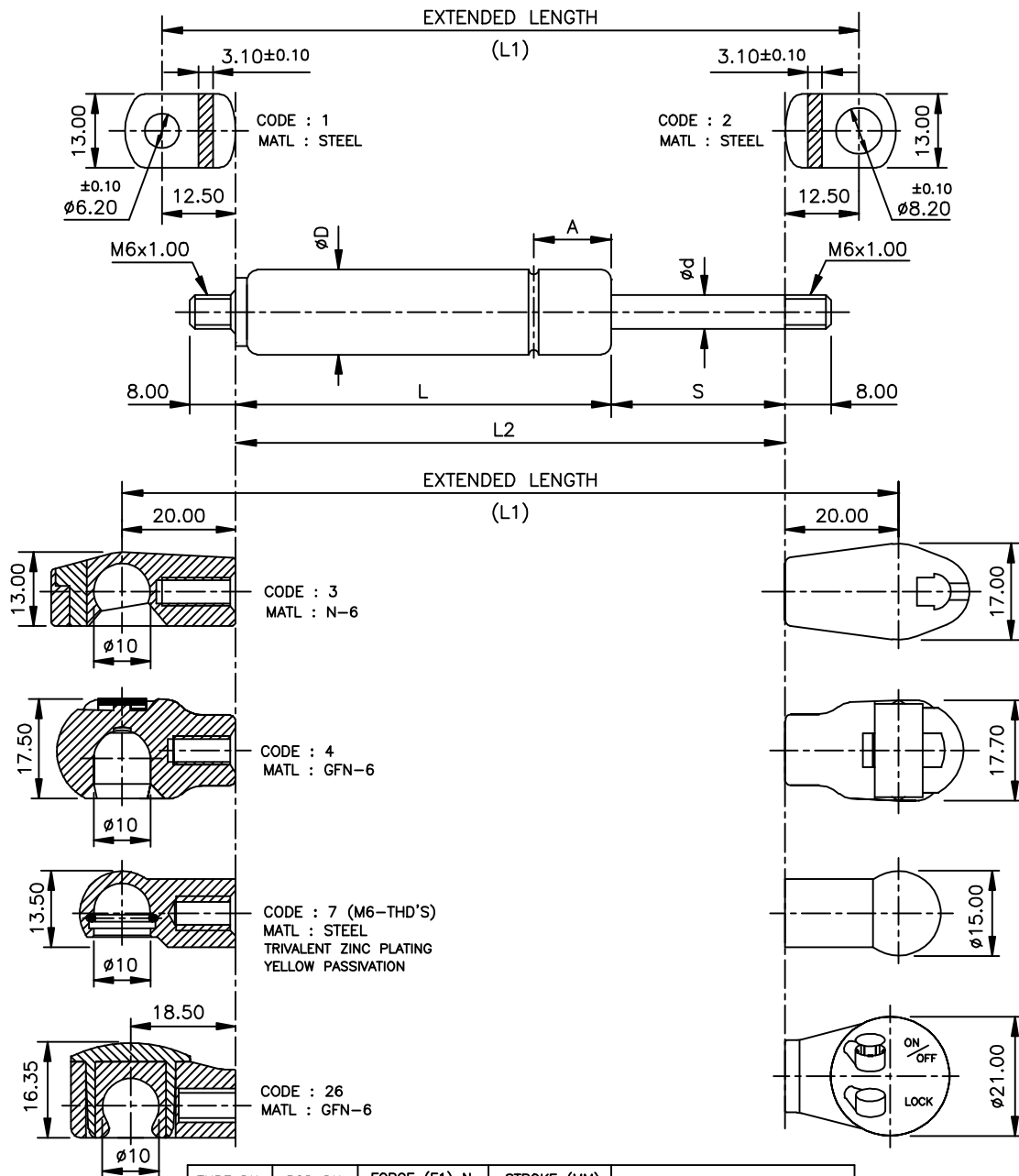


GAS-SPRING DATA SHEET

MODEL : 15.06 AUTO-LIFT



TUBE DIA. øD	ROD DIA. ød	FORCE (F1) N		STROKE (MM)		STD AVAILABLE STROKE (S) MM		
		MIN.	MAX.	MIN.	MAX.			
ø15.00	ø6.00	50	350	20.00	150.00	50.00	70.00	120.00
						60.00	94.00	150.00

MINIMUM SPRING CHARACTERISTICS : 1.25

LENGTH MINIMUM : L = A + S + 18.50

EXTENDED LENGTH : L1 = L + S + END FITTING CENTER DISTANCE (BOTH SIDE)

ASSUMPTIONS : A = 18.50 , ≥ 20.00 ≤ 75.00 MM STROKE (S)

A = 24.50 , > 75.00 ≤ 150.00 MM STROKE (S)

ORDER CODE

AUTO-LIFT AL - Dd - XX - L1 - S - F1 - YY - BP
 MODEL : TUBE & ROD DIA. CODE FOR BALL PIN
 CODE FOR TUBE SIDE END FITTING CODE FOR ROD SIDE END FITTING
 EXTENDED LENGTH STROKE FORCE IN NEWTON

ORDER EXAMPLE : AL - 1506 - 3 - 225 - 50 - 300N - 3 - 18

ASSUMPTION BP : BALL PIN CONSIDERED AT BOTH SIDES ALONG WITH NUT.

ORDER CODE

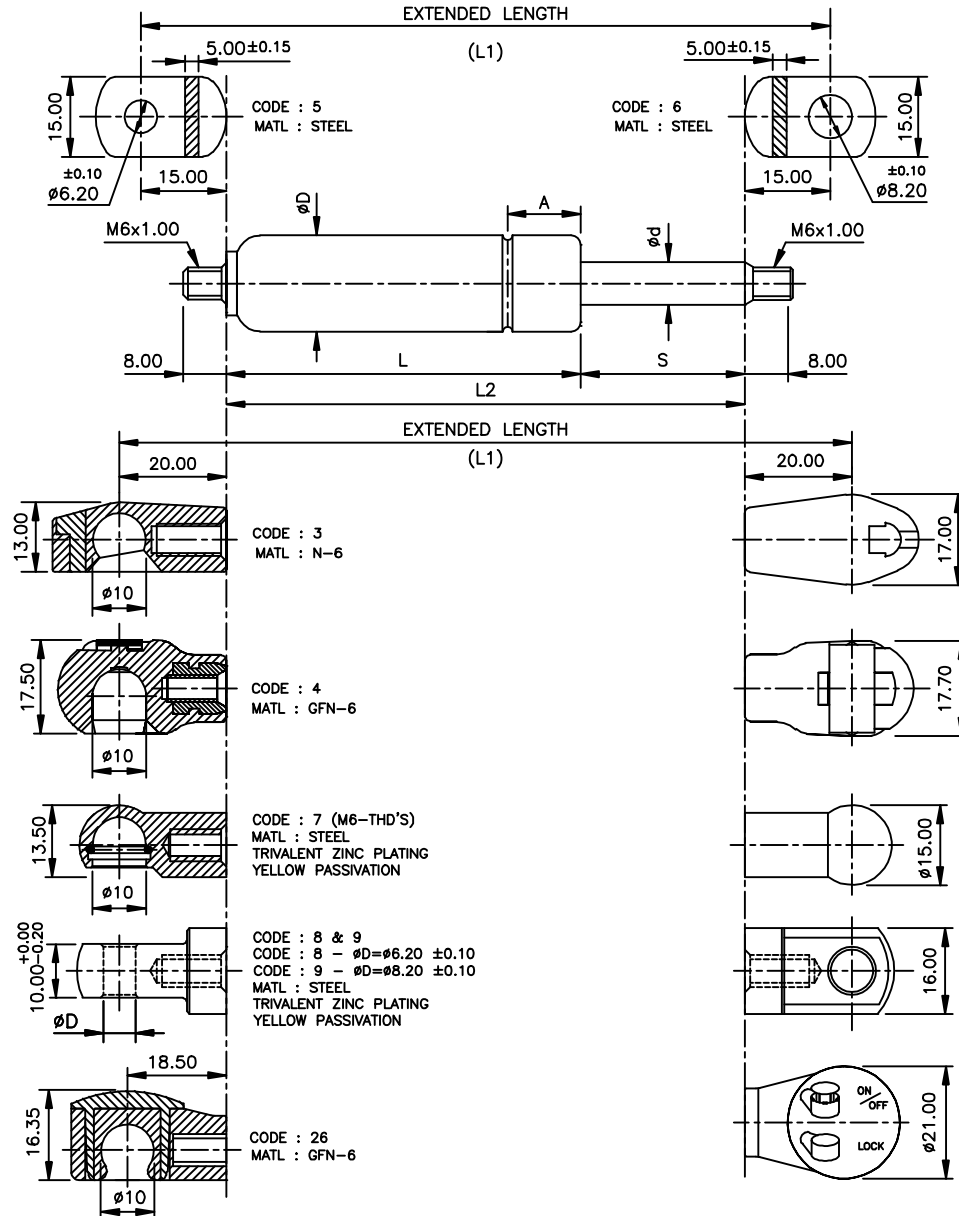
FOR GAS-SPRINGS WITH THREADED ENDS.

AL - Dd - TT - L2 - S - F1 - RT
 TUBE END THD'S EXTENDED LENGTH ROD END THD'S

ORDER EXAMPLE : AL - 1506 - M6 - 225 - 50 - 300N - M6

GAS-SPRING DATA SHEET

MODEL : 18.08 & 19.08 AUTO-LIFT



TUBE DIA. ØD	ROD DIA. Ød	FORCE (F1) N		STROKE (MM)		STD AVAILABLE STROKE (S) MM		
		MIN.	MAX.	MIN.	MAX.			
Ø18.00	Ø8.00	50	500	20.00	400.00	50.00	140.00	230.00
						60.00	150.00	325.00
						80.00	175.00	347.00
Ø19.00	Ø8.00	50	700	20.00	400.00	94.00	200.00	400.00

MINIMUM SPRING CHARACTERISTICS : 1.35

LENGTH MINIMUM : L = A + S + 20.50

EXTENDED LENGTH : L1 = L + S + END FITTING CENTER DISTANCE (BOTH SIDE)

ASSUMPTIONS : A = 16.50 , > 20.00 ≤ 75.00 MM STROKE (S)

A = 20.50 , > 75.00 ≤ 125.00 MM STROKE (S)

A = 24.50 , > 125.00 ≤ 200.00 MM STROKE (S)

A = 28.50 , > 200.00 ≤ 400.00 MM STROKE (S)

ORDER CODE

AUTO-LIFT AL - Dd - XX - L1 - S - F1 - YY - BP
 MODEL : TUBE & ROD DIA. CODE FOR BALL PIN
 CODE FOR TUBE SIDE END FITTING CODE FOR ROD SIDE END FITTING
 EXTENDED LENGTH STROKE FORCE IN NEWTON

ORDER EXAMPLE : AL - 1808 - 4 - 300 - 94 - 350N - 4 - 19
ASSUMPTION BP : BALL PIN CONSIDERED AT BOTH SIDES ALONG WITH NUT.

ORDER CODE

FOR GAS-SPRINGS WITH THREADED ENDS.

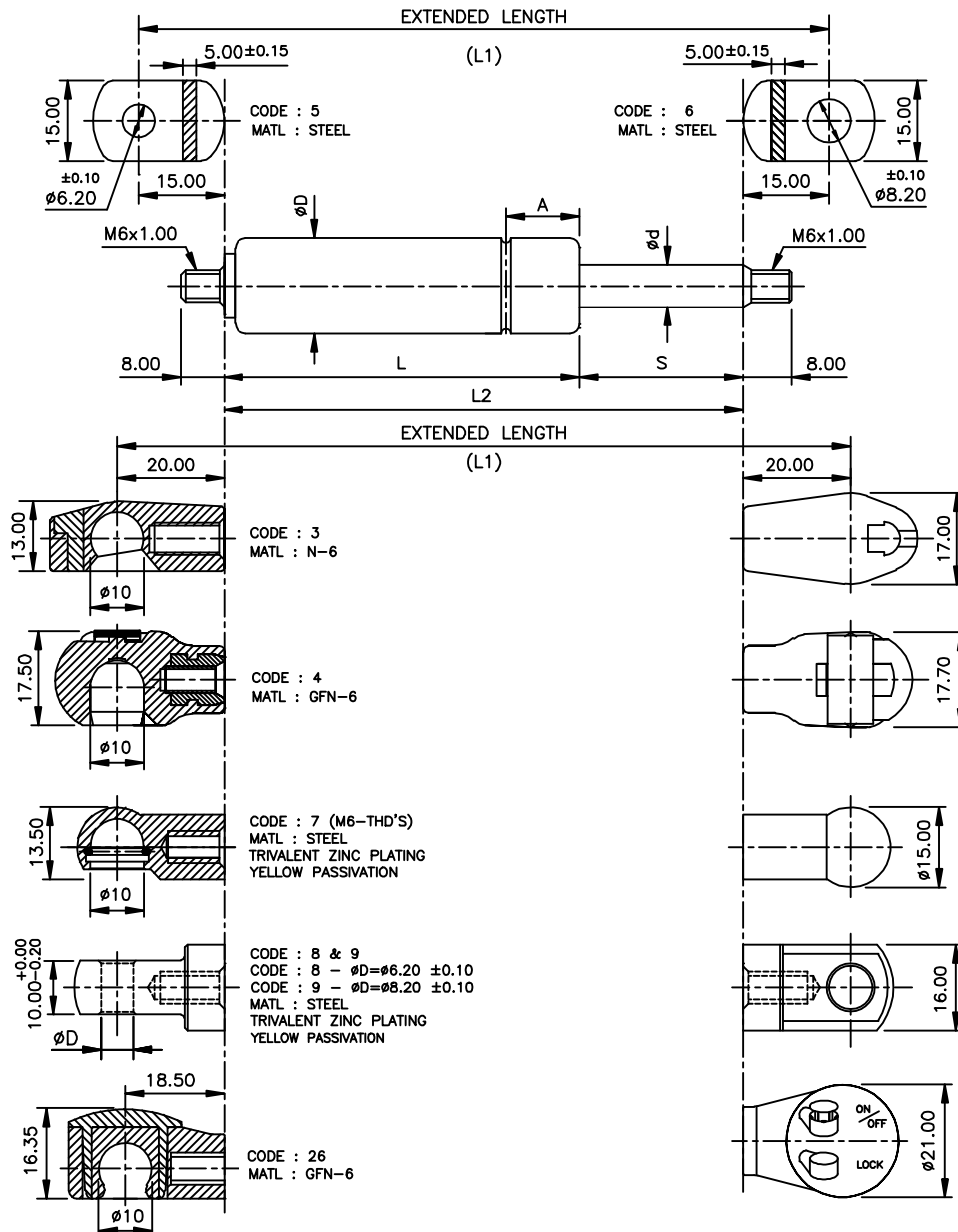
AL - Dd - TT - L2 - S - F1 - RT
 TUBE END THD'S EXTENDED LENGTH ROD END THD'S

ORDER EXAMPLE : AL - 1808 - M6 - 300 - 94 - 350N - M6

GAS-SPRING DATA SHEET

MODEL : 21.08 & 22.08 AUTO-LIFT

DATE : 24.08.2012
REV. NO. : 04



TUBE DIA. øD	ROD DIA. ød	FORCE (F1) N		STROKE (MM)		STD AVAILABLE STROKE (S) MM		
		MIN.	MAX.	MIN.	MAX.			
ø21.00	ø8.00	50	500	20.00	400.00	50.00	140.00	230.00
						60.00	150.00	325.00
						80.00	175.00	347.00
						94.00	200.00	400.00
ø22.00	ø8.00	50	700	20.00	400.00			

MINIMUM SPRING CHARACTERISTICS : 1.22

LENGTH MINIMUM : L = A + S + 22.50

EXTENDED LENGTH : L1 = L + S + END FITTING CENTER DISTANCE (BOTH SIDE)

ASSUMPTIONS : A = 20.00 , > 20.00 ≤ 100.00 MM STROKE (S)

A = 25.00 , > 100.00 ≤ 200.00 MM STROKE (S)

A = 30.00 , > 200.00 ≤ 400.00 MM STROKE (S)

ORDER CODE

AL - Dd - XX - L1 - S - F1 - YY - BP
 AUTO-LIFT CODE FOR BALL PIN
 MODEL : TUBE & ROD DIA. CODE FOR ROD SIDE END FITTING
 CODE FOR TUBE SIDE END FITTING FORCE IN NEWTON
 EXTENDED LENGTH STROKE

ORDER EXAMPLE : AL - 2108 - 7 - 371 - 140 - 400N - 7 - 19

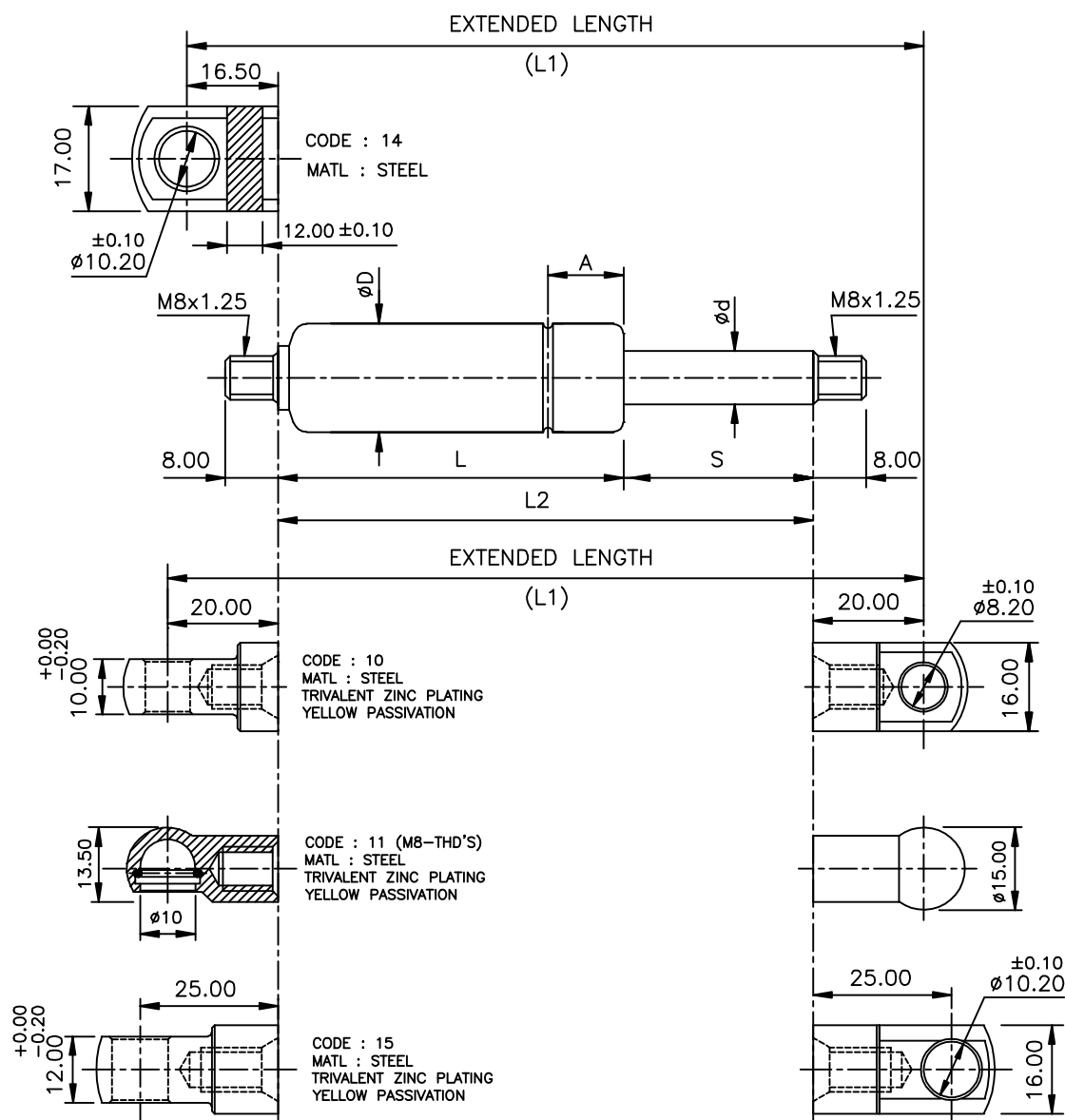
ASSUMPTION BP : BALL PIN CONSIDERED AT BOTH SIDES ALONG WITH NUT.

ORDER CODE

FOR GAS-SPRINGS WITH THREADED ENDS.

AL - Dd - TT - L2 - S - F1 - RT
 TUBE END THD'S EXTENDED LENGTH ROD END THD'S

ORDER EXAMPLE : AL - 2108 - M6 - 371 - 140 - 400N - M6



TUBE DIA. øD	ROD DIA. ød	FORCE (F1) N		STROKE (MM)		STD AVAILABLE STROKE (S) MM		
		MIN.	MAX.	MIN.	MAX.			
ø28.00	ø10.00	80	1000	20.00	450.00	30.00	175.00	320.00
						60.00	208.00	365.00
						100.00	240.00	400.00
						150.00	270.00	430.00

MINIMUM SPRING CHARACTERISTICS : 1.22

LENGTH MINIMUM : $L = A + S + 22.50$ EXTENDED LENGTH : $L1 = L + S + 22.50$ FITTING CENTER DISTANCE (BOTH SIDES)ASSUMPTIONS : $A = 20.00$, $\geq 20.00 \leq 100.00$ MM STROKE (S) $A = 27.00$, $> 100.00 \leq 250.00$ MM STROKE (S) $A = 32.00$, $> 250.00 \leq 450.00$ MM STROKE (S)**ORDER CODE**

AL - Dd - XX - L1 - S - F1 - YY - BP
 AUTO-LIFT CODE FOR BALL PIN
 MODEL : TUBE & ROD DIA. CODE FOR ROD SIDE END FITTING
 CODE FOR TUBE SIDE END FITTING FORCE IN NEWTON
 EXTENDED LENGTH STROKE

ORDER EXAMPLE : AL - 2810 - 14 - 675 - 270 - 600N - 15 - NA

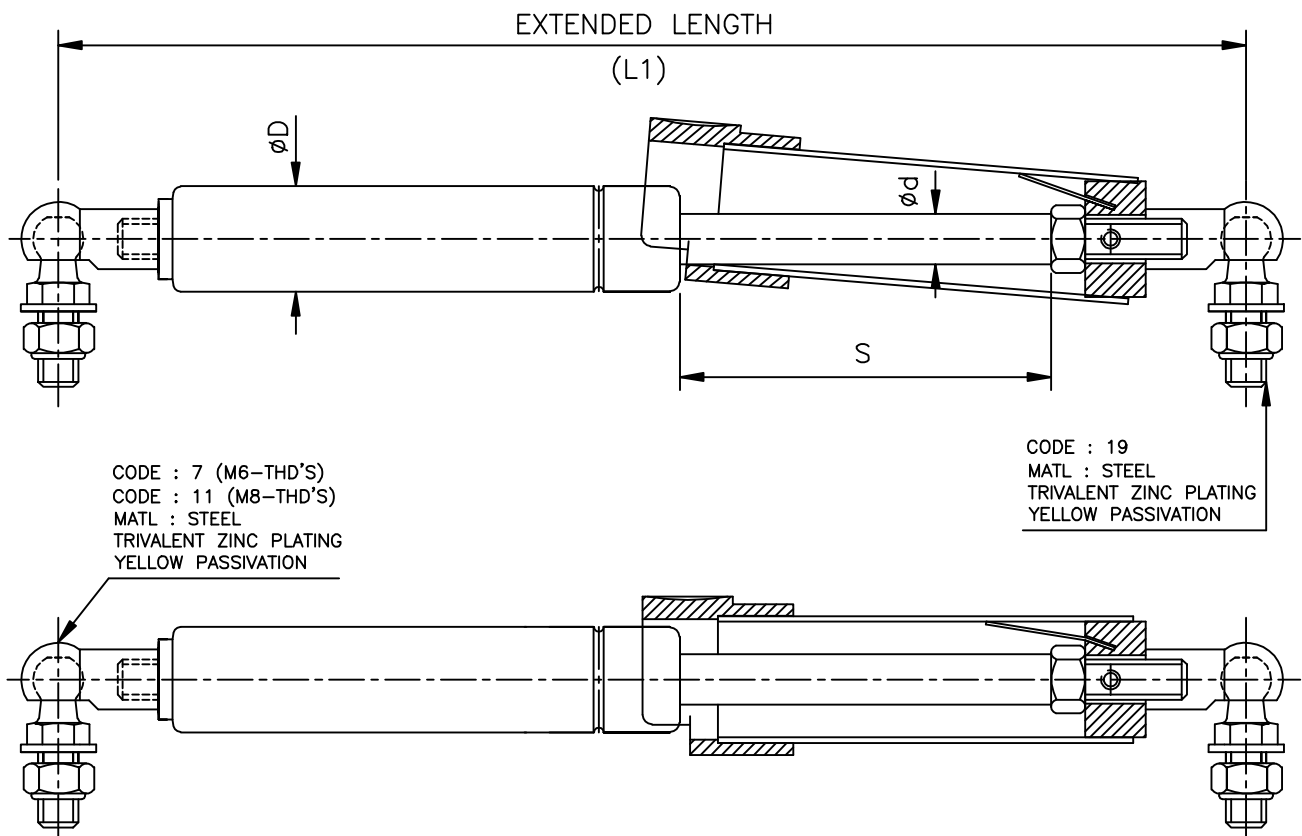
ASSUMPTION BP : BALL PIN CONSIDERED AT BOTH SIDES ALONG WITH NUT.

ORDER CODE

FOR GAS-SPRINGS WITH THREADED ENDS.

AL - Dd - TT - L2 - S - F1 - RT
 TUBE END THD'S EXTENDED LENGTH ROD END THD'S

ORDER EXAMPLE : AL - 2810 - M8 - 675 - 270 - 600N - M8



TUBE DIA. øD	ROD DIA. ød	FORCE (F1) N		STROKE (MM)		STD AVAILABLE STROKE (S) MM		
		MIN.	MAX.	MIN.	MAX.			
ø18.00	ø8.00	50	500	20.00	400.00	50.00	140.00	230.00
						60.00	150.00	325.00
ø19.00	ø8.00	50	700	20.00	400.00	80.00	175.00	347.00
						94.00	200.00	400.00
ø21.00	ø10.00	80	600	20.00	450.00	30.00	150.00	240.00
						60.00	178.00	277.00
ø22.00	ø10.00	80	1100	20.00	450.00	75.00	186.00	331.00
						100.00	195.00	320.00
						133.00	200.00	400.00

ORDER CODE

AL - Dd - XX - L1 - S - F1 - YY - BP
 AUTO-LIFT CODE FOR BALL PIN
 MODEL : TUBE & ROD DIA. CODE FOR ROD SIDE END FITTING
 CODE FOR TUBE SIDE END FITTING FORCE IN NEWTON
 EXTENDED LENGTH STROKE

ORDER EXAMPLE : AL - 2210 - 11 - 600 - 200 - 450N - 11 - 19

ASSUMPTION BP : BALL PIN CONSIDERED AT BOTH SIDES ALONG WITH NUT.