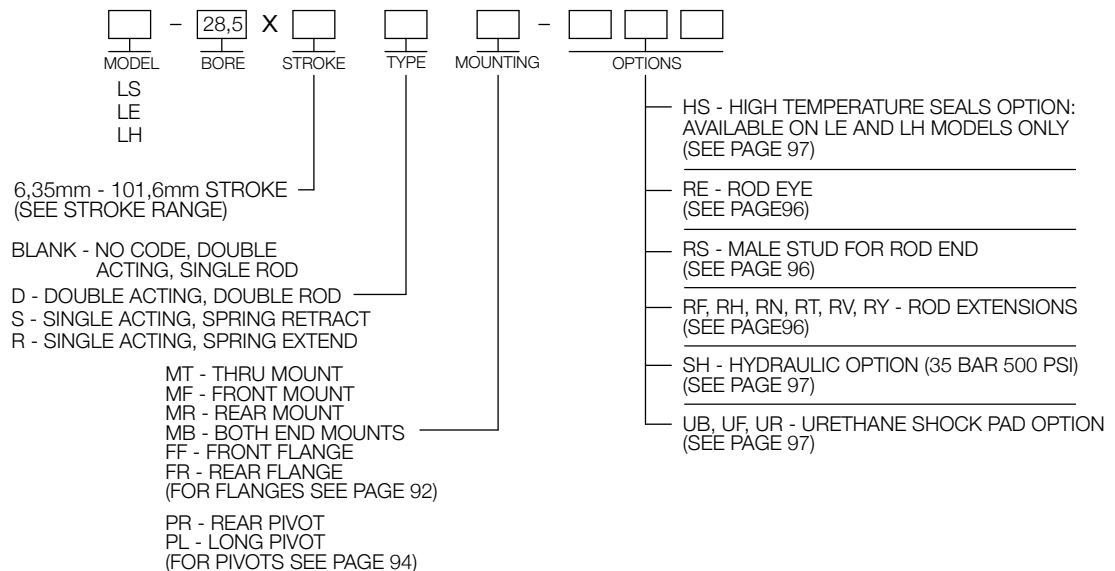
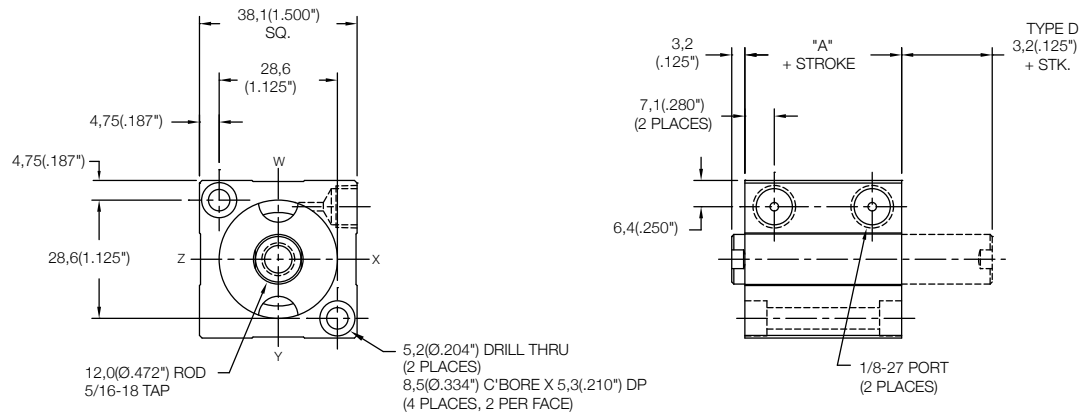
Non Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	6,35mm - 101,6mm	19,05(.75")	PUSH 6,41 cm ² (1.0 in ²)
LE	_,	6,35mm - 101,6mm	25,4(1.00")	
LH	_,D	6,35mm - 101,6mm	31,75(1.25")	PULL 5,28 cm ² (0.82 in ²)
LS	S,R	6,35mm - 25,4mm	31,75(1.25")	
LS	S,R	31,8mm - 50,8mm	38,1(1.50")	



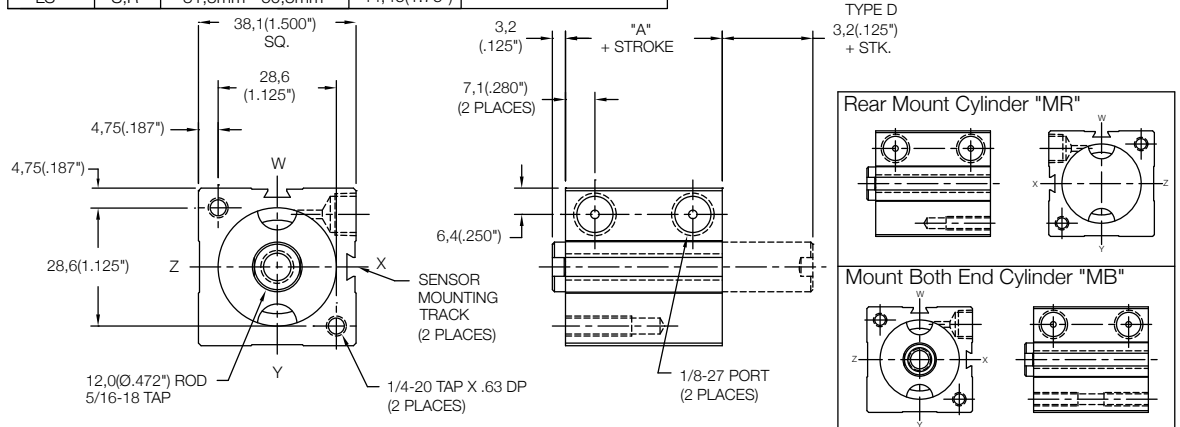
Non Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	6,35mm - 25,4mm	19,05(.75")	PUSH 6,41 cm ² (1.0 in ²)
LE	_,	6,35mm - 19,05mm	25,4(1.00")	
LH	_,D	6,35mm - 12,7mm	31,75(1.25")	PULL 5,28 cm ² (0.82 in ²)
LS	S,R	6,35mm - 12,7mm	31,75(1.25")	



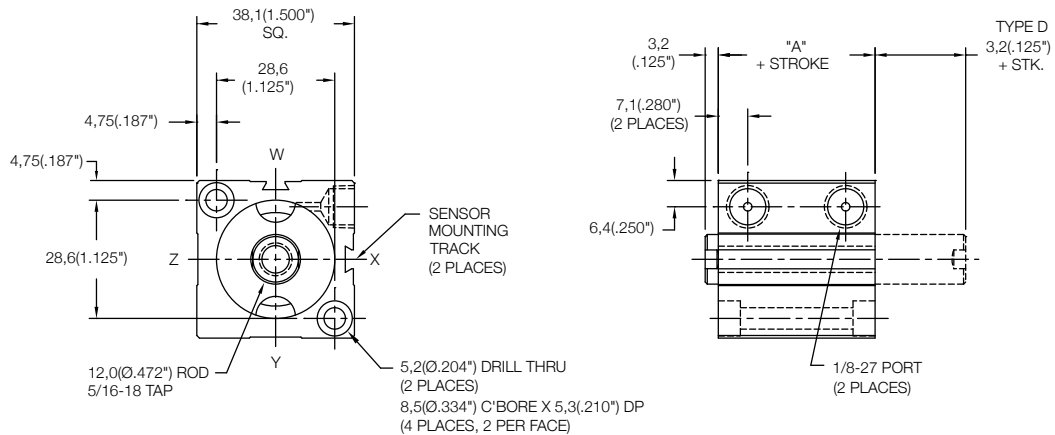
Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	6,35mm - 101,6mm	25,4(1.00")	PUSH 6,41 cm ² (1.0 in ²)
LE	...	6,35mm - 101,6mm	31,75(1.25")	
LH	...D	6,35mm - 101,6mm	38,1(1.50")	PULL 5,28 cm ² (0.82 in ²)
LS	S,R	6,35mm - 25,4mm	38,1(1.50")	
LS	S,R	31,8mm - 50,8mm	44,45(1.75")	



Magnetic Thru Mount Cylinder "MT"

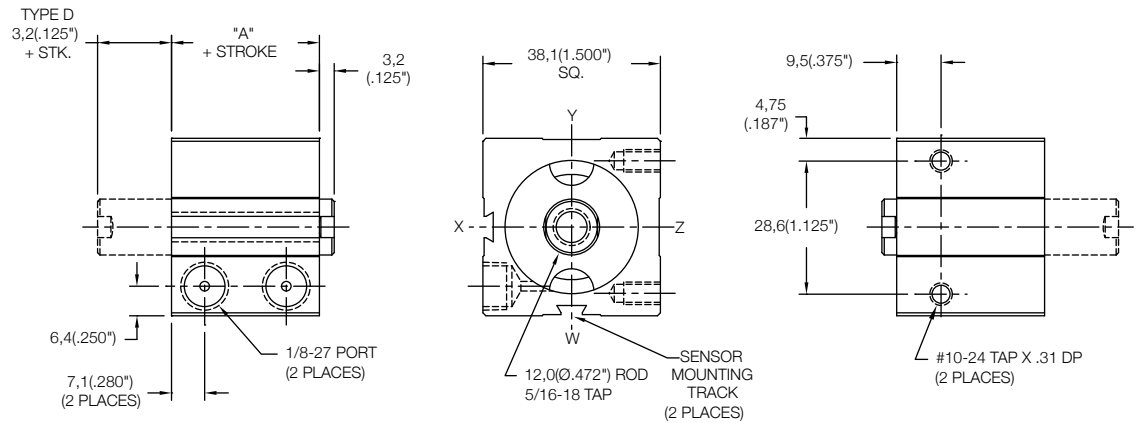
MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	6,35mm - 19,05mm	25,4(1.00")	PUSH 6,41 cm ² (1.0 in ²)
LE	...	6,35mm - 12,7mm	31,75(1.25")	
LH	...D	6,35mm	38,1(1.50")	PULL 5,28 cm ² (0.82 in ²)
LS	S,R	6,35mm	38,1(1.50")	



MODEL	BORE	STROKE	TYPE	MOUNTING	MAGNETIC	OPTIONS
LS LE LH	28,5	X			M	
6,35mm - 101,6mm STROKE (SEE STROKE RANGE) BLANK - NO CODE, DOUBLE ACTING, SINGLE ROD D - DOUBLE ACTING, DOUBLE ROD S - SINGLE ACTING, SPRING RETRACT R - SINGLE ACTING, SPRING EXTEND MT - THRU MOUNT MF - FRONT MOUNT MR - REAR MOUNT MB - BOTH END MOUNTS FF - FRONT FLANGE FR - REAR FLANGE (FOR FLANGES SEE PAGE 92) PR - REAR PIVOT PL - LONG PIVOT (FOR PIVOTS SEE PAGE 94) HS - HIGH TEMPERATURE SEALS OPTION: AVAILABLE ON LE AND LH MODELS ONLY (SEE PAGE 97) RE - ROD EYE (SEE PAGE 96) RS - MALE STUD FOR ROD END (SEE PAGE 96) RF, RH, RN, RT, RV, RY - ROD EXTENSIONS (SEE PAGE 96) SH - HYDRAULIC OPTION (35 BAR 500 PSI) (SEE PAGE 97) UB, UF, UR - URETHANE SHOCK PAD OPTION (SEE PAGE 97)						

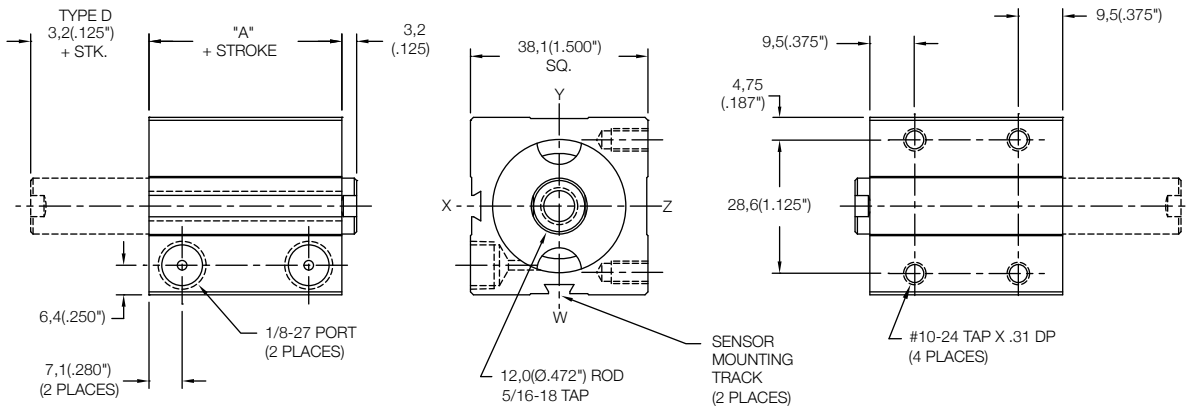
Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	6,35mm - 12,7mm	25,4(1.00")	PUSH 6,41 cm ² (1.0 in ²)
LE	-	6,35mm	31,75(1.25")	PULL 5,28 cm ² (0.82 in ²)



Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	19,05mm - 101,6mm	25,4(1.00")	PUSH 6,41 cm ² (1.0 in ²)
LE	-	12,7mm - 101,6mm	31,75(1.25")	PULL 5,28 cm ² (0.82 in ²)
LH	_,D	6,35mm - 101,6mm	38,1(1.50")	PULL 5,28 cm ² (0.82 in ²)
LS	S,R	6,35mm - 25,4mm	38,1(1.50")	
LS	S,R	31,8mm - 50,8mm	44,45(1.75")	



MODEL	BORE	STROKE	TYPE	MOUNTING	MAGNETIC	OPTIONS
LS LE LH	28.5	X			M	

6.35mm - 101.6mm STROKE
(SEE STROKE RANGE)

BLANK - NO CODE, DOUBLE ACTING, SINGLE ROD
D - DOUBLE ACTING, DOUBLE ROD
S - SINGLE ACTING, SPRING RETRACT
R - SINGLE ACTING, SPRING EXTEND

MS - SIDE MOUNT
FE - FLANGE ON END
FS - FLANGE ON SIDE
(SEE PAGE 93)

SENSORS SOLD SEPARATELY
SKS, SKP, SCS, SCP - SOLID STATE
LIMIT SENSORS (SEE PAGE 88)

HS - HIGH TEMPERATURE SEALS OPTION:
AVAILABLE ON LE AND LH MODELS ONLY
(SEE PAGE 97)

RE - ROD EYE
(SEE PAGE 96)

RS - MALE STUD FOR ROD END
(SEE PAGE 96)

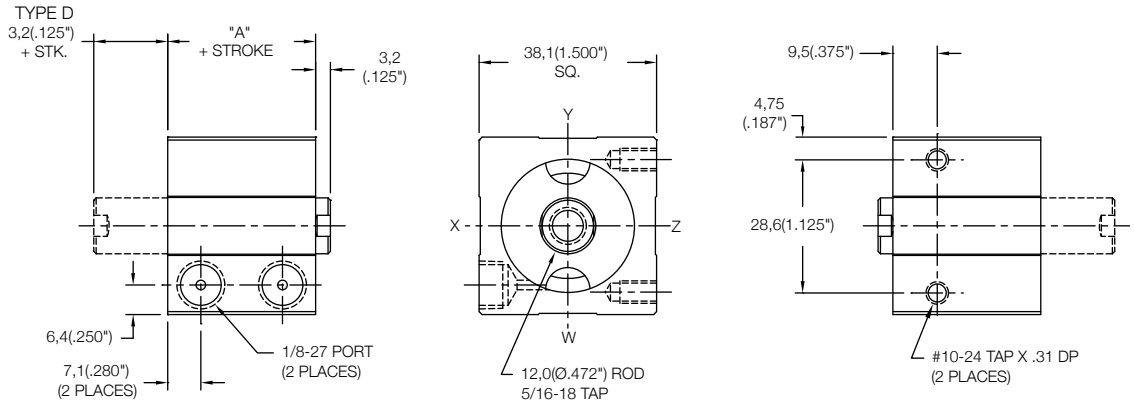
RF, RH, RN, RT, RV, RY - ROD EXTENSIONS
(SEE PAGE 96)

SH - HYDRAULIC OPTION (35 BAR 500 PSI)
(SEE PAGE 97)

UB, UF, UR - URETHANE SHOCK PAD OPTION
(SEE PAGE 97)

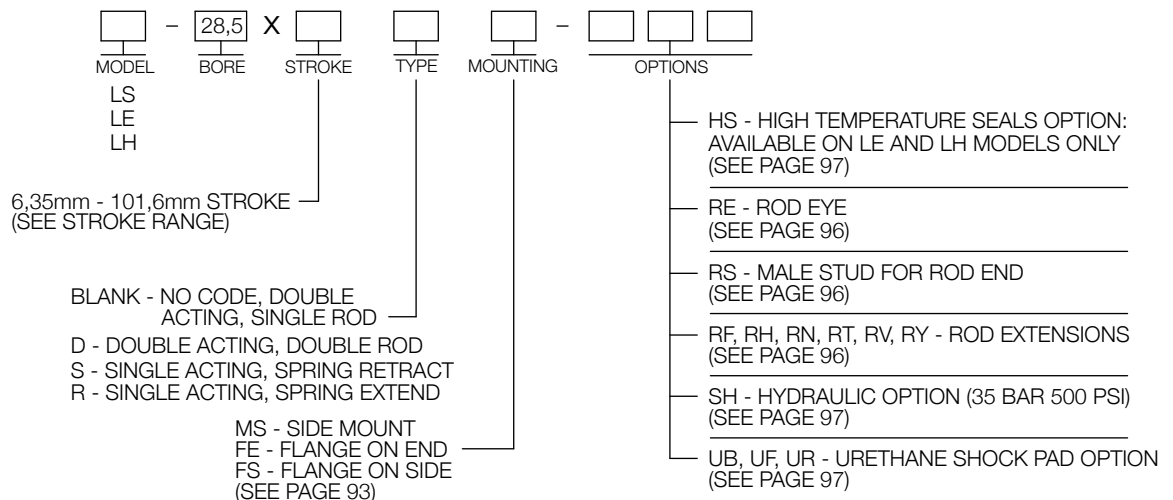
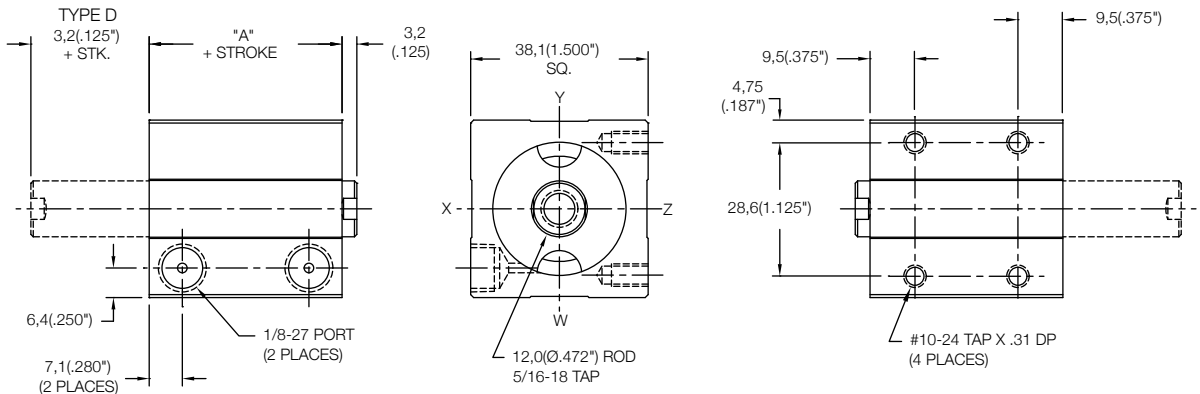
Non Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	6,35mm - 19,05mm	19,05(0.75")	PUSH 6,41 cm ² (1.0 in ²) PULL 5,28 cm ² (0.82 in ²)
LE	-	6,35mm - 12,7mm	25,4(1.00")	
LH	_,D	6,35mm	31,75(1.25")	
LS	S,R	6,35mm	31,75(1.25")	



Non Magnetic Side Mount Cylinder "MS"

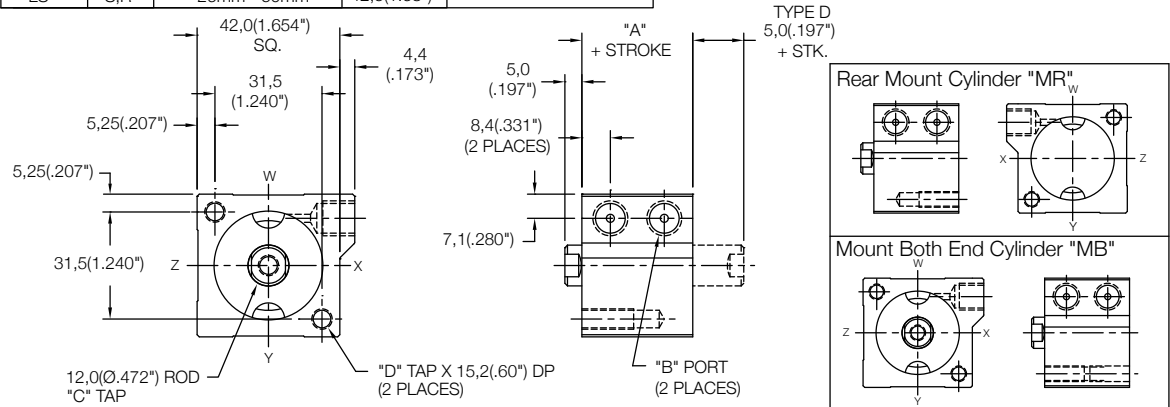
MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	25,4mm - 101,6mm	19,05(.75")	PUSH 6,41 cm ² (1.0 in ²) PULL 5,28 cm ² (0.82 in ²)
LE	-	19,05mm - 101,6mm	25,4(1.00")	
LH	_,D	12,7mm - 101,6mm	31,75(1.25")	
LS	S,R	12,7mm - 25,4mm	31,75(1.25")	
LS	S,R	31,8mm - 50,8mm	38,1(1.50")	



Non Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	__D	10mm - 100mm	22,5(0.89")	PUSH 8,04 cm ² (1.25 in ²) PULL 6,91 cm ² (1.07 in ²)
LE	__	5mm - 100mm	27,5(1.08")	
LH	__D	5mm - 100mm	32,5(1.28")	PULL 6,91 cm ² (1.07 in ²)
LS	S,R	5mm - 25mm	37,5(1.48")	
LS	S,R	26mm - 50mm	42,5(1.68")	

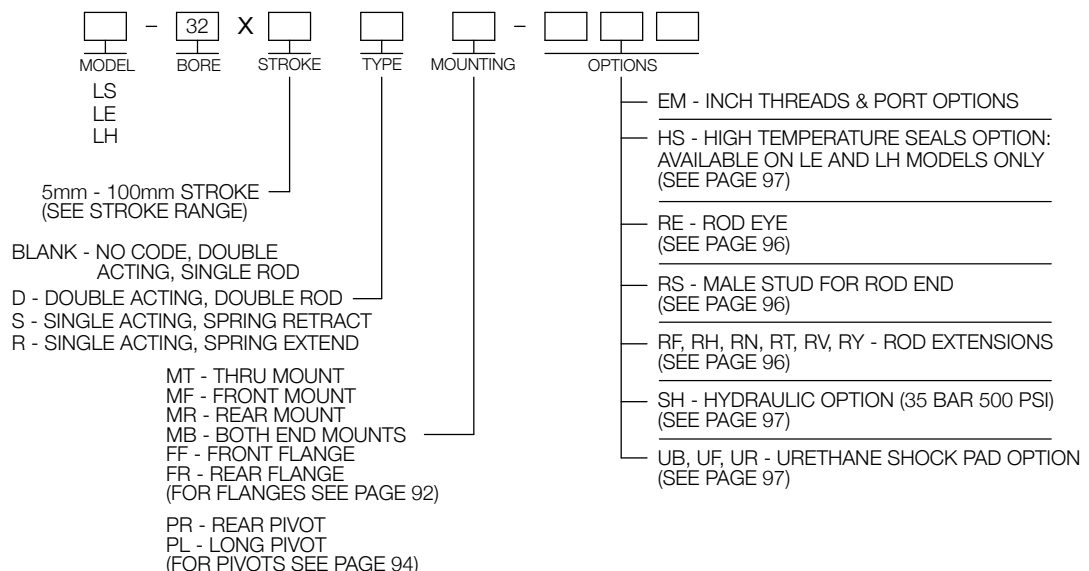
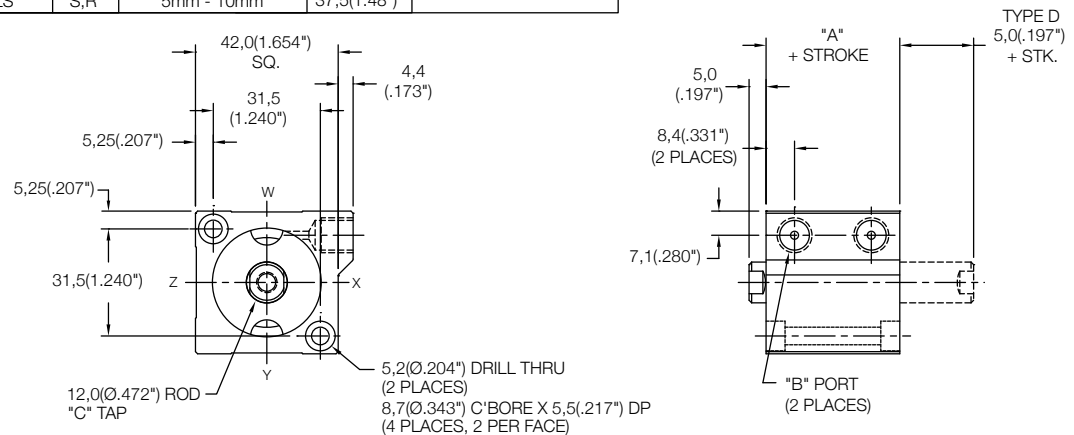
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M6X1,0	1/4-20
"D"	M6X1,0	1/4-20



Non Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	__D	10mm - 25mm	22,5(0.89")	PUSH 8,04 cm ² (1.25 in ²) PULL 6,91 cm ² (1.07 in ²)
LE	__	5mm - 20mm	27,5(1.08")	
LH	__D	5mm - 15mm	32,5(1.28")	PULL 6,91 cm ² (1.07 in ²)
LS	S,R	5mm - 10mm	37,5(1.48")	

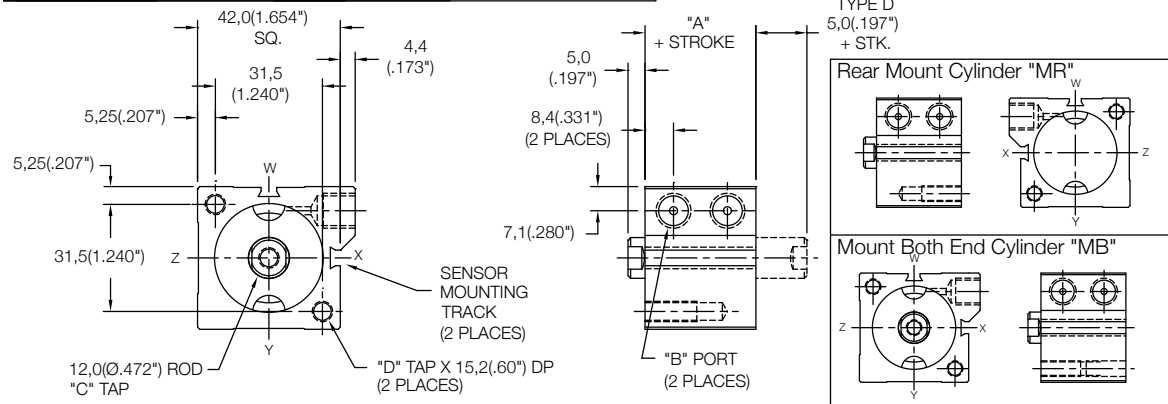
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M6X1,0	1/4-20



Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	5mm - 100mm	27,5(1.08")	PUSH 8,04 cm ² (1.25 in ²)
LE	...	5mm - 100mm	32,5(1.28")	
LH	...D	5mm - 100mm	37,5(1.48")	PULL 6,91 cm ² (1.07 in ²)
LS	S,R	5mm - 25mm	42,5(1.68")	
LS	S,R	26mm - 50mm	47,5(1.88")	

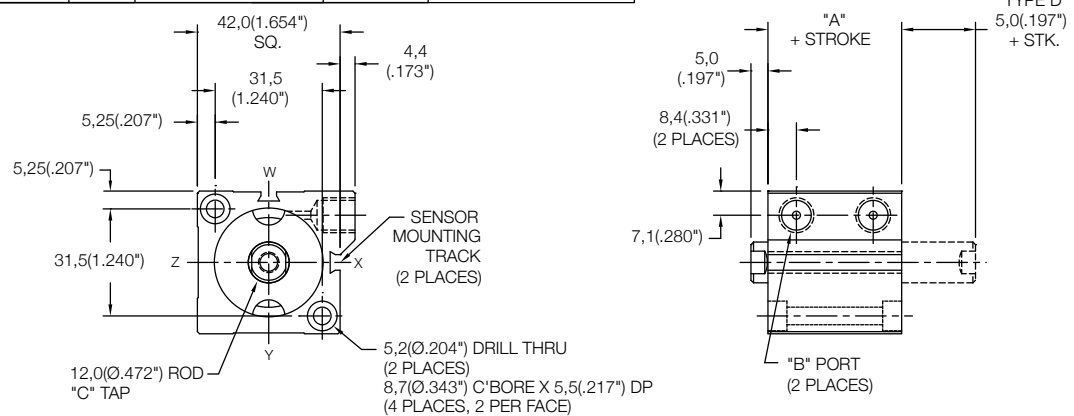
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M6X1,0	1/4-20
"D"	M6X1,0	1/4-20



Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	5mm - 20mm	27,5(1.08")	PUSH 8,04 cm ² (1.25 in ²)
LE	...	5mm - 15mm	32,5(1.28")	
LH	...D	5mm - 10mm	37,5(1.48")	PULL 6,91 cm ² (1.07 in ²)
LS	S,R	5mm	42,5(1.68")	

	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M6X1,0	1/4-20

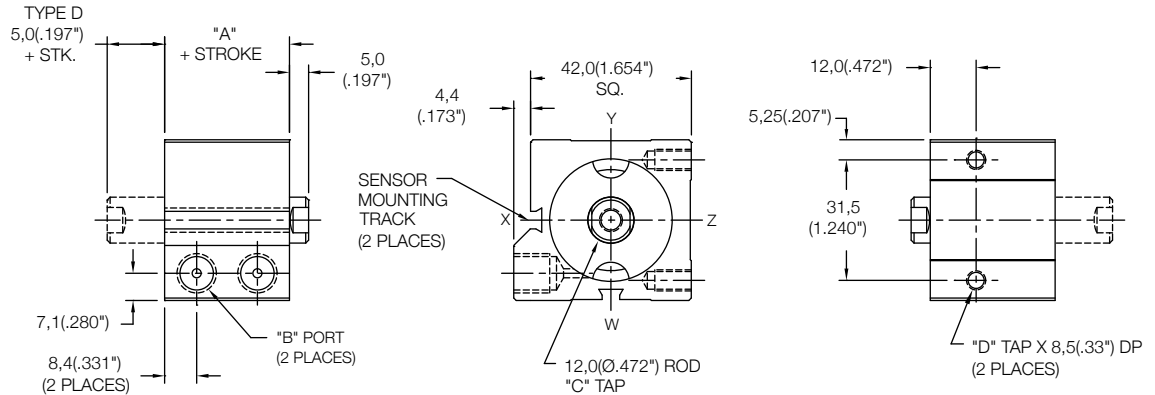


MODEL	-	32	X	STROKE	TYPE	MOUNTING	MAGNETIC	-	OPTIONS
LS LE LH							M		
5mm - 100mm STROKE (SEE STROKE RANGE)									
BLANK - NO CODE, DOUBLE ACTING, SINGLE ROD									
D - DOUBLE ACTING, DOUBLE ROD									
S - SINGLE ACTING, SPRING RETRACT									
R - SINGLE ACTING, SPRING EXTEND									
MT - THRU MOUNT									
MF - FRONT MOUNT									
MR - REAR MOUNT									
MB - BOTH END MOUNTS									
FF - FRONT FLANGE									
FR - REAR FLANGE (FOR FLANGES SEE PAGE 92)									
PR - REAR PIVOT									
PL - LONG PIVOT (FOR PIVOTS SEE PAGE 94)									
				SENSORS SOLD SEPARATELY SKS, SKP, SCS, SCP - SOLID STATE LIMIT SENSORS (SEE PAGE 88)					
				EM - INCH THREADS & PORT OPTIONS					
				HS - HIGH TEMPERATURE SEALS OPTION: AVAILABLE ON LE AND LH MODELS ONLY (SEE PAGE 97)					
				RE - ROD EYE (SEE PAGE 96)					
				RS - MALE STUD FOR ROD END (SEE PAGE 96)					
				RF, RH, RN, RT, RV, RY - ROD EXTENSIONS (SEE PAGE 96)					
				SH - HYDRAULIC OPTION (35 BAR 500 PSI) (SEE PAGE 97)					
				UB, UF, UR - URETHANE SHOCK PAD OPTION (SEE PAGE 97)					

Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	5mm - 15mm	27,5(1.08")	PUSH 8,04 cm ² (1.25 in ²)
LE	...	5mm - 10mm	32,5(1.28")	
LH	...D	5mm	37,5(1.48")	PULL 6,91 cm ² (1.07 in ²)

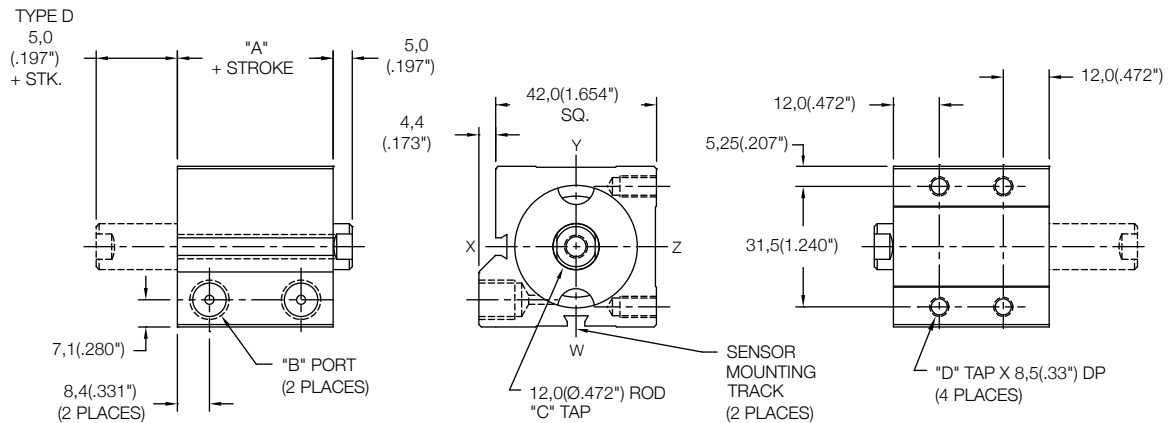
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M6X1,0	1/4-20
"D"	M5X0,8	#10-32



Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	20mm - 100mm	27,5(1.08")	PUSH 8,04 cm ² (1.25 in ²)
LE	...	15mm - 100mm	32,5(1.28")	
LH	...D	10mm - 100mm	37,5(1.48")	PULL 6,91 cm ² (1.07 in ²)
LS	S,R	5mm - 25mm	42,5(1.68")	
LS	S,R	26mm - 50mm	47,5(1.87")	

	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M6X1,0	1/4-20
"D"	M5X0,8	#10-32

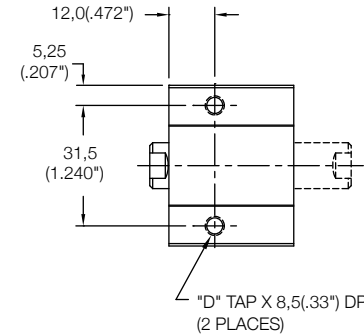
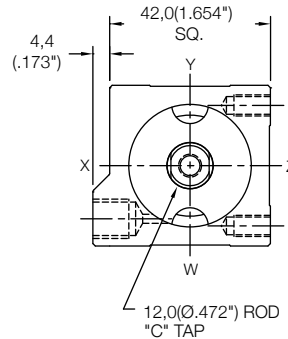
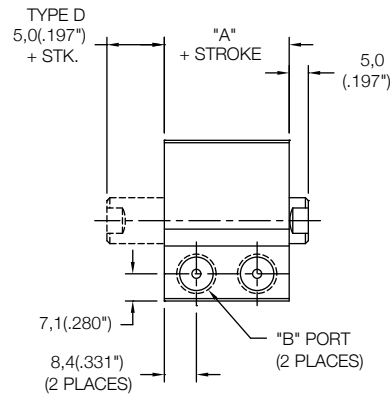


MODEL LS LE LH	BORE 32	STROKE X	TYPE	MOUNTING	MAGNETIC M	OPTIONS	SENSORS SOLD SEPARATELY SKS, SKP, SCS, SCP - SOLID STATE LIMIT SENSORS (SEE PAGE 88)	
5mm - 100mm STROKE (SEE STROKE RANGE)			BLANK - NO CODE, DOUBLE ACTING, SINGLE ROD		MS - SIDE MOUNT FE - FLANGE ON END FS - FLANGE ON SIDE (SEE PAGE 93)			EM - INCH THREADS & PORT OPTIONS
					HS - HIGH TEMPERATURE SEALS OPTION: AVAILABLE ON LE AND LH MODELS ONLY (SEE PAGE 97)			
					RE - ROD EYE (SEE PAGE 96)			
					RS - MALE STUD FOR ROD END (SEE PAGE 96)			
					RF, RH, RN, RT, RV, RY - ROD EXTENSIONS (SEE PAGE 96)			
					SH - HYDRAULIC OPTION (35 BAR 500 PSI) (SEE PAGE 97)			
					UB, UF, UR - URETHANE SHOCK PAD OPTION (SEE PAGE 97)			

Non Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	10mm - 20mm	22,5(0.89")	PUSH 8,04 cm ² (1.25 in ²)
LE	...	5mm - 15mm	27,5(1.08")	
LH	...D	5mm - 10mm	32,5(1.28")	PULL 6,91 cm ² (1.07 in ²)
LS	S,R	5mm	37,5(1.48")	

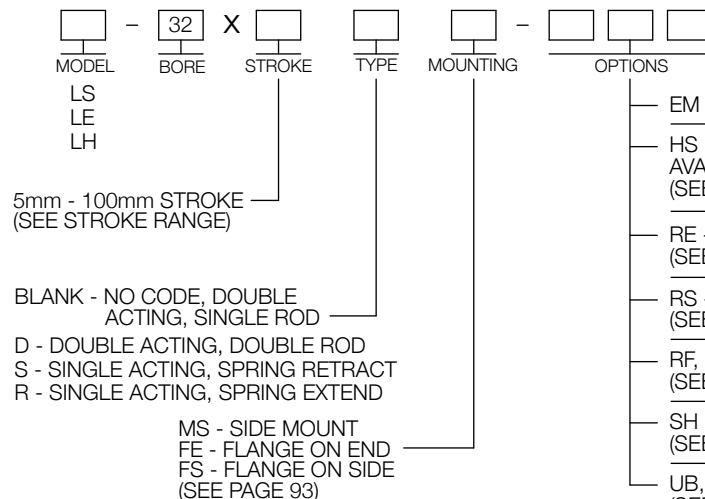
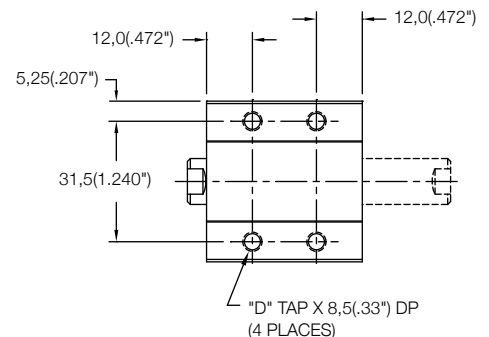
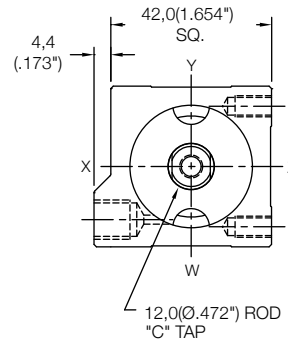
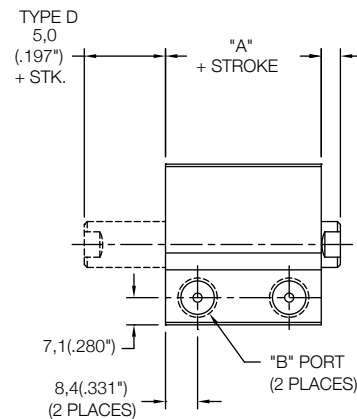
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M6X1,0	1/4-20
"D"	M5X0,8	#10-32



Non Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	25mm - 100mm	22,5(0.89")	PUSH 8,04 cm ² (1.25 in ²)
LE	...	20mm - 100mm	27,5(1.08")	
LH	...D	15mm - 100mm	32,5(1.28")	PULL 6,91 cm ² (1.07 in ²)
LS	S,R	10mm - 25mm	37,5(1.48")	
LS	S,R	26mm - 50mm	42,5(1.68")	

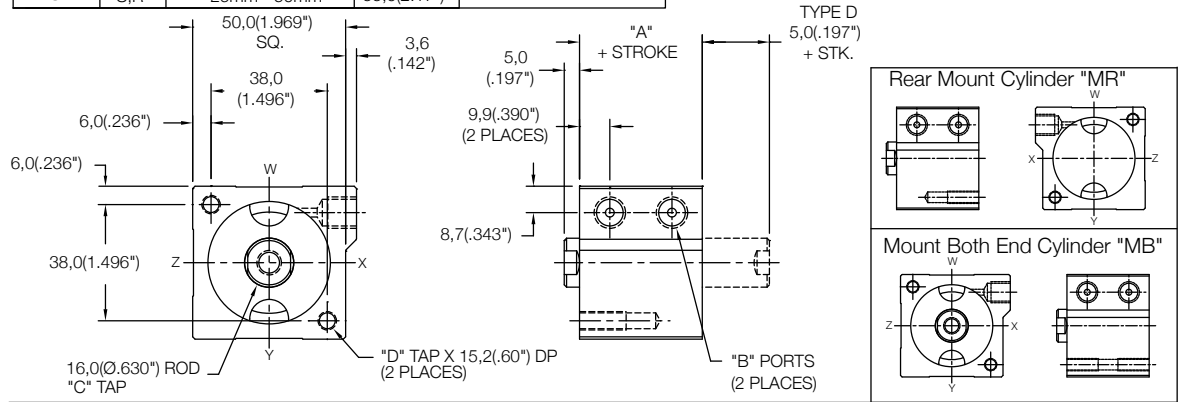
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M6X1,0	1/4-20
"D"	M5X0,8	#10-32



Non Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	10mm - 100mm	25,0(0.98")	PUSH 12,56 cm ² (1.95 in ²) PULL 10,55 cm ² (1.64 in ²)
LE	-	5mm - 100mm	35,0(1.38")	
LH	-	5mm - 100mm	40,0(1.58")	PUSH 12,56 cm ² (1.95 in ²) PULL 10,55 cm ² (1.64 in ²)
LH	D	5mm - 100mm	45,0(1.78")	
LS	S,R	5mm - 25mm	45,0(1.78")	PUSH 12,56 cm ² (1.95 in ²) PULL 10,55 cm ² (1.64 in ²)
LS	S,R	26mm - 50mm	55,0(2.17")	

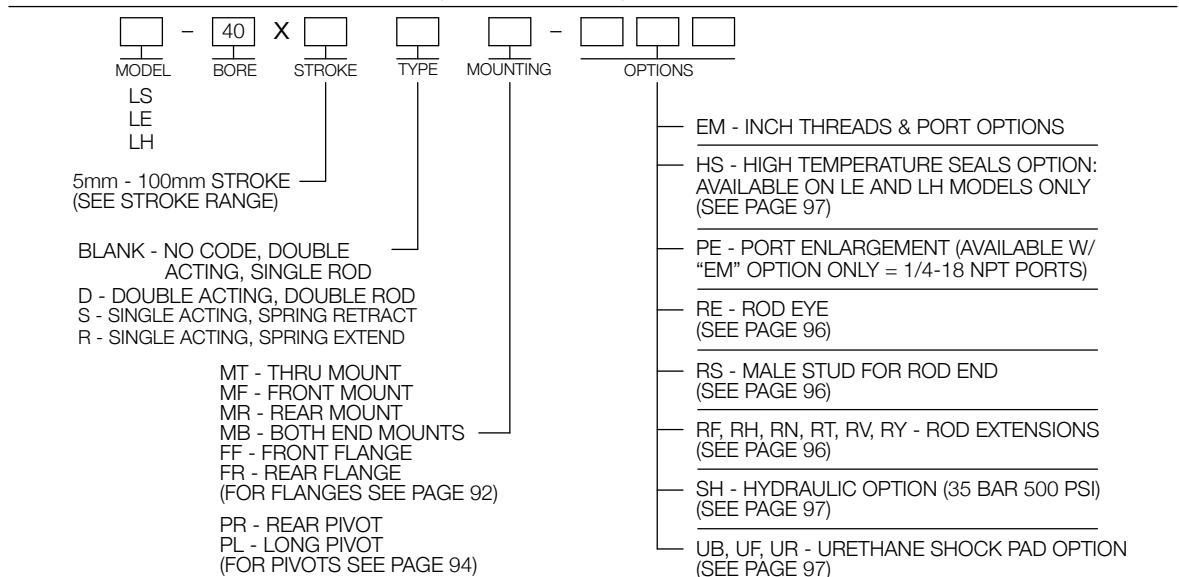
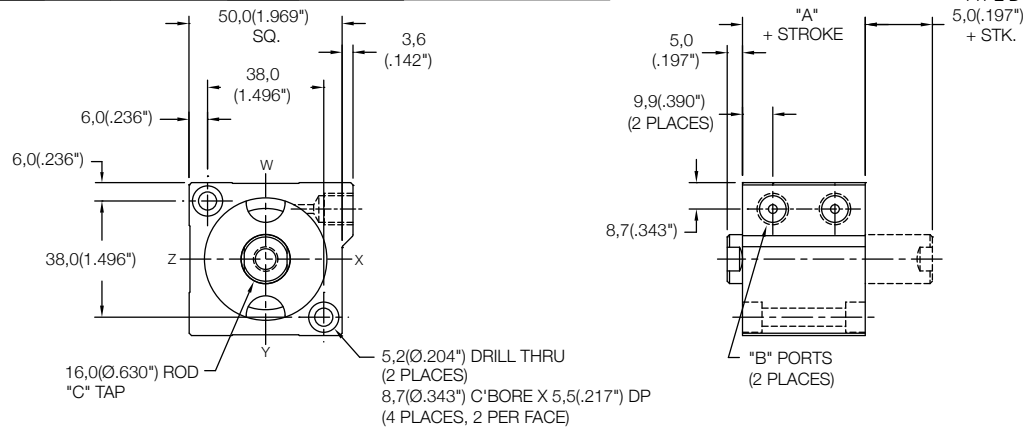
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M8X1,25	5/16-18
"D"	M6X1,0	1/4-20



Non Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	10mm - 25mm	25,0(0.98")	PUSH 12,56 cm ² (1.95 in ²) PULL 10,55 cm ² (1.64 in ²)
LE	-	5mm - 15mm	35,0(1.38")	
LH	-	5mm - 10mm	40,0(1.58")	PUSH 12,56 cm ² (1.95 in ²) PULL 10,55 cm ² (1.64 in ²)
LH	D	5mm	45,0(1.78")	
LS	S,R	5mm	45,0(1.78")	PUSH 12,56 cm ² (1.95 in ²) PULL 10,55 cm ² (1.64 in ²)
LS	S,R	5mm	45,0(1.78")	

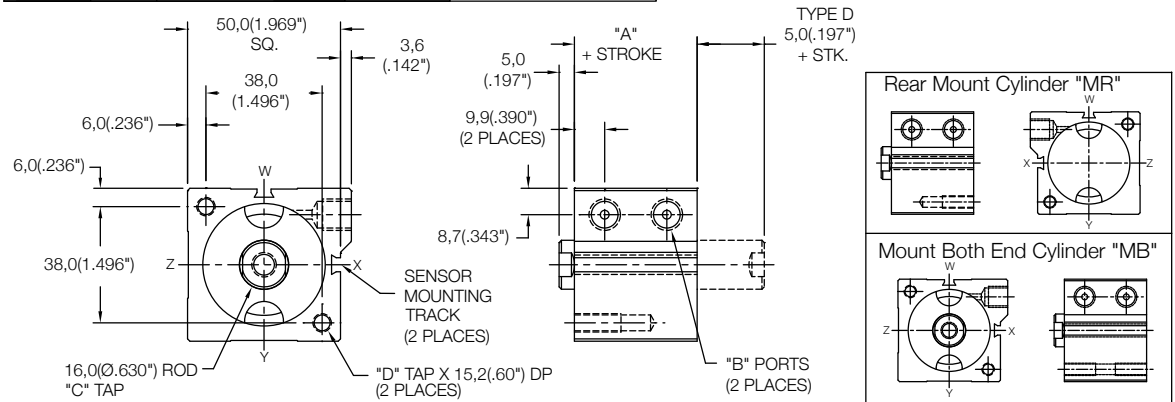
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M8X1,25	5/16-18



Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	—D	5mm - 100mm	30,0(1.18")	PUSH 12,56 cm ² (1.95 in ²) PULL 10,55 cm ² (1.64 in ²)
LE	—	5mm - 100mm	40,0(1.58")	
LH	—	5mm - 100mm	45,0(1.78")	PUSH 12,56 cm ² (1.95 in ²) PULL 10,55 cm ² (1.64 in ²)
LH	D	5mm - 100mm	50,0(1.98")	
LS	S,R	5mm - 25mm	50,0(1.97")	
LS	S,R	26mm - 50mm	60,0(2.36")	

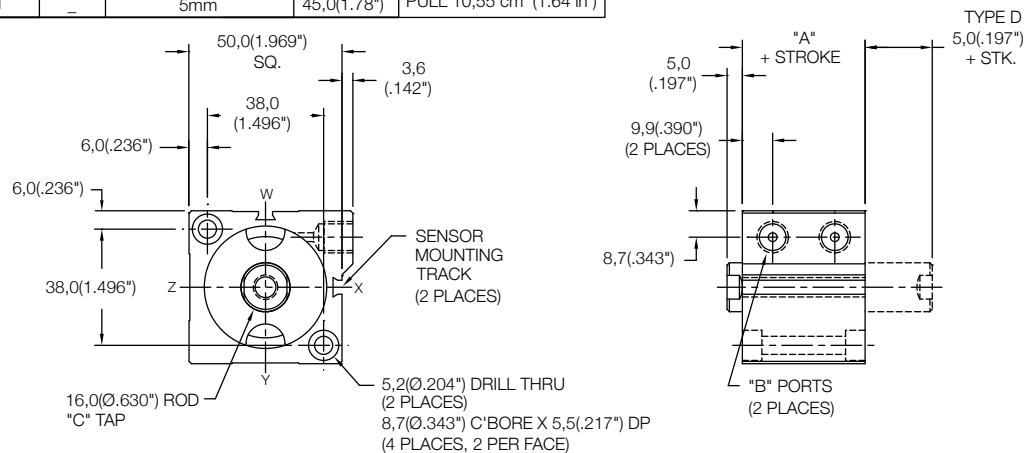
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M8X1,25	5/16-18
"D"	M6X1,0	1/4-20



Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	—D	5mm - 20mm	30,0(1.18")	PUSH 12,56 cm ² (1.95 in ²) PULL 10,55 cm ² (1.64 in ²)
LE	—	5mm - 10mm	40,0(1.58")	
LH	—	5mm	45,0(1.78")	

	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M8X1,25	5/16-18

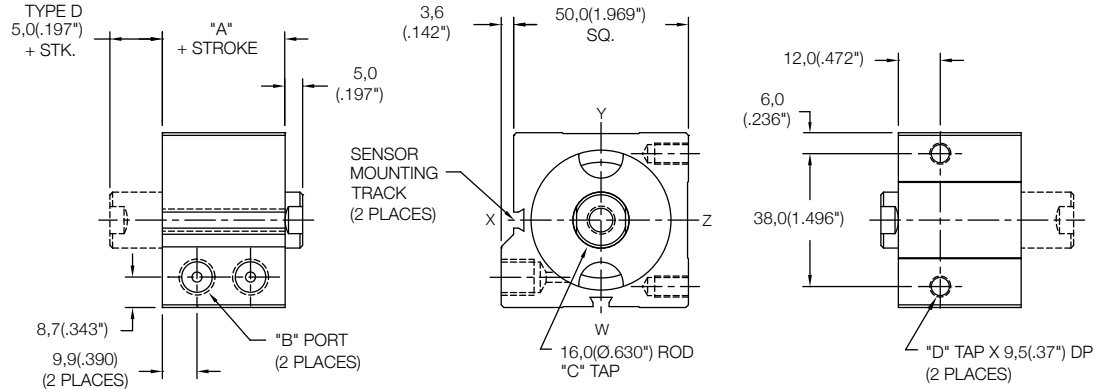


MODEL	-	40	X	STROKE	TYPE	MOUNTING	MAGNETIC	-	OPTIONS
LS LE LH							M		
5mm - 100mm STROKE (SEE STROKE RANGE)									
BLANK - NO CODE, DOUBLE ACTING, SINGLE ROD									
D - DOUBLE ACTING, DOUBLE ROD									
S - SINGLE ACTING, SPRING RETRACT									
R - SINGLE ACTING, SPRING EXTEND									
MT - THRU MOUNT									
MF - FRONT MOUNT									
MR - REAR MOUNT									
MB - BOTH END MOUNTS									
FF - FRONT FLANGE									
FR - REAR FLANGE (FOR FLANGES SEE PAGE 92)									
PR - REAR PIVOT									
PL - LONG PIVOT (FOR PIVOTS SEE PAGE 94)									
				SENSORS SOLD SEPARATELY SKS, SKP, SCS, SCP - SOLID STATE LIMIT SENSORS (SEE PAGE 88)					
				EM - INCH THREADS & PORT OPTIONS					
				HS - HIGH TEMPERATURE SEALS OPTION: AVAILABLE ON LE AND LH MODELS ONLY (SEE PAGE 97)					
				PE - PORT ENLARGEMENT (AVAILABLE W/ "EM" OPTION ONLY = 1/4-18 NPT PORTS)					
				RE - ROD EYE (SEE PAGE 96)					
				RS - MALE STUD FOR ROD END (SEE PAGE 96)					
				RF, RH, RN, RT, RV, RY - ROD EXTENSIONS (SEE PAGE 96)					
				SH - HYDRAULIC OPTION (35 BAR 500 PSI) (SEE PAGE 97)					
				UB, UF, UR - URETHANE SHOCK PAD OPTION (SEE PAGE 97)					

Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	5mm - 15mm	30,0(1.18")	PUSH 12,56 cm ² (1.95 in ²)
LE	-	5mm	40,0(1.58")	PULL 10,55 cm ² (1.64 in ²)

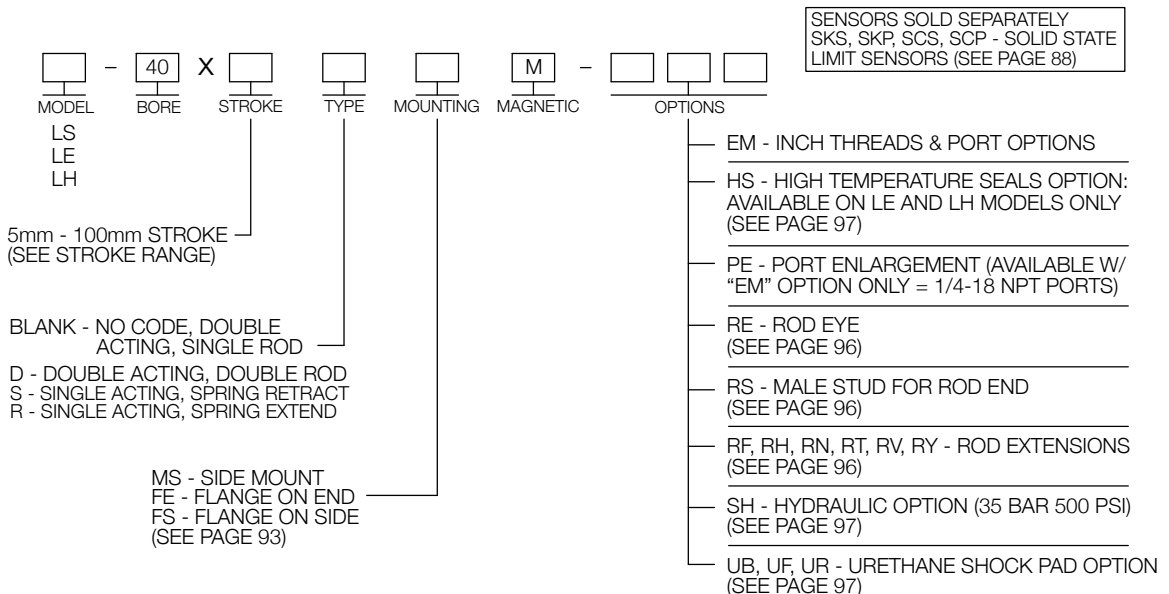
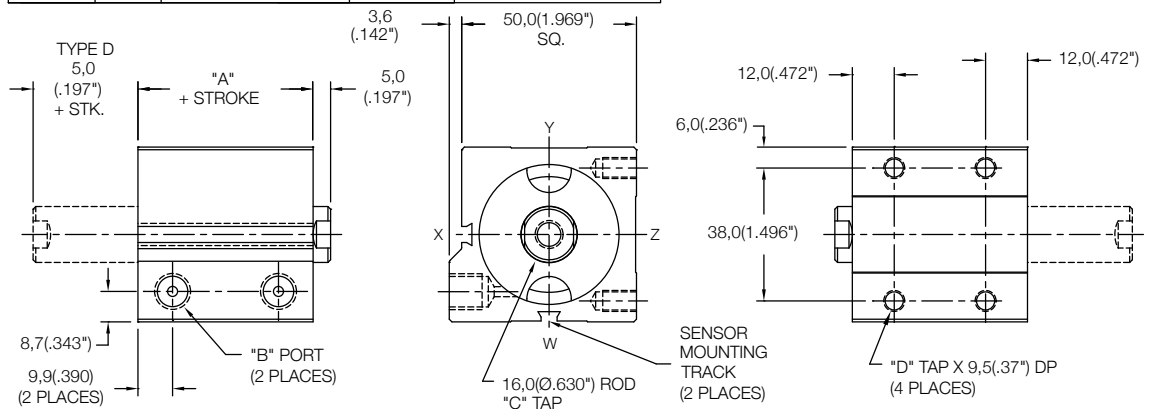
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M8X1,25	5/16-18
"D"	M6X1,0	1/4-20



Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	20mm - 100mm	30,0(1.18")	PUSH 12,56 cm ² (1.95 in ²)
LE	-	10mm - 100mm	40,0(1.58")	PULL 10,55 cm ² (1.64 in ²)
LH	-	5mm - 100mm	45,0(1.78")	
LH	D	5mm - 100mm	50,0(1.97")	
LS	S,R	5mm - 25mm	50,0(1.97")	
LS	S,R	26mm - 50mm	60,0(2.36")	

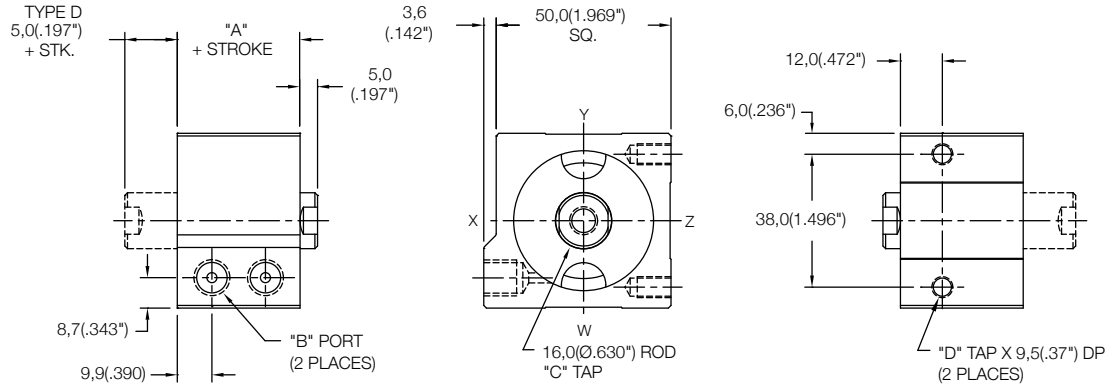
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M8X1,25	5/16-18
"D"	M6X1,0	1/4-20



Non Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	—D	10mm - 20mm	25,0(0.98")	PUSH 12,56 cm ² (1.95 in ²)
LE	—	5mm - 10mm	35,0(1.38")	
LH	—	5mm	40,0(1.58")	PULL 10,55 cm ² (1.64 in ²)

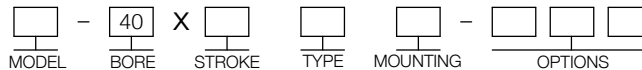
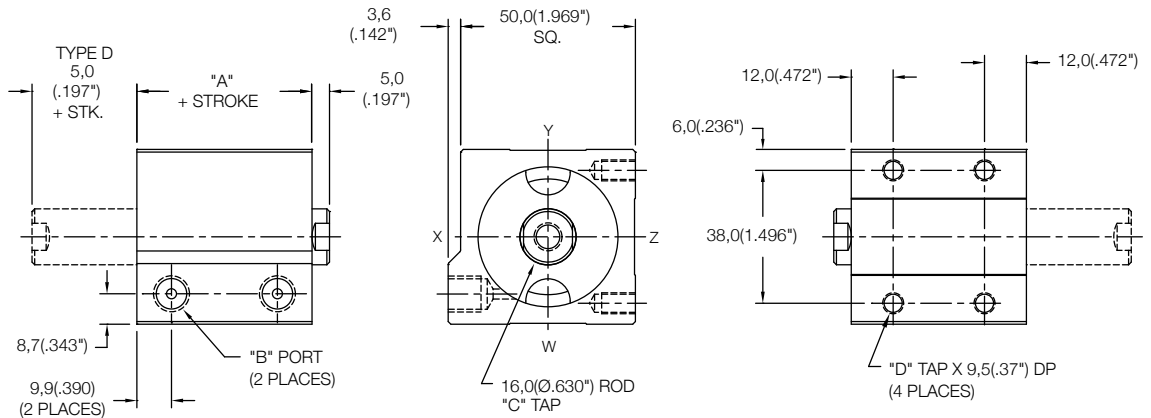
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M8X1,25	5/16-18
"D"	M6X1,0	1/4-20



Non Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	—D	25mm - 100mm	25,0(0.98")	PUSH 12,56 cm ² (1.95 in ²)
LE	—	15mm - 100mm	35,0(1.38")	
LH	—	10mm - 100mm	40,0(1.58")	PULL 10,55 cm ² (1.64 in ²)
LH	D	5mm - 100mm	45,0(1.78")	
LS	S,R	5mm - 25mm	45,0(1.78")	
LS	S,R	26mm - 50mm	55,0(2.17")	

	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M8X1,25	5/16-18
"D"	M6X1,0	1/4-20



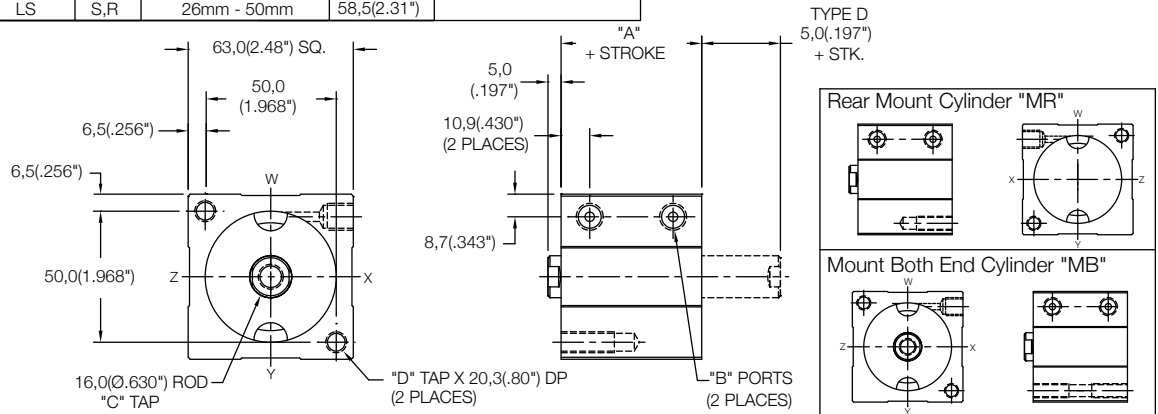
- LS
- LE
- LH
- 5mm - 100mm STROKE (SEE STROKE RANGE)
- BLANK - NO CODE, DOUBLE ACTING, SINGLE ROD
- D - DOUBLE ACTING, DOUBLE ROD
- S - SINGLE ACTING, SPRING RETRACT
- R - SINGLE ACTING, SPRING EXTEND
- MS - SIDE MOUNT
- FE - FLANGE ON END
- FS - FLANGE ON SIDE (SEE PAGE 93)

- EM - INCH THREADS & PORT OPTIONS
- HS - HIGH TEMPERATURE SEALS OPTION: AVAILABLE ON LE AND LH MODELS ONLY (SEE PAGE 97)
- PE - PORT ENLARGEMENT (AVAILABLE W/ "EM" OPTION ONLY = 1/4-18 NPT PORTS)
- RE - ROD EYE (SEE PAGE 96)
- RS - MALE STUD FOR ROD END (SEE PAGE 96)
- RF, RH, RN, RT, RV, RY - ROD EXTENSIONS (SEE PAGE 96)
- SH - HYDRAULIC OPTION (35 BAR 500 PSI) (SEE PAGE 97)
- UB, UF, UR - URETHANE SHOCK PAD OPTION (SEE PAGE 97)

Non Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	10mm - 100mm	28,5(1.12")	PUSH 19,63 cm ² (3.04 in ²) PULL 17,62 cm ² (2.73 in ²)
LE	-	5mm - 100mm	38,5(1.52")	
LH	-	5mm - 100mm	43,5(1.72")	PUSH 19,63 cm ² (3.04 in ²) PULL 17,62 cm ² (2.73 in ²)
LH	D	5mm - 100mm	48,5(1.91")	
LS	S,R	5mm - 25mm	48,5(1.91")	
LS	S,R	26mm - 50mm	58,5(2.31")	

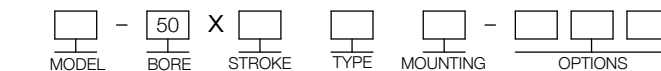
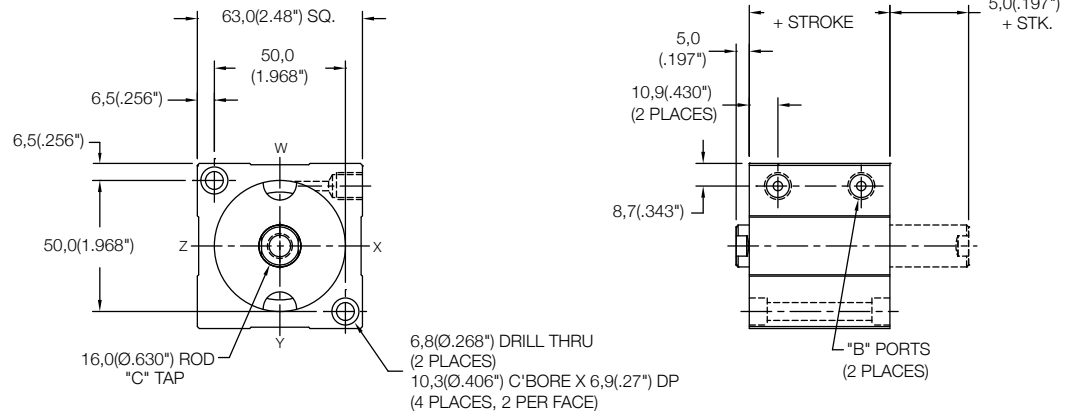
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M10X1,5	3/8-24
"D"	M8X1,25	5/16-18



Non Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	10mm - 40mm	28,5(1.12")	PUSH 19,63 cm ² (3.04 in ²) PULL 17,62 cm ² (2.73 in ²)
LE	-	5mm - 30mm	38,5(1.52")	
LH	-	5mm - 25mm	43,5(1.72")	PUSH 19,63 cm ² (3.04 in ²) PULL 17,62 cm ² (2.73 in ²)
LH	D	5mm - 20mm	48,5(1.91")	
LS	S,R	5mm - 20mm	48,5(1.91")	

	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M10X1,5	3/8-24



MODEL
LS
LE
LH

5mm - 100mm STROKE
(SEE STROKE RANGE)

BLANK - NO CODE, DOUBLE
ACTING, SINGLE ROD

D - DOUBLE ACTING, DOUBLE ROD
S - SINGLE ACTING, SPRING RETRACT
R - SINGLE ACTING, SPRING EXTEND

MT - THRU MOUNT
MF - FRONT MOUNT
MR - REAR MOUNT
MB - BOTH END MOUNTS
FF - FRONT FLANGE
FR - REAR FLANGE
(FOR FLANGES SEE PAGE 92)

PR - REAR PIVOT
PL - LONG PIVOT
(FOR PIVOTS SEE PAGE 94)

EM - INCH THREADS & PORT OPTIONS

HS - HIGH TEMPERATURE SEALS OPTION:
AVAILABLE ON LE AND LH MODELS ONLY
(SEE PAGE 97)

PE - PORT ENLARGEMENT (AVAILABLE W/
"EM" OPTION ONLY = 1/4-18 NPT PORTS)

RE - ROD EYE
(SEE PAGE 96)

RS - MALE STUD FOR ROD END
(SEE PAGE 96)

RF, RH, RN, RT, RV, RY - ROD EXTENSIONS
(SEE PAGE 96)

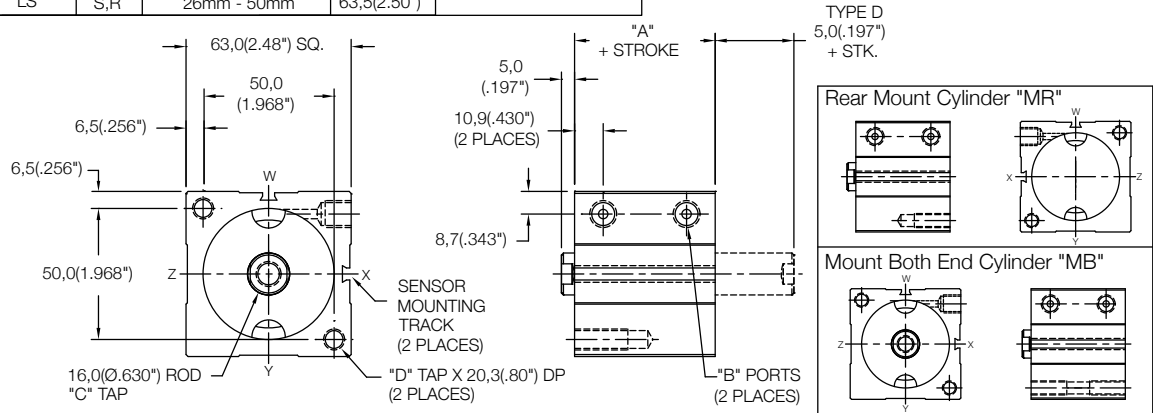
SH - HYDRAULIC OPTION (35 BAR 500 PSI)
(SEE PAGE 97)

UB, UF, UR - URETHANE SHOCK PAD OPTION
(SEE PAGE 97)

Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	—,D	5mm - 100mm	33,5(1.32")	PUSH 19,63 cm ² (3.04 in ²)
LE	—	5mm - 100mm	43,5(1.72")	
LH	—	5mm - 100mm	48,5(1.91")	PULL 17,62 cm ² (2.73 in ²)
LH	D	5mm - 100mm	53,5(2.11")	
LS	S,R	5mm - 25mm	53,5(2.11")	
LS	S,R	26mm - 50mm	63,5(2.50")	

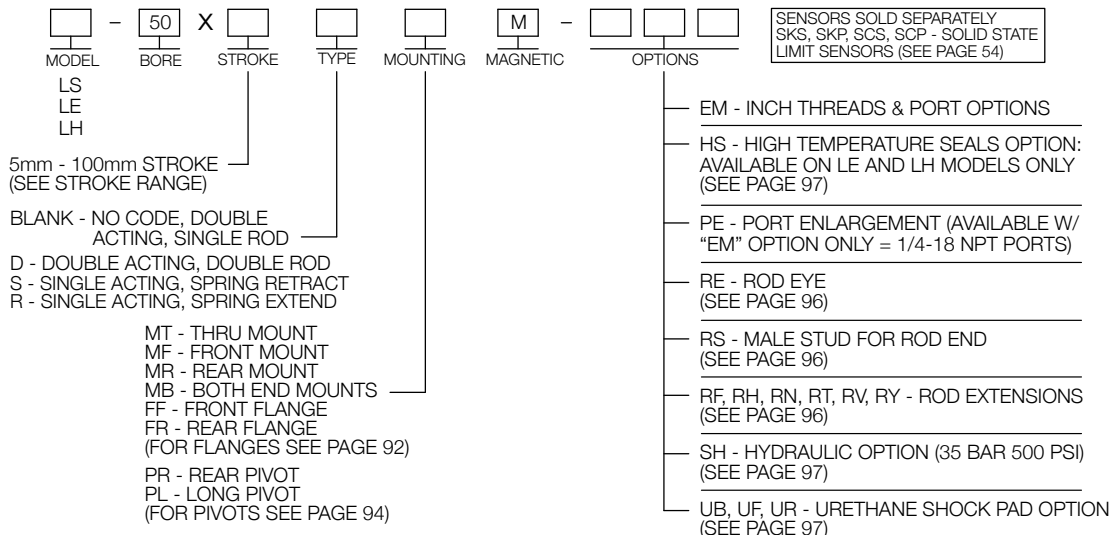
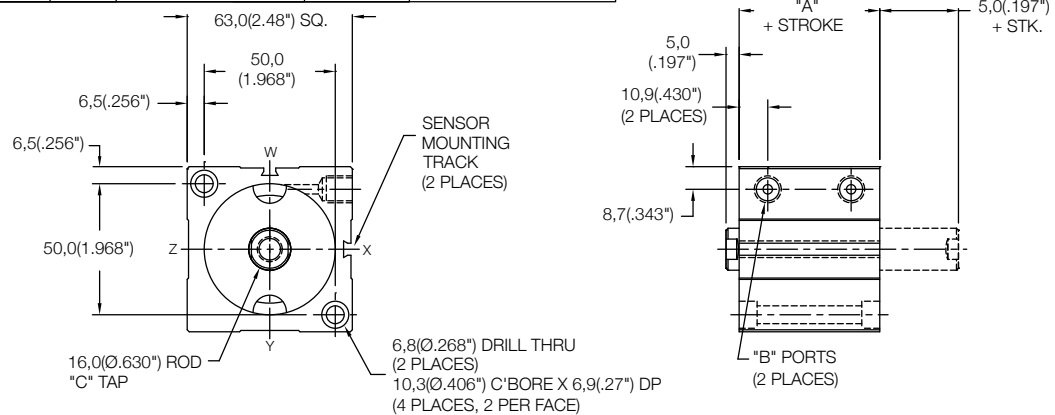
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M10X1,5	3/8-24
"D"	M8X1,25	5/16-18



Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	—,D	5mm - 35mm	33,5(1.32")	PUSH 19,63 cm ² (3.04 in ²)
LE	—	5mm - 25mm	43,5(1.72")	
LH	—	5mm - 20mm	48,5(1.91")	PULL 17,62 cm ² (2.73 in ²)
LH	D	5mm - 15mm	53,5(2.11")	
LS	S,R	5mm - 15mm	53,5(2.11")	

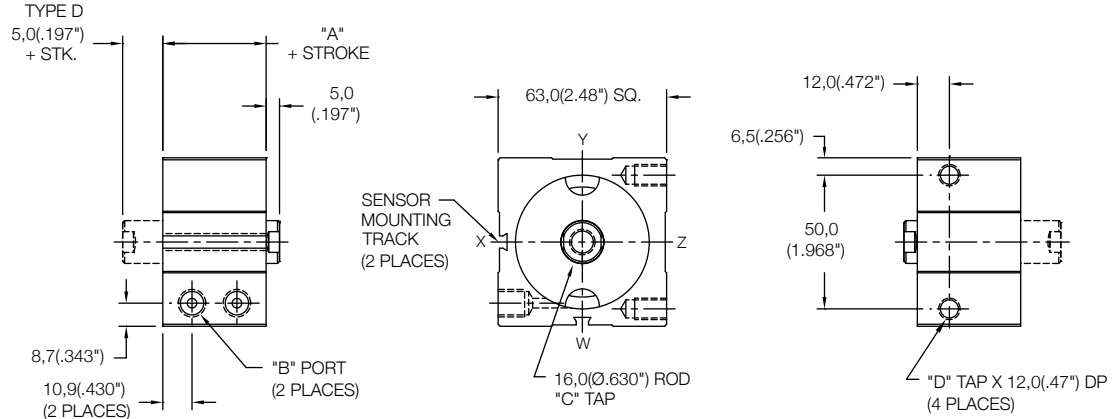
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M10X1,5	3/8-24



Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	5mm - 15mm	33,5(1.32")	PUSH 19,63 cm ² (3.04 in ²)
LE	-	5mm	43,5(1.72")	PULL 17,62 cm ² (2.73 in ²)

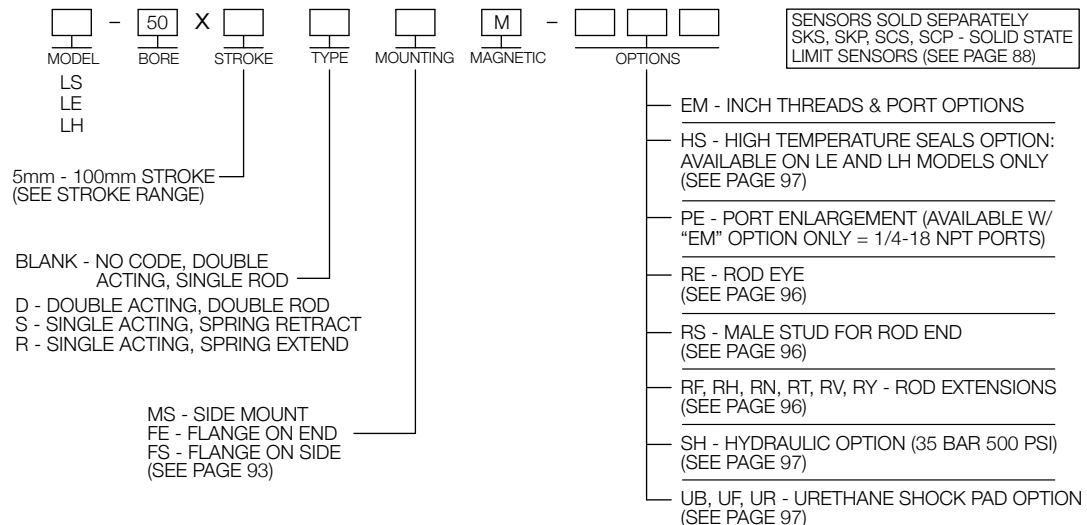
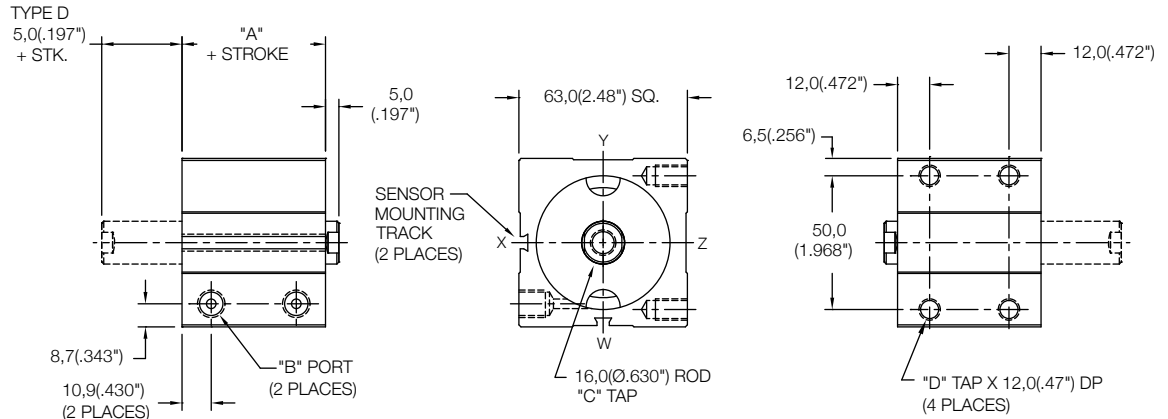
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M10X1,5	3/8-24
"D"	M8X1,25	5/16-18



Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	20mm - 100mm	33,5(1.32")	PUSH 19,63 cm ² (3.04 in ²)
LE	-	10mm - 100mm	43,5(1.72")	
LH	-	5mm - 100mm	48,5(1.91")	PULL 17,62 cm ² (2.73 in ²)
LH	D	5mm - 100mm	53,5(2.11")	
LS	S,R	5mm - 25mm	53,5(2.11")	
LS	S,R	26mm - 50mm	63,5(2.50")	

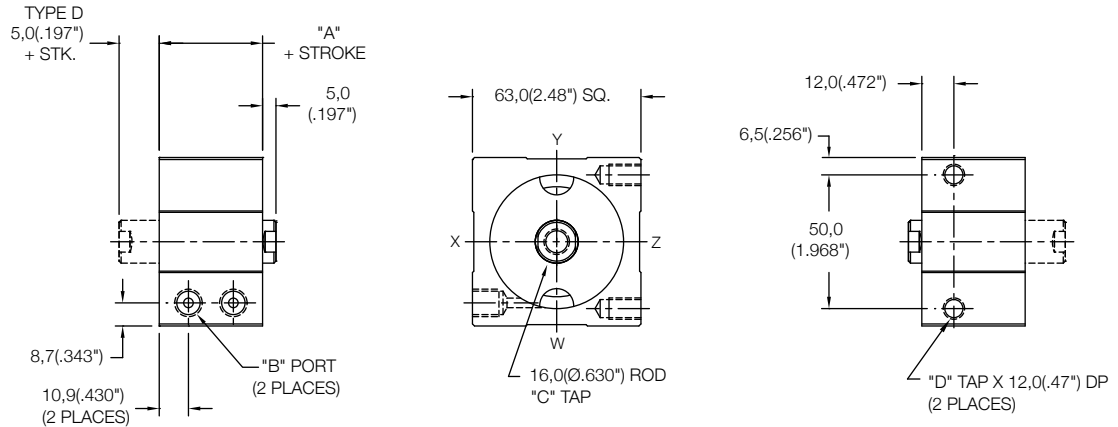
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M10X1,5	3/8-24
"D"	M8X1,25	5/16-18



Non Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	10mm - 20mm	28,5(1.12")	PUSH 19,63 cm ² (3.04 in ²)
LE	...	5mm - 10mm	38,5(1.52")	PULL 17,62 cm ² (2.73 in ²)
LH	...	5mm	43,5(1.72")	

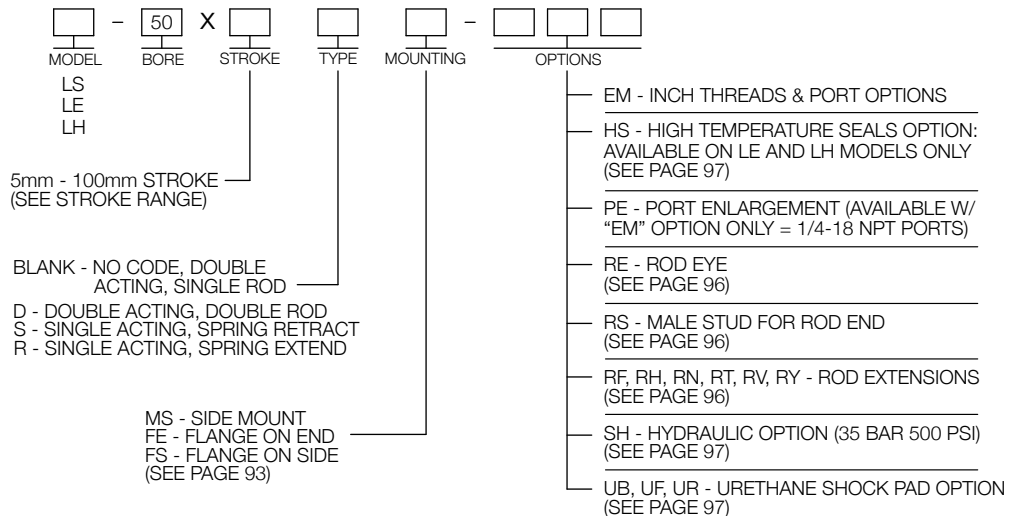
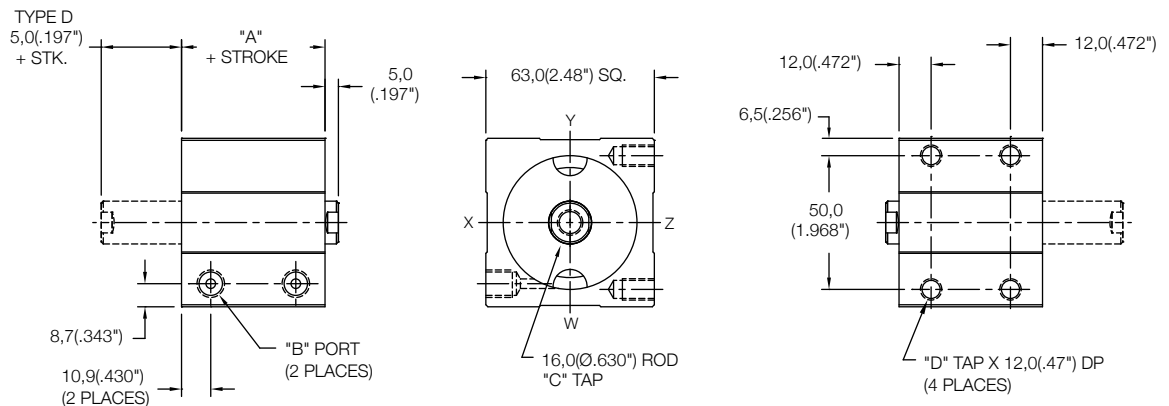
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M10X1,5	3/8-24
"D"	M8X1,25	5/16-18



Non Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	25mm - 100mm	28,5(1.12")	PUSH 19,63 cm ² (3.04 in ²)
LE	...	15mm - 100mm	38,5(1.52")	PULL 17,62 cm ² (2.73 in ²)
LH	...	10mm - 100mm	43,5(1.72")	
LH	D	5mm - 100mm	48,5(1.91")	
LS	S,R	5mm - 25mm	48,5(1.91")	
LS	S,R	26mm - 50mm	58,5(2.31")	

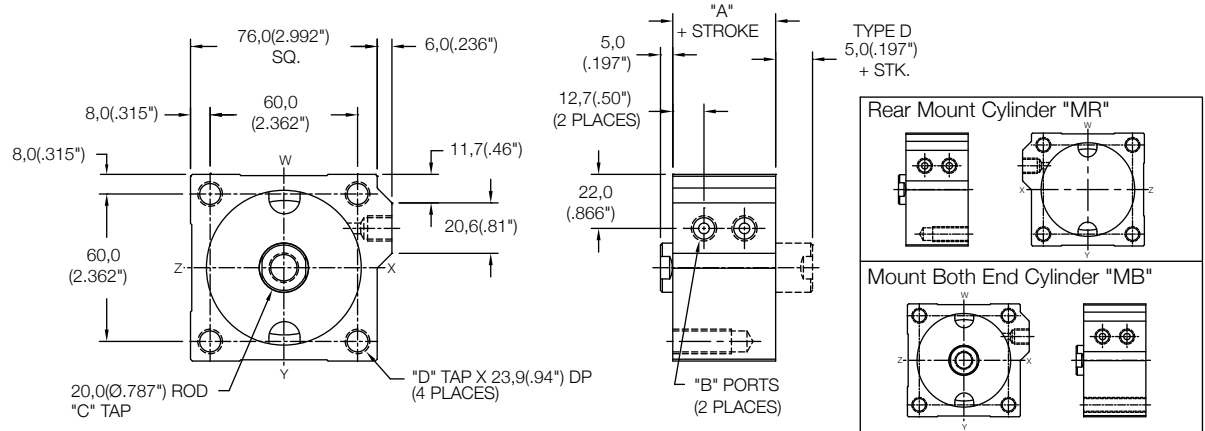
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M10X1,5	3/8-24
"D"	M8X1,25	5/16-18



Non Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	10mm - 100mm	32,0(1.26")	PUSH 31,17 cm ² (4.83 in ²)
LE	...	5mm - 100mm	42,0(1.66")	
LH	...D	5mm - 100mm	52,0(2.05")	PULL 28,03 cm ² (4.34 in ²)

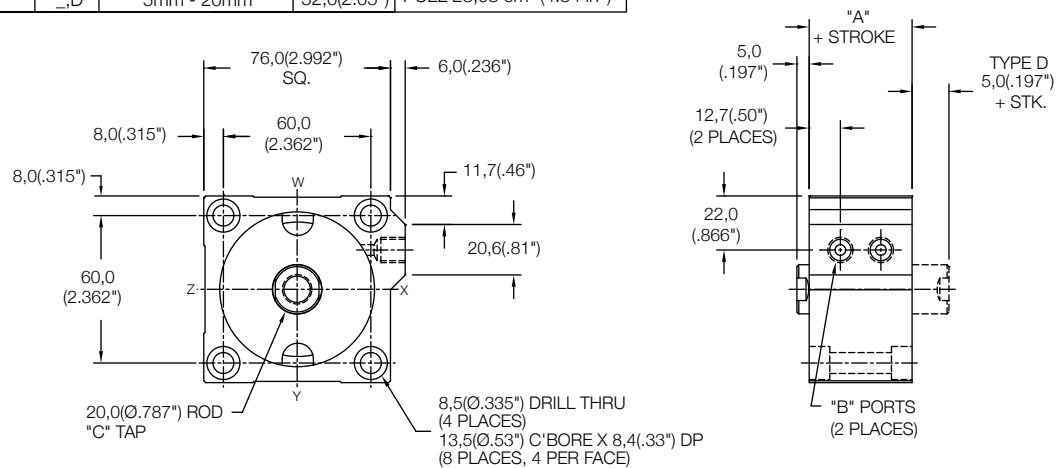
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13
"D"	M10X1,5	3/8-24



Non Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	10mm - 40mm	32,0(1.26")	PUSH 31,17 cm ² (4.83 in ²)
LE	...	5mm - 30mm	42,0(1.66")	
LH	...D	5mm - 20mm	52,0(2.05")	PULL 28,03 cm ² (4.34 in ²)

	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13

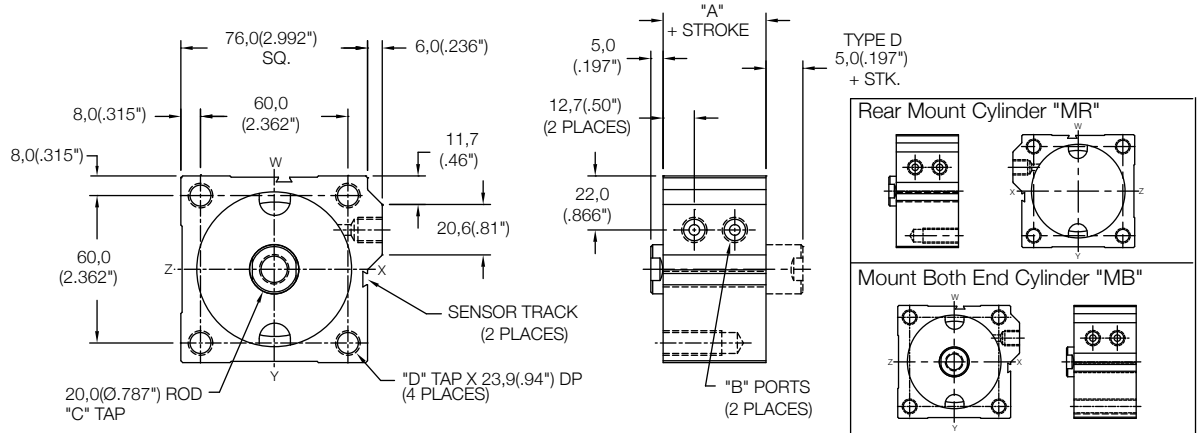


MODEL	BORE	STROKE	TYPE	MOUNTING	OPTIONS
LS LE LH	63	5mm - 100mm STROKE (SEE STROKE RANGE)	BLANK - NO CODE, DOUBLE ACTING, SINGLE ROD D - DOUBLE ACTING, DOUBLE ROD	MT - THRU MOUNT MF - FRONT MOUNT MR - REAR MOUNT MB - BOTH END MOUNTS FF - FRONT FLANGE FR - REAR FLANGE (FOR FLANGES SEE PAGE 92) PR - REAR PIVOT PL - LONG PIVOT (FOR PIVOTS SEE PAGE 94)	EM - INCH THREADS & PORT OPTIONS HS - HIGH TEMPERATURE SEALS OPTION: AVAILABLE ON LE AND LH MODELS ONLY (SEE PAGE 97) PE - PORT ENLARGEMENT (AVAILABLE W/ "EM" OPTION ONLY = 1/4-18 NPT PORTS) RE - ROD EYE (SEE PAGE 96) RS - MALE STUD FOR ROD END (SEE PAGE 96) RF, RH, RN, RT, RV, RY - ROD EXTENSIONS (SEE PAGE 96) SH - HYDRAULIC OPTION (35 BAR 500 PSI) (SEE PAGE 97) UB, UF, UR - URETHANE SHOCK PAD OPTION (SEE PAGE 97)

Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	10mm - 100mm	37,0(1.46")	PUSH 31,17 cm ² (4.83 in ²)
LE	-	5mm - 100mm	47,0(1.85")	
LH	...D	5mm - 100mm	57,0(2.25")	PULL 28,03 cm ² (4.34 in ²)

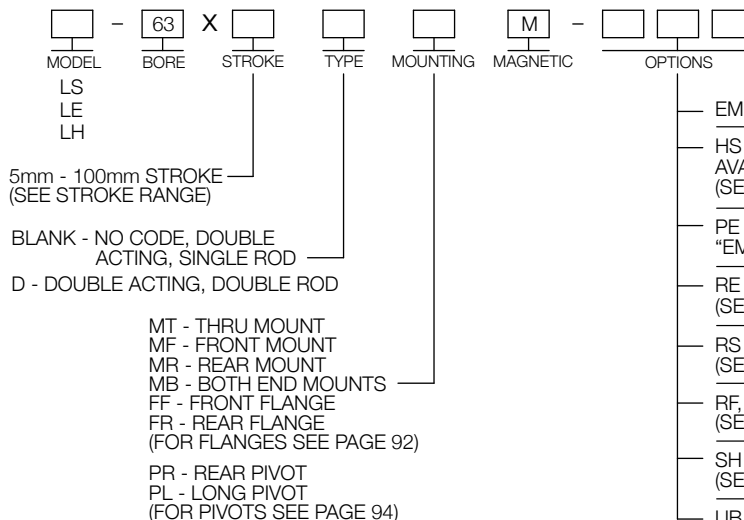
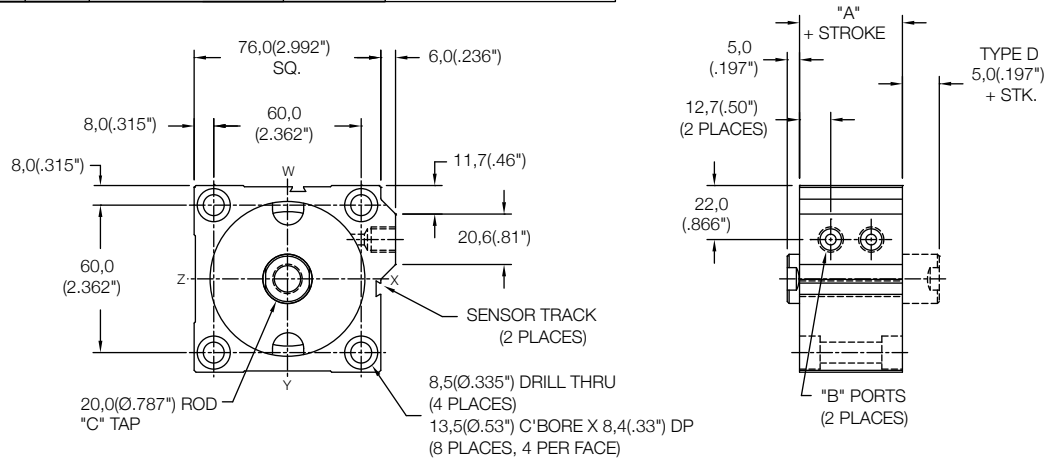
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13
"D"	M10X1,5	3/8-24



Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	10mm - 35mm	37,0(1.46")	PUSH 31,17 cm ² (4.83 in ²)
LE	-	5mm - 25mm	47,0(1.85")	
LH	...D	5mm - 15mm	57,0(2.25")	PULL 28,03 cm ² (4.34 in ²)

	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13

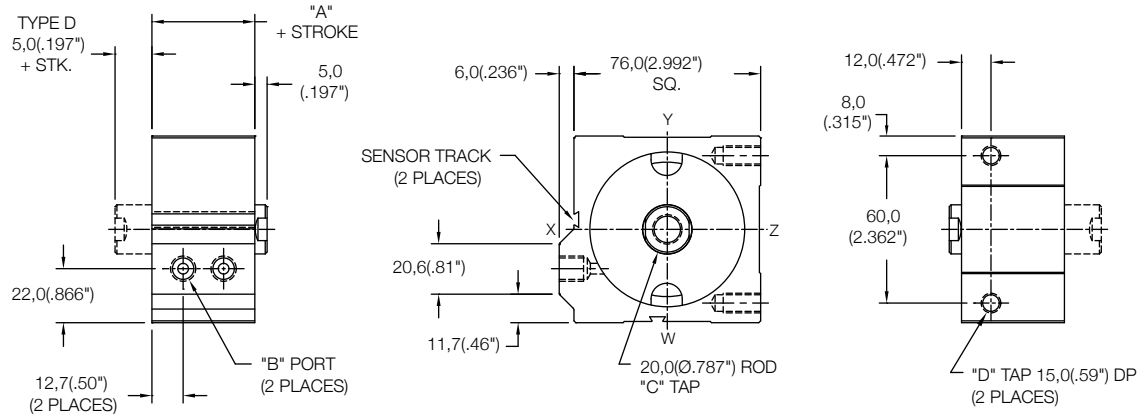


SENSORS SOLD SEPARATELY
SKS, SKP, SCS, SCP - SOLID STATE
LIMIT SENSORS (SEE PAGE 88)

Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	10mm - 15mm	37,0(1.46")	PUSH 31,17 cm ² (4.83 in ²)
LE	...	5mm	47,0(1.85")	PULL 28,03 cm ² (4.34 in ²)

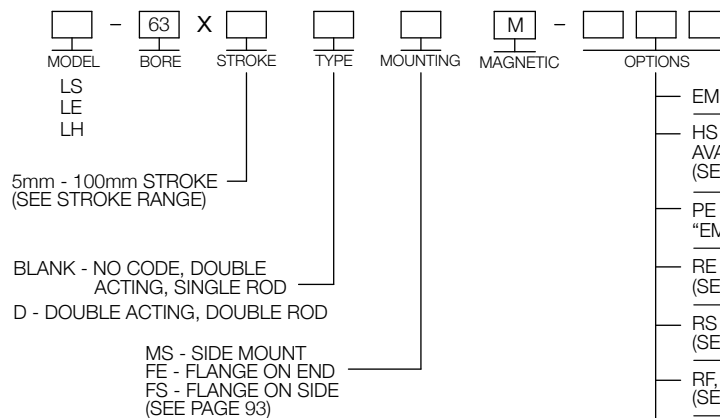
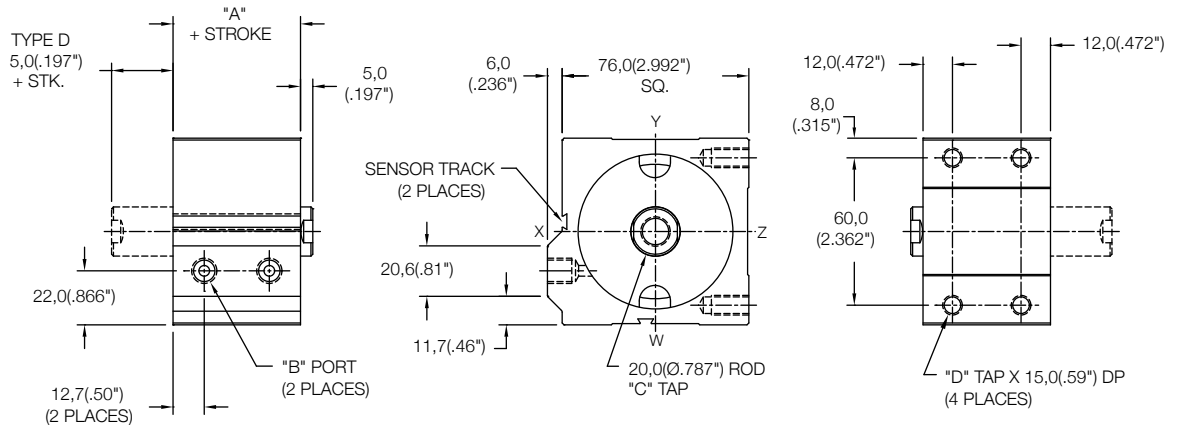
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13
"D"	M8X1,25	5/16-18



Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	20mm - 100mm	37,0(1.46")	PUSH 31,17 cm ² (4.83 in ²)
LE	...	10mm - 100mm	47,0(1.85")	PULL 28,03 cm ² (4.34 in ²)
LH	...D	5mm - 100mm	57,0(2.25")	PULL 28,03 cm ² (4.34 in ²)

	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13
"D"	M8X1,25	5/16-18



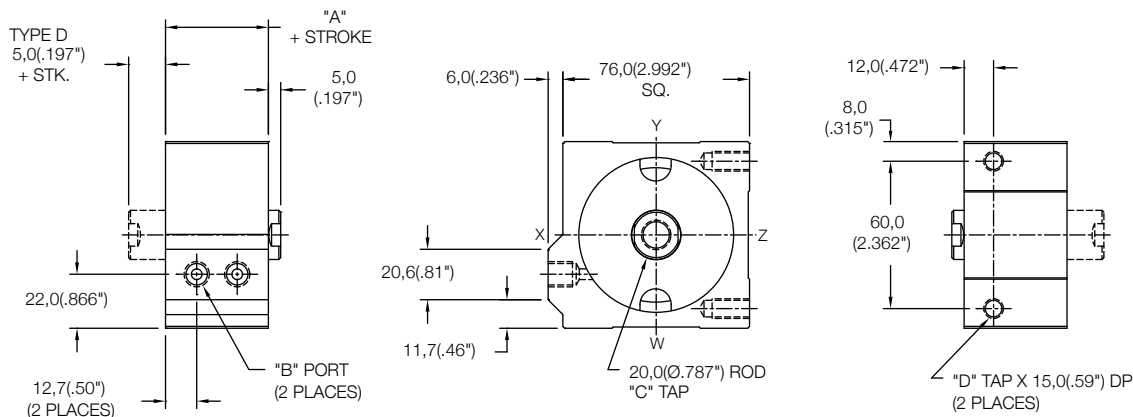
SENSORS SOLD SEPARATELY
SKS, SKP, SCS, SCP - SOLID STATE
LIMIT SENSORS (SEE PAGE 88)

- EM - INCH THREADS & PORT OPTIONS
- HS - HIGH TEMPERATURE SEALS OPTION: AVAILABLE ON LE AND LH MODELS ONLY (SEE PAGE 97)
- PE - PORT ENLARGEMENT (AVAILABLE W/ "EM" OPTION ONLY = 1/4-18 NPT PORTS)
- RE - ROD EYE (SEE PAGE 96)
- RS - MALE STUD FOR ROD END (SEE PAGE 96)
- RF, RH, RN, RT, RV, RY - ROD EXTENSIONS (SEE PAGE 96)
- SH - HYDRAULIC OPTION (35 BAR 500 PSI) (SEE PAGE 97)
- UB, UF, UR - URETHANE SHOCK PAD OPTION (SEE PAGE 97)

Non Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	10mm - 20mm	32,0(1.26")	PUSH 31,17 cm ² (4.83 in ²)
LE	-	5mm - 10mm	42,0(1.66")	PULL 28,03 cm ² (4.34 in ²)

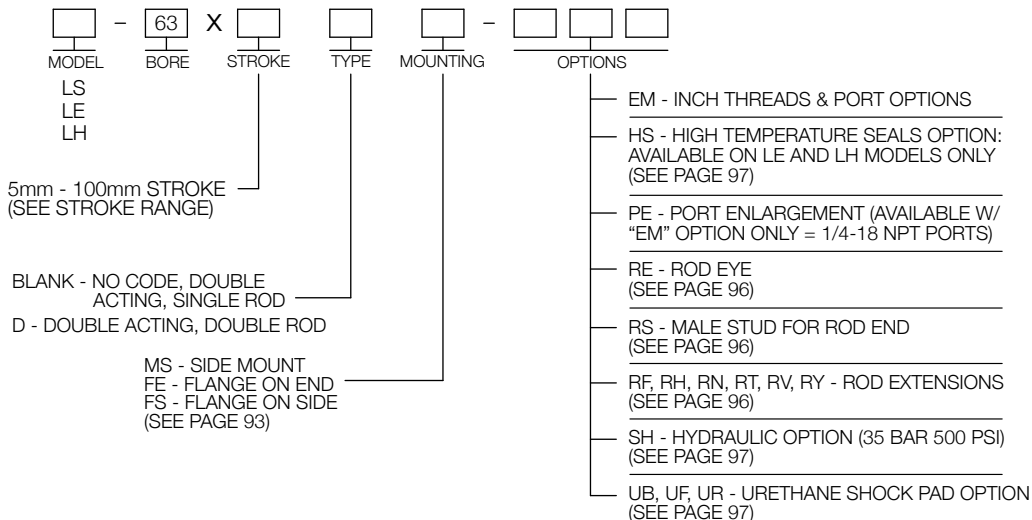
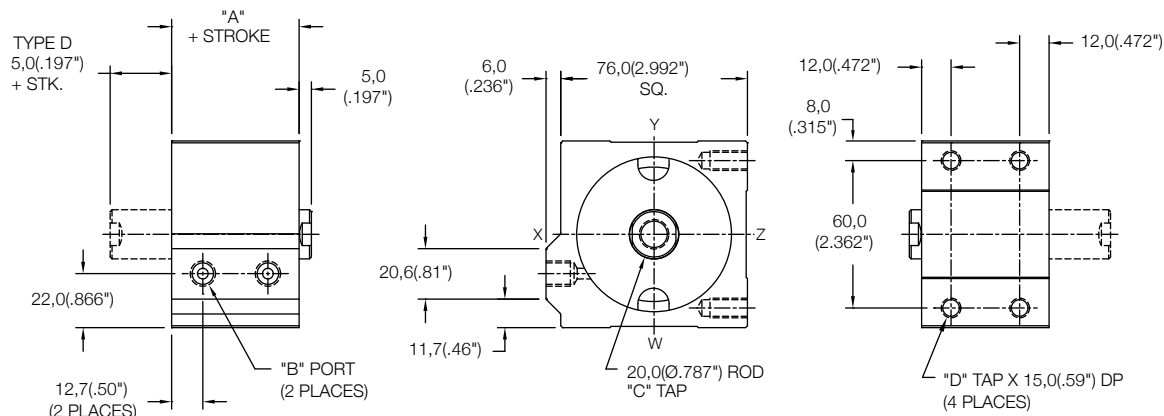
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13
"D"	M8X1,25	5/16-18



Non Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	25mm - 100mm	32,0(1.26")	PUSH 31,17 cm ² (4.83 in ²)
LE	-	15mm - 100mm	42,0(1.66")	PULL 28,03 cm ² (4.34 in ²)
LH	_,D	5mm - 100mm	52,0(2.05")	PULL 28,03 cm ² (4.34 in ²)

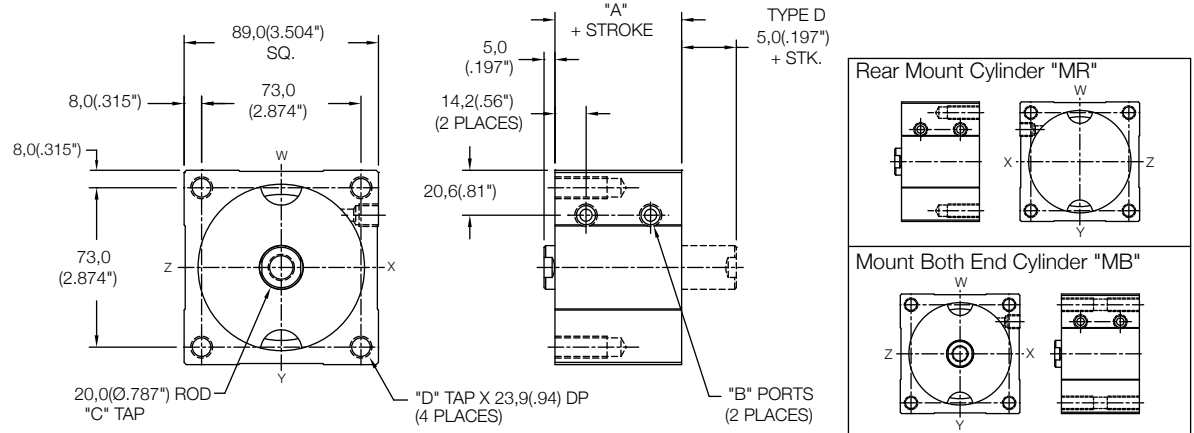
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13
"D"	M8X1,25	5/16-18



Non Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	10mm - 100mm	38,0(1.50")	PUSH 45,6 cm ² (7.07 in ²)
LE	...	5mm - 100mm	48,0(1.89")	PULL 42,46 cm ² (6.59 in ²)
LH	...D	5mm - 100mm	58,0(2.28")	PULL 42,46 cm ² (6.59 in ²)

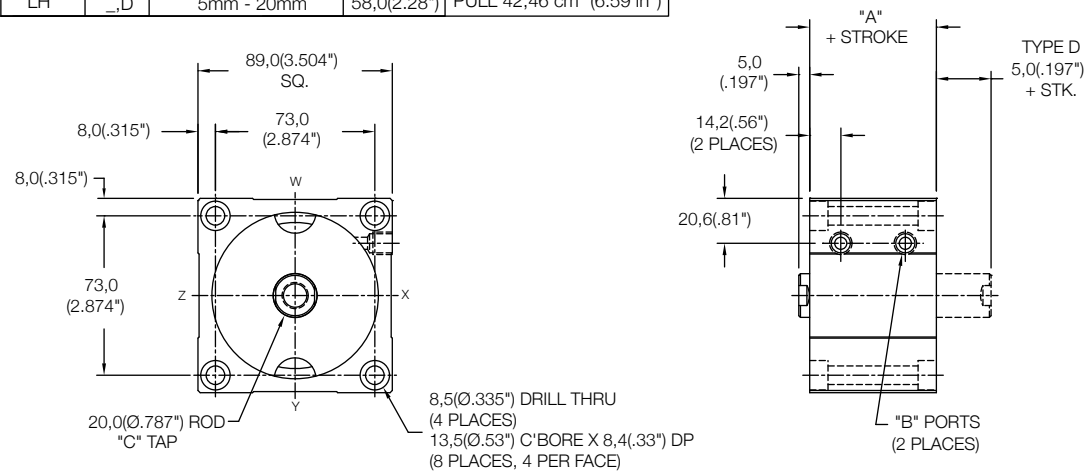
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13
"D"	M10X1,5	3/8-24



Non Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	10mm - 40mm	38,0(1.50")	PUSH 45,6 cm ² (7.07 in ²)
LE	...	5mm - 30mm	48,0(1.89")	PULL 42,46 cm ² (6.59 in ²)
LH	...D	5mm - 20mm	58,0(2.28")	PULL 42,46 cm ² (6.59 in ²)

	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13



MODEL - 76 X STROKE TYPE MOUNTING OPTIONS

LS
LE
LH

5mm - 100mm STROKE
(SEE STROKE RANGE)

BLANK - NO CODE, DOUBLE
ACTING, SINGLE ROD
D - DOUBLE ACTING, DOUBLE ROD

MT - THRU MOUNT
MF - FRONT MOUNT
MR - REAR MOUNT
MB - BOTH END MOUNTS
FF - FRONT FLANGE
FR - REAR FLANGE
(FOR FLANGES SEE PAGE 92)

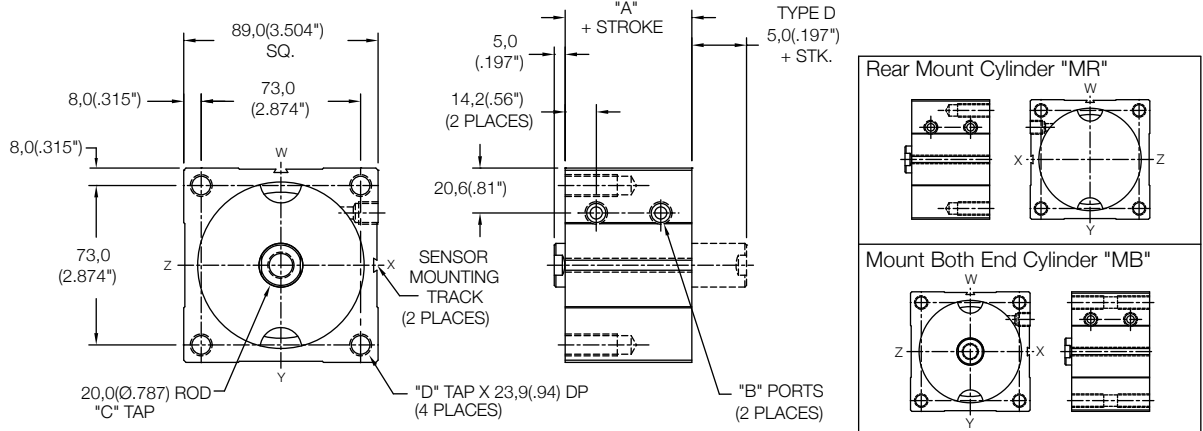
PR - REAR PIVOT
PL - LONG PIVOT
(FOR PIVOTS SEE PAGE 94)

EM - INCH THREADS & PORT OPTIONS
HS - HIGH TEMPERATURE SEALS OPTION:
AVAILABLE ON LE AND LH MODELS ONLY
(SEE PAGE 97)
PE - PORT ENLARGEMENT (AVAILABLE W/
"EM" OPTION ONLY = 1/4-18 NPT PORTS)
RE - ROD EYE
(SEE PAGE 96)
RS - MALE STUD FOR ROD END
(SEE PAGE 96)
RF, RH, RN, RT, RV, RY - ROD EXTENSIONS
(SEE PAGE 96)
SH - HYDRAULIC OPTION (35 BAR 500 PSI)
(SEE PAGE 97)
UB, UF, UR - URETHANE SHOCK PAD OPTION
(SEE PAGE 97)

Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	10mm - 100mm	43,0(1.69")	PUSH 45,6 cm ² (7.07 in ²)
LE	_,	5mm - 100mm	53,0(2.09")	
LH	_,D	5mm - 100mm	63,0(2.48")	PULL 42,46 cm ² (6.59 in ²)

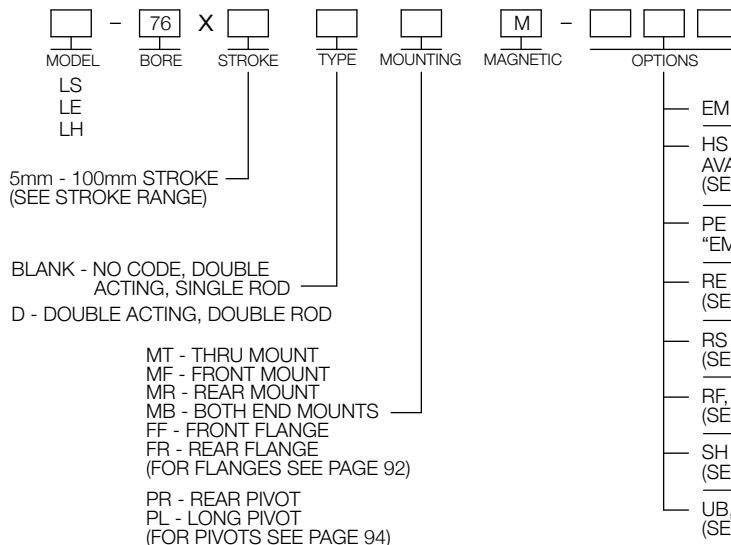
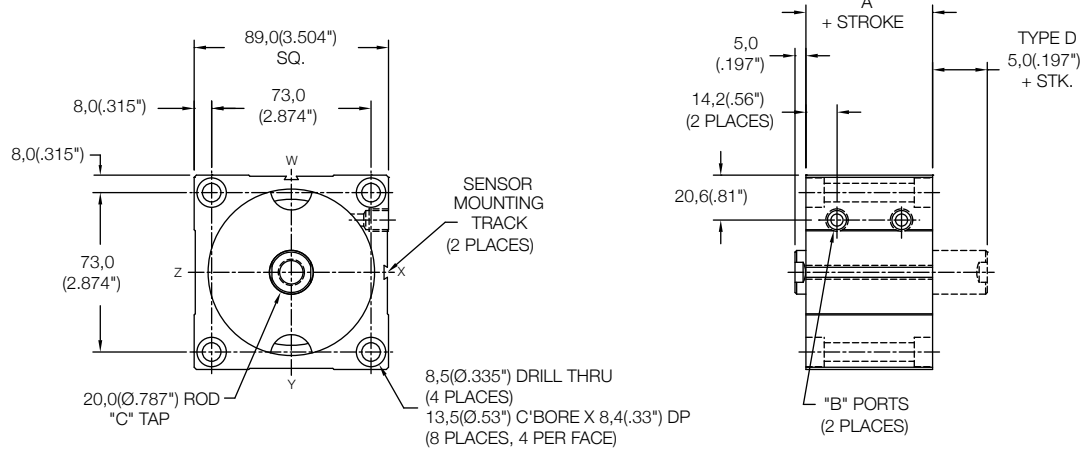
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13
"D"	M10X1,5	3/8-24



Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	10mm - 35mm	43,0(1.69")	PUSH 45,6 cm ² (7.07 in ²)
LE	_,	5mm - 25mm	53,0(2.09")	
LH	_,D	5mm - 15mm	63,0(2.48")	PULL 42,46 cm ² (6.59 in ²)

	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13

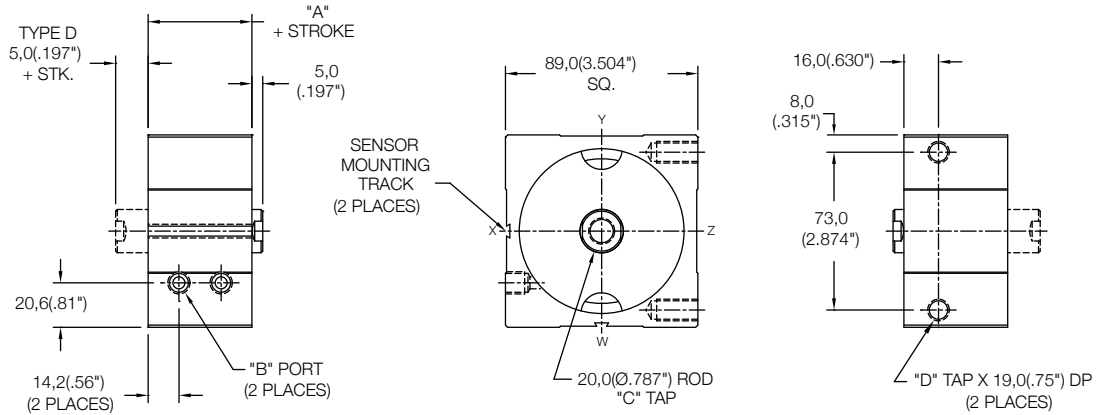


SENSORS SOLD SEPARATELY
SKS, SKP, SCS, SCP - SOLID STATE
LIMIT SENSORS (SEE PAGE 88)

Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	10mm - 15mm	43,0(1.69")	PUSH 45,6 cm ² (7.07 in ²)
LE	-	5mm	53,0(2.09")	PULL 42,46 cm ² (6.59 in ²)

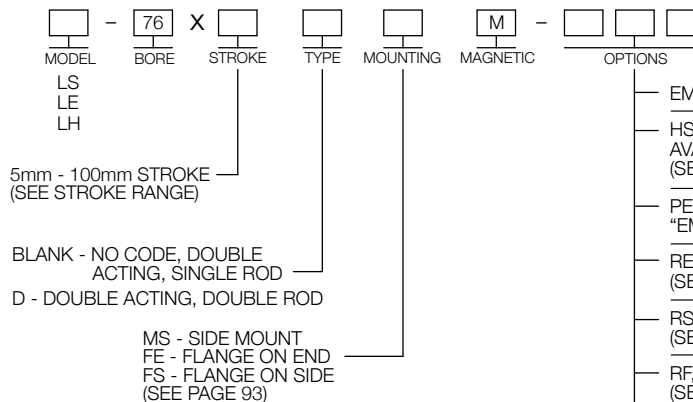
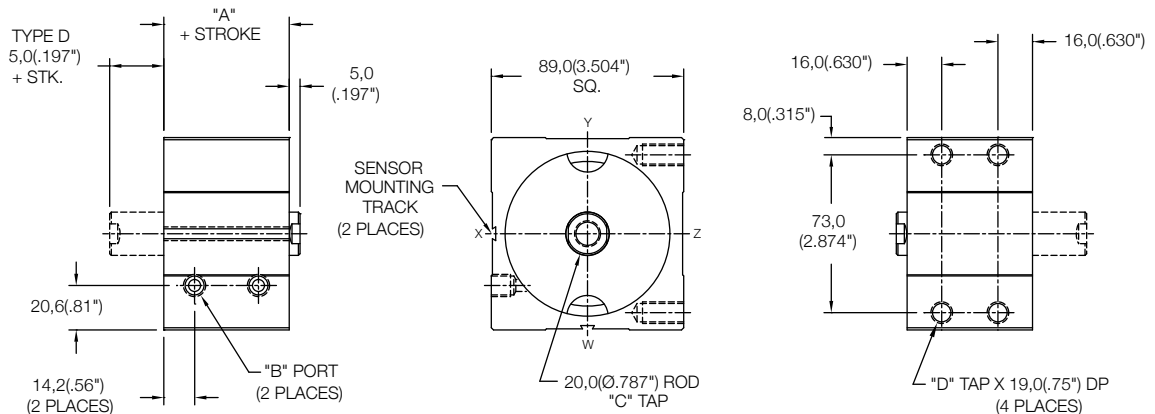
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13
"D"	M10X1,5	3/8-24



Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	...D	20mm - 100mm	43,0(1.69")	PUSH 45,6 cm ² (7.07 in ²)
LE	-	10mm - 100mm	53,0(2.09")	PULL 42,46 cm ² (6.59 in ²)
LH	...D	5mm - 100mm	63,0(2.48")	PULL 42,46 cm ² (6.59 in ²)

	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13
"D"	M10X1,5	3/8-24

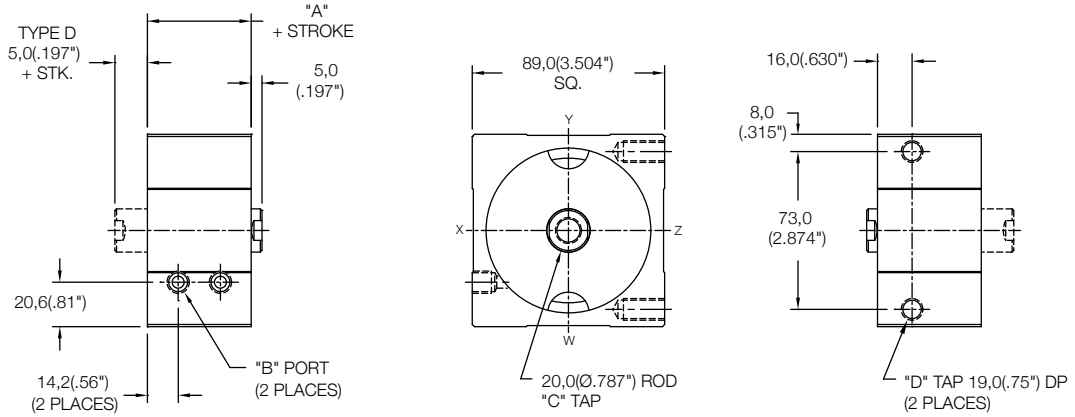


SENSORS SOLD SEPARATELY
SKS, SKP, SCS, SCP - SOLID STATE
LIMIT SENSORS (SEE PAGE 88)

Non Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	10mm - 20mm	38,0(1.50")	PUSH 45,6 cm ² (7.07 in ²)
LE	-	5mm - 10mm	48,0(1.89")	PULL 42,46 cm ² (6.59 in ²)

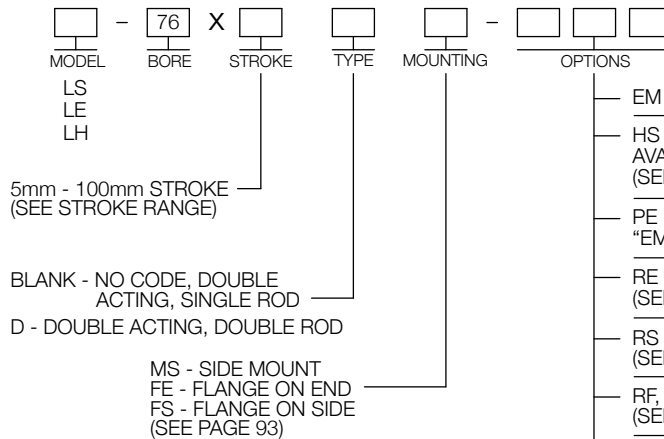
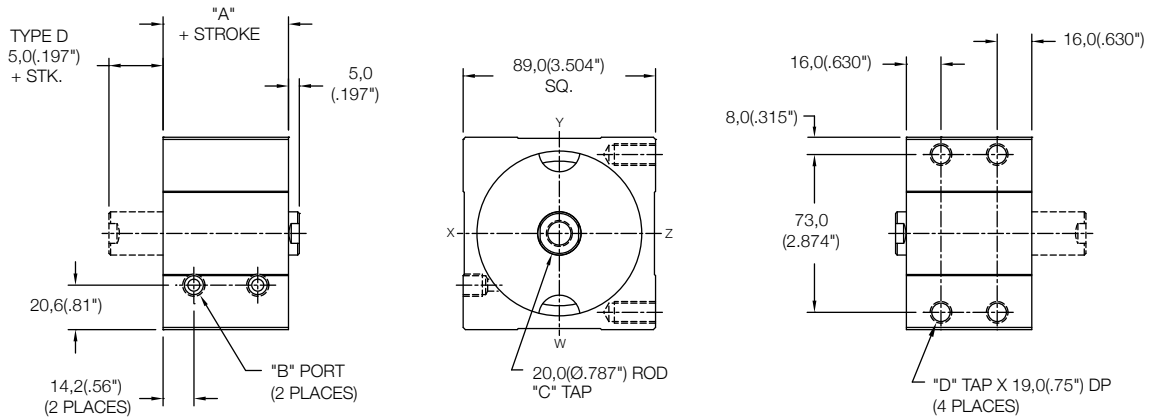
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13
"D"	M10X1,5	3/8-24



Non Magnetic Side Mount Cylinder "MS"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	25mm - 100mm	38,0(1.50")	PUSH 45,6 cm ² (7.07 in ²)
LE	-	15mm - 100mm	48,0(1.89")	PULL 42,46 cm ² (6.59 in ²)
LH	_,D	5mm - 100mm	58,0(2.28")	PULL 42,46 cm ² (6.59 in ²)

	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13
"D"	M10X1,5	3/8-24



EM - INCH THREADS & PORT OPTIONS

HS - HIGH TEMPERATURE SEALS OPTION:
AVAILABLE ON LE AND LH MODELS ONLY
(SEE PAGE 97)

PE - PORT ENLARGEMENT (AVAILABLE W/
"EM" OPTION ONLY = 1/4-18 NPT PORTS)

RE - ROD EYE
(SEE PAGE 96)

RS - MALE STUD FOR ROD END
(SEE PAGE 96)

RF, RH, RN, RT, RV, RY - ROD EXTENSIONS
(SEE PAGE 96)

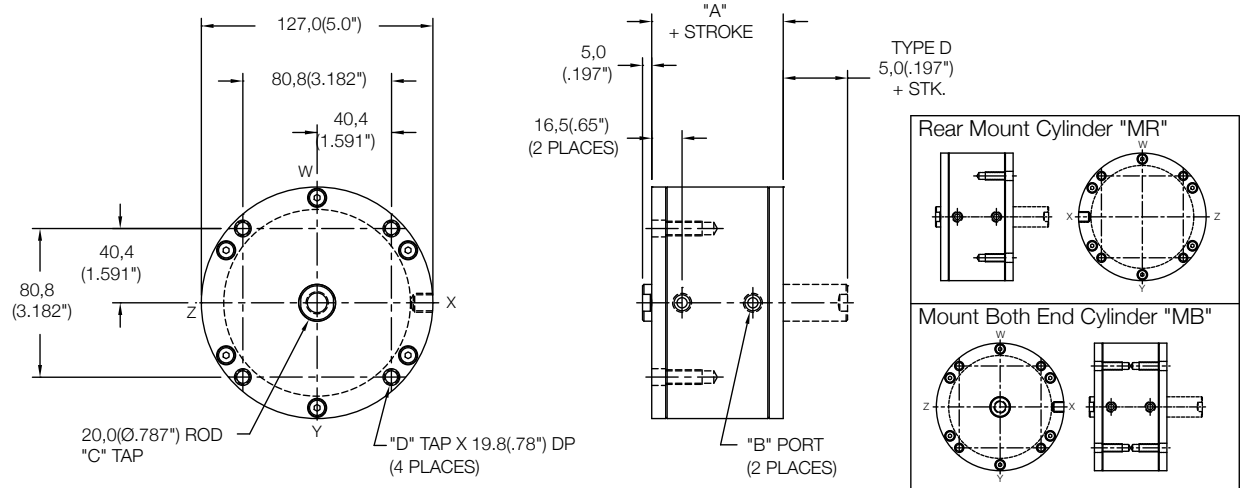
SH - HYDRAULIC OPTION (35 BAR 500 PSI)
(SEE PAGE 97)

UB, UF, UR - URETHANE SHOCK PAD OPTION
(SEE PAGE 97)

Non Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	—,D	10mm - 100mm	41,5(1.63")	PUSH 81,07 cm ² (12.57 in ²)
LE	—	5mm - 100mm	51,5(2.03")	
LH	—,D	5mm - 100mm	61,5(2.42")	PULL 77,93 cm ² (12.09 in ²)

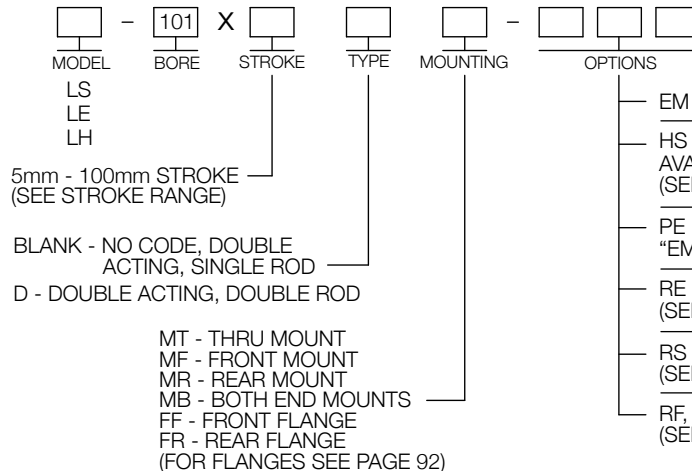
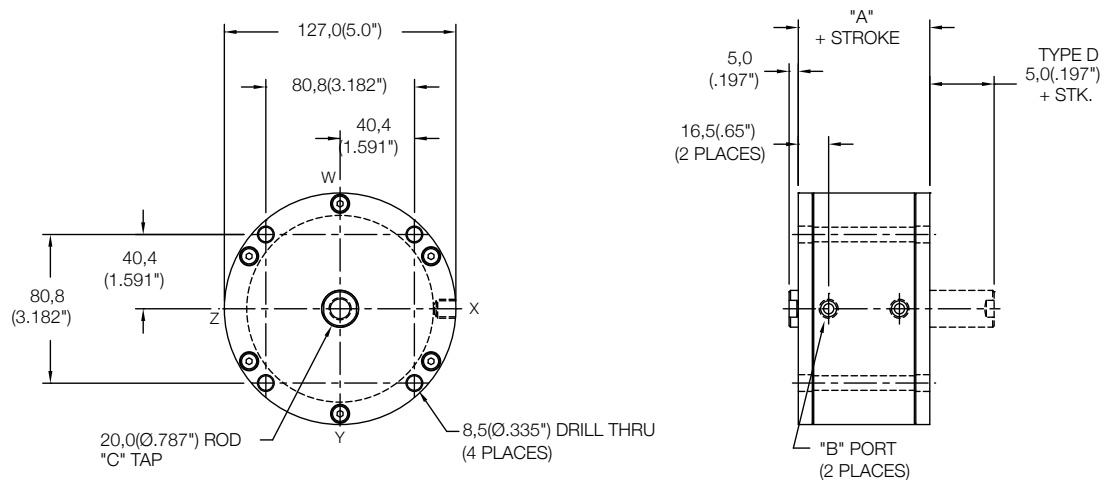
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13
"D"	M8X1,25	5/16-18



Non Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	—,D	10mm - 50mm	41,5(1.63")	PUSH 81,07 cm ² (12.57 in ²)
LE	—	5mm - 40mm	51,5(2.03")	
LH	—,D	5mm - 30mm	61,5(2.42")	PULL 77,93 cm ² (12.09 in ²)

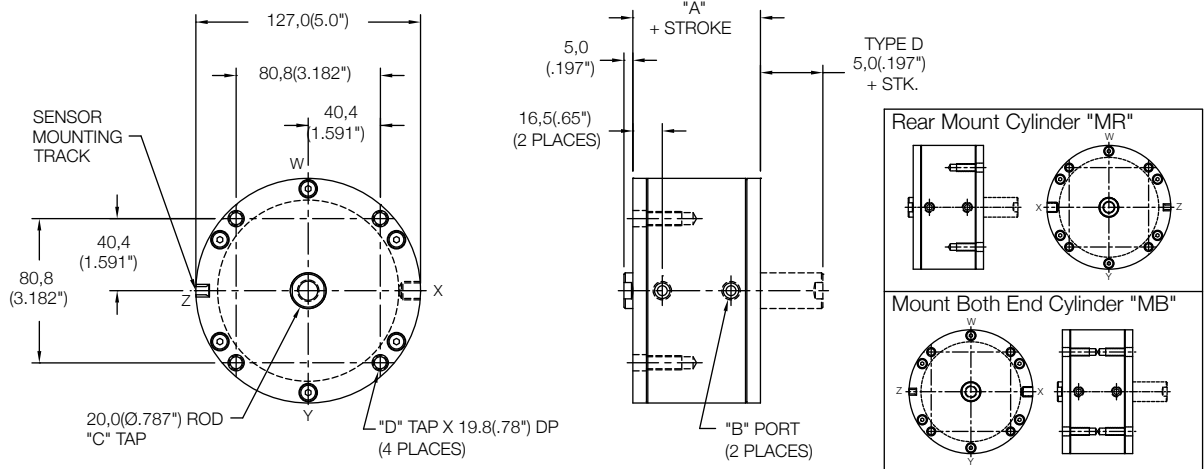
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13



Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	—D	10mm - 100mm	51,5(2.03")	PUSH 81,07 cm ² (12.57 in ²)
LE	—	5mm - 100mm	61,5(2.42")	
LH	—D	5mm - 100mm	71,5(2.82")	PULL 77,93 cm ² (12.09 in ²)

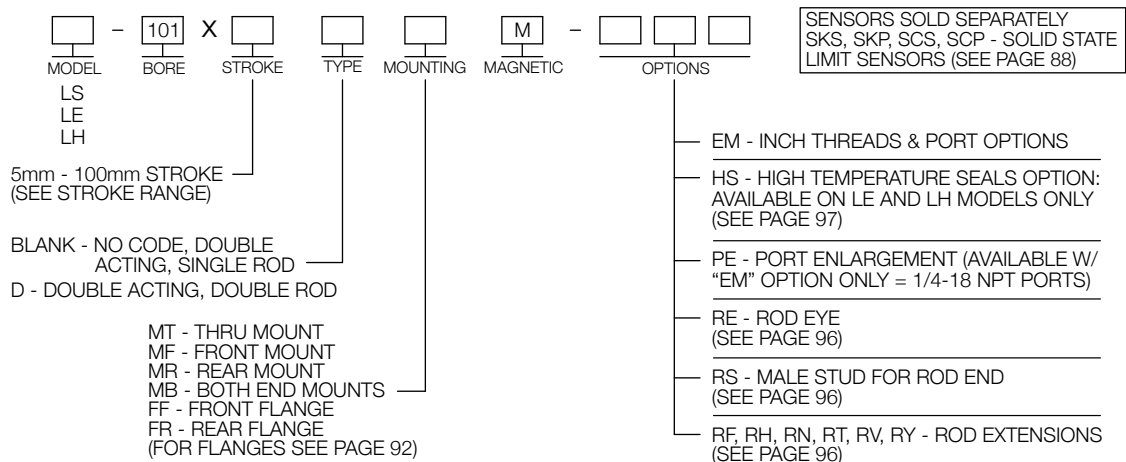
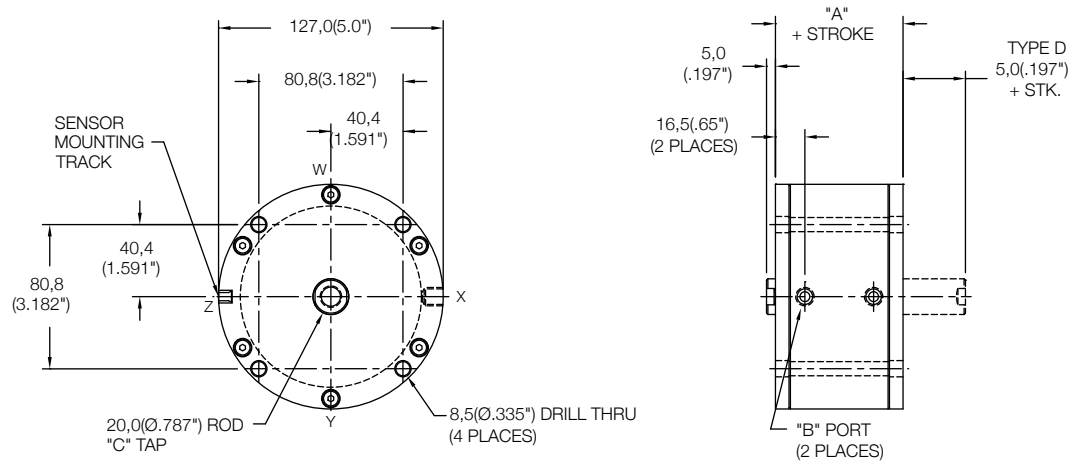
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13
"D"	M8X1,25	5/16-18



Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	„D	10mm - 40mm	51,5(2.03")	PUSH 81,07 cm ² (12.57 in ²)
LE	„D	5mm - 30mm	61,5(2.42")	
LH	–	5mm - 20mm	71.5(2.82")	PULL 77,93 cm ² (12.09 in ²)

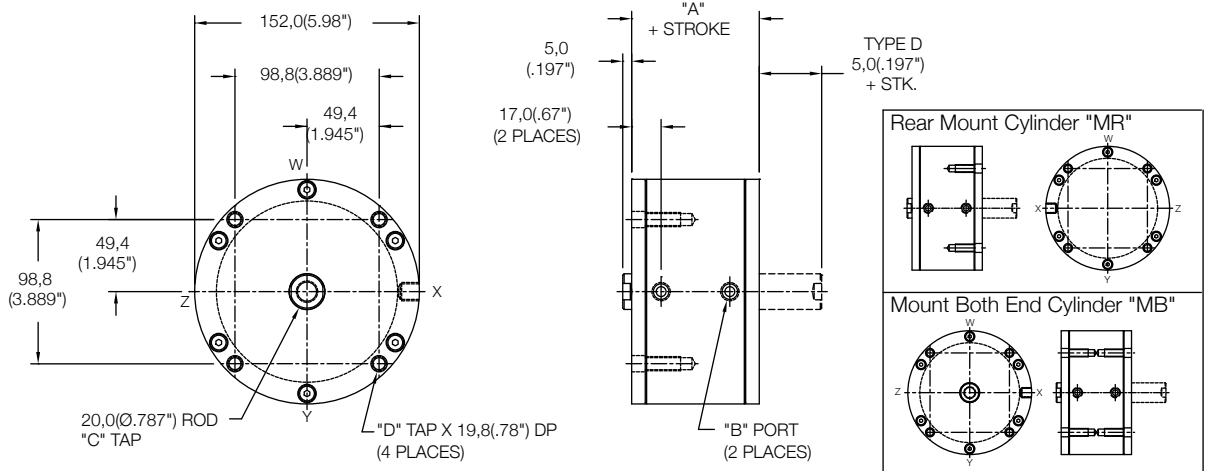
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13



Non Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	—D	10mm - 100mm	44,5(1.75")	PUSH 126,7 cm ² (19.6 in ²)
LE	—	5mm - 100mm	54,5(2.15")	
LH	—D	5mm - 100mm	64,5(2.54")	PULL 123,5 cm ² (19.1 in ²)

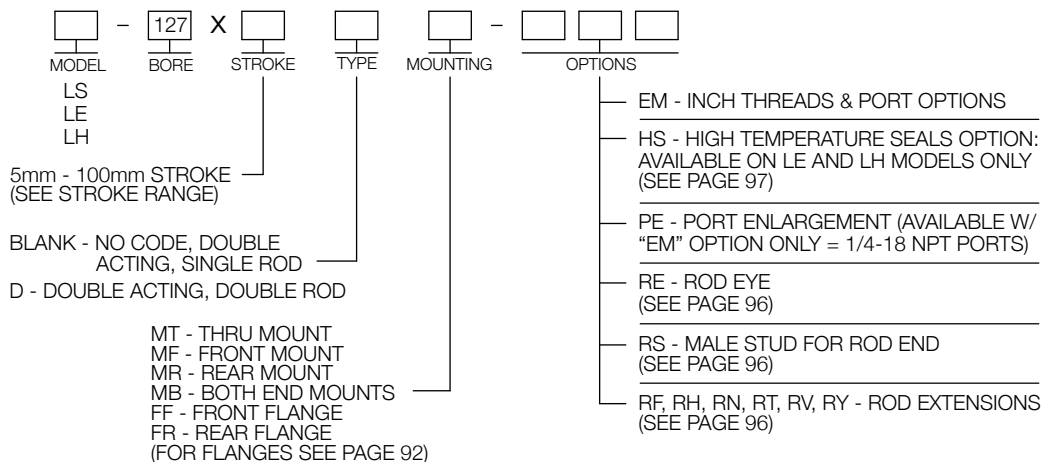
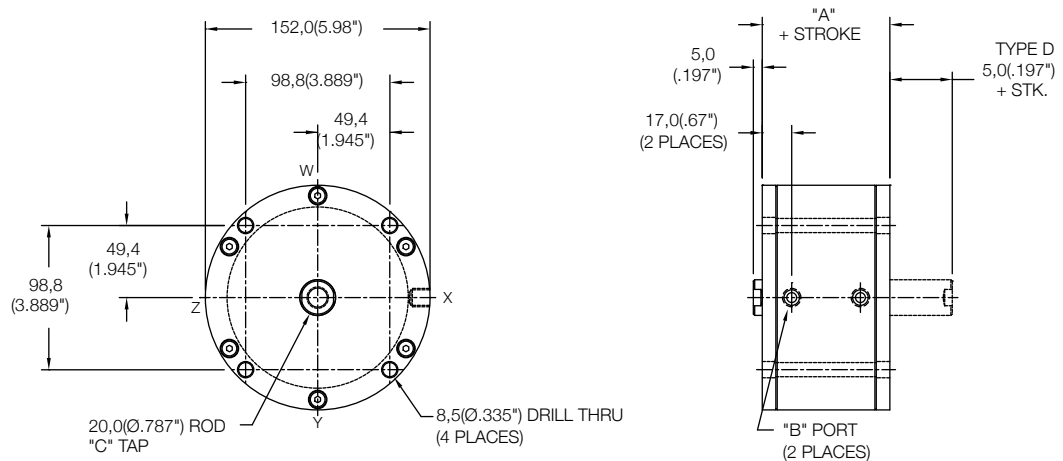
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13
"D"	M8X1,25	5/16-18



Non Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	—D	10mm - 45mm	44,5(1.75")	PUSH 126,7 cm ² (19.6 in ²)
LE	—	5mm - 35mm	54,5(2.15")	
LH	—D	5mm - 25mm	64,5(2.54")	PULL 123,5 cm ² (19.1 in ²)

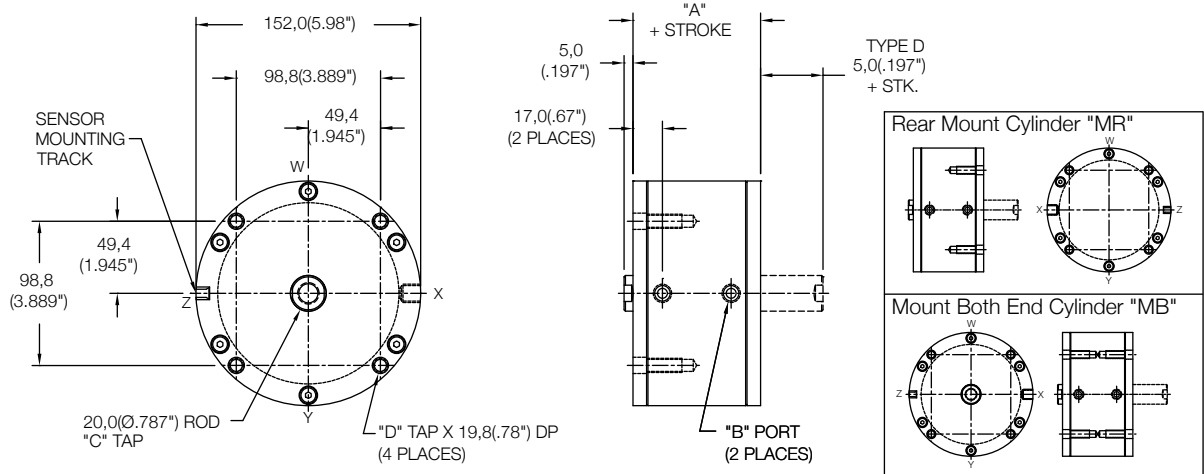
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13



Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	└D	10mm - 100mm	54,5(2.15")	PUSH 126,7 cm ² (19.6 in ²)
LE	—	5mm - 100mm	64,5(2.54")	
LH	└D	5mm - 100mm	74,5(2.93")	PULL 123,5 cm ² (19.1 in ²)

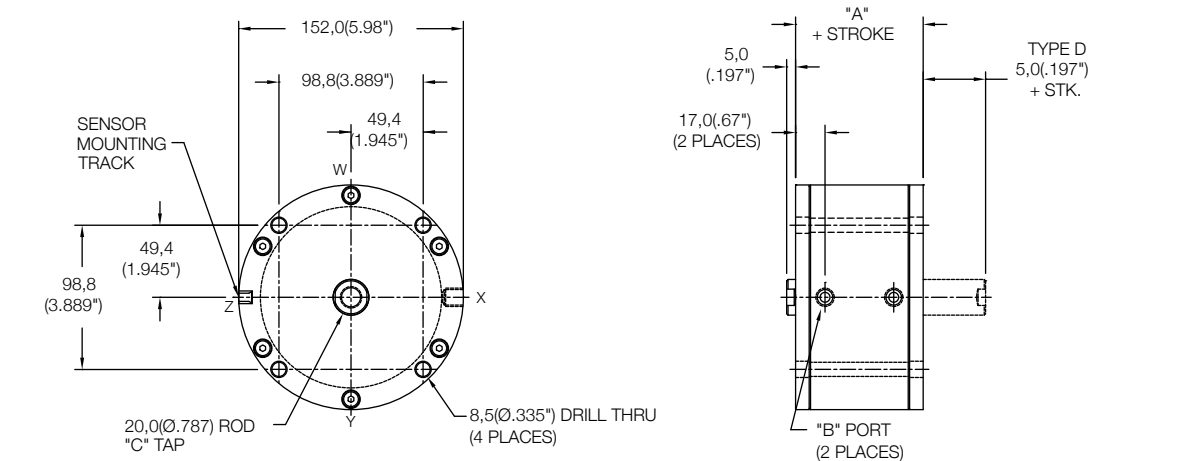
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13
"D"	M8X1,25	5/16-18



Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	┐D	10mm - 35mm	54,5(2.15")	PUSH 126,7 cm ² (19.6 in ²)
LE	┐	5mm - 25mm	64,5(2.54")	
LH	┐D	5mm - 15mm	74,5(2.93")	PULL 123,5 cm ² (19.1 in ²)

	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M12X1,75	1/2-13



127 SERIES

MODEL - BORE x STROKE TYPE MOUNTING MAGNETIC - OPTIONS

LS
LE
LH

5mm - 100mm STROKE
(SEE STROKE RANGE)

BLANK - NO CODE, DOUBLE
ACTING, SINGLE ROD
D - DOUBLE ACTING, DOUBLE ROD

MT - THRU MOUNT
MF - FRONT MOUNT
MR - REAR MOUNT
MB - BOTH END MOUNTS
FF - FRONT FLANGE
FR - REAR FLANGE
(FOR FLANGES SEE PAGE 92)

M

EM - INCH THREADS & PORT OPTIONS

HS - HIGH TEMPERATURE SEALS OPTION:
AVAILABLE ON LE AND LH MODELS ONLY
(SEE PAGE 97)

PE - PORT ENLARGEMENT (AVAILABLE W/
"EM" OPTION ONLY = 1/4-18 NPT PORTS)

RE - ROD EYE
(SEE PAGE 96)

RS - MALE STUD FOR ROD END
(SEE PAGE 96)

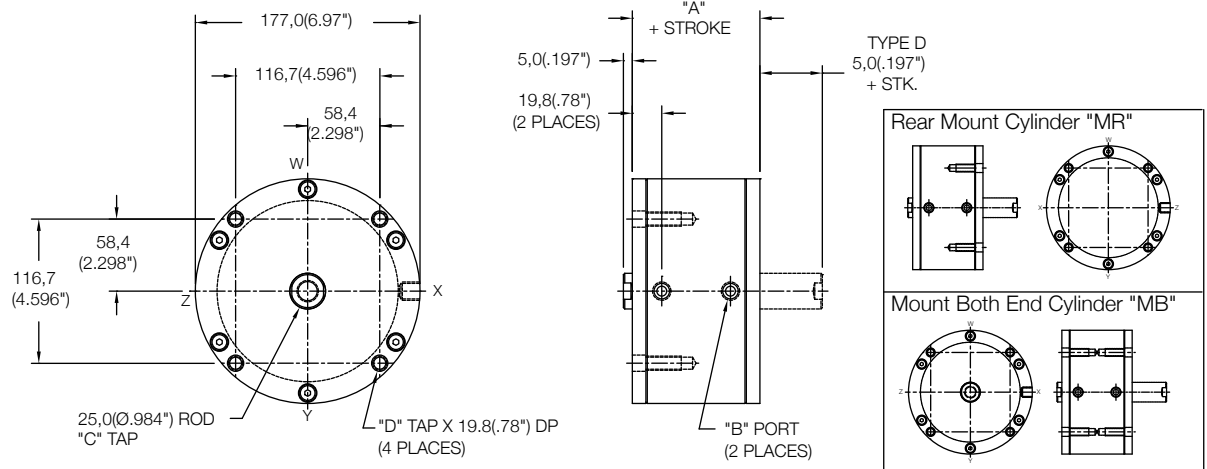
RF, RH, RN, RT, RV, RY - ROD EXTENSIONS
(SEE PAGE 96)

SENSORS SOLD SEPARATELY
SKS, SKP, SCS, SCP - SOLID STATE
LIMIT SENSORS (SEE PAGE 88)

Non Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	10mm - 100mm	51,0(2.00")	PUSH 181,46 cm ² (28.2 in ²) PULL 176,55 cm ² (27.45 in ²)

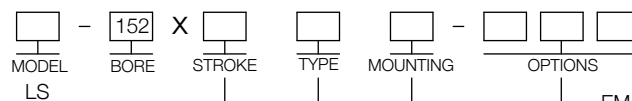
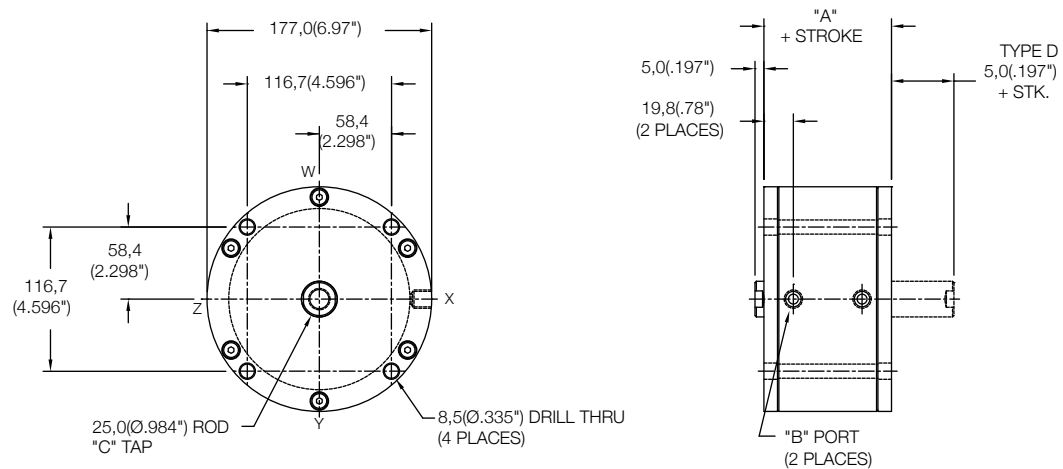
	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M16X2,0	5/8-18
"D"	M8X1,25	5/16-18



Non Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	10mm - 40mm	51,0(2.00")	PUSH 181,46 cm ² (28.2 in ²) PULL 176,55 cm ² (27.45 in ²)

	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M16X2,0	5/8-18



10mm - 100mm STROKE
(SEE STROKE RANGE)

BLANK - NO CODE, DOUBLE
ACTING, SINGLE ROD

D - DOUBLE ACTING, DOUBLE ROD

MT - THRU MOUNT
 MF - FRONT MOUNT
 MR - REAR MOUNT
 MB - BOTH END MOUNTS
 FF - FRONT FLANGE
 FR - REAR FLANGE
 (FOR FLANGES SEE PAGE 92)

EM - INCH THREADS & PORT OPTIONS

HS - HIGH TEMPERATURE SEALS OPTION:
AVAILABLE ON LE AND LH MODELS ONLY
(SEE PAGE 97)

PE - PORT ENLARGEMENT (AVAILABLE W/
"EM" OPTION ONLY = 1/4-18 NPT PORTS)

RE - ROD EYE
(SEE PAGE 96)

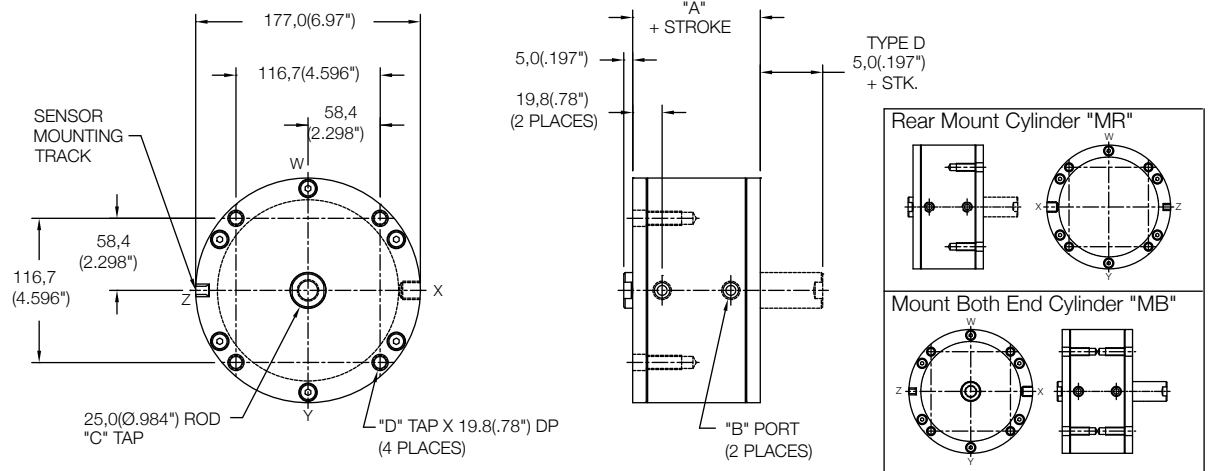
RS - MALE STUD FOR ROD END
(SEE PAGE 96)

RF, RH, RN, RT, RV, RY - ROD EXTENSIONS
(SEE PAGE 96)

Magnetic Front Mount Cylinder "MF"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	10mm - 100mm	61,0(2.40")	PUSH 181,46 cm ² (28.2 in ²) PULL 176,55 cm ² (27.45 in ²)

	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M16X2,0	5/8-18
"D"	M8X1,25	5/16-18



Magnetic Thru Mount Cylinder "MT"

MODEL	TYPE	STANDARD STROKES	"A"	PISTON AREA
LS	_,D	10mm - 30mm	61,0(2.40")	PUSH 181,46 cm ² (28.2 in ²) PULL 176,55 cm ² (27.45 in ²)

	Standard Threads	"EM" Option
"B"	G1/8 PORT	1/8-27
"C"	M16X2,0	5/8-18

