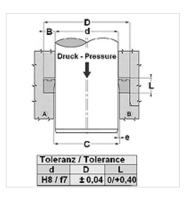


Properties	
Design	Rod U-ring
Operating pressure	up to 400 bar
Sliding speed max.	0,5 m/s
Temp. min.	-30 °C
Temp. max.	80 °C
Media	Mineral oils
Installation	in open grooves B in closed grooves in open installation spaces
Material	PUR
Application	Hydraulics

Spaltn	naß/C	learand	e	
e (mm)				
Druck bar	TS-TSL		TSAI-TSLA	
	d<60mm	d>60mm	d<60mm	d>60mm
50	<0.40	< 0.50	<0,60	<0,80
100	<0,30	<0,40	<0,60	<0,80
200	<0,20	< 0,30	<0,40	<0,60
300	<0,15	<0,20	<0,30	<0,40
400	<0,10	<0,15	<0,20	<0,30
500			<0,10	<0,15



Description

High abrasion resistance.

Extremely good sealing effect at low pressure.

Fast alternation of loads.

Ordering information

We are able to produce seals with diameters of 20 to 510 mm with short lead times.

Item				
Identification	d	D	L	
TO 00 44 I	(mm)	(mm)	(mm)	
TS 06 14-L	6,0	14,0	6,3	
TS 08 16-L	8,0	16,0	6,3	
TS 10 16-L	10,0	16,0	5,4	
TS 10 18-L	10,0	18,0	6,3	
TS 12 19-L	12,0	19,0	6,3	
TS 12 20-L	12,0	20,0	6,3	
TS 12 23-L	12,0	23,0	7,5	
TS 14 20-L	14,0	20,0	5,3	
TS 14 22-L	14,0	22,0	6,3	
TS 16 24-L	16,0	24,0	6,3	
TS 18 24-L	18,0	24,0	5,2	
TS 18 25-L	18,0	25,0	5,7	
TS 18 26-L	18,0	26,0	6,3	
TS 18 26-L1	18,0	26,0	9,0	
TS 18 28-L	18,0	28,0	6,3	
TS 18 28-L1	18,0	28,0	8,0	
TS 20 26-L	20,0	26,0	6,0	
TS 20 28-L	20,0	28,0	6,3	
TS 20 28-L1	20,0	28,0	8,0	
TS 20 30-L3	20,0	30,0	5,0	
TS 20 30-L	20,0	30,0	8,0	
TS 22 30-L1	22,0	30,0	6,3	
TS 22 32-L	22,0	32,0	8,0	
TS 22 32-L1	22,0	32,0	9,0	
TS 24 34-L	24,0	34,0	6,5	
TS 25 33-L	25,0	33,0	6,3	
TS 25 33-L2	25,0	33,0	7,5	
TS 25 33-L3	25,0	33,0	8,0	
TS 25 33-L1	25,0	33,0	9,0	
TS 25 35-L3	25,0	35,0	6,3	
TS 25 35-L1	25,0	35,0	8,0	
TS 25 35-L4	25,0	35,0	9,0	
TS 28 34-L	28,0	34,2	6,0	
TS 28 36-L1	28,0	28,0	6,3	
TS 28 36-L	28,0	36,0	9,0	
TS 28 38-L	28,0	38,0	6,3	
TS 28 38-L1	28,0	38,0	8,0	
TS 30 38-L1	30,0	38,0	6,3	

1



Item			
Identification	d	D	L
TS 30 38-L2	(mm)	(mm)	(mm)
TS 30 40-L	30,0 30,0	38,0 40,0	8,0 7,5
TS 30 40-L2	30,0	40,0	11,0
TS 32 40-L1	32,0	40,0	6,3
TS 32 40-L	32,0	40,0	9,0
TS 32 42-L	32,0	42,0	8,0
TS 32 42-L2	32,0	42,0	11,0
TS 35 43-L2	35,0	43,0	6,3
TS 35 43-L	35,0	43,0	7,0
TS 35 43-L1	35,0	43,0	9,0
TS 35 45-L	35,0	45,0	8,0
TS 35 45-L1	35,0	45,0	11,0
TS 35 50-L	35,0	50,0	11,0
TS 36 44-L1	36,0	44,0	6,3
TS 36 46-L TS 40 48-L1	36,0 40,0	46,0 48,0	8,0 6,3
TS 40 48-L2	40,0	48,0	7,0
TS 40 48-L	40,0	48,0	9,0
TS 40 50-L2	40,0	50,0	8,0
TS 40 55-L1	40,0	55,0	11,0
TS 40 60-L	40,0	60,0	11,0
TS 42 52-L	42,0	52,0	9,0
TS 45 53-L3	45,0	53,0	6,3
TS 45 53-L	45,0	53,0	9,0
TS 45 55-L2	45,0	55,0	6,3
TS 45 55-L	45,0	55,0	8,0
TS 45 55-L1	45,0	55,0	11,0
TS 45 57-L	45,0	57,0	10,5
TS 49 65-L	49,5	65,3	11,0
TS 50 58-L TS 50 60-L	50,0 50,0	58,0 60,0	9,0 8,0
TS 50 60-L2	50,0	60,0	10,0
TS 50 60-L1	50,0	60,0	11,0
TS 50 62-L1	50,0	62,0	9,0
TS 50 65-L	50,0	65,0	11,0
TS 50 65-L1	50,0	65,0	12,5
TS 55 63-L	55,0	63,0	9,0
TS 55 65-L	55,0	65,0	8,0
TS 55 65-L1	55,0	65,0	11,0
TS 55 65-L2	55,0	65,0	13,0
TS 56 66-L1	56,0	66,0	7,5
TS 56 71-L	56,0	71,0	12,5
TS 60 68-L	60,0	68,0	9,0
TS 60 70-L TS 60 70-L1	60,0 60,0	70,0	8,0
TS 60 70-L1	60,0	70,0 70,0	11,0 12,5
TS 60 70-L3	60,0	70,0	13,0
TS 60 71-L	60,0	71,0	9,0
TS 60 72-L	60,0	72,0	10,0
TS 60 75-L1	60,0	75,0	11,0
TS 61 69-L1	61,0	69,7	9,0
TS 63 73-L	63,0	73,0	11,0
TS 63 75-L2	63,0	75,0	9,5
TS 63 75-L1	63,0	75,0	11,0
TS 65 73-L	65,0	73,0	9,0
TS 65 75-L	65,0	75,0	13,0
TS 70 78-L	70,0	78,0	9,0
TS 70 80-L	70,0	80,0	8,0
TS 70 80-L1	70,0	80,0	11,0
TS 70 80-L2 TS 70 82-L	70,0 70,0	80,0 82,0	13,0 10,0
TS 70 82-L	70,0	85,0	12,5
TS 75 83-L1	75,0	83,0	9,0
	70,0	55,5	





Test	Item			
TS 75 85-L 75,0 85,0 8,0 TS 75 85-L1 75,0 85,0 13,0 TS 78 86-L1 78,0 86,0 9,0 TS 79 87-L 79,0 87,7 9,0 TS 80 88-L2 80,0 88,0 9,0 TS 80 98-L1 80,0 88,0 12,5 TS 80 90-L 80,0 90,0 8,0 TS 80 90-L 80,0 90,0 13,0 TS 80 90-L 80,0 90,0 13,0 TS 80 92-L 80,0 92,0 9,6 TS 80 95-L 80,0 95,0 12,5 TS 80 96-L 80,0 96,0 10,5 TS 85 93-L 85,0 93,0 9,0 TS 85 95-L 85,0 95,0 13,0 TS 88 95-L1 85,0 95,0 13,0 TS 88 101-L 88,9 101,6 10,5 TS 89 102-L 90,0 102,0 10,0 TS 99 103-L 90,0 105,0 12,5 <t< th=""><th>Identification</th><th>d</th><th>D</th><th>L</th></t<>	Identification	d	D	L
TS 75 85-L1 75,0 85,0 13,0 TS 78 86-L1 78,0 86,0 9,0 TS 79 87-L 79,0 87,7 9,0 TS 80 88-L2 80,0 88,0 9,0 TS 80 88-L1 80,0 88,0 12,5 TS 80 90-L 80,0 90,0 13,0 TS 80 90-L 80,0 90,0 13,0 TS 80 92-L 80,0 92,0 9,6 TS 80 95-L 80,0 95,0 12,5 TS 80 96-L 80,0 96,0 10,5 TS 85 93-L 85,0 95,0 8,0 TS 85 95-L 85,0 95,0 8,0 TS 85 95-L 85,0 95,0 8,0 TS 88 101-L 88,9 101,6 10,5 TS 90 102-L 90,0 102,0 10,0 TS 90 102-L 90,0 105,0 12,5 TS 90 105-L 90,0 105,0 12,5 TS 91 105-L 95,0 103,0 9,0 TS 100 108-L 100,0 115,0 13,0 TS 100 115-L 100,0 115,0 13,0 TS 101 125-L 110,0 125,0 13,0 TS 110 125-L 110,0 125,0 12,5 TS 110 125-L 110,0 125,0 12,5 TS 110 125-L 110,0 123,0 9,0 TS 115 123-L 115,0 123,0 9,0 TS 125 133-L1 125,0 123,0 9,0 TS 135 143-L 115,0 123,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 144-L 135,0 143,7 9,0 TS 135 140-L 135,0 150,0 12,5 TS 140 150-L 135,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0		, ,		
TS 78 86-L1 78,0 86,0 9,0 TS 79 87-L 79,0 87,7 9,0 TS 80 88-L2 80,0 88,0 9,0 TS 80 88-L1 80,0 88,0 12,5 TS 80 90-L 80,0 90,0 13,0 TS 80 90-L1 80,0 90,0 13,0 TS 80 90-L1 80,0 90,0 13,0 TS 80 92-L 80,0 92,0 9,6 TS 80 95-L 80,0 95,0 12,5 TS 80 96-L 80,0 95,0 10,5 TS 85 93-L 85,0 93,0 9,0 TS 85 95-L1 85,0 95,0 8,0 TS 85 95-L1 85,0 95,0 13,0 TS 88 101-L 88,9 101,6 10,5 TS 90 102-L 90,0 102,0 10,0 TS 90 105-L 90,0 105,0 12,5 TS 90 105-L 90,0 106,7 9,0 TS 98 106-L 98,0 106,7 9,0 TS 100 108-L 100,0 115,0 13,0 TS 100 115-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 108 116-L 100,0 115,0 13,0 TS 108 116-L 100,0 115,0 13,0 TS 108 116-L 100,0 108,0 12,5 TS 108 116-L 100,0 115,0 13,0 TS 108 116-L 100,0 124,7 9,0 TS 115 123-L 115,0 123,0 9,0 TS 125 133-L1 125,0 123,0 9,0 TS 125 133-L1 125,0 123,0 9,0 TS 135 143-L1 135,0 143,7 9,0 TS 135 144-L 135,0 143,7 9,0 TS 135 144-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 140 150-L 135,0 150,0 12,5 TS 140 150-L 135,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0				
TS 79 87-L 79,0 87,7 9,0 TS 80 88-L2 80,0 88,0 9,0 TS 80 88-L1 80,0 88,0 12,5 TS 80 90-L 80,0 90,0 8,0 TS 80 90-L 80,0 90,0 8,0 TS 80 90-L1 80,0 90,0 13,0 TS 80 92-L 80,0 92,0 9,6 TS 80 95-L 80,0 95,0 12,5 TS 80 96-L 80,0 96,0 10,5 TS 85 93-L 85,0 93,0 9,0 TS 85 95-L 85,0 95,0 13,0 TS 85 95-L 85,0 95,0 13,0 TS 86 95-L 85,0 95,0 10,6 TS 80 10-L 88,9 101,6 10,5 TS 90 102-L 90,0 102,0 10,0 TS 90 105-L 90,0 105,0 12,5 TS 95 103-L 95,0 103,0 9,0 TS 98 106-L 98,0 106,7 9,0 TS 100 108-L 100,0 115,0 12,5 TS 100 115-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 125 133-L1 125,0 133,0 7,5 TS 135 143-L1 135,0 143,0 9,0 TS 135 145-L 135,0 143,0 9,0 TS 135 146-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0		· · · · · · · · · · · · · · · · · · ·		
TS 80 88-L2 80,0 88,0 9,0 TS 80 88-L1 80,0 88,0 12,5 TS 80 90-L 80,0 90,0 8,0 TS 80 90-L 80,0 90,0 13,0 TS 80 90-L 80,0 90,0 13,0 TS 80 92-L 80,0 92,0 9,6 TS 80 95-L 80,0 95,0 12,5 TS 80 96-L 80,0 96,0 10,5 TS 85 93-L 85,0 93,0 9,0 TS 85 95-L 85,0 95,0 8,0 TS 85 95-L 85,0 95,0 13,0 TS 86 101-L 88,9 101,6 10,5 TS 90 102-L 90,0 102,0 10,0 TS 90 105-L 90,0 105,0 12,5 TS 95 103-L 95,0 103,0 9,0 TS 100 108-L 100,0 115,0 12,5 TS 100 115-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 105 113-L 105,0 113,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 110 125-L 110,0 125,0 12,0 TS 110 125-L 110,0 125,0 12,0 TS 110 125-L 110,0 125,0 12,5 TS 120 128-L1 120,0 128,0 9,0 TS 125 133-L1 125,0 133,0 9,0 TS 125 133-L1 125,0 123,0 9,0 TS 125 133-L1 125,0 123,0 9,0 TS 125 133-L1 125,0 133,0 7,5 TS 135 143-L 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 140 150-L 140,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
TS 80 88-L1 80,0 88,0 12,5 TS 80 90-L 80,0 90,0 8,0 TS 80 90-L1 80,0 90,0 13,0 TS 80 92-L 80,0 92,0 9,6 TS 80 95-L 80,0 95,0 12,5 TS 80 96-L 80,0 96,0 10,5 TS 85 93-L 85,0 93,0 9,0 TS 85 95-L 85,0 95,0 13,0 TS 85 95-L 85,0 95,0 13,0 TS 88 101-L 88,9 101,6 10,5 TS 90 102-L 90,0 102,0 10,0 TS 90 105-L 90,0 105,0 12,5 TS 91 103-L 95,0 106,7 9,0 TS 100 108-L 100,0 12,5 TS 100 115-L 100,0 115,0 12,5 TS 100 115-L 105,0 113,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 110 125-L 110,0 125,0 12,0 TS 116 124-L 116,0 124,7 9,0 TS 125 133-L1 125,0 133,0 7,5 TS 125 133-L1 125,0 133,0 9,0 TS 135 143-L 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 143-L 135,0 143,7 9,0 TS 155 150-L 135,0 150,0 12,5 TS 154 162-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0				9,0
TS 80 90-L 80,0 90,0 8,0 TS 80 90-L1 80,0 90,0 13,0 TS 80 92-L 80,0 92,0 9,6 TS 80 95-L 80,0 95,0 12,5 TS 80 96-L 80,0 96,0 10,5 TS 85 93-L 85,0 93,0 9,0 TS 85 95-L 85,0 95,0 13,0 TS 85 95-L 85,0 95,0 13,0 TS 88 101-L 88,9 101,6 10,5 TS 90 102-L 90,0 102,0 10,0 TS 90 105-L 90,0 105,0 12,5 TS 95 103-L 95,0 103,0 9,0 TS 98 106-L 98,0 106,7 9,0 TS 100 108-L 100,0 115,0 12,5 TS 100 115-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 110 125-L 110,0 125,0 12,0 TS 111 124-L 116,0 124,7 9,0 TS 120 128-L1 120,0 128,0 12,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 155 150-L 135,0 150,0 12,5 TS 156 162-L 140,0 150,0 12,5 TS 156 162-L 154,0 150,0 12,5		•	88,0	
TS 80 90-L1 80,0 90,0 13,0 TS 80 92-L 80,0 92,0 9,6 TS 80 95-L 80,0 95,0 12,5 TS 80 96-L 80,0 96,0 10,5 TS 85 93-L 85,0 93,0 9,0 TS 85 95-L 85,0 95,0 8,0 TS 88 101-L 88,9 101,6 10,5 TS 98 101-L 90,0 102,0 10,0 TS 90 102-L 90,0 105,0 12,5 TS 90 105-L 90,0 105,0 12,5 TS 95 103-L 95,0 103,0 9,0 TS 98 106-L 98,0 106,7 9,0 TS 100 108-L 100,0 108,0 12,5 TS 100 115-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0	TS 80 88-L1	80,0	88,0	12,5
TS 80 92-L 80,0 92,0 9,6 TS 80 95-L 80,0 95,0 12,5 TS 80 96-L 80,0 96,0 10,5 TS 85 93-L 85,0 93,0 9,0 TS 85 95-L 85,0 95,0 13,0 TS 85 95-L 85,0 95,0 13,0 TS 88 101-L 88,9 101,6 10,5 TS 90 102-L 90,0 102,0 10,0 TS 90 105-L 90,0 105,0 12,5 TS 95 103-L 95,0 103,0 9,0 TS 98 106-L 98,0 106,7 9,0 TS 100 108-L 100,0 108,0 12,5 TS 100 115-L 100,0 115,0 13,0 TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 111 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 120 128-L1 120,0 128,0 12,5 TS 130 145-L 116,0 124,7 9,0 TS 135 143-L 125,0 133,0 7,5 TS 135 143-L 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 140-L 140,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0	TS 80 90-L	80,0	90,0	8,0
TS 80 95-L 80,0 95,0 12,5 TS 80 96-L 80,0 96,0 10,5 TS 85 93-L 85,0 93,0 9,0 TS 85 95-L1 85,0 95,0 8,0 TS 88 101-L 88,9 101,6 10,5 TS 90 102-L 90,0 102,0 10,0 TS 90 105-L 90,0 105,0 12,5 TS 95 103-L 95,0 103,0 9,0 TS 98 106-L 98,0 106,7 9,0 TS 100 108-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 120 128-L1 120,0 128,0 12,5 TS 133-L1 125,0 133,0 7,5 TS 130 145-L 130,0 145,0	TS 80 90-L1	80,0	90,0	13,0
TS 80 96-L 80,0 96,0 10,5 TS 85 93-L 85,0 93,0 9,0 TS 85 95-L 85,0 95,0 8,0 TS 85 95-L1 85,0 95,0 13,0 TS 88 101-L 88,9 101,6 10,5 TS 90 102-L 90,0 102,0 10,0 TS 90 105-L 90,0 105,0 12,5 TS 95 103-L 95,0 103,0 9,0 TS 98 106-L 98,0 106,7 9,0 TS 100 108-L 100,0 108,0 12,5 TS 100 115-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 125 133-L1 125,0 133,0 7,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L 135,0 143,7 9,0 <th>TS 80 92-L</th> <th>80,0</th> <th>92,0</th> <th>9,6</th>	TS 80 92-L	80,0	92,0	9,6
TS 85 93-L 85,0 93,0 9,0 TS 85 95-L 85,0 95,0 8,0 TS 85 95-L1 85,0 95,0 13,0 TS 88 101-L 88,9 101,6 10,5 TS 90 102-L 90,0 102,0 10,0 TS 90 105-L 90,0 105,0 12,5 TS 95 103-L 95,0 103,0 9,0 TS 98 106-L 98,0 106,7 9,0 TS 100 108-L 100,0 108,0 12,5 TS 100 115-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 125 133-L1 125,0 133,0 7,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L1 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0		80,0	95,0	
TS 85 95-L 85,0 95,0 8,0 TS 85 95-L1 85,0 95,0 13,0 TS 88 101-L 88,9 101,6 10,5 TS 90 102-L 90,0 102,0 10,0 TS 90 105-L 90,0 105,0 12,5 TS 95 103-L 95,0 103,0 9,0 TS 98 106-L 98,0 106,7 9,0 TS 100 108-L 100,0 108,0 12,5 TS 100 115-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 101 125-L 110,0 125,0 12,0 TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 125 133-L1 125,0 133,0 7,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0	TS 80 96-L	80,0	96,0	10,5
TS 85 95-L1 85,0 95,0 13,0 TS 88 101-L 88,9 101,6 10,5 TS 90 102-L 90,0 102,0 10,0 TS 90 105-L 90,0 105,0 12,5 TS 95 103-L 95,0 103,0 9,0 TS 98 106-L 98,0 106,7 9,0 TS 100 108-L 100,0 108,0 12,5 TS 100 115-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 120 128-L1 120,0 128,0 12,5 TS 133-L1 125,0 133,0 7,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L 135,0 143,7 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 <th>TS 85 93-L</th> <th>85,0</th> <th></th> <th>9,0</th>	TS 85 93-L	85,0		9,0
TS 88 101-L 88,9 101,6 10,5 TS 90 102-L 90,0 102,0 10,0 TS 90 105-L 90,0 105,0 12,5 TS 95 103-L 95,0 103,0 9,0 TS 98 106-L 98,0 106,7 9,0 TS 100 108-L 100,0 115,0 13,0 TS 100 115-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 120 128-L1 120,0 125,0 TS 125 133-L1 125,0 TS 130 145-L 130,0 143,0 9,0 TS 135 143-L 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 125 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L	TS 85 95-L	85,0	95,0	8,0
TS 90 102-L 90,0 102,0 10,0 TS 90 105-L 90,0 105,0 12,5 TS 95 103-L 95,0 103,0 9,0 TS 98 106-L 98,0 106,7 9,0 TS 100 108-L 100,0 115,0 13,0 TS 100 115-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 120 128-L1 120,0 128,0 12,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 140 150-L 154,0 162,7 9,0	TS 85 95-L1	85,0	95,0	13,0
TS 90 105-L 90,0 105,0 12,5 TS 95 103-L 95,0 103,0 9,0 TS 98 106-L 98,0 106,7 9,0 TS 100 108-L 100,0 108,0 12,5 TS 100 115-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 120 128-L1 120,0 128,0 12,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 140 150-L 154,0 162,7 9,0	TS 88 101-L	88,9	101,6	10,5
TS 95 103-L 95,0 103,0 9,0 TS 98 106-L 98,0 106,7 9,0 TS 100 108-L 100,0 108,0 12,5 TS 100 115-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 120 128-L1 120,0 128,0 12,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5	TS 90 102-L	90,0	102,0	10,0
TS 98 106-L 98,0 106,7 9,0 TS 100 108-L 100,0 108,0 12,5 TS 100 115-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 120 128-L1 120,0 128,0 12,5 TS 125 133-L1 125,0 133,0 7,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L1 135,0 143,0 9,0 TS 135 150-L 135,0 143,7 9,0 TS 136 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0	TS 90 105-L		105,0	12,5
TS 100 108-L 100,0 108,0 12,5 TS 100 115-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 120 128-L1 120,0 128,0 12,5 TS 125 133-L1 125,0 133,0 7,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0	TS 95 103-L	95,0	103,0	9,0
TS 100 115-L 100,0 115,0 13,0 TS 105 113-L 105,0 113,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 120 128-L1 120,0 128,0 12,5 TS 125 133-L1 125,0 133,0 7,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L1 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0	TS 98 106-L	98,0	106,7	9,0
TS 105 113-L 105,0 113,0 9,0 TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 120 128-L1 120,0 128,0 12,5 TS 125 133-L1 125,0 133,0 7,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L1 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0	TS 100 108-L	100,0	108,0	12,5
TS 108 116-L 108,0 116,0 9,0 TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 120 128-L1 120,0 128,0 12,5 TS 125 133-L1 125,0 133,0 7,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L1 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0	TS 100 115-L	100,0	115,0	13,0
TS 110 125-L 110,0 125,0 12,0 TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 120 128-L1 120,0 128,0 12,5 TS 125 133-L1 125,0 133,0 7,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L1 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0	TS 105 113-L	105,0	113,0	9,0
TS 115 123-L 115,0 123,0 9,0 TS 116 124-L 116,0 124,7 9,0 TS 120 128-L1 120,0 128,0 12,5 TS 125 133-L1 125,0 133,0 7,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L1 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0	TS 108 116-L	108,0	116,0	9,0
TS 116 124-L 116,0 124,7 9,0 TS 120 128-L1 120,0 128,0 12,5 TS 125 133-L1 125,0 133,0 7,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L1 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0	TS 110 125-L	110,0	125,0	12,0
TS 120 128-L1 120,0 128,0 12,5 TS 125 133-L1 125,0 133,0 7,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L1 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0	TS 115 123-L	115,0	123,0	9,0
TS 125 133-L1 125,0 133,0 7,5 TS 130 145-L 130,0 145,0 16,0 TS 135 143-L1 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0	TS 116 124-L	116,0	124,7	9,0
TS 130 145-L 130,0 145,0 16,0 TS 135 143-L1 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0	TS 120 128-L1	120,0	128,0	12,5
TS 135 143-L1 135,0 143,0 9,0 TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0	TS 125 133-L1	125,0	133,0	7,5
TS 135 143-L 135,0 143,7 9,0 TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0		130,0	145,0	16,0
TS 135 150-L 135,0 150,0 12,5 TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0				<u> </u>
TS 140 150-L 140,0 150,0 12,5 TS 154 162-L 154,0 162,7 9,0				
TS 154 162-L 154,0 162,7 9,0	TS 135 150-L	135,0	150,0	12,5
	TS 140 150-L	140,0	150,0	12,5
TS 170 180-L 170,0 180,0 11,0		154,0	162,7	9,0
	TS 170 180-L	170,0	180,0	11,0