

COSMO OPTICS, MIDDLETOWN, NEW YORK 10940

Radii MM	TEST GLASSES		TEST GLASS	TOOLS		COMMENTS (F=Fine, R=Rough)	
	CC	CX		DIA	CC	CX	CC
0.9790	x	x		xx	xx	R & F	R & F
1.0850	x	x					
1.0890	x	x	1.90 mm	xxx	xx	R & 2 F	R & 2 F
1.2000	x	x		xx	xx	R & F	R&F
1.5000	x	x			x		R
1.5200			2.50 mm (ball only)				
1.5990	x	x	3.00 mm		x		R
1.7620	x	x	3.25 mm	xx	xx	R & Ø 3mm F	R&F
1.9590	x	x	3.75 mm	xx	xxx	R & F	2 R & F
2.2030	x	x	4.10 mm	xx	x	R & F	F
2.2290	x	x	4.15 mm				

2.2900			4.20 mm (ball only)				
2.3010	x	x		xxx	xxx	R & 2F	R & 2F
2.5380	x	x	4.75 mm	xx	xxxx	R & F	2F & 2R
2.6250	x	x	4.90 mm		xxx		2R & 1F
2.7880	x	x	5.00 mm	x	xx	F	R & F
2.8190	x	x	5.25 mm	xxx	xxxx	2 R & 1 F	2 R & 2 F
2.9400	x	x	5.25 mm	xx	xx	R & F	R & F
3.0140	x	x	5.30 mm	x		F	
3.0810	x	x	5.30 mm	xx	x	R & F	F
3.1110	x	x	5.30 mm	xx	x	R & F	F
3.1450	x	x	5.30 mm	x	x	R	R
3.1650	x	x	5.30 mm	xx	xxx	2 R	2R & 1F
3.2420	x	x	5.40 mm	xx	xx	R & F	2 R

3.3495	x	x	6.699 mm & 6.25mm	xxxxxxx	xxxx	4 R & 3 F	4 R
3.3540	x	x					
3.3750	x	x	6.25 mm	xx	xx	R & F	R & F
3.5050	x	x	6.50 mm	xxx	xxxx	2 R & 1 F	3 R & 1 F
3.6380	x	x	6.50 mm	xx	xx	R & F	R & F
3.6510	x	x	6.50 mm	xx	xx	R & F	R & F
3.7290	x	x	6.75 mm	xxxx	x	2 R & 2 F	R
3.7770	x	x	7.00 mm	xx	xx	R & F	R & F
3.9050	x	x	7.25 mm	xx	xx	R & F	R & F
3.9660	x	x	7.50 mm	xx	xx	R & F	R & F
4.0000				x		R	
4.0200	x	x	7.50 mm	xx	xx	R & F	R & F
4.0720	x	x	7.50 mm		x		F

4.1630	x	x	7.60 mm	x	xxx	F	2 R & 1 F
4.2210	x	x	7.75 mm	xx	x	R & F	Ø 6mm R
4.2400					xx		R & F
4.2505	x	x		xxxx		2 R & 2 F	
4.2950	x	x	7.75 mm	x	xxx	F	R & F & Ø 5mm F
4.3216	x	x		xx	xxx	R & F	2 R & 1 F
4.4580	x	x	8.10 mm	xx	xx	R & F	R & F
4.6050	x	x	8.20 mm	xxxx	xxx	Ø 9mm 2 R & 2 F	Ø 7mm 2 R & 1 F
4.6480	X			xx	xx	Ø 9 mm R & F	Ø 8mm R & F
4.6700	x	x					
4.6940	x	x	8.25 mm	xxx	xxx	2 R & 1 F	2 R & 1 F
4.7800	x	ball	8.50 mm				
4.8100	x	x	8.50 mm	xx	xx	Ø 9 mm R & F	Ø 7mm R & F

4.9000					x		R
4.9500	x	x	9.00 mm	x	xx	Ø 10mm R	Ø 8mm 2 R
4.9510	x	x					
5.0000				x	x	R	R
5.0080	x	x	9.00 mm	xx	xx	Ø 9mm R & F	Ø 8mm 2 R
5.0850	x	x	9.00 mm	xx	xx	Ø 10mm R & F	Ø 9mm R & F
5.2070	x	x	9.25 mm	x	xx	Ø 10mm F	Ø 9 mm R & 7 mm F
5.2240	x	x	9.25 mm	xx	xx	Ø 10mm R & F	Ø 9 mm R & 8 mm F
5.2440	x	x	9.25 mm	xxx	xxxx	Ø 11mm 2 R & Ø 10 mm F	Ø 6, 8 & 10mm R & Ø 10 mm F
5.3500					x		Ø 7mm F
5.4490	x	x	9.50 mm	xxx	xxxx	Ø 10mm R & F Ø 26 mm R	Ø 6mm 2 R & Ø 7 mm 2F
5.5050	x	x		xx	xx	Ø 11mm R & Ø 10mm F	Ø 6mm R & F
5.6020	x	x	9.50 mm	xxx	xxx	Ø 10 & 11mm R & Ø 11mm 1 F	Ø 8mm 2 R & 1 F

5.6600	x	x	9.50 mm	x	x	Ø 25mm R	Ø 7mm F
5.7190				xxx	xxx	Ø 10mm 2 R & Ø 11mm 1 R	Ø 10mm 2 R & Ø 11mm 1 R
5.7250	x	x	9.75 mm				
5.7400	x	x	10.00 mm	xx	xx	Ø 11mm R & F	Ø 8mm R & Ø 10mm F
5.8000	x	x	10.25 mm		x		Ø 8mm F
5.8100			10.25 mm	xxx	xxxx	Ø 11mm 1 R & 2 F	Ø 8mm 1 R & 2 F Ø 6 mm F
5.8300				xxx	xxx	Ø 11mm 1 R & 2 F	Ø 8mm 2 R & 1 F
5.8510	x	x	10.50 mm	xx	xx	Ø 11mm R & Ø 10 mm F	Ø 8mm R & F
5.8850	x	x	10.50 mm	xx	xx	Ø 12mm R & Ø 11mm F	Ø 10mm R & Ø 8mm F
5.9600	x	x	10.50 mm	xxx	xxxx	Ø 11mm R & F Ø 8mm R	Ø 8mm 3 R & 1 F
5.9720			ball only				
6.0700	x	x	10.75 mm	xxx	xx	Ø 24mm R & Ø 11mm 2 F	Ø 6mm R & Ø 8mm F
6.0950	x	x	10.75 mm	xxxx		Ø 11mm R & 3 F	

6.1400				xx	xx	Ø 12mm R & Ø 11mm F	Ø 8mm R & F
6.2120					x		Ø 8mm F (glass)
6.2200	x	x	11.00 mm	xx	xx	Ø 11mm R & F	Ø 8mm R & F
6.2670	x	x	11.00 mm	xx	xx	Ø 12mm R & F	Ø 10mm R & F
6.2950	x	x	11.50 mm	xx	xx	Ø 12mm R & F	Ø 10mm R & F
6.3500	x	x	11.50 mm	xxx	xxxx	Ø 12mm R & 2 F	Ø 10mm 2 R & 1 F Ø 12 mm R
6.4250	x	x		xx	xx	Ø 12mm R & F	Ø 10mm R & F
6.4900	x	x	12.00 mm	xx	xx	Ø 12mm R & F	Ø 10mm R & F
6.5420	x	x	12.00 mm	xxx	xx	Ø 12mm R & F, Ø 14 mm F	Ø 10mm R & F
6.6300	x	x	12.25 mm	xxx	xxxx	Ø 12mm R & F Ø 13mm R	Ø 10mm F & Ø 12mm 2 R & 1 F
6.6700	x	x	12.25 mm	xx	xx	Ø 13mm R & F	Ø 10mm R & F
6.7300	x	x	12.25 mm	xx	xx	Ø 14mm R & Ø 13mm F	Ø 12mm R & Ø 14mm F
6.7950				x		Ø 10mm R	

6.8600	x	x	12.50 mm	xx	xx	Ø 13mm R & F	Ø 14mm R & Ø 12mm F
6.8900				x	xxx	Ø 13mm R	Ø 14mm 2 R & 1 F
6.8960	x	x	12.50 mm	xxx	xx	Ø 12mm 2 R & 1 F	Ø 12mm R & F
6.9300	x	x	12.50 mm	x	xxx	Ø 11mm R	Ø 8mm R, Ø 10mm R & F
6.9760				x		Ø 12mm F	
7.0050	x	x	12.50 mm	xx	xx	Ø 12mm R & Ø 14mm F	Ø 10mm R & Ø 12mm F
7.0600	x	x	12.50 mm	xxx	xxx	Ø 14mm 2 R & 1 F	Ø 10mm & 14mm R & Ø 12mm F
7.1450	x	x	12.50 mm	xx	xx	Ø 14mm R & Ø 13mm F	Ø 10mm R & F
7.2200	x	x	12.50 mm	xx	xx	Ø 14mm R & F	Ø 12mm R & F
7.2970	x	x	13.00 mm				
7.3500	x	x	13.00 mm	xxx	xx	Ø 14mm 1 R & 2 F	Ø 15mm R & F
7.4300	x	x	13.00 mm	xxx	xxx	Ø 14mm 2 R & 1 F	Ø 14mm 2 R & 1 F
7.5730	x	x	13.00 mm	xxx	xxxx	Ø 15mm 2 R & 1 F	Ø 12mm R & F Ø 10mm 2 R

7.6400	x	x		xxx	xxx	Ø 15mm R, Ø 14mm R Ø 12mm F	Ø 12mm 2 R & 1 F
7.6850	x	x		xx	xx	Ø 14mm R & F	Ø 12mm R & F
7.7700	x	x	13.00 mm	xx	xx	Ø 25mm R & Ø 15mm F	Ø 13mm R & F
7.9950	x	x	13.50 mm				
8.0000	x	x	13.50 mm	xx	xxx	Ø 15mm R & Ø 14mm F	Ø 12mm R Ø 10mm R & F
8.0660	x	x	13.50 mm	xx	xx	Ø 16mm R & F	Ø 12mm R & F
8.2850	x	x	13.50 mm	xx	x	Ø 16mm R & F	Ø 15mm R
8.3000	x	x	14.50 mm				
8.3400					x		Ø 15mm R
8.3510	x	x	14.50 mm	xxx	xxx	Ø 15mm 2 R & Ø 16mm F	Ø 15mm 2 R & 1 F
8.3720	x	x		xx	xx	Ø 16mm R & F	Ø 15mm R & F
8.4200	x	x	14.00 mm				
8.4900	x	x	14.00 mm	xx	xxxx	Ø 16mm R & F	Ø 8, 10, 15mm R, Ø 14mm F

8.5550	x	x	14.00 mm	xx	xx	Ø 18mm R & Ø 16mm F	Ø 12mm R & F
8.6150	x	x	14.50 mm				
8.6300	x	x	14.50 mm	xxx	xxx	Ø 18mm 2 R & F	Ø 16mm 2 R & F
8.6550	x	x	14.50 mm	xxxxx	xxxx	Ø 18mm 2 R & 2 F Ø 16mm F	Ø 10, 14mm R, Ø 14mm R & F
8.7070	x	x	14.50 mm	xx	xx	Ø 18mm R & F	Ø 15mm R & F
8.8000	x	x	14.75 mm	xx	xx	Ø 18mm R & F	Ø 15mm R & F
8.8400	x	x	14.75 mm	x	xxx	Ø 18mm R	Ø 15mm R & F
8.9180	x	x		xx	xx	Ø 18mm 2 R	Ø 15mm R & F
8.9500	x	x	15.00 mm	xx	xx	Ø 18mm R & F	Ø 15mm R & F
9.0000	x	x	15.00 mm	xx	xxxxx	Ø 17mm R & F	Ø 13mm R, 14 mm R, 12mm 2 F & 16mm F
9.1310	x	x		xxx	xxx	Ø 18mm R & 2 F	Ø 15mm R & F, Ø 16mm R
9.1570	x	x		xx	xx	Ø 18mm R & F	Ø 15mm R & F
9.1700	x	x	15.00 mm	xx	xx	Ø 18mm R & F	Ø 18mm R & F

9.2000	x	x	15.00 mm	xx	xx	Ø 18mm R & F	Ø 15mm R & F
9.2750				xx	xx	Ø 18mm R & Ø 17mm F	Ø 18mm 2 R
9.3200	x	Ball	15.00 mm				
9.3400	x	x	15.50 mm				
9.4900	x	x	16.00 mm	xxx	xx	Ø 18mm R & F, Ø 16mm F	Ø 14mm R, Ø 15mm F
9.5420	x	x	16.00 mm	xxx	x	Ø 16mm R & F, Ø 18mm F	Ø 14mm R
9.5800	x	x	16.50 mm	xx	xx	Ø 18mm R & Ø 24mm F	Ø 16mm R & F
9.6500			ball	xx	xx	Ø 18mm R & F	Ø 16mm R & F
9.6700	x	x	17.00 mm				
9.7600	x	x	17.00 mm	xxx	xxx	Ø 19mm R & F, Ø 18mm R	Ø 18mm 2 R, Ø 14mm F
9.8120			cyl				
9.8300	x	x	17.00 mm	xxx	xxx	Ø 18mm 2 R & 1 F	Ø 18mm R & F, Ø 17mm R
9.8830	x	x	17.50 mm	xx	xx	Ø 18mm R & F	Ø 18mm R & F

9.9200	x	x	17.50 mm	xx	xx	Ø 20mm R & F	Ø 18mm R & F
9.9650	x	x	17.50 mm	xx	xx	Ø 19mm R & Ø 16mm F	Ø 17mm R & Ø 13mm R
10.0030	x	xx	17.50 mm	x	x	Ø 15mm F	Ø 15mm F
10.0680				xx	xx	Ø 20mm F & Ø 19mm F	Ø 17mm R & F
10.0700	x	x	17.50 mm				
10.1500	x	x	17.50 mm	xxx	xxx	Ø 20mm 2 R & 1 F	Ø 17mm F, Ø 15mm R & Ø 20mm
10.2550	x	x	17.50 mm	xx	xx	Ø 19mm R & F	Ø 16mm R & F
10.3270	x	x	17.50 mm	xx	xx	Ø 20mm R & F	Ø 16mm R & F
10.3960	x	x	17.50 mm	xx	xx	Ø 20mm R & F	Ø 15mm R & F
10.4600	x	x	17.50 mm	xx	xx	Ø 20mm R & F	Ø 18mm R & F
10.5850	x	x	18.00 mm	xx	xx	Ø 20mm R & F	Ø 18mm R & F
10.6020	x	x		xx	xx	Ø 20mm R & F	Ø 18mm R & F
10.6350				x	x	Ø 20mm F	Ø 20mm R

10.6600	x	x	18.00 mm	xx	xx	Ø 19mm R & Ø 20mm F	Ø 16mm R & Ø 15mm F
10.7300	x	x	18.00 mm	xxx	xxx	Ø 18mm R, Ø 21mm R & F	Ø 16mm F, Ø 18mm R & F
10.8350	x	x	18.00 mm	xxx	xxx	Ø 20mm 2 R & 1 F	Ø 20mm 1 R & 2 F
11.0000					x		
11.0200	x	x	18.00 mm	xx	xx	Ø 22mm R & F	Ø 20mm R & F
11.1000	x	x	19.00 mm	xx		Ø 20mm R & Ø 21mm F	
11.1200	x	x					
11.1260	xx	xx	19.00 mm	xx	xx	Ø 22mm R & Ø 21mm F	Ø 12mm R & Ø 18mm F
11.2600	x	x	19.00 mm	xx	xxx	Ø 22mm R & F	Ø 16mm 1 R & 2 F
11.2800	x	x	19.00 mm				
11.3600	x	x	19.00 mm	xxx	xx	Ø 22mm 2 R & 1 F	Ø 20mm R & Ø 18mm F
11.5300	x	x		xx	xx	Ø 23mm R & Ø 22mm F	Ø 20mm R & F
11.7160	xx	xx		xx	xx	Ø 22mm R & F	Ø 20mm R & F

11.7500	x	x	19.50 mm	xx	xx	Ø 22mm R & F	Ø 18mm R & F
11.8900	x	x	19.50 mm	xx	xx	Ø 23mm R & F	Ø 20mm R & F
12.0000	x	x	19.50 mm	xxx	xx	Ø 22mm 1 R & 2 F	Ø 22mm R & F
12.1000	x	x	20.00 mm	xxx	xxx	Ø 22mm 2 R & 1 F	Ø 20mm 1 R & 2 F
12.2000	x	x	20.00 mm	xx	xx	Ø 24mm R & F	Ø 20mm R & F
12.2500	xx	xx	20.00 mm	xx	xx	Ø 22mm R & F	Ø 18mm R & F
12.2700	x	x	20.00 mm	xx	xx	Ø 22mm R & Ø 24mm F	Ø 22mm R & F
12.3400	x	x	20.00 mm	xx	xx	Ø 22mm R & F	Ø 20mm R & F
12.3830	x	x	20.00 mm	xx	xx	Ø 24mm R & F	Ø 20mm R & F
12.5050	x	x	20.00 mm	xx	xx	Ø 22mm R & F	Ø 22mm R & F
12.6900	x	x	20.00 mm	xx	xx	Ø 24mm R & F	Ø 20mm R & F
12.7000	x	x	21.00 mm				
12.8020	x	x	21.00 mm	xx	xx	Ø 24mm R & F	Ø 20mm R & F

12.8200	x	x	21.00 mm	xx	x	Ø 24mm R & F	Ø 18mm R
12.9500				xx	xx	Ø 25mm R & F	Ø 24mm R & F
13.0200	x	x	21.50 mm	xx	xx	Ø 25mm R & F	Ø 20mm R & F
13.0600	x	x	21.50 mm	xx	xx	Ø 25mm R & F	Ø 18mm R & F
13.2500				xx	xx	Ø 25mm R & F	Ø 20mm R & F
13.3770	x	x	22.00 mm	xx	xx	Ø 25mm R & F	Ø 24mm R & F
13.5300	x	x	1.000"	xx	xx	Ø 25mm R & F	Ø 25mm R & F
13.5600	x	x		xx	xx	Ø 26mm R & F	Ø 25mm R & F
13.6400	x	x	22.00 mm	xx	xx	Ø 25mm R & F	Ø 22mm R & F
13.7050	x	x	24.00 mm	xx	xx	Ø 26mm R & F	Ø 24mm R & F
13.7500	x	x	24.00 mm	xx	xx	Ø 26mm R & F	Ø 20mm R & F
13.9550	x	x	24.00 mm	xx	xx	Ø 28mm R & F	Ø 20mm R & F
14.0000	x	x	24.00 mm				

14.0600				xx	xx	Ø 27mm R & F	Ø 25mm R & F
14.1030	x	x	24.00 mm	xx	xx	Ø 28mm R & F	Ø 25mm R & F
14.1200	x	x	junk				
14.1440	x	x	24.00 mm	xx	xx	Ø 26mm R & F	Ø 25mm R & F
14.2000				xx	xx	Ø 26mm R & F	Ø 25mm R & F
14.2500	x	x	24.00 mm	xx	xx	Ø 27mm R & F	Ø 24mm R & F
14.3500	x	x					
14.4100	x	x	24.00 mm	xxx	xx	Ø 28mm 2 R & 1 F	Ø 28mm R & Ø 24mm F
14.5100	x	x		xx	xxx	Ø 28mm R & Ø 26mm F	Ø 28mm R & F, Ø 25mm F
14.6200	x	x	24.00 mm	xx	xx	Ø 28mm R & F	Ø 22mm R & F
14.6700	x	x	24.00 mm				
14.7200	x	x	24.50 mm	xx	xx	Ø 28mm R & F	Ø 24mm R & F
14.8200	x	x	24.50 mm	xx	xx	Ø 28mm R & F	Ø 24mm R & Ø 26mm F

15.0900	x	x	24.50 mm	xxxx	xxxx	Ø 28mm 2 R & 2 F	Ø 28mm 1 R & 3 F
15.1700	x	x	25.00 mm	xx	xx	Ø 28mm R & F	Ø 22mm R & F
15.3400	x	x	25.00 mm	xx	xx	Ø 30mm R & F	Ø 22mm R & F
15.4000				xx	xx	Ø 30mm R & F	Ø 30mm 2 F
15.4890	x	x		xx	xx	Ø 30mm R & F	Ø 30mm R & F
15.5630	x	x	25.00 mm	x	x	Ø 30mm F	Ø 22mm F
15.5700				x	x	Ø 30mm R	Ø 25mm R
15.6200	x	x	25.00 mm	x	x	Ø 28mm F	Ø 28mm F
15.6250	x	x	25.00 mm				
15.6800				xx	xx	Ø 30mm R & F	Ø 25mm R & F
15.7200	x	x	25.00 mm	x	x	Ø 25mm F	Ø 25mm F
15.7700	x	x	25.00 mm	xx	xx	Ø 30mm R & F	Ø 25mm R & F
15.9000	x	x	25.00 mm	xx	xx	Ø 32mm R & Ø 30mm F	Ø 25mm R & F

15.9400	x	x		xx	xx	Ø 32mm R & F	Ø 28mm R & F
15.9800	x	x	25.00 mm	xx	xx	Ø 30mm R & F	Ø 18mm R & F
16.0000					x		
16.0750	x	x	25.00 mm	xx	xxx	Ø 32mm R & F	Ø 30mm R & F Ø 28mm R
16.0800					x		Ø 20mm F
16.1300	x	x		xx	xx	Ø 28mm R & F	Ø 25mm R & F
16.3100	x	x	25.00 mm	xx	xx	Ø 32mm R & F	Ø 25mm R & F
16.5200	x	x	25.00 mm	xx	xx	Ø 32mm R & F	Ø 25mm R & F
16.5500	x	x	25.00 mm	xx	xx	Ø 32mm R & F	Ø 25mm R & F
16.7700	x	x	25.00 mm	xx	xx	Ø 32mm R & F	Ø 28mm R & F
16.8100	x	x	25.00 mm	xx	xx	Ø 34mm R & F	Ø 28mm R & F
16.9210	x	x		xx	xx	Ø 32mm R & F	Ø 30mm F
16.9600	x	x	25.00 mm	xx	xx	Ø 32mm R & F	Ø 30mm R & Ø 28mm F

16.9672	x	x					
16.9900	x	x	26.00 mm	cyl			
17.0100	x	x	26.00 mm	xx	xx	Ø 34mm R & F	Ø 30mm R & Ø 32mm F
17.0700	x	x	26.00 mm	xx	xx	Ø 30mm R & Ø 28mm F	Ø 34mm R & Ø 25mm F
17.1950	x	x		xx	xx	Ø 30mm R & F	Ø 28mm R & F
17.2500	x	x		xx	xx	Ø 35mm R & Ø 32mm F	Ø 28mm R & F
17.3000	x	x		xx	xx	Ø 33mm R & F	Ø 28mm R & F
17.5100	x	x		xx	xx	Ø 34mm R & Ø 30mm F	Ø 25mm R & Ø 28mm F
17.5400	x	x		xx	xx	Ø 34mm R & F	Ø 30mm R & Ø 28mm F
17.6000	x	x	1.25"	xx	xx	Ø 34mm R & Ø 30mm F	Ø 30mm R & F
17.7500	x	x		xx	xx	Ø 30mm R & Ø 34mm F	Ø 34mm R & F
17.9170	x	x		xx	xx	Ø 32mm R & Ø 34mm F	Ø 28mm R & F
18.0000	x	x		xx	xx	Ø 34mm R & Ø 32mm F	Ø 25mm R & Ø 30mm F

18.1060	x	x	1.25"	xxx	xxx	Ø 34mm R & F 35mm F	Ø 30mm 1R & 2 F
18.1400	x	x					
18.2450	x	x	1.5"				
18.2600	x	x					
18.2700	x	x		xx	xx	Ø 35mm R & Ø 32mm F	Ø 28mm R & F
18.2900	x	x		xx	xx	Ø 36mm R & F	Ø 30mm R & Ø 32mm F
18.3600				xx	xx	Ø 35mm R & F	Ø 32mm R & F
18.4900	x	x		xxxx	xxxx	Ø 35mm 2 R & 2 F	Ø 30mm R & F Ø 34mm R & F
18.6400	x	x		xx	xx	Ø 36mm R & F	Ø 30mm R & Ø 28mm F
18.7100	xx	x	1 cyl. cc	xx	xx	Ø 35mm R & F	Ø 30mm R & F
18.7500					x		Ø 35mm R
18.8600					x		Ø 28mm R
18.9000	x	x		xx	xxxxx	Ø 38mm R & F	Ø 32mm 2 F & Ø 34mm 1 R & 2 F

19.0000				xx	xxx	Ø 35mm R & Ø 36mm F	Ø 32mm R & Ø 35 & 45mm F
19.1250		x	cyl.				
19.1450	x	x		xxxx	xxx	Ø 32mm R & F, Ø 36mm F, Ø 38mm F	Ø 22mm R, Ø 30mm F & Ø 34mm
19.2400	x	x		xx	xx	Ø 40mm R & Ø 38mm F	Ø 30mm R & F
19.3300	x	x		xx	xx	Ø 38mm R & F	Ø 30mm R & Ø 35mm F
19.4400	x	x		xx	xx	Ø 38mm R & F	Ø 30mm R & Ø 35mm F
19.7600	x	x		xx	xx	Ø 38mm R & Ø 40mm F	Ø 32mm R & F
19.8000	x	x		xx	xx	Ø 28mm R & Ø 32mm F	Ø 30mm R & F
19.8600	x	x					
19.8900	xx	xx		xx	xx	Ø 38mm R & Ø 35mm F	Ø 30mm R & Ø 25mm F
19.9500	x	x		xx	xx	Ø 38mm R & Ø 40mm F	Ø 32mm R & Ø 30mm F
20.0000	x	x	1.25"	x	x	Ø 38mm F	Ø 28mm F
20.0700	x	x		xx	xx	Ø 38mm R & F	Ø 35mm R & F

20.1300	x	x		xx	xx	Ø 38mm R & F	Ø 38mm R & Ø 35mm F
20.1700	x	x	1.25"	xxx	xxx	Ø 38mm F Ø 40mm R & F	Ø 38mm R & F Ø 32mm F
20.2700	x	x	1.50"	xxx	xxx	Ø 38mm F Ø 40mm R & F	Ø 38mm R & F Ø 30mm R
20.3400	x	x		xx	xx	Ø 38mm R & F	Ø 32mm R & Ø 35mm F
20.4300				xx	xx	Ø 40mm R & F	Ø 30mm R & Ø 32mm F
20.5000	x	x		xx	xx	Ø 38mm R & F	Ø 38mm R & F
20.5400	x	x	1.00"	xxxx	xxx	Ø 34mm F, Ø 36mm F, Ø 38mm 2 R	Ø 38mm 2 R & Ø 36mm F
20.6100	x	x	1.25"	xx	xx	Ø 38mm R & F	Ø 32mm R & F
20.6400	x	x	1.50"	xxx	xx	Ø 40mm 2 R & 1 F	Ø 32mm R & Ø 35mm F
20.6700	x	x	1.375"	x	x	Ø 38mm F	Ø 32mm F
20.7100	x	x	1.25"	xx	xx	Ø 40mm R & F	Ø 32mm R & F
20.7600	x	x	1.375"	xx	xx	Ø 38mm R Ø 40mm F	Ø 40mm R & F
20.8100	x	x	1.50"	xx	xxx	Ø 40mm R & F	Ø 28mm F, Ø 30mm R, Ø 32mm

20.9300	x	x						
20.9800							x	Ø 35mm F
21.0200	x	x	1.25"	xx	xx	Ø 40mm R & F		Ø 30mm R & Ø 35mm F
21.0800	x	x	1.375"	xxxxx	xx	Ø 38mm R & F, Ø 42mm 2 R & 1F		Ø 38mm R & F
21.1800	x	x		x		Ø 40mm F		
21.2100							x	Ø 38mm R
21.2200	x	x	1.50"	x	x	Ø 40mm F		Ø 30mm F
21.2560	x	x	1.25"	x	xx	Ø 38mm R		Ø 25mm R & Ø 30mm F
21.2700				x		Ø 38mm F		
21.3500	x	x		xx	xx	Ø 40mm R & F		Ø 32mm R & Ø 34mm F
21.3600				x	x	Ø 94mm F		Ø 40mm F
21.4700				x		Ø 42mm R		
21.4800	x	x	1.25"	xxx	xxxx	Ø 40mm 3 R		Ø 32mm R & F, Ø 34mm R, Ø 35mm

21.4980	x	x					
21.6600	x	x	1.50"	xx	xx	Ø 42mm R & F	Ø 35mm R & F
21.7700	x	x	1.00"	xx	xx	Ø 38mm R & F	Ø 22mm R & Ø 24mm F
21.8200	x	x	1.50"	xx	xx	Ø 42mm R & Ø 40mm F	Ø 35mm R & F
21.8400	x	x					
22.0000	x	x	1.500"	xxxx	xxx	Ø 42mm 3 R & 1 F	Ø 35mm R, Ø 38mm F, Ø 40mm
22.0900	x	x	1.00"	xxx	xx	Ø 38mm R, Ø 42mm R, Ø 44mm F	Ø 32mm R & F
22.1400	x	x	1.00"	xx	xx	Ø 42mm R & F	Ø 34mm R & F
22.2300	xx	xx		xx	xx	Ø 42mm R & F	Ø 40mm R & F
22.3200	x	x	1.50"	xx	xx	Ø 42mm F & Ø 40mm R	Ø 34mm F & Ø 35mm R
22.3600	x	x	1.25"	xx	xx	Ø 45mm R & F	Ø 35mm R & F
22.4400	x	x	1.000" & 1.375"	x	x	Ø 45mm F	Ø 45mm F
22.5000	x	x	1.000" & 1.250"	xx	xx	Ø 38mm F & Ø 42mm R	Ø 35mm F & Ø 45mm R

22.6000	x	x		xx	xx	Ø 42mm R & F	Ø 40mm R & F
22.7200	x	x	1.000" & 1.250"	xxx	x	Ø 32mm F, Ø 38mm R, Ø 42mm F	Ø 48mm F
22.7800	x	x	1.50"		x		F
22.8800	x	x	1.50"	xx	xx	Ø 44mm R & F	Ø 35mm R & F
23.0100	xx	xx	1.625"				
23.1200				x	x	Ø 45mm F	Ø 40mm R
23.1500	x	x	1.25"	xx	xx	Ø 46mm F & Ø 45mm R	Ø 35mm R & F
23.3700	x	x	1.25"	xx	xxx	Ø 45mm R & F	Ø 26mm R, Ø 35mm R, Ø 40mm R, Ø 26mm R & Ø 30mm F
23.4800				xx	xx	Ø 42mm R & F	
23.5500	x	x	1.50"		x		Ø 40mm F
23.6400	x	x	1.50"	x	x	Ø 40mm F	Ø 35mm F
23.7700	x	x	1.25"	xx	xx	Ø 45mm F & Ø 44mm R	Ø 40m F & Ø 38mm R
23.8100	x	x	1.00"				

23.8600	x	x		xx	xx	Ø 46mm F & Ø 48mm R	Ø 35mm F & Ø 40mm R
23.8900	x	x		xx	x	Ø 46mm F & Ø 45mm R	Ø 42mm F
23.9500	x	x		xx	xx	Ø 46mm F & Ø 44mm R	Ø 36mm F & Ø 32mm R
24.0100	x	x		x	x	Ø 44mm F	Ø 30mm F
24.0600				xx	xx	Ø 46mm F & Ø 48mm R	Ø 40mm F & Ø 42mm R
24.1000	x	x	1.750	x	xx	Ø 46mm F	Ø 40mm R & Ø 34mm F
24.1500	x	x	1.50"	x	x	Ø 45mm F	Ø 30mm F
24.3900	x	x	1.25"	xxx	xx	Ø 34mm F, Ø 46mm R, Ø 48mm F	Ø 38mm R & Ø 28mm F
24.4600	x	x		xx	xx	Ø 48mm R & F	Ø 35mm R & Ø 40mm F
24.7000	x	x	1.25"	xx	xx	Ø 48mm R & F	Ø 35mm R & F
24.8000	x	x		xx	xx	Ø 45mm R & Ø 44mm F	Ø 40mm R & Ø 42mm F
25.0000	x	x	1.50"	xx	xx	Ø 42mm R & Ø 48mm F	Ø 35mm R & Ø 40mm F
25.1700	x	x		x	xx	Ø 48mm F	Ø 38mm R & Ø 40mm F

25.3000	x	x	1.50"	xx	xx	Ø 48mm R & F	Ø 44mm R & Ø 38mm F
25.4000	x	x	1.50"	xx	xx	Ø 48mm R & F	Ø 35mm R & Ø 40mm F
25.4700				x	x	Ø 50mm R	Ø 45mm R
25.5000	x	x	1.25"	x	x	Ø 48mm F	Ø 44mm F
25.5560	x	x	1.50"	x	x	Ø 45mm R	Ø 45mm R
25.5800				x	x	Ø 48mm R	Ø 40mm R
25.7400					x		Ø 35mm F
25.7700	x	x	1.50"	xx	xx	Ø 48mm R & F	Ø 32mm R & Ø 40mm F
25.8600	x	x	1.375"	xx	xx	Ø 48mm R & F	Ø 40mm R & Ø 34mm F
26.0000	x	x	1.75"	xx	xx	Ø 48mm R & F	Ø 40mm R & Ø 42mm F
26.0350	x	x		x		Ø 48mm R	
26.1000	x	x	1.50"	x	x	Ø 50mm F	Ø 38mm F
26.3000	x	x	1.25"	xx	xx	Ø 48mm R & F	Ø 38mm R & F

26.3500	x	x	1.50"	xx	xx	Ø 48mm R & F	Ø 46mm R & Ø 42mm F
26.4200	x	x	1.50"	x	xx	Ø 48mm R	Ø 35mm R & Ø 32mm F
26.4700	x	x					
26.5200	x	x	1.50"	xx	xx	Ø 52mm R & Ø 46mm F	Ø 40mm R & Ø 42mm F
26.6400	x	x		xxx	xxx	Ø 52mm F, Ø 50mm R, Ø 48mm F	Ø 44mm R, Ø 45mm R & F
26.7500	x	x					
26.7800	x	x	1.50"	xx	xx	Ø 45mm F & Ø 48mm F	Ø 48mm R & Ø 42mm F
26.9600	x	x	1.25"	xxxx	xx	Ø 45mm R & F, Ø 52mm 2 F	Ø 48mm R & Ø 42mm F
27.1700	x	x	1.50"	xxx	xx	Ø 52mm F, Ø 50mm R, Ø 48mm R	Ø 35mm R & Ø 38mm F
27.2800	x	x		x	x	Ø 48mm F	Ø 48mm F
27.3200	x	x	1.375"	xx	x	Ø 50mm R & Ø 48mm F	Ø 45mm R
27.5900	x	x	1.50"	x	xx	Ø 48mm R	Ø 45mm R & F
27.6350	x	x	1.50"				

27.6800	x	x	1.375"	xx	x	Ø 48mm R & Ø 55mm F	Ø 44mm R
27.8800	x	x	1.4375"	xx	xx	Ø 48mm R & F	Ø 44mm R & Ø 45mm F
27.9650	x	x	1.875"	x	x	Ø 50mm F	Ø 45mm F
28.0800	x	x	1.25" & 1.375"	xxx	xx	Ø 50mm 2 R Ø 48mm F	Ø 40mm R & Ø 35mm F
28.1700	x	x		x	x	Ø 56mm F	Ø 42mm F
28.3600	x	x	1.375"	xx	x	Ø 45mm R , Ø 52mm F	Ø 45mm F
28.4300	x	x		xx	xx	Ø 42mm R , Ø 50mm F	Ø 40mm R , Ø 45mm F
28.5500	xx	xx	1.50"	xx	xxx	Ø 52mm R , Ø 44mm F	Ø 48mm F, Ø 45mm R, Ø 40mm
28.6000	x	x		xx	xx	Ø 50mm R & F	Ø 48mm R & F
28.7100	x	x	1.50"	xx	xx	Ø 48mm R & F	Ø 45mm R & F
28.7900	x	x	1.50"	xxxx	xx	Ø 30mm 2 R, Ø 54mm R & Ø 52mm F	Ø 50mm R & Ø 48mm F
28.8200				x	x	Ø 54mm F	Ø 45mm F
29.0000	x	x	1.50"	xx	xx	Ø 48mm R , Ø 54mm F	Ø 42mm R , Ø 48mm F

29.1700	x	x		xx	xx	Ø 56mm R , Ø 54mm F	Ø 52mm R & F
29.2550	x	x	1.50"	xx	xx	Ø 54mm R , Ø 50mm F	Ø 35mm R & F
29.3400	x	x	1.50"	xx	xx	Ø 50mm R , Ø 52mm F	Ø 48mm R , Ø 45mm F
29.3900				x	x	Ø 50mm R	Ø 42mm R
29.4100	x	x					
29.4300	x	x	1.50"	xx	xx	Ø 50mm R & F	Ø 35mm R , Ø 30mm F
29.5100	x	x	1.50"	xx	xx	Ø 50mm R & F	Ø 32mm R & F
29.5880	x	x		xxx	xx	Ø 45mmF, Ø 48mm F & Ø 58mm F	Ø 48mm F , Ø 30mm F
29.6670	x	x					
29.7500	x	x	1.50"	xx	xx	Ø 54mm R , Ø 52mm F	Ø 48mm R , Ø 50mm F
29.8400	x	x	2.00"	xx	xx	Ø 55mm R , Ø 52mm F	Ø 50mm R & F
29.8700	x						
30.0050	x	x	1.875" & 2.00"	xx	xx	Ø 58mm R , Ø 54mm F	Ø 48mm R & F

30.2600	x	x		xx	xx	Ø 54mm R , Ø 55mm F	Ø 45mm R , Ø 50mm F
30.3100	x	x	2.00"	xx	xx	Ø 50mm R , Ø 58mm F	Ø 50mm R , Ø 52mm F
30.3500	x	x	1.875"	xxx	xx	Ø 50mm F & Ø 58mm R & F	Ø 48mm R , Ø 52mm F
30.3800	x	x	1.50"				
30.6100	x	x					
30.6200	x	x	2.00"	xx	xx	Ø 58mm R , Ø 52mm F	Ø 45mm R , Ø 50mm F
30.7600	x	x	2.00"	xx	xx	Ø 58mm R , Ø 54mm F	Ø 48mm R , Ø 44mm F
31.0300	x	x		xx	xx	Ø 54mm R , Ø 55mm F	Ø 54mm R , Ø 50mm F
31.1100	x	x	1.50"	xxx	xx	Ø 58mm R , Ø 54 & 200mm F	Ø 50mm R , Ø 38mm F
31.1600	x	x	2.00"	x	x	Ø 58mm F	Ø 48mm F
31.2300	x	x		x	x	Ø 58mm R	Ø 48mm R
31.3200	x	x	1.25"		x		Ø 38mm F
31.5000	x	x	2.00"	xx	x	Ø 60mm R , Ø 58mm F	Ø 55mm F

31.5400				xx	xx	Ø 60mm R & F	Ø 45mm R, Ø 48mm F
31.7500	x	x		xx	xx	Ø 55mm 2 R	Ø 48mm 2 R
31.7600	x	x	2.00"	x	xx	Ø 60mm F	Ø 45mm R & F
31.8100	x	x	2.00"	xx	xx	Ø 54mm R, Ø 52mm F	Ø 34mm R, Ø 48mm F
31.8900	x	x	1.50"				
31.9200				x		F	
31.9600	x	xx	1.50"	x		Ø 50mm F	
31.9800	x	x	2.00"	xx	xx	Ø 58mm 2 F	Ø 38 & 48mm R
31.9900				x	x	Ø 58mm F	Ø 38mm F
32.0290	x	x	2.25"				
32.0700	x	x	2.00"	xx	xx	Ø 62mm R, Ø 60mm F	Ø 54mm R, Ø 50mm F
32.1100				x	x	Ø 54mm R	Ø 48mm R
32.1700	x	x	1.50"	x	x	Ø 58mm F	Ø 48mm F

32.2550	x	x		xx	x	Ø 58mm 2 F	Ø 50mm F
32.4200	x	x	2.00"	xx	xx	Ø 60mm R , Ø58mm F	Ø 50mm R , Ø52mm F
32.6400	x	x	2.00"	x	x	Ø 58mm F	Ø 50mm F
32.7600	x	x	2.00"	xx	x	Ø 62mm F , Ø55mm F	Ø 55mm F
32.7700	x		2.00"				
32.8200	x	x	2.00"	xx	xx	Ø 48mm R , Ø58mm F	Ø 54mm R , Ø44mm F
32.9400	x	x		x		Ø 68mm R	
32.9900	x	x	2.00"	xx	xx	Ø 58mm R , Ø62mm F	Ø 42mm R , Ø40mm F
33.0500	x	x	1.750 & 2.00"	xx	x	Ø 60mm R , Ø62mm F	Ø 34mm F
33.0900				x		Ø 68mm F	
33.1000				x		Ø 60mm F	
33.1300	x	x	2.00"	xx	xx	Ø 60mm R , Ø62mm F	Ø 40mm R , Ø42mm F
33.1900	x	x	2.00"	xx	xx	Ø 58mm R , Ø62mm F	Ø 35mm R , Ø50mm F

33.2500	x	x	2.25"				
33.2900	x	x	2.00"	xx	xx	Ø 60mm R , Ø62mm F	Ø 38mm R , Ø40mm F
33.3200	x	x	1.875"	xx	xx	Ø 60mm R , Ø64mm F	Ø 50mm R , Ø42mm F
33.4300	x	x	1.375 & 1.50"	x	x	Ø 60mm F	Ø 50mm F
33.4950	x	x					
33.5400	x	x	2.00"	xx	xx	Ø 58mm R , Ø60mm F	Ø 54mm R , Ø55mm F
33.7900				x	x	Ø 62mm F	Ø 52mm F
33.8700				x	x	Ø 58mm R	Ø 50mm R
34.0000				x	x	Ø 64mm F	Ø 55mm F
34.1500	x	x	1.3125"	xx	xx	Ø 65mm R , Ø62mm F	Ø 40mm R , Ø54mm F
34.1900	x	x	1.875"	xx	xxx	Ø 62mm R , Ø64mm F	Ø 50mm R, Ø 45mm F & Ø 60mm
34.2100	x	x					
34.3100	x	x	1.875"	xx	x	Ø 62mm R , Ø65mm F	Ø 45mm F

34.4070	x	x	2.00"	xx	xx	Ø 68mm R , Ø62mm F	Ø 58mm R , Ø45mm F
34.5450	x	x	2.00"	xx	xx	Ø64mm R , Ø58mm F	Ø 60mm R , Ø50mm F
34.6150	x	x	2.00"	xx	xx	Ø 68mm R , Ø55mm F	Ø 50mm R , Ø55mm F
34.8000	x	x					
34.8150	x	x	2.00"	x	x	Ø 62mm R	Ø 62mm R
34.8600	x	x					
35.0000	x	x	2.00"	xx	xx	Ø 64mm R , Ø62mm F	Ø 50mm R & F
35.1770	x	x	2.00"	x	xx	Ø 68mm F	Ø 48mm R , Ø52mm F
35.3100	x	x	1.1875"	xx	xx	Ø64mm R , Ø62mm F	Ø 50mm R , Ø55mm F
35.5600	x	x	2.00"	xx	xx	Ø 65mm 2 R	Ø 50mm R , Ø54mm F
35.5700		x					
35.8200	x	x	2.25"	xx	xx	Ø72mm R , Ø68mm F	Ø 52mm R , Ø55mm F
35.8600	x	x	1.875 & 2.00"	xx	xx	Ø60mm R , Ø68mm F	Ø 35mm R , Ø50mm F

35.9900	x	x	1.875 & 2.00"	xxx	xx	Ø 65mm 2 R , Ø68mm F	Ø 50mm R , Ø60mm F
36.2000	x	x		x	x	Ø 64mm F	Ø 50mm F
36.2179					x		Ø 358mm R
36.3600	x	x	2.00"	x	x	Ø 68mm R	Ø 50mm R
36.5300	x	x	2.00"	xx	xx	Ø 58mm R & F	Ø 50mm R & F
36.5360	x	x					
36.6400	x	x	2.375 & 2.50"	xx	x	Ø 62mm F , Ø68mm F	Ø 60mm R
36.7200	x	x	2.500"				
36.7600	x	x	1.50"	x		Ø 50mm F	
36.8850	x	x	2.4375"	xx	xx	Ø 68mm R & F	Ø 60mm R & F
36.9600	x	x	2.00"	xx	xx	Ø 70mm R , Ø65mm F	Ø 48mm R , Ø60mm F
37.0700	x	x		xx	xx	Ø 68mm R , Ø70mm F	Ø 58mm R & F
37.1400	x	x	1.50"	xx	xx	Ø 68mm R , Ø65mm F	Ø 58mm R , Ø50mm F

37.3300	x	x		xx	xx	Ø 70mm R & F	Ø 58mm R & F
37.5000	x	x	2.00"	x	x	Ø 65mm R	Ø 58mm R
37.5100				x	x	Ø 70mm R	Ø 58mm R
37.5900	x	x	2.00"	xx	xx	Ø 70mm R & F	Ø 58mm R, Ø 60mm F
37.6500	x	x	2.00"	xx	xx	Ø 60mm R, Ø 64mm F	Ø 50mm R, Ø 54mm F
37.6800	x	x	2.00"	xx	xx	Ø 68mm R & F	Ø 60mm R, Ø 58mm F
37.7400	x	x	2.00"				
37.9300	x	x	2.00"	x	xx	Ø 62mm F	Ø 50mm R, Ø 58mm F
38.0000	x	x	2.00"		x		R
38.1000	x	x	2.00"	xx	xx	Ø 72mm R, Ø 70mm F	Ø 50mm R, Ø 58mm F
38.3400				xx	xx	Ø 70mm R & F	Ø 60mm R, Ø 55mm F
38.3650	x	x	2.50"				
38.4800	x	x	2.00"	xx	xx	Ø 64mm R, Ø 70mm F	Ø 48mm R, Ø 56mm F

38.5450	x	x	2.00"	xx	xx	Ø 72mm R , Ø60mm F	Ø 62mm R , Ø50mm F
38.6100	x	x	2.50"	xx	xx	Ø 68mm R , Ø70mm F	Ø 52mm R , Ø60mm F
38.7050	x	x	2.00"	xx	xx	Ø70mm R & F	Ø58mm R & F
38.9800	x	x	2.50"	xx	xx	Ø 68mm R , Ø72mm F	Ø 54mm R , Ø64mm F
39.1000	x	x	2.00"	xx	xx	Ø 64mm R , Ø70mm F	Ø 55mm R , Ø62mm F
39.2000	x	x	2.00"	xx	xx	Ø 68mm R , Ø66mm F	Ø 60mm R & F
39.3200	x	x	2.00"	xx	x	Ø 72mm R , Ø70mm F	Ø 60mm F
39.4500		x	1.5625"				
39.4700	x	x	1.50"	x	x	Ø 72mm F	Ø 60mm F
39.5300				x	x	Ø 38mm F	Ø 60mm F
39.5800	x	x	2.50"	xx	xx	Ø 72mm R & F	Ø 60mm R & F
39.7100	x	x	2.50"	xx	xx	Ø 72mmR & F	Ø 52 & 60mm F
39.7500	x	x	2.5"	xx	xx	Ø 74mm R & F	Ø 55mm R , Ø58mm F

39.7800		x					
39.8130	x	x		xx	xx	Ø 72mm R , Ø75mm F	Ø 65 mm R , Ø mm F
40.0050	x	x	2.4375"	xx	xx	Ø 65mm R , Ø72mm F	Ø 55mm R , Ø60mm F
40.1700	x	x	2.50"	xx	xx	Ø 64mm R , Ø68mm F	Ø 56mm R , Ø55mm F
40.2800	xx	x	2.25"				
40.3500	x	x	2.50"	xx	xx	Ø 72mm R , Ø64mm F	Ø 50mm R , Ø60mm F
40.5500				x	x	Ø 68mm R	Ø 60mm R
40.5600				x	x	Ø 72mm R	Ø 60mm R
40.7100	x	x		xx	xx	Ø 72mm R , Ø68mm F	Ø 52mm R , Ø55mm F
40.7200	x	x	1.25"				
40.7700	x	x	2.5"				
40.8100	x	x	1.50"	xx	x	Ø 70mm R , Ø68mm F	Ø 60mm R
40.9600	x	x	2.500"				

40.9900					x		Ø 58mm R
41.0700	x	x		xx	xxxx	Ø 70mm R , Ø68mm F	Ø 58 & 65mm R, Ø 60 & 68mm F
41.1600				xx	xx	Ø 72mm R , Ø65mm F	Ø 58mm R , Ø62mm F
41.1650	x	x		xx	xx	Ø 72mm R , Ø65mm F	Ø 58mm R , Ø62mm F
41.2700	x	x	2.50"	xx	xx	Ø 73mm R , Ø74mm F	Ø 54mm R , Ø60mm F
41.4130	x	x	2.50"	xx	xx	Ø 78mm R , Ø74mm F	Ø 55mm R & F
41.5200	x	x	2.00"				
41.5700	x	x	1.50" & 1.75"	xx	xx	Ø 68mm R , Ø70mm F	Ø 55mm R , Ø52mm F
41.9500				x	x	Ø80mm F	Ø60mm F
41.9600				xx	x	Ø 74mm R , Ø73mm F	Ø60mm R
41.9970	x	x		x	xx	Ø74mm F	Ø 52mm R , Ø55mm F
42.2000	x	x		xx	xx	Ø 72mm R , Ø74mm F	Ø 55mm R , Ø68mm F
42.3000	x	x	1.50"	xxx	x	Ø 68 & 74mm R , Ø74mm 2 F	Ø 58mm F , Ø68mm F

42.3700	x	x	2.50"	x	x	Ø70mm F	Ø55mm F
42.3900	x	x	2.25"				
42.5800	x	x	2.50"	xx	xx	Ø 75mm R , Ø74mm F	Ø 68mm R , Ø66mm F
42.8100	x	x		xx	xx	Ø 78mm R , Ø75mm F	Ø 60mm R , Ø70mm F
42.8700	x	x		x	x	Ø76mm F	Ø60mm F
42.9900	x	x	2.375"	xx	xx	Ø 68mm R , Ø78mm F	Ø 54mm R , Ø62mm F
43.2300	x	x	1.25" needs work				
43.2670	x	x	2.5"	xx	xx	Ø 78mm R , Ø76mm F	Ø 58mm R & F
43.2900	x	x	2.00"	x	x	Ø78mm F	Ø68mm F
43.5300				xx	x	Ø 74mm R & F	Ø70mm R
43.6900	x	x		xx	xx	Ø 74mm R , Ø76mm F	Ø 70mm R , Ø68mm F
43.7230				x	x	Ø 74mm R	Ø52mm R
43.7500	x	x					

43.8300	x			xx	xx	Ø 75mm R , Ø76mm F	Ø 70mm R , Ø54mm F
44.0100	x	x	2.50"	xx	xx	Ø 78mm R , Ø76mm F	Ø 58mm R , Ø56mm F
44.2900	x	x					
44.2950	x	x	2.25"				
44.3700	x	x	1.875"	xx	xx	Ø 76 & 78mm F	Ø 68mm R , Ø60mm F
44.4200	x	x	2.25 & 2.50"	xx	xx	Ø 78mm R , Ø75mm F	Ø 64mm R , Ø60mm F
44.5600	x	x	2.25"				
44.5700	x	x	2.00"	xx	xx	Ø 75mm R , Ø74mm F	Ø 68mm R , Ø54mm F
44.6000	x	x	2.00"	xx	x	Ø 74mm R & F	Ø62mm F
44.6600	x	x	2.00"	x	x	Ø70mm F	Ø60mm F
44.8000	x	x	2.50"	xx	xx	Ø 78mm R , Ø75mm F	Ø 64mm R , Ø62mm F
44.8620	x	x	2.50"	xx	xx	Ø 75mm R & F	Ø 70mm R , Ø74mm F
44.8900	x	x	2.000"				

44.9200	x	x	2.50"	xx	xx	Ø 78mm R , Ø88mm F	Ø 70mm R , Ø50mm F
45.0100	x	x	2.00"	xx	xx	Ø 76mm R , Ø74mm F	Ø 70mm R , Ø60mm F
45.1000	x	x		xx	xx	Ø 72mm R , Ø82mm F	Ø 64mm R , Ø70mm F
45.2800	x	x	2.500"	x	x	Ø78mm F	Ø70mm F
45.3600	x	x	2.50"	x	xx	Ø74mm F	Ø 70mm F , Ø55mm F
45.4400	x	x	2.500"	x	x	Ø82mm F	Ø60mm F
45.5100	x	x	2.25"				
45.5300	x	x	2.50"	xx	xx	Ø 72mm R , Ø78mm F	Ø 54mm R , Ø68mm F
45.6400	x	x	2.50"	xx	xx	Ø 78mm R & F	Ø 54mm R , Ø66mm F
45.8200	x	x	2.50"	x	x	Ø78mm F	Ø58mm F
46.0000	x	x		xx	xx	Ø 74mm R , Ø78mm F	Ø 58mm R , Ø55mm F
46.1100	x	x	2.00"	xx	xx	Ø 78mm R & F	Ø 62mm R , Ø58mm F
46.2300	x	x	2.875"				

46.3650	x	x		x	x	Ø78mm R	Ø52mm R
46.4550	x	x	2.50"	xx	xx	Ø 74mm R , Ø78mm F	Ø 56mm R & F
46.6900	x	x	2.00"	xx	xx	Ø 72mm R , Ø80mm F	Ø 54mm R , Ø55mm F
46.7800	x	x	2.25"				
46.7900	x	x					
46.9100	x	x	2.50"	xx	xx	Ø 78mm R , Ø80mm F	Ø 70mm R , Ø52mm F
47.1200	x	x	2.00"	xx	xx	Ø 80mm R , Ø90mm F	Ø 56mm R , Ø70mm F
47.2100				xx	xx	Ø74 & 80 mm F	Ø68 & 70 mm F
47.2900	x	x	2.50"	xx	xx	Ø 74mm R , Ø78mm F	Ø 55mm R , Ø60mm F
47.3900	x	x					
47.4400	x	x	2.375"	xx	x	Ø 80mm R , Ø78mm F	Ø 56mm F
47.5000	x	x	2.25"	xx	x	Ø 76mm R , Ø80mm F	Ø 70mm F
47.6200	x	x	2.50"	xxx	xx	Ø 80mm R & F, Ø76mm R	Ø 70mm R , Ø72mm F

47.7000	x	x	2.50"	xx	xx	Ø 78mm R & F	Ø 55mm R, Ø68mm F
47.8100	x	x		x	x	Ø 80mm R	Ø 58mm F
48.0000	x	x	2.500"	xx	xx	Ø 72mm R, Ø78mm F	Ø 55mm R & F
48.1300	x	x	2.00"	xx	xx	Ø 78mm R & F	Ø 68mm R, Ø70mm F
48.2300	x	x		x	x	Ø 78mm F	Ø 55mm F
48.2800	x	x	2.50"	xx	xx	Ø 78mm R & F	Ø 72mm R, Ø55mm F
48.4200	x	x	2.50"	xx	xx	Ø 78mm R & F	Ø 55mm R, Ø70mm F
48.4400	x	x	2.50"				
48.5500	x	x	2.50"	x	xx	Ø 80mm F	Ø 55mm R, Ø70mm F
48.8000	x	x	not finished?	xx	xx	Ø 92mm R, Ø94mm F	Ø 78mm R & F
48.9500	x	x	2.00"	xx	xx	Ø 80mm R & F	Ø 70mm R, Ø60mm F
49.2000	x	x	2.00"	x	x	Ø 82mm F	Ø 70mm F
49.3000	x	x	2.50"	x	x	Ø 80mm F	Ø 55mm F

49.4000	x	x	2.50"	xx	xx	Ø 90mm R , Ø78mm F	Ø 72mm R , Ø70mm F
49.4550	x	x	2.50"	xx	xx	Ø 80mm R & F	Ø 60mm R & F
49.6100				x		Ø 98mm R	
49.6500	x	x	2.50"				
49.6500	x		cyl.				
49.7500	x	x	2.50"	xx	xx	Ø 80mm R , Ø82mm R	Ø 68mm R & F
49.9900	x	x	1.25"				
50.0000	x	x	2.50"	xx	xx	Ø 82mm R , Ø80mm F	Ø 70mm R & F
50.1600	x	x	3.00"	x		Ø 80mm R	
50.2300	x	x		x	x	Ø 80mm F	Ø 55mm F
50.2900	x	x	2.50"	xx	xx	Ø 80mm R , Ø82mm F	Ø 68mm R , Ø70mm R
50.6300	x	x	2.500"	x	xx	Ø 80mm F	Ø 70mm R , Ø62mm F
50.8000	x	x	2.00"	xx	xx	Ø 82mm R , Ø80mm F	Ø 62mm R , Ø60mm F

51.0450	x	x	2.125"	x	x	Ø 78mm F	Ø 58mm F
51.2200	x	x	3.00"	xx	xx	Ø 82mm R & F	Ø 72mm R, Ø70mm F
51.3800	x	x	1.625" & 1.875"	xx	xx	Ø 84mm R, Ø82mm F	Ø 74mm R, Ø64mm F
51.7400	x	x		x	x	Ø 86mm R	Ø 68mm R
51.8000	x	x	2.50"	xx	xx	Ø 82mm R, Ø80mm F	Ø 72mm R, Ø55mm F
52.0400	x	x	2.00"				
52.0800	x	x	2.50"	xx	xx	Ø 80mm R & F	Ø 64mm R, Ø62mm F
52.3200	x	x	2.00"	xx	xx	Ø 84mm R, Ø80mm F	Ø 70mm R, Ø62mm F
52.7300	x	x	2.375"	x	x	Ø 82mm F	Ø 72mm F
52.8800	x	x	3.00"	x	x	Ø 80mm R	Ø 54mm R
52.9300	x	x	1.625"				
53.0300	x	x	3.00"	xx	xx	Ø 84mm R, Ø82mm F	Ø 68mm R, Ø70mm F
53.1700	x	x	3.00"	x	x	Ø 78mm R	Ø 58mm R

53.1900	x	x	2.125"				
53.3450	x	x	1.75" & 3.00"	xx	xx	Ø 84mm R , Ø80mm F	Ø 70mm R , Ø58mm F
53.4500	x	x	2.00"	x	x	Ø 82mm F	Ø 70mm F
53.5650	x	x	3.00"	xx	xx	Ø 84mm R , Ø82mm F	Ø 70mm R , Ø72mm F
53.7300	x	x	2.00"	x	x	Ø 82mm F	Ø 58mm F
53.9200	x	x	3.00"	xx	xx	Ø 82mm R , Ø85mm F	Ø 72mm R , Ø70mm F
54.2500	x	x	2.00"				
54.3800				xx	xx	Ø 80mm R & F	Ø 70mm R , Ø72mm F
54.4700	x	x	1.875"	xx	xx	Ø 85mm R , Ø80mm F	Ø 70mm R , Ø60mm F
54.6490				x		Ø 84mm R	
54.7700	x	x	1.50"	xx	x	Ø 85mm R , Ø80mm F	Ø 50mm R
54.9500	x	x		x	xx	Ø 85mm F	Ø 55mm R , Ø60mm F
55.1796					x		Ø 408mm R

55.2400	x	x	2.25"				
55.3700	x	x	2.500"	x	x	Ø 78mm F	Ø 44mm R
55.5500	x	x	2.50"	xx	xx	Ø 82mm R , Ø88mm F	Ø 50mm R & F
55.7800	x	x	2.50"	xx	xx	Ø 88mm R & F	Ø 52mm R , Ø50mm F
55.8500	x	x	2.375"				
55.9000	x	x	2.50"	x	x	Ø 88mm F	Ø 50mm F
56.0900				x	x	Ø 100mm R	Ø 70mm R
56.1200	x	x		x	x	Ø 88mm F	Ø 64mm F
56.2200	x	x	3.00"	xxxx	xxxx	Ø 108mm R & F, Ø88mm R Ø84mm F	Ø 54mm & 95 F, Ø98mm R Ø52mm R
56.3400	x	x	3.00"	xxx	xx	Ø 88mm 2 R & 1 F	Ø 54mm R , Ø65mm F
56.4100	x	x	2.50"	xx	x	Ø 110mm R , Ø88mm F	Ø 52mm F
56.4600	x	x	2.00"				
56.5600	x	x	2.50"				

56.6400	x	x	2.50"	xx	xx	Ø 88mm R & F	Ø 55mm R , Ø52mm F
56.8300	x	x	3.000"	xx	xx	Ø 78 & 90mm R	Ø 52mm R , Ø42mm F
56.8500					x		Ø 52mm R
56.8600				x	x	Ø 84mm F	Ø 54mm F
56.9200	x	x	2.50"				
56.9700	x	x	2.50"				
56.9900	x	x	2.500"	xx	xx	Ø 84mm R , Ø90mm F	Ø 54mm R , Ø52mm F
57.0900	x	x	2.500"	x	x	Ø 90mm F	Ø 52mm F
57.4500				xx	xx	Ø 90mm R , Ø110mm F	Ø 50mm R & F
57.4740	x	x	3.000"				
57.6400	x	x	2.50"	xx	xx	Ø 90mm R & F	Ø 50mm R , Ø48mm F
57.8400				x	x	Ø 85mm F	Ø 55mm F
57.8900	x	x	1.75"				

58.0500	x	x	3.00"	xx	x	Ø 88mm R , Ø90mm F	Ø 54mm F
58.2900	x	x	3.375"				
58.3500	x	x	3.00"	x	x	Ø 90mm F	Ø 52mm F
58.5600	x	x		xxx	xxx	Ø 90mm R & F, Ø112mm F	Ø 50mm R & F, Ø90mm F
58.6900	x	x	3.000"/3.375"	x	x	Ø 90mm F	Ø 50mm F
58.8000	x	x	2.50"	xx	xx	Ø 105mm R, Ø122mm R	Ø 48mm R, Ø52mm F
59.2000	x	x	2.50"	xx	xx	Ø 90mm R , Ø86mm F	Ø 54mm R, Ø52mm F
59.3160	x	x	3.00"	xx	xx	Ø 90mm R , Ø92mm F	Ø 52mm R, Ø54mm F
59.6300	x	x	2.50"	x	x	Ø 90mm F	Ø 50mm F
59.8700	x	x	3.00"	xx	x	Ø 118mm R & F	Ø 54mm F
59.9400	x	x	2.50"	xx	xx	Ø 88mm R , Ø116mm F	Ø 50mm R, Ø48mm F
60.0000				x	xx	Ø 90mm F	Ø 88mm R & F
60.0800	x	x	2.50"	xx	xx	Ø 88mm R , Ø90mm F	Ø 50mm R, Ø55mm F

60.1900	x	x	2.500"	x	x	Ø 92mm F	Ø 48mm F
60.4050	x	x		xx	x	Ø 86mm R , Ø92mm F	Ø 52mm F
60.4500				xx	xx	Ø 88mm R , Ø92mm F	Ø 50mm R, Ø54mm F
60.5500	x	x	2.50"	x	x	Ø 90mm R	Ø 48mm R
60.7300	x	x	3.000"	x	x	Ø 90mm F	Ø 54mm F
60.8900	x	x	3.000"				
60.9700				xx	xx	Ø 90mm R , Ø92m F	Ø 54mm R & F
61.0500	x	x	3.000"	xx	xx	Ø 92mm R , Ø118mm F	Ø 52mm R, Ø78mm F
61.0700	x	x	2.500"				
61.3000	x	x	3.00"	xx	xx	Ø 90mm R & F	Ø 52mm R, Ø54mm F
61.5000	x	x	3.00"	x	x	Ø 88mm F	Ø 54mm F
61.6600	x	x	3.000"	xxx	xx	Ø 94mm R , Ø84 & 98mm F	Ø 54mm R & F
61.8700				x	x	Ø 98mm F	Ø 50mm F

61.9300	x	x	3.000"	x	x	Ø 100mm F	Ø 58mm F
61.9500				x	x	Ø 92mm F	Ø 52mm F
62.0500	x		2.500"				
62.2300				x	x	Ø 96mm R	Ø 55mm R
62.3500				xx	xx	Ø 88mm R , Ø98mm F	Ø 52mm R & F
62.6100				xx	xx	Ø 88mm R , Ø98mm F	Ø 52mm R & F
62.6300	x	x	2.000"				
62.8400	x	x	2.00"	xx	xx	Ø 98mm R , Ø94mm F	Ø 52mm R , Ø50mm F
62.8800				x	x	Ø 86mm R	Ø 52mm R
63.0200	x	x	2.000"/1.750"				
63.0500	x	x	2.00"	xx	xx	Ø 92mm R , Ø98mm F	Ø 54mm R & F
63.4000	x	x	2.00"	xx	xx	Ø 94mm R & F	Ø 94mm R , Ø50mm F
63.5000	x	x	2.50"	xx	xx	Ø 98mm R , Ø120mm F	Ø 54mm R , Ø52mm F

63.6750	x	x	2.500"	x	x	Ø 96mm F	Ø 52mm F
63.7300	x	x	3.75"				
63.8700	x	x	2.50"	xx	xx	Ø 98mm R & F	Ø 52mm R , Ø54mm F
63.9600	x	x	2.50"				
64.0650	x	x	3.00"	x	x	Ø 114mm F	Ø 74mm F
64.3700				xx	xx	Ø 100mm R , Ø88mm F	Ø 52mm R , Ø50mm F
64.4000	x	x	3.000"				
64.4700	x	x	2.25"				
64.5000				x	x	Ø 120mm R	Ø 114mm R
64.5100				x	x	Ø 128mm F	Ø 10mm F
64.5200	x	x	2.50"	xx	x	Ø 95mm R , Ø96mm F	Ø 52mm F
64.8350	x	x	2.500"				
64.8400	x	x	2.50"	xx	xx	Ø 100mm R , Ø94mm F	Ø 50mm R , Ø80mm F

64.8850	x	x	2.500"				
64.9500	x	x	2.00"				
65.1000	x	x	2.50"	xx	xx	Ø 95mm R , Ø92mm F	Ø 54mm R , Ø56mm F
65.1400	x	x	2.125"				
65.3700	x	x	3.000"	x	x	Ø 94mm F	Ø 54mm F
65.4700	x	x	2.500"	xx	xx	Ø 98mm R , Ø96mm F	Ø 54mm R & F
65.5700	x	x	2.50"	x	x	Ø 90mm F	Ø 54mm F
65.6500	x	x	3.00"	xx	xxx	Ø 98mm R , Ø95mm F	Ø 52mm R & F, Ø 50mm R
65.7100				x	x	Ø 90mm F	Ø 50mm F
65.8500	xx	xx	3.000"/3.250"	xx	xx	Ø 96mm R , Ø90mm F	Ø 54mm R , Ø52mm F
66.0600	x	x	2.50"	xx	xx	Ø 94mm R , Ø95mm R	Ø 50mm R , Ø52mm R
66.1900	x	x	2.50"	x	x	Ø 98mm F	Ø 50mm F
66.3000	x		2.50" cyl.				

66.3100	x	x	2.500"	xx	xx	Ø 92mm R , Ø98mm R	Ø 50mm R , Ø52mm R
66.4900	x	x	3.00"	xx	xxx	Ø 114mm F , Ø98mm F	Ø 100 mm R, Ø52mm & 72mm F
66.5700	x	x	3.000"	x	x	Ø 94mm R	Ø 52mm R
66.6500	x	x	2.50"	xx	xx	Ø 92mm R , Ø95mm F	Ø 54mm R , Ø52mm F
66.7600	x	x	3.000"				
66.8200				x	x	Ø 100mm F	Ø 52mm F
67.0600	x	x	2.50"	xx	xx	Ø 100mm R , Ø94mm F	Ø 100mm R & F
67.4400	x	x	2.50"	xx	xx	Ø 100mm R , Ø98mm F	Ø 50mm R , Ø55mm R
67.5300	x	x	3.00"				
67.6200				xxx	xx	Ø 98mm 2 R , Ø130mm F	Ø 50mm R & F
67.6400	x	x	2.00"				
67.7700	x	x	2.50"	xx	xx	Ø 98mm R & F	Ø 104mm R , Ø50mm F
67.8900	x	x	2.500"	x	x	Ø 104mm F	Ø 58mm F

68.0000		x	2.500"				
68.0100	x	x	3.00"	xx	xx	Ø 98mm R , Ø96mm F	Ø 50mm R , Ø52mm F
68.2700	x	x	2.50"	xx	xx	Ø 98mm R & F	Ø 54mm R , Ø50mm F
68.3500	x	x	3.00"	x	x	Ø 98mm F	Ø 52mm F
68.5000	x	x	2.50"	xx	x	Ø 96mm R & F	Ø 52mm R
68.5900				x		Ø 58mm F	
68.6000				x		Ø 98mm F	
68.6200	x	x	2.50"	xx	xx	Ø 98mm R , Ø96mm R	Ø 54mm R , Ø56mm R
68.7200	x	x	2.50"	xx	xx	Ø 96mm R , Ø94mm F	Ø 52mm R & F
68.7300				x		Ø 68mm R	
68.8600	x	x		x	x	Ø 92mm F	Ø 50mm F
68.9200	x	x	2.50"	xx	xx	Ø 96mm R , Ø100mm F	Ø 50mm R & F
69.0000	x	x	3.000"	x	x	Ø 96mm F	Ø 92mm F

69.1800	x	x	2.50"	xx	x	Ø 126mm R & F	Ø 60mm R
69.6000	x	x	3.000"				
69.7100				xx	xx	Ø 94mm R , Ø96mm F	Ø 55mm R , Ø52mm F
69.9400	x	x	2.50"	xx	xx	Ø 94mm R , Ø100mm F	Ø 52mm R , Ø94mm F
70.3300	x	x	2.50"	xx	xx	Ø 98mm R , Ø100mm F	Ø 52mm R , Ø58mm F
70.5400				xxx	x	Ø 98mm R & F , Ø138mm F	Ø 50mm F
70.6000	x	x	3.00"	xx	xx	Ø 94mm R , Ø128mm F	Ø 60mm R , Ø58mm F
70.7700	x	x	2.50"	xx	xx	Ø 104mm R , Ø98mm F	Ø 55mm R , Ø54mm F
70.9000	x	x	3.00"	xx	x	Ø 94mm R , Ø98mm F	Ø 58mm F
70.9600	x	x	3.00"	xx	xx	Ø 98mm R , Ø104mm F	Ø 54mm R , Ø55mm F
71.1700	x	x	2.125"				
71.2500	x	x	1.75"				
71.2600	x	x	3.00"				

71.3400	x	x	3.00"	x	x	Ø 98mm F	Ø 54mm F
71.4400				x		Ø 95mm F	
71.4600	x	x	2.50"				
71.5300	x	x	2.50"	xxx	x	Ø 96mm, 98mm & 132mm R,	Ø 95mm R
71.6100	x	x		xx	xx	Ø 100mm R , Ø102mm F	Ø 58mm R & F
72.1650	x	x	3.00"	xx	x	Ø 100mm R , Ø98mm F	Ø 55mm F
72.3500				xx	xx	Ø 95 & 100mm F	Ø 55 & 60mm F
72.3800	x	x	3.00"				
72.4800	x	x	3.00"	xx	xx	Ø 102mm R & F	Ø 58mm R & F
72.5900	x	x	3.00"	x	x	Ø 100mm F	Ø 54mm F
72.6600				x	x	Ø 100mm R	Ø 55mm R
72.7200				xx	xx	Ø 100mm R & F	Ø 58mm R , Ø50mm F
72.8200		x	2.25"				

72.8400					x		Ø 92mm R	
72.9200	x	x	2.50"	xx	xx	Ø 96mm R , Ø100mm F	Ø 54mm R , Ø56mm F	
73.1400	x	x	3.00"	xx	xx	Ø 98mm R , Ø102mm F	Ø 55mm R , Ø50mm F	
73.2900	x	x	3.00"	xx	xx	Ø 102mm R & F	Ø 56mm R , Ø58mm F	Ø 1 0 0
73.9200	x	x	2.50"	xx	xx	Ø 98mm R , Ø100mm F	Ø 55mm R , Ø98mm F	
74.1200	x	x	3.00"					
74.3100	x	x	2.50"	xx	xx	Ø 96mm R , Ø106mm F	Ø 56mm R , Ø55mm F	
74.4600	x	x	2.50"	xx	xx	Ø 102mm R , Ø100mm F	Ø 54mm R , Ø56mm F	
74.9200	x	x	2.50"	xx	xx	Ø 92mm R , Ø 104mm F	Ø 55mm R , Ø58mm F	
75.2000	x	x	3.000"	x	x	Ø 126mm F	Ø 78mm F	
75.2800	x	x	4.000"					
75.3300	x		2.750"					
75.3400	x	x	3.00"	xx	xx	Ø 102mm R , Ø146mm F	Ø 55mm R , Ø118mm F	

75.4200	x	x	2.50"	xx	x	Ø 102mm R , Ø98mm F	Ø 60mm R
75.4700				x	x	Ø 98mm R	Ø 58mm F
75.9600	x	x	4.000"				
76.2300	x	x	3.00"	x	xx	Ø 102mm F	Ø 58mm R , Ø55mm F
76.3200	x	x	2.25"				
76.5600	x	x	3.000"	xxx	xxx	Ø 198mm 2 R , Ø128mm F	Ø 54 & 58mm R , Ø78mm F
76.6400	x	x	3.000"				
76.6800	x	x	2.50"	xxx	xxx	Ø 100mm R , Ø96mm & 132mm F	Ø 58mm R , Ø50mm & 54mm F
76.8100	x	x	3.00"	xx	xx	Ø 106mm R , Ø100mm F	Ø 55mm R , Ø56mm F
77.1000	x		3.000"cyl				
77.1040	x	x	3.000"				
77.2600	x	x	3.000"				
77.3000				xx	xx	Ø 102mm R & F	Ø 58mm R , Ø55mm F

77.5500	x		3.000" cyl	xx	xx	Ø 102mm R , Ø138mm F	Ø 102mm R & F
77.5800	x	x	2.500"				
77.8900	x	x	3.000"				
78.0800				xx	x	Ø 152mm R & F	Ø 110mm R
78.1000	x	x	3.00"	xx	xxx	Ø 100mm R , Ø104mm F	Ø 58mm 2 R & 1 F
78.4300	x	x	2.375"				
78.5400				x		Ø 148mm R	
78.5500	x	x	3.00"	x	x	Ø 110mm R	Ø 56mm F
78.8200	x	x	2.00"				
79.1500	x	x	3.00"	xx	xxx	Ø 102mm & 144mm R	Ø 58mm & 90mm R , Ø56mm F
79.3800	x	x	3.000"				
79.4000		x	2.00"				
79.4100				x	x	Ø 102mm F	Ø 56mm F

79.5800	x	x	3.00"				
79.7400	x	x	3.00"	xx	xx	Ø 140mm R, Ø102mm F	Ø 55mm R, Ø58mm F
79.8600				x	x	Ø 102mm F	Ø 55mm F
79.9400				x		F	
80.1200	x	x	3.00"	xx	xx	Ø 102mm R, Ø108mm F	Ø 58mm R, Ø55mm F
80.2900	x	x	3.00"	xxx	xx	Ø 102mm R & F, Ø142mm F	Ø 56mm R, Ø55mm F
80.4200	x	x	2.125"				
80.9800	x	x	3.00"	xxx	xxx	Ø 100mm R, Ø142mm & 154mm F	Ø 58mm R & F, Ø100mm F
81.2500				x	x	Ø 104mm F	Ø 56mm F
81.3300				x		Ø 75mm F	
81.3900	x	x	3.00"	xx	xx	Ø 105mm R, Ø102mm F	Ø 100mm R, Ø74mm F
81.4000			cyl				
81.4100	x	x	2.00"				

81.3600	x	x		xx	xx	Ø 104mm R , Ø102mm F	Ø 50mm R , Ø62mm F
81.7500	x	x	3.000"	x	x	Ø 102mm F	Ø 58mm F
82.1200	x	x	2.125"				
82.2600	x	x	3.00"	xx	xx	Ø 104mm R , Ø105mm F	Ø 60mm R & F
82.5700	x	x	3.00"	xxx	xxx	Ø 105mm R, Ø104mm & 165mm F	Ø 60mm R & F, Ø120mm F
82.7400	xx	x	2.000 & 3.00"	xx	xxx	Ø 134mm R , Ø148mm F	Ø 58mm R, Ø56mm & 74mm F
83.2300	x	x	2.00"	xx	xx	Ø 104mm R , Ø98mm F	Ø 60mm R , Ø58mm F
83.7000	x	x	3.00"	x	xxxx	Ø 104mm F	Ø 85mm R , Ø55mm, 82mm, 100mm F
83.9900	x	x	3.000"				
84.0000				xx	xx	Ø 130mm R , Ø102mm F	Ø 72mm R , Ø60mm F
84.3800	x	x	3.00"	xxx	xxx	Ø 104mm 2 R , Ø150mm F	Ø 62 & 74mm R , Ø55mm F
84.6700	x	x	2.000" & 2.50"	x	x	Ø 106mm R	Ø 58mm R
84.7800	x	x	2.25"	xx		Ø 104mm R & F	

84.8800	x	x	3.00"	xx	xx	Ø 108mm R & F	Ø 60mm R, Ø58mm F
85.0600	x	x	2.000"				
85.1500	x	x	3.00"	xx	xx	Ø 104mm R, Ø116mm F	Ø 50mm R, Ø58mm F
85.5300	x	x	3.00"	x	x	Ø 100mm F	Ø 58mm F
85.7100	x	x	3.00"	x	xx	Ø 105mm R	Ø 98mm R, Ø94mm F
85.7200				x		Ø 154mm R	
86.4100	x	x	3.00"	xx	xx	Ø 108mm R, Ø158mm F	Ø 58mm R & F
86.6800	x	x	3.000"	x	x	Ø 102mm F	Ø 55mm F
86.7500				x	x	Ø 114mm F	Ø 60mm F
87.2800	x	x	3.00"	xx	xx	Ø 106mm R & F	Ø 58mm R & F
87.7300	x	x	3.00"	xx	xx	Ø 106mm 2 R	Ø 58mm 2 R
87.7700	x	x	3.00"	x	x	Ø 105mm F	Ø 60mm F
88.0300	x	x	2.500"	xx	xx	Ø 108mm R, Ø104mm F	Ø 58mm R, Ø60mm F

88.2500				x	x	Ø 98mm F	Ø 60mm F
88.3200	x	x	3.000"	x	x	Ø 118mm F	Ø 62mm F
88.4000				x		Ø 108mm R	
88.5700	x	x	3.00"	xx	xx	Ø 108mm R , Ø154mm F	Ø 55mm R , Ø60mm F
88.8900	x	x	4.000"	x	x	Ø 166mm F	Ø 94mm F
89.0000	x	x	1.875"	xx	x	Ø 104mm R , Ø174mm F	Ø 108mm F
89.1000	x	x	3.00"		x		Ø 56mm R
89.1400				xx	x	Ø108 & 116mm F	Ø 60mm F
89.2000	x	x	2.00"				
89.8000				xx		Ø 160mm R , Ø152mm F	
89.8300	x	x	3.00"	x	xx	Ø 105mm R	Ø 58mm R , Ø56mm F
89.9200				xx	x	Ø 160mm R , Ø148mm F	Ø 148mm F
90.0400	x	x	3.000"	x	x	Ø 110mm F	Ø 56mm F

90.1900	x	x	2.500"	xx	xx	Ø 115mm R , Ø158mm F	Ø 58mm R , Ø118mm F
90.3700				x	x	Ø 114mm R	Ø 56mm R
90.4000	x	x	3.00"	x	x	Ø 110mm F	Ø 62mm F
90.4700				x	xx	Ø 112mm F	Ø 94mm R , Ø90mm F
90.4800	x	x					
90.9200	x	x	3.00"	xx	xx	Ø158mm R, Ø 106mm F	Ø 58mm R & F
91.0800	x	x	3.00"	x	x	Ø 104mm F	Ø 58mm F
91.1400	x		2.00"				
91.3900	x	x	3.00"	x	xx	Ø 104mm F	Ø 62mm R, Ø 58mm F
91.3900		x	unfinished				
91.5600	x	x	3.500"				
91.5800	x	x	2.50"	x	xx	Ø 108mm F	Ø 85mm R, Ø 58mm F
91.9600	x	x	3.000"	x	x		

92.0800				x	x	Ø 102mm F	Ø 60mm F
92.1800	xx	xx	4.000"	xx	xx	Ø 108mm R, Ø 110 mm F	Ø 58mm R, Ø 60mm F
92.4000				xx	xx	Ø 110mm R, Ø 104 mm F	Ø 58mm R & F
92.7100	x	x	3.00"	xx	xx	Ø 104mm R, Ø 158 mm F	Ø 58mm R, Ø 60mm F
92.7700	x	x	4.00"	xx	xx	Ø 110mm R, Ø 104 mm F	Ø 58mm R, Ø 60mm F
92.8300	x	x	3.00"	xx	xx	Ø 158mm R, Ø 105 mm F	Ø 58mm R, Ø 60mm F
93.5800	x	x	3.00"				
93.6000	x	x	2.50"				
94.0400	x	x	2.50"				
94.1200	x	x	2.50"	xxx	xxx	Ø 108mm R & F, Ø 154 mm R	Ø 58mm & 90 mm R, Ø 60mm F
94.2900				xx		Ø 180mm R, Ø 182mm F	
94.4700	x	x	3.000"	xx	xx	Ø 104mm R, Ø 164 mm F	Ø 58mm R, Ø 60mm R
95.0100	x	x	4.00"	x	x	Ø 152mm F	Ø 90mm F

95.2500	x	x	4.000"	x	xx	Ø 188mm F	Ø 138mm R & F
95.5100	x	x	4.000"	xx	xx	Ø 115mm R, Ø 154 mm F	Ø 60mm R, Ø 90 mm F
95.7100	x	x	3.000"	xx	xx	Ø 102mm R, Ø 114 mm F	Ø 58mm R, Ø 60 mm F
95.8800	x	x	3.00"				
96.2000	x	x	3.00"	xxx	xx	Ø 108mm R, Ø 110mm 2 F	Ø 60mm R & F
96.5200	x	x	2.50"				
96.6000					x		Ø 70mm F
96.7350	x	x	3.125"	xxx	xx	Ø 110mm R Ø 114mm R & F	Ø 58mm R Ø 62mm F
96.9000				x	x	Ø 114mm R	Ø 60mm R
97.0300				x	x	Ø 114mm F	Ø 54mm F
97.3300	x	x	3.000"	x	xxx	Ø 116mm F	Ø 88mm R & F Ø 58mm F
97.4300	x	x	3.000"	xx	xxxx	Ø 115mm R, Ø 110mm F	Ø 88mm R & F Ø 64mm R, Ø 62mm F
97.6000	x	x	4.000"	x		Ø 150mm F	

98.0200	x	x	4.000"				
98.0400	x	x	2.000"				
98.0500	x	x	2.500"	xx	xx	Ø 112m R, Ø 110mm F	Ø 62mm R, Ø 88mm F
98.1600	x	x	3.000"	x	x	Ø 128mm R	Ø 68mm R
98.2800	x	x	3.000"	x	x	Ø 110mm F	Ø 62mm F
98.4300	x	x	4.000"				
98.5150	x	x	4.000"	x	x	Ø 112mm F	Ø 60mm F
98.6000				xx	xx	Ø 115m R, Ø 114mm F	Ø 62mm R & F
99.0100	x	x	5.000" & 4.500"				
99.0600				xx	xx	Ø 114mm 2 F	Ø 148m R, Ø 150mm F
99.4100	x	x	3.000"	xx	xx	Ø 112m R, Ø 168mm F	Ø 62m R, Ø 60mm R
99.5100	x	x	3.000"				
99.7300				x	x	Ø 114mm F	Ø 64mm F

99.9300	x	xx	2.00"	x		Ø 110mm F		
100.0700	x	x	4.000"	xx	xx	Ø 108mm R & F	Ø 62mm R & F	7.7
100.0800				xxx		Ø 145, 148 & 150mm R		
100.4250	x	x	2.000"	x	x	Ø 100mm F	Ø 52mm F	
100.6000	x	x	2.00"	xx	x	Ø 108m R, Ø 160mm F	Ø 62mm F	
100.7600	x	x	4.000"	xx	xx	Ø 114m R, Ø 115mm F	Ø 62mm R & F	
100.8000				x	xx	Ø 152mm F	Ø 86 & 88mm F	
100.9200	x	x	4.000"	xx	xx	Ø 110m R, Ø 108mm F	Ø 52m R, Ø 58mm F	
100.9700					x		Ø 62mm F	
101.1350	x		2.500"					
101.1600	x	x	3.000"	x	x	Ø 114mm F	Ø 60mm F	
101.2500			3.00"	xx	xx	Ø 118m R, Ø 114mm F	Ø 58m R, Ø 60mm F	
101.3500	x	x	2.000"					

101.3600	x	x	4.000"	x	x	Ø 180mm F	Ø 113mm F
101.7900	x	x		x	x	Ø 150mm F	Ø 88mm F
101.9300				xx		Ø 208mm R & F	
102.0400	x	x	2.000"	xx	xx	Ø 112mm R & F	Ø 62m R, Ø 60mm F
102.0800	x	x	2.500"				
102.1700				x		Ø 176mm R	
102.2300	x	x	2.000"				
102.4600	x	x	4.000"	x	x	Ø 114mm F	Ø 62mm F
102.6200	x	x	2.500" & 4.000"	x	x	Ø 152mm F	Ø 85mm F
102.6300					x		Ø 110mm R
102.8000	xx	x	3.250" & cyl				
102.9200	x	x	3.00"	xx	xx	Ø 114m R, Ø 108mm F	Ø 62m R, Ø 60mm F
102.9800				x		Ø 110mm F	

103.1200	x	x	2.00"	xx	xx	Ø 114m R, Ø 108mm F	Ø 62m R, Ø 60mm F
103.6000	x	x	2.00"	xx	xx	Ø 116m R, Ø 112mm F	Ø 62m R, Ø 60mm F
104.0800	x	x	3.00"	x	x	Ø 110mm F	Ø 600mm F
104.2400	x	x	4.00"	xxxx	xxxx	Ø115, 185 & 190mm R, Ø 114mm F	Ø 62,135 & 140mm R, Ø 62mm F
104.6200	x	x	2.00"	xx	xx	Ø 112m R & F	Ø 112mm R, Ø 152mm F
104.9600	x	x	4.00"	xx	xx	Ø 112mm R & F	Ø 58m R, Ø 60mm F
105.6400	x	x	4.00"	x	x	Ø 144mm F	Ø 64mm F
105.7000				xxx		Ø 188mm 2 R & 1 190 mm R	
105.8400	x	x	1.75"				
105.9700	x		2.500"				
107.3700	x	x	4.00"				
107.5200	x	x	4.000"	xx	x	Ø 108m R, Ø 124mm F	Ø 68mm F
108.0000	x	x	4.00"	xx	xxx	Ø 108m R, Ø 112mm F	Ø 60mm R & F & Ø 105mm F

109.3620	x	x	4.00"				
109.3800				x	x	Ø 112mm R	Ø 62mm R
109.4000				x	x	Ø 152mm F	Ø 60mm F
109.5100				xxx	xxx	Ø 114 & 154mm R, Ø 116mm F	Ø 55 & 80mm R, Ø 60mm F
110.2700	x	x	4.000"	xx	xx	Ø 114m F, Ø 116mm F	Ø 58m R, Ø 62mm F
110.3100	x	x	2.25"				
110.6000				x	x	Ø 100mm R	Ø 60mm R
110.8380	x	x	4.000"				
110.9000	x	x	4.00" & 5.000"	xxx	xx	Ø 115 & 155mm R, Ø 108mm F	Ø 60mm R & F
110.9900	x		2.250"				
111.7200	x	x	3.00"	x	x	Ø 112mm F	Ø 60mm F
111.7600				x	x	Ø 108mm R	Ø 58mm R
112.1600				x	x	Ø 178mm R	Ø 104mm R

113.1800	x	x	3.00"	xx	xx	Ø 112m R, Ø 154mm F	Ø 60m R, Ø 84mm F
113.2200	x	x	2.125" & 2.250"				
114.3000	x	x	4.00"				
114.4000				x	x	Ø 114mm F	Ø 60mm F
114.4500	x	x	4.00"	x	x	Ø 144mm F	Ø 60mm F
114.9800	x	x	4.000"	xx	x	Ø110mm R & F	Ø 60mm F
115.7100	x	x	4.00"	xx	xx	Ø116mm R & F	Ø 60mm R, Ø 56mm F
116.2300	x	x	4.000"				
116.2400				xx	xx	Ø 100mm R, Ø 110mm F	Ø60mm R & F
116.6300	x	x	3.00"	xx	xxx	Ø 114m R, Ø 116mm F	Ø 84 & 114mm R, Ø 60mm F
116.6650	x	x	3.000"				
116.8000	x	x	4.00"	xx	xxx	Ø 106m R, Ø 112mm F	Ø 56 & 154mm R, Ø 56mm F
117.2600	x	x	3.000"	xx	x	Ø 194m R, Ø 206mm F	Ø 124mm F

117.3000				x		Ø 108mm R	
117.9800				x		Ø 58mm R	
117.9900	x	x	4.000"	xx	xx	Ø 112m R, Ø 126mm F	Ø 68m R, Ø 60mm F
118.0200				x		Ø 152mm R	
118.2100	x	x	4.000"		x		
118.2200				x	xx	Ø 126mm F	Ø 84mm R, Ø 66mm F
118.2800				x		Ø 150mm F	
118.4000				xx		Ø 118mm 2 F	
118.5000				xx	x	Ø 196mm R, Ø 204mm F	Ø 124mm F
118.5200	x	x	4.000"	xx	xx	Ø 114m R, Ø 112mm F	Ø 62m R, Ø 58mm F
119.9050	x	x	3.00"	xx	x	Ø152mm R & F	Ø 60mm R
120.0000					x		Ø 112mm R
120.2600	x	x	2.000"	xx	x	Ø 112m R, Ø 116mm F	Ø 60mm F

120.5600	x	x	2.125"				
120.6500	x	x	3.000"	xxx	xx	Ø 132mm R, Ø 112 & 152mm F	Ø 100m F, Ø 58mm F
121.3900	x	x	2.500"	x	x	Ø 110mm F	Ø 56mm F
121.9300	x	x	4.000"				
121.9700	x	x	4.000"	xx	xx	Ø 112m R, Ø 114mm F	Ø 60mm R & F
122.3200	x	x	4.000"	x	x	Ø 116mm F	Ø 152mm F
122.7500	x	x			x		Ø 62mm F
122.9100	x	x					
123.2500	x	x	4.000"	xxxx	xx	Ø 110 & 116mm R, Ø 112 & 182mm F	Ø 60mm R & F
123.7500				x	x	Ø 112mm R	Ø 54mm R
124.0000	x	x	2.000" 2.500"	xx	xx	Ø 110m R, Ø 112mm F	Ø 58mm R & F
124.3700	x	x	3.750"				
124.4300	x	x	3.000"	xx	x	Ø 114m R, Ø 152mm R	Ø 82mm R

124.9200	x	x	4.00"	xx	xx	Ø 116m R, Ø 110mm F	Ø 62m R, Ø 60mm F
125.0000					x		Ø 138mm F
125.1200	x	x	5.000"	x	x	Ø 244mm R	Ø 158mm R
125.2200	x	x	3.00"	xx	x	Ø 112 & 114mm R	Ø 58mm R
125.5500	x	x	4.000"	x	x	Ø 112mm F	Ø 54mm F
126.3600	x	x	3.00"	xxx	xxx	Ø 112m R, Ø 112 & 114mm F	Ø 60m R, Ø 50 & 58mm F
126.4400	x	x	3.00"	xx	xx	Ø 114m R, Ø 112mm F	Ø 60mm R & F
127.1400	x	x	4.000" & 5.00"	x	xx	Ø 110mm F	Ø 62mm F & Ø 140mm F
127.2000	x	x	3.00"	xx	xx	Ø 110m R, Ø 112mm R	Ø 58mm 2 R
127.4900				x	xx	Ø 112mm R	Ø 58m R, Ø 60mm R
127.9700	x	x	3.00"				
128.2800	x	x	3.00"	xx	xx	Ø 114m R, Ø 108mm F	Ø 60mm R & F
128.3000				x		Ø 112mm F	

128.4000	x	x	2.50"	xx	xxx	Ø 126m R, Ø 112mm F	Ø 62 & 66mm R, Ø 58mm F
128.7100	x	x	4.00"	x	x	Ø 126mm F	Ø 66mm F
128.8400				x		Ø 204mm F	
128.9300	x	x	4.000"		xx		Ø 118m R, Ø 116mm F
129.2400	x	x	2.00"	xx	xx	Ø 112m R, Ø 114mm F	Ø 60m R, Ø 58mm F
130.0500	x	x		x		Ø 230mm R	
130.0600	x	x	3.00"	xx	xx	Ø 112mm R & F	Ø 60m R, Ø 58mm F
130.5000	x	x	4.00"				
131.0500	x	x	4.00"	x	x	Ø 112mm F	Ø 62mm F
131.2300	x	x	3.00"	xx	xx	Ø 112m R, Ø 116mm F	Ø 58mm R & F
131.3200	x	x	5.00"				
131.6200	x	x	4.00"				
132.0300	x	x	3.00" & cyl	xx	xx	Ø 114m R, Ø 150mm F	Ø 60mm R & F

132.5000				x		Ø 112mm R	
132.5200	x	x	3.00"	xxx	xx	Ø 112mm R & F, 152mm F	Ø 58m R, Ø 62mm F
132.6300	x	x	3.000"	x	x	Ø 112mm F	Ø 58mm F
133.1700	x	x	4.000"	x	x	Ø 112mm F	Ø 58mm F
133.5800	x	x	3.00"	xx	xx	Ø 112mm R, Ø 110mm F	Ø 58mm R & F
133.6500	x	x	5.000"				
134.0300	x	x	4.000"	xx	xx	Ø 112m R, Ø 114mm F	Ø 60m R, Ø 58mm F
134.6200	x	x	4.00"	xx	xx	Ø 114mm R, Ø 112mm F	Ø 60m R, Ø 58mm F
134.9900	x	x	4.00"				
135.1400	x	x	4.00"	xx	xx	Ø 114mm R & F	Ø 52m R, Ø 58mm F
135.3500	xx	xx	2.50" & 4.000"	xxxxx	xxx	Ø 112,210 &238mm R, Ø 150& 190mm F	Ø 58mm R, Ø 90 & 98mm F
135.8900	x	x	4.00"				
137.2600	x	x	4.000"		x		Ø 82mm F

137.3000				x		Ø 148mm F	
137.4600	x	x	4.000"				
137.5400	x	x	3.00"	xx	xx	Ø 114mm R & F	Ø 60mm R, Ø 58mm F
137.8500	x	x	3.00"	x	x	Ø 128mm F	Ø 66mm F
138.1900	x	x	4.000"				
138.6200	x	x	3.25"				
139.1200	x	x	2.50"	x	x	Ø 112mm F	Ø 38mm F
139.1500	x	x	3.75"				
139.5900	x	x	4.00"	xx	xx	Ø 112mm R, Ø 114mm F	Ø 60mm R, Ø 58mm F
139.9700	x	x	5.000"				
140.0000	x	x	2.25"	x	xxx	Ø 128mm F	Ø 60mm R, Ø 58mm 2 F
140.2500	x	x	4.000"	x	x	Ø 110mm F	Ø 60mm F
140.4600	x	x	3.00"	xx	x	Ø 174 & 178mm F	Ø 58mm F

140.4900	x	x	2.50"				
140.9700	x	x	4.000"				
141.0400	x	x	4.000"				
141.3300	x	x	3.00"	xx	xx	Ø 114mm R & F	Ø 60mm R, Ø 54mm F
142.0100	x	x	2.125"				
142.1500	x	x	3.75"				
142.4300	x	x	5.00"	xx	xxx	Ø 218mm R, Ø 114mm 2 F	Ø 132 & 160mm R, Ø 60mm F
142.9000				xx	xx	Ø 112mm R, Ø 114mm 2 F	Ø 58mm R, Ø 60mm F
142.9900	x	x	2.500"	x	x	Ø 124mm F	Ø 66mm F
143.3500	x	x	4.00"	xx		Ø 254mm R & F	
143.6100	x	x	3.00"	x	x	Ø 150mm F	Ø 80mm F
143.9400	x	x	4.00"	xxx	xxx	Ø 112mm R, Ø 110 & 204mm F	Ø 62mm R, Ø 58 & 96mm F
144.6500	x	x	2.00"				

144.7900	x	x	3.00"		x		Ø 58mm F
144.8500	x	x	2.50"	xx	xx	Ø 112mm R, Ø 172mm F	Ø 80mm R, Ø 96mm F
146.0000	x	x	2.250" & 5.000"	xx	xx	Ø 110mm R, Ø 112mm F	Ø 60mm R, Ø 56mm F
146.4500	x	x	4.00"	x	x	Ø 126mm F	Ø 66mm F
146.7800	x	x	2.625"	xx	xxx	Ø 112mm R, Ø 194mm F	Ø 60mm R, Ø 112mm 2 F
146.9800	x	x	4.00"	xx	xx	Ø 112mm R & F	Ø 60mm R, Ø 62mm F
148.7400	x	x	2.50"				
147.7900	x	x	4.000"	x	x	Tools 4.50"	Tools 4.50"
147.8900				x	x	Ø 114mm F	Ø 58mm F
148.7400	x	x	2.500"				
150.0000				xx		Ø 226mm R, Ø 216mm F	
150.0500	x	x	3.00"	xx	xx	Ø 122mm R, Ø 152mm F	Ø 94mm R, Ø 88mm F
150.4200				x	x	Ø 122mm F	Ø 62mm F

150.7400	x	x	2.50"	xx	xx	Ø 114mm R, Ø 110mm F	Ø 62mm R, Ø 56mm F
150.7490	x	x	2.500"				
150.8200					x		Ø 112mm F
151.0600	x	x	5.000"				
151.7200	x	x	3.00" & cyl.	xx	x	Ø 112mm F, Ø 120mm F	Ø 60mm F
152.6100	x	x	3.00"	xx	xxx	Ø 120mm R, Ø 114mm F	Ø 56mm R, Ø 58 & 112mm F
152.6700				x	x	Ø 204mm R	Ø 112mm R
153.0600				x	x	Ø 178mm R	Ø 94mm R
153.2100	x	x	2.50"				
153.2700	x	x	3.00"	xxx	xx	Ø 112 & 152mm R, Ø 114mm F	Ø 58mm R, Ø 80mm F
154.6190	x	x	3.00"	xx	x	Ø 112mm R, Ø 114mm F	Ø 56mm R & F
154.8300	x	x	3.00"	x	x	Ø 204mm F	Ø 112mm F
154.8400				x	x	Ø 118mm R	Ø 62mm R

154.9400	x	x	2.125"				
155.4800	x	x	3.00"	xx	x	Ø 154mm R, Ø 114mm F	Ø 66mm F
155.6000		x	cyl				
156.1400	x	x	3.000" & 4.00"	x	x	Ø 114mm F	Ø 62mm F
156.1800	x	x	2.500"				
156.5000				x	x	Ø 205mm F	Ø 110mm F
156.5400	x	x	4.000"				
156.9800					x		Ø 62mm F
157.1400	x	x	3.00"	xx	xx	Ø 115mm R, Ø 114mm F	Ø 56mm R, Ø 58mm F
157.4800				x	x	Ø 108mm F	Ø 62mm F
157.8300	x	x	3.00"	xx	xx	Ø 118mm R, Ø 112mm F	Ø 60mm R, Ø 58mm F
158.1200	x	x	2.500" & 4.00"	xx	xx	Ø 118 & 210mm R	Ø 52 &62mm R
158.340"	xx	xx	4.00"				

159.0700	x	x	3.00"	xx	xx	Ø 112mm R & F	Ø 58mm R, Ø 55mm F
159.4000	x	x	4.00"	xx	xx	Ø 118mm R, Ø 198mm F	Ø 60mm R, Ø 112mm F
159.7900	x	x	4.00"	x	x	Ø 152mm F	Ø 80mm F
159.9200	x	x	4.00"	x	x	Ø 204mm F	Ø 110mm F
160.2300	x	x	3.00"	x	x	Ø 112mm F	Ø 58mm F
160.7900	x	x	3.00"	xx	x	Ø 116mm R& F	Ø 62mm F
161.5400	x	x	2.00"				
161.7000	x	x	4.00"	xx	xx	Ø 118mm R, Ø 116mm F	Ø 62mm R & F
162.2000	x	x	3.00"	xxx	xxx	Ø 112mm R, Ø 112 & 252 mm F	Ø 58mm R & F Ø 110 mm F
162.5300	x	x	4.000"	x	x	Ø 114mm F	Ø 52mm F
162.8100	x	x	4.00"				
163.3500	x	x	4.000"				
163.4900				xx		Ø 112mm R & F	

163.5800				xx	xx	Ø 112mm R, Ø 152mm F	Ø 56mm R, Ø 80mm F
164.6700					x		Ø 145mm R
164.9300	x	x	3.00"	xx	xx	Ø 120mm R, Ø 86mm F	Ø 58mm R & F
165.0000					x		Ø 58mm R
165.1300	x	x	4.000"	x	x	Ø 150mm F	Ø 88mm F
165.8800	x	x	4.00"	x	x	Ø 112mm R	Ø 80mm R
166.1000	x	x	3.00"	x	x	Ø 118mm F	Ø 62mm F
166.2700	x	x	4.000"	x	x	Ø 126mm F	Ø 65mm F
166.5400					x		Ø 80mm R
166.6300				x		Ø 114mm R	
166.7000	x	x	3.25"				
167.0800	x	x	3.00"				
167.4600				x	xxx	Ø 112mm F	Ø 60mm R, Ø 58 & 98 mm F

167.7300	x	x	3.00"	xx	xx	Ø 112mm R, Ø 114mm F	Ø 62mm R & F
168.8400	x	x	4.00"	xx	xx	Ø 112mm R, Ø 114mm F	Ø 62mm R & F
169.5100	x	x	3.00"	xx	xx	Ø 112mm R & F	Ø 60mm R, Ø 58mm F
169.7500		x	2.375"		x		Ø 62mm R
169.8000				x		Ø 120mm R	
169.9100	x		2.25"				
170.0900	x	x	4.000"	x		Ø 112mm F	
170.1800				xx	xx	Ø 112mm R, Ø 128mm F	Ø 58mm R, Ø 64mm F
170.7130	x	x	3.00"				
170.8500	x	x	3.00"	xx	xx	Ø 118mm R, Ø 150mm F	Ø 58mm R, Ø 62mm F
171.4200	x	x	2.00"				
172.0000				x		Ø 180mm F	
173.3000	x	x	2.25"	xxx	xx	Ø 112 & 150mm R, Ø 114mm F	Ø 56mm R, Ø 60mm F

173.3800	x	x	2.250" & 2.000"				
174.2650	x	x	3.00"	xx	xxx	Ø 112 & 172mm F	Ø 58 & 94mm R, Ø 56mm F
175.0000	x		cyl				
175.2000	x	x	4.000"	x	x	Ø 202mm F	Ø 110mm F
175.7700	x	x	4.00"				
176.1800	x	x	2.50"	x	xx	Ø 112mm R	Ø 58mm R & F
176.2000				x		Ø 144mm F	
176.6200	x	x	3.25" & 3.75"				
177.1100	x	x	3.75"				
177.5300	x	x	3.75"	xx	x	Ø 110mm R, Ø 112mm F	Ø 56mm F
178.3000	x	x	2.125"				
178.8200	x	x	4.000"	x	x	Ø 124mm F	Ø 65mm F
178.9700	x	x	3.75"				

179.4100	x	x	2.25" & 2.00"	xx	xx	Ø 112mm R, Ø 116mm F	Ø 58mm R & F
179.7500	x	x	5.000"				
179.8300	x	x	2.50"				
180.0000				x		Ø 228mm F tools alum. Pistons	
180.2800	x	x	5.000"				
180.3700				xx	x	Ø 152 & 154mm F	Ø 78mm F
180.9700	x	x	2.250"				
181.3800	x	x	5.000"	xx	xx	Ø 112mm R, Ø 114mm F	Ø 62mm R, Ø 64mm F
181.4300	x	x	2.00"	x	x	Ø 118mm R	Ø 60mm R
182.4700	x	x	4.00"	x	x	Ø 98mm F	Ø 52mm F
183.2400	x	x	5.000"				
183.3800				x		Ø 252mm R	
183.5000				x		Ø 112mm F	

184.3200	x	x	3.00"	xx	xx	Ø 120mm R, Ø 118mm F	Ø 64mm R & F
184.3800				x		Ø 110mm R	
184.4300	x		3.125	xx	x	Ø 148mm R, Ø 150mm F	Ø 56mm F
184.4700	x	x	4.00"	xxx	xx	Ø 206mm R, Ø 205 & 298mm F	Ø 108mm R, Ø 110mm F
185.2900	x	x	4.00"				
185.5800				x	x	Ø 152mm F	Ø 78mm F
186.1400	x	x	4.000"	xx	xx	Ø 124mm R, Ø 130mm F	Ø 60mm R, Ø 62mm F
186.4800	x	x	4.00"	xx	x	Ø 176mm R & F	Ø 92mm F
186.9400				x	x	Ø 258mm F	Ø 140mm F
187.0300	x	x	4.000"	xx	x	Ø 118mm R, Ø 115mm F	Ø 62mm F
187.8800	x	x	4.000"				
187.9800				xx	xx	Ø 104mm R, Ø 152mm F	Ø 56 & 80mm F
188.6900	x	x	2.50"	xxx	xx	Ø 118, 200 & 204mm R	Ø 58 & 62mm R

189.6300				xx	xx	Ø 118mm R & F	Ø 58 mm R, Ø 62mm F
189.9700	x	x	4.00"	xx	xx	Ø 202 mm R, Ø 204 mm F	Ø 58 mm R, Ø 108mm F
190.5000	x	x	2.25"				
190.5250	x	x	4.25"				
191.7000				x	x	Ø 110mm F	Ø 58mm F
192.0500	x	x	4.000"	x	x	Ø 112mm F	Ø 60mm F
192.0500	x		4.000" cyl				
192.2000				x	x	Ø 280mm R	Ø 138mm R
192.2500	x	x	7.000"				
192.4200				x		Ø 242mm R	
192.8400	x	x	4.00"				
193.3900	x	x	3.00"	x	x	Ø 118mm F	Ø 58mm F
193.4700				x	x	Ø 112mm R	Ø 58mm R

193.7800	x	x	4.00"				
193.7900				x	x	Ø 110mm F	Ø 56mm F
195.6000				x	x	Ø 152mm F	Ø 76mm F
196.7300	x	x	4.00"	xx	xx	Ø 116 mm R, Ø 112 mm F	Ø 60 mm R, Ø 64 mm F
196.8000					xxx		Ø 410mm R, Ø 280 & 358 mm F
196.9800				x	x	Ø 256mm R	Ø 138mm R
198.9200	x	x	3.00"	xx	xx	Ø 118 mm R, Ø 110 mm F	Ø 62 mm R, Ø 56 mm F
200.0000				x		Ø 256mm R	
200.0200	x	x	3.00"	xx	xx	Ø 116 mm R, Ø 112 mm F	Ø 62 mm R, Ø 58 mm F
201.0700	x	x	4.00"	xx	xxx	Ø 118 mm R, Ø 152 mm F	Ø 62 mm R & F, Ø 80 mm F
203.1000				x	x	Ø 120mm F	Ø 58mm F
203.1700			2.500"		x		Ø 54mm R
203.3300	x	x	4.00"	xxx	xx	Ø 112 & 228 mm R, Ø 118 mm F	Ø 60 mm R, Ø 62 mm F

203.3500	x	x	2.00"				
203.6500					x		Ø 38mm R
203.8700	x	x	5.000"				
203.9500		x	2.125"				
204.2700	x	x	2.50"				
205.9900	x	x	5.00"	x		Ø 112mm F	
206.9300	x	x	3.00"	xx	xx	Ø 118 mm R, Ø 120 mm F	Ø 60 mm R, Ø 58 mm F
207.0000				x		Ø 228mm R	
207.3000				x	x	Ø 112mm R	Ø 58mm R
208.1700	x	x	4.00"	xx	xx	Ø 114 mm R, Ø 116 mm F	Ø 58 mm R, Ø 62 mm F
210.0500	x	x	5.00"	xx	xx	Ø 118 mm R, Ø 154 mm F	Ø 62 mm R, Ø 78 mm F
210.5800	x	x	5.000"				
208.6000				x	xx	Ø 208mm R	Ø 108 mm R, Ø 106 mm F

211.0900	x	x	4.00"	xx	xxx	Ø 118 & 152 mm F	Ø 92 mm R, Ø 64 & 78 mm F
211.6300				x	x	Ø 114mm F	Ø 58mm F
211.8700	x	x	4.00"				
212.5200	x	x	4.00"	x	x	Ø 112mm F	Ø 56mm F
214.1800	x	x	3.00"	xx	xx	Ø 116 mm R, Ø 110 mm F	Ø 62 mm R, Ø 60 mm F
214.2700	x	x	4.00"				
215.2400	x	x	2.00"				
215.6200				xx	xxx	Ø 112mm R &F	Ø 62 mm R, Ø 58 & 64 mm F
216.0300	x	x	3.00"	xx		Ø 152mm R &F	
216.2500				x	xx	Ø 280mm R	Ø 92 & 154 mm R
216.3800	x	x	5.00"	xx	xx	Ø 118mm R &F	Ø 62mm R &F
217.1900	x	x	4.00"	xx	xx	Ø 118mm R &F	Ø 62 & 94mm R
217.3000					x		Ø 58mm R

218.2600	x	x	4.00"				
218.4000	x	xx	2.25"	xx	xx	Ø 20 mm R, Ø 204 mm F	Ø 58 mm R, Ø 56 mm F
218.9800	x	x	4.00"	xx	xx	Ø 116 mm R, Ø 154 mm F	Ø 60mm R & F
219.9300				x		Ø 306mm F	
219.9700	x	x	5.00"	xx	x	Ø 118mm R & F	Ø 62mm F
220.5100	x	x	4.00"	x	x	Ø 122mm R & Ø 241 mm	Ø 62mm R
222.1200	x	x	4.00"				
222.1700	x	x	2.75"	x	x	Ø 120mm F	Ø 60mm F
222.8400	x	x	3.750"	xx	xx	Ø 118 mm R, Ø 120 mm F	Ø 62 mm R, Ø 56 mm F
223.2700	x	x	3.000"	xx	xx	Ø 120 mm R, Ø 118 mm F	Ø 62 mm R, Ø 108 mm F
223.3400	x	x	3.00"				
223.9800	x	x	3.00"	xx	xx	Ø 118mm R & F	Ø 60 mm R, Ø 62 mm F
224.6300				x	x	Ø 118mm F	Ø 62mm F

224.8400	x	x	2.625"	x	x	Ø 118mm R	Ø 58mm R
225.0000					x		Ø 90mm F
225.1200	x		2.000"				
225.2350	x	x	4.000"	x		Ø 304mm F	
225.3000	x			xx	x	Ø 112 mm R, Ø 120 mm F	Ø 60mm F
225.3900			cyl.				
226.8000	x	x	2.50"	xx	xxx	Ø 118 mm R, Ø 204mm F	Ø 92 mm R, Ø 92 & 112 mm F
227.3900	x	x	5"		x		Ø 152mm R
227.6600		x	2.500"				
228.4800	x	x	3.375"	xx	xx	Ø 120mm R &F	Ø 60 mm R, Ø 78mm F
228.4800	xx	x	4.000" & cyl				
228.6000				x		Ø 152mm R	
228.8000	x	x	2.25"				

229.1500	x	x	4.00"	x	x	Ø 226mm F	Ø 126mm F
229.1580	x	x	2.00"				
230.0000				x	xxxxx	Ø 120mm F	Ø 62,78 & 2 80mm R, Ø 62mm F
230.6000	x	x	5.00"				
230.9000					x		Ø 94mm F
231.1400	x	x	3.50"				
231.6400				x	x	Ø 256mm R	Ø 138mm R
232.5400	x	x	5.000"		x		Ø 84mm F
232.9400	x	x	4.00"	xxx	xxxxx	Ø 118 & 204 mm R, Ø 116mm F	Ø 62,106 & 118mm R, Ø 40 & 110mm F
233.4100	x	x	5.00"	xx	xx	Ø 114 mm R, Ø 112mm F	Ø 58mm R & F
233.4300	x	x	3.00"	xx	x	Ø 250 mm R, Ø 256mm F	Ø 138mm R
233.5400	x	x	5.000"		x		Ø 104mm R
233.6000	x	x					

234.1700	x	x	4.00"	xx	xx	Ø 110 mm R, Ø 202mm F	Ø 62mm R & F
235.5400				x		Ø 256mm F	
236.0600	x	x	3.00"	xx	xx	Ø 116 mm R, Ø 112 mm F	Ø 58 mm R, Ø 78 mm F
238.0650	x	x	4.000"				
238.1000	x	x	2.500"	xxx	xxx	Ø 120 mm R, Ø 118 & 256mm F	Ø 134 mm R, Ø 62 & 134mm F
238.1500				x	x	Ø 250mm R	Ø 138mm R
238.1900			cyl				
239.7000	x	x	5.000"	x	x	Ø 100mm F	Ø 52mm F
240.6900	x	x	4.000"				
240.9400				xx	xx	Ø 116 & 118 mm R	Ø 56 & 62mm R
241.0700	x	x	5.00"				
241.3100	x	x	5.000"	x	x	Ø 182mm F	Ø 96mm F
242.0200	x		3.75"	x	x	Ø 120mm R	Ø 62mm R

242.1200				x		Ø 100mm R	
243.8500				x	xx	Ø 120mm F	Ø 60 mm F, Ø 78 mm F
244.0600				x	x	Ø 116mm R	Ø 62mm R
244.4700		x	2.500"				
244.6100				x	x	Ø 200mm F	Ø 330mm F
244.9000	x	x	5.00"	xx	xx	Ø 118 mm R, Ø 250 mm F	Ø 60 mm R, Ø 134 mm F
245.3200				x		Ø 306mm F	
246.6300				x		Ø 148mm R	
247.6500	x	x	5.00"	xx	x	Ø 252mm R & F	Ø 134mm F
248.1000	x	x	3.00"	x	x	Ø 148mm	Ø 148mm
249.0500	x	x	5.000"	xx		Ø 168 & 310mm R	
249.8800	x	x	4.00"	xx	x	Ø 150 mm R, Ø 180 mm F	Ø 78mm F
250.5300				x	x	Ø 120mm R	Ø 62mm R

250.5400	x	x	4.00"	x	x	Ø 224mm F	Ø 120mm F
250.7500	x	x	4.00"				
251.3600	x	x	4.00"				
252.1800	x	x	4.00"	xx	xx	Ø 120 mm R, Ø 152 mm F	Ø 55 mm R, Ø 78 mm F
252.9600	x	x	4.00"				
253.0000	x	x	3.25"				
253.9000	x	x	3.00"	xx	xx	Ø 120mm R & F	Ø 62 mm R, Ø 56 mm F
254.0000	x	x	4.00"				
254.6700	x	x	4.000"	x	x	Ø 158mm F	Ø 80mm F
255.2800	x	x	4.00"	xx	xx	Ø 118 mm R, Ø 150 mm F	Ø 62 mm R, Ø 78 mm F
255.7800	x	x	3.00"				
259.1000	x	x	4.00"	x	x	Ø 118mm F	Ø 114mm F
259.1500				x	x	Ø 226mm R	Ø 120mm R

259.5500	x	x	3.00"	xxx	xxx	Ø 116mm R, Ø 110 & 152 mm F	Ø 120mm R, Ø 110 & 150 mm F
260.2500	x	x	4.00"	xx	xxxx	Ø 118 mm 2 R	Ø 320mm 1 R, 158mm 2 R, Ø 80 mm
260.5500	x	x	4.000"				
261.4400	x	x	5.000"		x		Ø 228 mm
263.1300	x	x	3.00"	x	x	Ø 150mm R	Ø 152mm R
263.6500	x	x	3.00"	xx	xx	Ø 118mm R &F	Ø 120 mm R, Ø 122 mm F
265.0700	x	x	5.000"	xx	xx	Ø 150 mm R, Ø 118 mm F	Ø 154 mm R, Ø 122 mm F
266.0400	x	x	2.00"				
266.3000	x	x	5.00"	x	x	Ø 118mm F	Ø 120mm F
266.6800	x	x	3.00"	xx	xx	Ø 120 mm R, Ø 112 mm F	Ø 114mm R &F
266.6800	x		4.000"cyl				
268.9100	x	x	4.00"	x	x	Ø 152mm F	Ø 192mm F
268.9300	x	x	3.00"	x		Ø 150mm R	

269.2900	x	x	5.00"	x	xx	Ø 116mm R	Ø 112 mm R, Ø 180 mm F
270.1200	x		7.000"				
270.1500				x	x	Ø 310mm F	Ø 320mm F
271.0000	x	x	4.00"	xx	xx	Ø 118mm R &F	Ø 122 mm R, Ø 120 mm F
271.8100				x	x	Ø 204mm F	Ø 184mm F
271.8800	x	x	4.000"				
272.1200				x	x	Ø 200mm R	Ø 204mm R
272.4400	x	x	3.00"	xx	x	Ø 152mm R &F	Ø 112mm F
272.9300	x	x	5.00"				
273.0400	x	x	5.00"	x	x	Ø 112mm F	Ø 120mm F
273.8900	x	x	5.000"	x	x	Ø 152mm F	Ø 154mm F
274.0600				x	x	Ø 112mm F	Ø 112mm F
276.8100	x	x	5.00"				

277.2600	x	x	2.125"	xx	xx	Ø 112 & 206mm R	Ø 112 & 206mm R
277.8000	x	x	2.125"	xx	xxx	Ø 118mm R & F	Ø 122 mm R, Ø 120 mm F
279.4000				x		Ø 154mm R	
280.6700	x	x	1.25"	x	x	Ø 114mm F	Ø 112mm F
280.9700	x	x	2.250"	xxxx	xx	Ø 112 & 306 mm R, Ø 110 & 232 mm F	Ø 118 mm R, Ø 152 mm F
281.1500	x	x	5.000"				
281.1900				x	x	Ø 202mm F	Ø 206mm F
282.7000	x	x	5.000"	x	x	Ø 254mm F	Ø 262mm F
283.3300	x	x	5"	x	x	Ø 152mm F	Ø 154mm F
284.0000	x	x	2.00"				
284.7000	x	x	5.00"	xx	xx	Ø 120 mm R, Ø 118 mm F	Ø 120 mm R, Ø 116 mm F
285.0600	x	x	5.000"		x		Ø 180mm F
286.0800	x	x	2.625"	xxx	xxx	Ø 120 mm R, Ø 204 mm 2 F	Ø 120 mm R, Ø 112 & 210 mm F

286.9500	x	x	5.00"				
286.9700				x	x	Ø 114mm R	Ø 122mm R
288.2200	x	x	5.00"				
288.3100				xx	xx	Ø 118 mm R, Ø 150 mm F	Ø 120 mm R, Ø 154 mm F
288.4100					xx		Ø 234mm R & F
288.4900	x	x	5.00"	xx	xx	Ø 116 & 118mm F	Ø 120 & 122mm F
289.6300	x	x	5.00"	xx	x	Ø 254 mm R, Ø 252 mm F	Ø 260mm F
290.6300	x	x	3.00"	xx	xxx	Ø 118 mm R, Ø 110 mm F	Ø 118 & 320 mm R, Ø 112 mm F
291.9500	x	x	5.000"	xx	x	Ø 232 mm R, Ø 234 mm F	Ø 120mm F
293.8400	x	x	3.00"	xxx	xx	Ø 116 mm R, Ø 226 mm 2 F	Ø 120 mm R, Ø 60 mm F
297.9900				xx		Ø 112mm R &F	
298.1200	x	x	3.75"	xx	xx	Ø 116 mm R, Ø 118 mm F	Ø 116 mm R, Ø 112 mm F
300.0000					x		Ø 114mm F

300.2300	x	x	5.000"				
300.7500	x	x	5.000"				
300.8500				x	xxx	Ø 118mm F	Ø 204 mm R, Ø 122 & 206 mm F
301.0000					x		Ø 310mm R
301.0400					x		Ø 260mm R
301.0500	x	x	5.00"	x	x	Ø 152mm F	Ø 152mm F
302.9600	x	x	4.000"				
303.0000				xx	xx	Ø 120 & 150 mm R	Ø 122 & 310 mm R
303.9600	x	x	5.00"	xx	x	Ø 116 & 252 mm F	Ø 114mm F
304.8000	x	x	4.00"				
305.3000	x	x	5.000"				
305.7200	x	x	5.000"	xx	xx	Ø 118 mm R, Ø 150 mm F	Ø 120 mm R, Ø 152 mm F
306.9500	x	x	5.00"	xxxx	xx	Ø 118 mm R, Ø 120,154 & 204 mm F	Ø 120 mm R, Ø 118 mm F

307.0900	x	x	4.00"					
307.1900	x	x	4.00"					
307.9000	x	x	5.00"	x	xxx	Ø 150mm F	Ø 124 mm R, Ø 154 & 320 mm F	
310.2600	x	x	4.00"					
310.0800	x	x	3.00"	xx	xx	Ø 116 mm R, Ø 150 mm F	Ø 111 mm R, Ø 110 mm F	
310.8500	x	x	3.00"	x	x	Ø 112mm R	Ø 118mm R	
311.1500	x	x	5.00"	x	x	Ø 150mm F	Ø 152mm F	
311.7600	x	x	2.50"	xx	xxx	Ø 154 mm R, Ø 204 mm F	Ø 114 & 160 mm R, Ø 312 mm F	
315.5100	x	x	5.000"					
315.7000				x	xx	Ø 204mm R	Ø 208 mm R, Ø 206 mm F	
315.8200	x	x	5.00"	xx	xx	Ø 226 mm R, Ø 150 mm F	Ø 152 mm R & F	
316.7100	x	x	4.00"					
316.9600	x	x	5.000"		x		Ø 11.000"	

317.8600	x	x	3.00"	xxx	xx	Ø 120 mm R & F, Ø 228 mm F	Ø 120 mm R, Ø 122 mm F
319.0000	x	x	5.000"	xx		Ø 306 mm R & F	for setting small indicator
319.0500	x	x	5.000"	x	x	Ø 120 mm F	Ø 122 mm F
319.4100	x	x	4.00"				
320.7000	x	x	5.00"	x	x	Ø 410 mm F	Ø 122 mm F
321.6800	x	x	4.000"	x		Ø 118 mm F	
321.7900				xx		Ø 120 mm R, Ø 252 mm F	
322.5300	x	x	4.00"	x	xxx	Ø 112 mm F	Ø 120 mm R & F, Ø 262 mm F
323.5400				xx	xx	Ø 116 mm R, Ø 120 mm F	Ø 120 mm R, Ø 152 mm F
324.0600	x	x	5.00"	xxxx	x	Ø 200mm 2 R & 120 mm 1 R, Ø 284 mm F	Ø 120mm R
324.3600	x	x	4.00"				
325.9600	x	x	4.000"				
326.0100	x	x	5.00"	xxx	x	Ø 306 & 406 mm R, Ø 330 mm F	Ø 260 mm F

326.8000	x	x	5.00"	xx	xxx	Ø 118 mm R, Ø 152 mm F	Ø 122 & 260 mm R, Ø 120 mm F
329.2900	x	x	3.00"	xxx	xx	Ø 250 & 302 mm R, Ø 112 mm F	Ø 112 & 180 mm R,
330.2000	x	x	2.000"				
330.7700	x	x	5.00"	xxxx	x	Ø 310 mm R, Ø 150,178 & 308 mm F	Ø 110 mm R
332.4300	x	x	7.000"				
332.4600				x		Ø 306 mm R	
332.7800	x	x	5.00"		x		Ø 290 mm R
333.0800	x	x	5.00"	x	xxx	Ø 250 mm R	Ø 1 260 mm R & 2 290 mm R
334.9800	x	x	6.00"	xx	xx	Ø 250 mm R, Ø 276 mm F	Ø 294 mm R, Ø 290 mm F
336.4000	x	x	2.125"	xx	x	Ø 176mm R &F	Ø 112 mm F
336.8400	x	x	5.00"	x	xx	Ø 118 mm F	Ø 180mm R & Ø 112 mm F
338.5500	x	x	5.000"				
340.3000	x	x	5.00"	x	x	Ø 110 mm F	Ø 122 mm F

341.6000	x	x	5.00"				
341.8700	x	x	5.00"	xx	xx	Ø 122 mm R & F	Ø 122 mm R, Ø 118 mm F
344.2000	x	x					
345.3000	x	x	5.00"	xx	xx	Ø 120 mm R, Ø 116 mm F	Ø 122 mm R, Ø 120 mm F
346.0500	x	x					
346.1200	x	x	5.00"	xxx	xx	Ø 112 & 152 mm R, Ø 250 mm F	Ø 122 mm R, Ø 204 mm F
346.2000	x	x	2.50"				
347.0800	x	x	3.00"	xx	x	Ø 110 & 176 mm R	Ø 178 mm R
348.7900	x	x	4.00"				
349.0300	x	x	5.00"				
349.1360				x	x	Ø 160 mm R	Ø 154 mm R
350.0000				x		Ø 258 mm R	
350.3100	x	x	3.750"				

350.5500	x	x		xx	xx	Ø 202mm R &F	Ø 112 mm R, Ø 208 mm F
353.0000					x		Ø 332 mm R
353.1200	x	x	5.00"	xx	xx	Ø 120 mm R, Ø 122 mm F	Ø 120 mm R, Ø 122 mm F
354.5400	x	x	5.00"	x		Ø 120 & 202 mm R	
356.3100	xx	xx	2.000" & 5.000"				
357.5300	x	x	3.00"	xx	xx	Ø 120 mm R, Ø 118 mm F	Ø 110 & 204 mm F
359.3200	x	x	4.00"	xxx	xx	Ø 112 mm R, Ø 120 & 254 mm F	Ø 120 mm R, Ø 106 mm F
359.6600	x	x	4.000"				
360.4500	x	x	5.000"	x	x	Ø 118 mm F	Ø 126 mm F
362.6500	x	x	5.000"				
362.8000	x	x	4.00"	x	x	Ø 120 mm F	Ø 120 mm F
363.6500	x	x	5.00"				
363.0700					x		Ø 260 mm F

364.1100	x	x	4.00"	xxx	x	Ø 152 mm R, Ø 152 & 302 mm F	Ø 118 mm F
365.0500	x	x	3.00"	x	x	Ø 112 mm F	Ø 120 mm F
366.5300	x	x	5.00"				
366.7100	x	x	5.00"		x		Ø 286 mm F
366.7900					x		Ø 206 mm R
368.3000	x	x	4.00"	xx	xx	Ø 120 mm R & F	Ø 116 mm R, Ø 120 mm F
370.2600	x	x	4.00"				
370.3700				x		Ø 178 mm R	
370.5400	x	x	5.00"	x	x	Ø 120 mm R	Ø 120 mm R
371.3600				xx		Ø 122 mm R, Ø 202 mm F	
371.9100				x	x	Ø 114 mm F	Ø 112 mm F
374.1700	x	x	5.000"	x	x	Ø 206 mm R	Ø 206 mm R
374.6500		x	2.50"				

377.2400	x	x	3.00"	xx	xx	Ø 120 mm R & Ø 112 mm F	Ø 120 mm R & Ø 112 mm F
379.7100	x	x	5.000"				
379.7400	x	x					
381.1000	x	x	5"	x	x	Ø 120 mm F	Ø 120 mm F
383.2400	x	x	7.000"	xx	xx	Ø 250 mm R, Ø 282 mm F	Ø 258 mm R, Ø 284 mm F
384.5200	x	x	4.000"				
385.5600				xxx	x	Ø 112 & 120 mm R, Ø 150 mm F	Ø 152 mm F
387.0000				x	x	Ø 124 mm R	Ø 118 mm R
387.5600	x	x	4.00"				
389.1000	x	x	3.00"		xxx		Ø 208 mm 2 R & 1F
390.4300	x	x	3.00"	xx	xx	Ø 114 mm R, Ø 152 mm F	Ø 112 mm R, Ø 152 mm F
390.4400	x	x	3.000"				
394.3200				xx	xx	Ø 120 mm R, Ø 150 mm F	Ø 118 mm R, Ø 152 mm F

399.4800	x	x	5.00"	x	x	Ø 154 mm F	Ø 154 mm F
399.5000					x		Ø 158 mm R
400.5000	x	x	3.00"	x	xxx	Ø 152 mm F	Ø 112, 152 & 258 mm F
402.2200	x	x	3.00"	xx	xx	Ø 204mm R, Ø 112 mm F	Ø 112 mm R & F
404.5900	x	x	5.00"				
404.8200	x	x	4.00"	x		Ø 112 mm F	
406.1800	x	x	5.00"	x		Ø 310 mm F	
412.6400	x	x	4.00"				
412.6800	x	x	6.00"	x	xx	Ø 280mm F	Ø 278mm R, Ø 284 mm F
412.8000	x	x	4.00"	x	x	Ø 120 mm F	Ø 122 mm F
414.3000	x	x	4.000"	xx	xx	Ø 118 mm R & F	Ø 122mm R, Ø 120 mm F
415.8900	x	x	5.00"				
415.9800				xxx	xxx	Ø 120 & 178mm R, Ø 152 mm F	Ø 120 & 208mm R, Ø 152 mm F

420.7800	x	x	5.000"				
420.8300				xx	xx	Ø 112 & 228 mm F	Ø 120 & 230 mm F
421.7200	x	x	7.000"				
421.8400	x	x	3.000"				
421.8700	x	x	5.000"				
427.3600	x	x	4.00"				
428.6200	x	x	5.000"				
428.6800	x		5.000" cyl				
429.9600				x		Ø 408 mm F	
430.5700	x	x	5.000"				
432.6600	x	x	3.000"				
432.6800				xx	x	Ø 126mm R, Ø 118 mm F	Ø 112 mm F
434.9100	x	x	3.00"	x	x	Ø 112 mm F	Ø 112 mm F

436.6500	x	x	4.00"				
440.0000	x	x	2.500"	xxxxx	xx	Ø 120 & 300mm R, Ø 122,152 & 234mm F	Ø 118mm R, Ø 152 mm F
441.5200	x	xx	2.50", 5", & 5"	x	xx	Ø 254 mm F	Ø 118mm R, Ø 256 mm F
442.1800				x	xx	Ø 204 mm R	Ø 202 & 206 mm R
442.1900	x	x	5.000"				
443.6200	x	x	5.000"		x		Ø 178 mm
443.7000	x	x	4.000"				
443.8900	x	x	4.00"				
447.8300	x	x	5.00"				
449.5200	x	x	3.75"	x		Ø 202 mm R	
449.9000				xx	x	Ø 120mm R, Ø 112 mm F	Ø 118 mm F
455.8300	x	x	4.00"	xx	xx	Ø 152mm R, Ø 202 mm F	Ø 152mm R, Ø 206 mm F
456.5900	x	x	2.25"				

457.6100	x	x	2.50"					
459.1800						x		Ø 314mm F
459.3800	x	x	5.00"	x	x		Ø 120 mm F	Ø 122 mm F
462.9000	x	x	6.00"	x			Ø 114 mm F	
463.4000	x	x	5.00"					
463.5500				x			Ø 254 mm R	
463.6100	x	x	5.00"	xx	xx		Ø 112mm R, Ø 120 mm F	Ø 118mm R, Ø 120 mm F
464.7000	x	x	5.00"	x	xxxx		Ø 120 mm F	Ø 404mm R, Ø 114, 406 & 408 mm F
468.2000	x	x	4.00"					
468.4600						x		Ø 310 mm R
468.5300	x	x	5.00"	xx	xx		Ø 120mm R, Ø 176 mm F	Ø 120mm R, Ø 178 mm F
469.2600	x	x	3.00"		xx			Ø 178mm R & F
471.1800	x	x	5.000"	x	x		Ø 124 mm F	Ø 114 mm F

473.8200	x	x	5.00"				
473.9600				x		Ø 176 mm F	
475.3000	x	x	5.00"				
478.0500	x	x	3.00"	x	x	Ø 112 mm F	Ø 206 mm F
479.7600				x	x	Ø 268 mm R	Ø 268 mm R
479.8900	x	x	4.00"	x	xx	Ø 120 mm F	Ø 112mm R, Ø 122 mm F
481.6200	x	x	4.00"	xxx	xxxx	Ø 142mm R, Ø 120 & 308 mm F	Ø 118 & 310mm R, Ø 120 & 260 mm F
482.0500	x	x	4.00"	x	x	Ø 126 mm R	Ø 126 mm R
484.9900	x	x	5.00"	x	x	Ø 256 mm R	Ø 258 mm R
485.9700	x	x	5.00"				
487.8200	x	x	5.00"				
487.9100				xx	x	Ø 360mm R, Ø 122 mm F	Ø 118 mm F
488.2400	x	x					

488.4100				x	x	Ø 308 mm F	Ø 308 mm F
488.6600	x	x	4.00"				
488.9500		x	2.75"				
491.4600	x	x	5.00"				
493.0600	x	x	4.875"	xxx	xx	Ø 120mm R, Ø 122 & 300 mm F	Ø 120mm R, Ø 116 mm F
496.0000	x	x	5.00"	x	x	Ø 152 mm F	Ø 150 mm F
496.0100	x	x	5.00"				
498.4100	x	x	5.00"	x	xx	Ø 120 mm R	Ø 118mm R, Ø 222 mm F
499.6500	x	x	5.000"				
500.0000				x	xx	Ø 112 mm F	Ø 112mm R, Ø 122 mm F
500.5500	x	x	3.00"	x	x	Ø 110 mm R	Ø 118 mm R
501.5000	x	x	4.00"				
502.1600	x	x	2.00"				

502.7900	x	x	4.00"	xx	xx	Ø 114mm R, Ø 112 mm F	Ø 112mm R, Ø 120 mm F
504.7000				x	x	Ø 128 mm R	Ø 126 mm R
504.7300	x	x	5"	x	x	Ø 120 mm F	Ø 118 mm F
505.1240	x	x	3.00"				
506.3000	x	x	4.00"	x	x	Ø 152 mm F	Ø 152 mm F
508.0000				x		Ø 112 mm R	
508.2300	x	x	4.00"				
514.1600	x	x	6.00"	x	x		
516.6100	x	x	5.00"	x	x	Ø 204 mm F	Ø 204 mm F
518.4200	x	x	3.00"	xxx	x	Ø 114mm R, Ø 112 & 174 mm F	Ø 116 mm F
520.8500	x	x	5.00"	xx	x	Ø 256mm R, Ø 252 mm F	Ø 266 mm F
520.9800	x	x	4.00"				
522.1100	x	x	4.000"		x		Ø 406 mm

522.1500	x							
530.0900	x	x	5.000"	xx	xxx	Ø 114mm R & F	Ø 114mm R & F Ø 304 mm	
532.7650	x	x	3"(cc) 4" (cx)					
535.9200	x	x	2.00"	xx	xx	Ø 176mm R, Ø 175 mm F	Ø 112mm R, Ø 122 mm F	
538.3400	x	x	5.000	x	x	Ø 178 mm F	Ø 178 mm F	
540.4500	x	x	5.00"	xx	x	Ø 152mm R, Ø 202 mm F	Ø 204 mm F	
540.5000				x		Ø 252 mm F		
541.0700	x	x	2.00"					
541.5100	x	x	4.000"					
542.4600	x	x	5.00"	x	x	Ø 202 mm F	Ø 204 mm F	
545.8100	x	x	5.00"					
546.7000				x	x	Ø 126 mm F	Ø 125 mm F	
547.6000	x	x	2.50"					

548.8900	x	x	5.00"	x	x	Ø 120 mm F	Ø 120 mm F
549.9800	x	x	5.00"	x	x	Ø 254 mm F	Ø 254 mm F
550.0000				x	x	Ø 116 mm F	Ø 125 mm F
552.9000	x	x	5.00"				
554.4500					x		Ø 418 mm R
557.3900				x		Ø 110 mm R	
557.9200	x	x	5.000"	xx	xx	Ø 114 & 179 mm	Ø 114 & 179 mm
558.0200	x	x	3.000" & 2.000"	x	x	Ø 120 mm F	Ø 176 mm F
558.9500	x	x	3.750"	x		Ø 176 mm R	
559.9400	x	x	5.000"	x	x	Ø 150 mm F	Ø 152 mm F
561.6800	x	x	3.000"	xx	xx	Ø 114mm R, Ø 120 mm F	Ø 118 mm R & F
564.8000	x		3.000"	xx	x	Ø 200mm R, Ø 202 mm F	Ø 112 mm R
570.3200	x	x	3.000"	xx	xx	Ø 112mm R, Ø 152 mm F	Ø 114mm R, Ø 118 mm F

570.8000	x	x	5.000"				
572.8000	x	x	5.000"	x		Ø 255 mm F	
575.8200	x	x	3.00"				
576.3000	x	x	4.000"				
578.3000					x		Ø 176 mm R
581.3600	x	x	4.000"	xxxx	xx	Ø124, 152 & 304mm R, Ø 150 mm F	Ø 118 mm R & F
582.1700	x	x	4.00"	xx	x	Ø 104mm R, Ø 152 mm F	Ø 152 mm F
584.4500	x	x	5.000"		xx		Ø 192 & 308 mm F
585.8900	x	x	3.000"	xxx	x	Ø 120mm R, Ø 120 & 252 mm F	Ø 120 mm F
591.2800	x	x	5.000"				
592.0000	x	x	5.000"	xx	xx	Ø 120mm R, Ø 114 mm F	Ø 120 mm R & F
593.0000	x	x	5.00"				
597.6400	x	x	2.500"				

598.2200	x	x	5.00"	x	x	Ø 126 mm F	Ø 126 mm F
599.0000	x	x	5.000"	x	x	Ø 152 mm	Ø 203 mm
601.1500	x	x	5.00"	xx	x	Ø 202mm R, Ø 122 mm F	Ø 112 mm F
602.5700	x	x	5.00"	x	x	Ø 122 mm F	Ø 120 mm F
602.9300	x	x	5.000"				
603.1500	x	x	5.000"				
605.7100		x	2.500"				
607.8200	x	x	4.000"				
608.0200	x	x	4.00"	xx	xx	Ø 122mm R, Ø 120 mm F	Ø 120mm R & F
609.3100	x	x	4.00"	xx	xx	Ø 122 mm R & F	Ø 152 mm R & F
610.9400	x	x	5.000"				
613.3200	x	x	5.00"	x		Ø 226 mm F	
615.6200	x	x	4.00"	xx	xx	Ø 122 mm R & F	Ø 120 mm R & F

616.4800	x	x	5.00"	x	x	Ø 122 mm R	Ø 118 mm R
616.5100				x		Ø 176 mm F	
621.6900	x	x	5.000"	x	x	Ø 114 mm F	Ø 114 mm F
625.6000	x	x	5.000"	x	x	Ø 252 mm F	Ø 254 mm F
626.0300				x	x	Ø 176 mm R	Ø 178 mm R
627.7200	x	x	5.00"	xx	xx	Ø 122 mm R & F	Ø 116mm R, Ø 122 mm F
630.9700	x	x	3.00"	x	x	Ø 112 mm F	Ø 114 mm F
635.3600	x	x	4.00"	x	x	Ø 114 mm F	Ø 118 mm F
635.9300	x	x	5.00"				
636.7000	x	x	2.125"				
640.0000	x	x	3.00"	x		Ø 204 mm R	
647.4700	x	x	3.00"				
649.4000	x	x	5.00"				

649.4100	x	x	5.000"				
652.0500	x	x	5.000"				
653.8300	x	x	5.000"	x	x	Ø 152 mm R	Ø 152 mm R
654.7400	x	x	5.00"				
655.3200	x	x	4.00"				
655.7000	x	x	3.000"	xx	xx	Ø 122 mm R & F	Ø 120mm R, Ø 116 mm F
657.6000	x	x	5.000"	x	x	Ø 408 mm F	Ø 120 mm F
658.1300	x	x	5.000"		x		Ø 279 mm F
659.7900	x	x	5.000"				
661.8100	x	x	5.00"	x		Ø 254 mm F	
661.8200	x	x	5.000"	xx		Ø 252 mm R, Ø 408 mm F	
663.3000	x	x	3.875"	x	x	Ø 126 mm F	Ø 126 mm F
664.7000	x	x	2.500"		x		Ø 152 mm F

666.5500	x	x	5.00"				
666.6500				x		Ø 254 mm F	
614.2600	x	x	5.000"				
674.3900	x	x	5.00"	xx	xx	Ø 120mm R, Ø 178 mm F	Ø 120mm R, Ø 118 mm F
675.4400	x	x	2.50"				
677.2300	x	x	5.000"				
677.2700				x	x	Ø 254 mm R	Ø 254 mm R
683.9000				x	x	Ø 202 mm R	Ø 202 mm R
683.9600				xxx	xxx	Ø 120 & 152mm R, Ø 120 mm F	Ø 118 & 150mm R, Ø 118 mm F
689.4200	x	x	5.000"				
689.7500	x	x	5.00"	xx	xx	Ø 122 mm R & F	Ø 118 mm R & F
695.0100				x		Ø 458 mm F	
697.0600	x	x	6.00"	x		Ø 256 mm F	

697.4800	x	x	5.00"	x	x	Ø 202 mm F	Ø 202 mm F
700.0000				x	x	Ø 114 mm R	Ø 112 mm R
700.2500	x	x	3.75"	x	x	Ø 120 mm F	Ø 118 mm F
701.7100	x	x	5.00"	x		Ø 260 mm F	
703.1200	x	x	4.00"	xx		Ø 112 & 202 mm R	
703.3200				x		Ø 408 mm F	
706.1500	x	x	4.000"				
707.3400	x	x	4.00"	xx	xx	Ø 122 mm R & F	Ø 112mm R, Ø 118 mm F
710.1500	x	x	3.00"	x	xx	Ø 114 mm F	Ø 122mm R, Ø 180 mm F
711.2000	x	x	4.00"				
720.3800	x	x	5.000	xx	xx	Ø 152mm R, Ø 118 mm F	Ø 122mm R, Ø 112 mm F
720.5700	x	x	4.00"				
730.7200	x	x	4.00"	xx	x	Ø 152mm R, Ø 122 mm F	Ø 120 mm F

733.9100				x	x	Ø 226 mm F	Ø 228 mm F
734.0200	x	x	5.000"			5.000"	
738.5600	x	x	2.50"				
742.7500	x		4.00"				
747.600"	x	x	5.000"				
764.6000	x	x	3.00"	x	x	Ø 252 mm F	Ø 254 mm F
765.5500	x	x	3.00" & 3.75"				
769.2000	x	x	5.00"	xx	xx	Ø 122mm R, Ø 176 mm F	Ø 122mm R, Ø 178 mm F
769.2300				x	x	Ø 120 mm F	Ø 118 mm F
772.8000				x		Ø 152 mm R	
776.2800	x	x	5.000"				
779.5700	x	x	5.00"	xx	xxx	Ø 122mm R, Ø 202 mm F	Ø 120mm R, Ø 202 & 204 mm F
789.1800	x	x	5.00"		x		Ø 204 mm F

789.8890	x	x	needs work	x	x	Ø 112 mm R	Ø 118 mm F
790.3300	x	x	4.000"				
790.6500					x		Ø 308 mm R
797.7000	x	x	5.00"				
800.2500	x	x	5.000"				
805.2700	x	x	4.00"	x	x	Ø 112 mm F	Ø 118 mm F
825.2500	x	x	4.00"	xxxx	x	Ø 152mm R, Ø 152,230 & 302mm F	Ø 120 mm R
827.5300	x	x	5.000"	xx	xx	Ø 228 mm R & F	Ø 228 mmR & F
830.8000	x	x	5.00"				
830.9400	x	x	2.125"				
848.5600	x	x	5.000"		xxx		Ø 280mm, Ø 305 & 406 mm
852.6000				x	x	Ø 224 mm R	Ø 266 mm R
859.9500	x	x	3.00"				

860.1400				xxxx	x	Ø 120 & 204mm R, Ø 204 & 298mm F	Ø 118 mm R
860.6000				x		Ø 114 mm R	
870.3600				x	x	Ø 304 mm F	Ø 302 mm F
873.6100	x	x	3.00"	xx	xx	Ø 122mm R, Ø 118 mm F	Ø 118 mm R & F
876.1200					xx		Ø 254 mm R & F
879.8300	x	x	5.000"				
879.9500	x	x	5.00"	x		Ø 120 mm F	
885.0700	x	x	4.00"	xxx	xx	Ø 122mm R, Ø 120 & 152 mm F	Ø 118mm R, Ø 112 mm F
886.2500	x	x	5.00"	xxx	xxx	Ø 202mm R, Ø 304 & 338 mm F	Ø 410mm R, Ø 356 & 410 mm F
886.5200				x	x	Ø 202 mm R	Ø 202 mm R
899.5300					xx		Ø 384 & 410 mm F
899.5700	x	x	5.00"	x	x	Ø 122 mm F	Ø 114 mm F
901.3700					x		Ø 302 mm R

902.7800	x	x	2.625"		x		Ø 112 mm F
905.4700					x	Ø 404 mm R	
909.2200	x	x					
909.4300	x	x	5.000"	x	xx	Ø 228 mm F	Ø 226mm R, Ø 228 mm F
916.8800	x	x	3.00"	x	xx	Ø 110 mm R	Ø 112 & 118mm R,
919.9300	x	x	5.000"				
920.1200	x	x	4.000"		xx		Ø 152mm R & F
927.3000				x	x	Ø 120 mm R	Ø 122 mm R
928.5200	x	x	5.000"				
932.5000	x	x	5.000"				
936.6000	x	x	5.000"	x	x	Ø 358 mm R	Ø 360 mm R
943.1000	x	x	5.000"				
943.3300				x	xx	Ø 226 mm R	Ø 114mm R, Ø 228 mm F

946.9000	x	x	5.000"				
948.0300	x	x	5.000"	x	x	Ø 202 mm F	Ø 202 mm F
950.2000	x	x	5.000"				
957.4800	x	x	3.000"	x	x	Ø 112 mm F	Ø 118 mm F
961.5000					x		Ø 202 mm R
966.4800	x	x	4.000"	xxxx	xxx	Ø 122mm R, Ø 114,200 & 230mm F	Ø 122mm R, Ø 114 & 200 mm F
970.9600					x		Ø 228 mm R
979.8700	x	x	5.000"	x	x	Ø 202 mm F	Ø 204 mm F
980.0000				x		Ø 110 mm R	
982.6000	x	x	4.000"				
989.0800	x	x	2.25"				
989.2000	x	x	5.000"	x	xx	Ø 202 mm F	Ø 256mm R, Ø 252 mm F
990.7000	x	x	5.000"		x		Ø 202 mm F

992.2800				x	x	Ø 152 mm F	Ø 152 mm F
992.3200	x	x	5.00"				
996.1200	x	x	5.000"	x	x	Ø 120 mm F	Ø 118mm F
997.0800				x		Ø 112mm R	
1000.0000	x	x	5.000"		x		Ø 152mm R
1001.7000	x	x	3.000" cc ugly	x	x	Ø 112mm R	Ø 112mm R
1003.7000	x	x	6.000" not finished				
1015.7000		x		xx	xx	Ø 118mm R & F	Ø 112mm R, Ø 116 mm F
1020.8000	x	x	4.000" cx not polished	x		Ø 120mm R	
1021.0000	x	x	3.000" & 4.000"	xx	xx	Ø 174 & 302 mm F	Ø 118 & 124 mm F
1026.4400	x		4.000"	x		Ø 152mm F	
1027.9100	x	x	3.000"	x	x	Ø 202mm F	Ø 112mm F
1037.0100	x	x	5.000"	x		Ø 120mm F	

1041.4200	x	x	1.500"				
1041.4300	x	x	1.50"				
1043.4300	x	x	5.00"				
1049.8500	x	x	5.00"				
1060.1200	x	x	3.000"				
1089.7100	x	x	4.000"	xx	xx	Ø 120mm R & F	Ø 118mm R & F
1110.4000	x	x	5.000"				
1116.3800	x	x	5.000"				
1116.7000				xx	xx	Ø 120mm R, Ø 152 mm F	Ø 116mm R, Ø 152 mm F
1138.8600	x	x	5.000"	x	xx	Ø 252mm F	Ø 200mm R, Ø 256 mm F
1141.8900	x	x	5.000"	x	x	Ø 306mm F	Ø 302mm F
1146.0900	x	x	4.000"	xx	x	Ø 122mm R, Ø 120 mm F	Ø 118mm F
1158.6000	x	x	5.000"	xx	xx	Ø 122mm R & F	Ø 120mm R, Ø 204 mm F

1060.1000	x	x	3.000"		x		Ø 114 mm F
1162.2700	x	x	5.000"				
1163.0300	x	x	5.000"				
1163.8800	x	x					
1179.0000	x	x	2.000" & 6.00"				
1179.9600	x	x	4.00"				
1188.6900	x	x	5.000"				
1198.0900	x	x	4.000" & 7.000"	x		Ø 228mm F	
1211.5200	x	x	5.000"				
1212.2700				x	x	Ø 252mm F	Ø 252mm F
1219.2000	x	x	4.00"				
1220.4000	x	x	5.000"				
1221.3000	x	x	4.000"				

1222.5300	x	x	5.00"		xx		Ø 404mm R, Ø 408 mm F
1233.2400	x	x	4.00"				
1245.2830	x	x	5.00"				
1247.2300	x	x	5.00"				
1251.7100	x	x	6.00"				
1254.5200	x	x	5.00"	xx	xx	Ø 120 & 226 mm R	Ø 120 & 228mm R
1259.8000	x	x	5.00"				
1260.5100				x		Ø 382 mm F	
1264.8000	xx	x	5.00", cyl (cc)	x	xx	Ø 120 mm F	Ø 116 & 408 mm F
1283.8000	x	x	3.75"		xx		Ø 112 mm R & F
1298.6900					x		Ø 410 mm R
1299.0000				xx	x	Ø 118mm R, Ø 202 mm F	Ø 208 mm F
1310.6400				xx		Ø 204 & 206 mm R	

1324.6700	x	x	6.00"		xx		Ø 254 mm R & F
1330.5000	x	x	4.00"	x	xx	Ø 120 mm F	Ø 152 mm R & F
1342.7000	x	x	5.00"	x	x	Ø 202 mm F	Ø 200 mm F
1352.3000	x	x	4.00"	x	x	Ø 202 mm F	Ø 202 mm F
1360.5500	x	x	4.00"				
1370.0000	x	x	4.00"	x	x	Ø 202 mm R	Ø 202 mm F
1390.1300	x	x	6.00"				
1393.7000	x	x	5.000"				
1400.8000	x	x	6.00"				
1407.2000	x	x	4.00"	x		Ø 116 mm R	
1415.4600	x	x	4.00"				
1416.2000	xx	xx	4.00"				
1418.0000	x	x	5.000"				

1430.8500				x		Ø 178 mm F	
1432.0000	x	x	5.000"		x		Ø 382 mm F
1433.3700					x		Ø 380 mm F
1445.0000	x	x	5.000"	x	x	Ø 202 mm R	Ø 202 mm R
1449.7600	x	x	2.25"				
1450.3400	x	x	3.00"				
1470.3000	x	x	4.000"	x	xx	Ø 112 mm F	Ø 112 mm F
1480.0000				x		Ø 118 mm R	
1481.7500	x	x	4.000"				
1483.5400				x		Ø 176 mm R	
1483.9000	x	x	5.000"				
1485.9000					x		Ø 120 mm R
1488.0000	x		4.000"	x	x	Ø 202 mm F	Ø 202 mm F

1498.7000	x	x	4.000"				
1499.0000	x	x	5.000"				
1500.0000	x		4.000"	x	x	Ø 114 mm R	Ø 110 mm R
1523.5000	x	x					
1524.5500				x		Ø 202 mm F	
1551.7400	x	x	4.000"				
1555.2000				x	x	Ø 112 mm F	Ø 112 mm F
1568.1300	x	x	5.00"				
1570.0000				x	x	Ø 228 mm R	Ø 252 mm R
1585.9680	x	x	6.00"				
1631.4800	x	x	4.000"	x	x	Ø 120 mm F	Ø 114 mm F
1631.5100	x	x					
1646.2000					x		Ø 150 mm R

1646.3600	x	x	5.00"	x	x	Ø 150 mm F	
1669.0200					x		Ø 458 mm R
1686.5600	x	x	4.000"				
1688.2000	xx	xx	4.000"				
1767.0800	x	x	4.000"	xx	xx	Ø 120 mm R, Ø 152 mm F	Ø 122 mm R, Ø 152 mm F
1784.0700	x	x	5.00"	x	x	Ø 114 mm F	Ø 120 mm F
1784.1500	x	x	5.000"				
1790.2000	x	x	6.000"		xx		Ø 252 mm R, Ø 254 mm F
1799.8000	x	x	5.00"				
1819.4800	x	x	4.00"				
1830.7700	x	x	5.000"				
1831.0000					x		Ø 308 mm R
1883.1500	x	x	5.00"				

1907.7700	x	x	3.00"				
1913.5000	x	x	5.000"	x	x	Ø 150 mm F	Ø 150 mm F
1927.4700	x	x	5.00"				
1932.6500	x	x	5.00"	x		Ø 228 mm R	
1964.3300	x	x	5.00"				
2000.0000	x	x	2.625" & 3.75"	x	xx	Ø 112 mm F	Ø 258 mm R, Ø 310 mm F
2006.0000							
2013.9200							
2022.6000	x	x	5.00"				
2023.7500	x	x	5.000"				
2031.0000	x	x	5.00"		x		Ø 220 mm R
2032.0000					xx		Ø 156 & 408 mm R
2039.9000	x	x	5.000"				

2040.0000	x	x	5.00"	xx	x	Ø 122 & 306 mm R	Ø 112 mm F
2061.7800				x	x	Ø 306 mm R	Ø 308 mm R
2062.1000	x	x	5.000"				
2082.8000		x	2.50"				
2108.4000	x	x	4.00"				
2120.0000					x		Ø 278 mm R
2150.5500	x	x	5.000"				
2151.0000	x	x	5.00"	xx	xx	Ø 120 mm R & F	Ø 116 mm R, Ø 120 mm F
2169.5000	x	x	5.000"				
2193.0900	x	x	4.00"				
2205.8600				x	x	Ø 112 mm F	Ø 112 mm F
2250.0000	x	x	5.00"	xxxx	x	Ø 252 & 254 mm R, Ø 152 & 408 mm F	Ø 408 mm F
2297.0000	x	x	5.00"				

2307.5000	x	x	5.00"	xxx	x	Ø 308 mm R, Ø 122 & 150 mm F	Ø 112 mm F
2309.0000				x	x	Ø 152 mm F	Ø 152 mm F
2384.4500	x	x	5.00"				
2385.4000				xx	x	Ø 254 mm 2 R	Ø 254 mm R
2442.2000	x	x	5.000"	xx	xx	Ø 152 mm R & F	Ø 152 mm R & F
2450.1500	x	x	4.00"				
2450.1600	x	x	4.000"				
2460.0000	x		4.00"				
2504.1100				x		Ø 152 mm R	
2511.5000	x	x	5.00"	xx	x	Ø 114 & 306 mm R	Ø 114 mm R
2534.0000					x		Ø 228 mm R
2587.2400					x		Ø 252 mm R
2589.5000	x	x	5.00"	x	x	Ø 152 mm F	Ø 152 mm F

2616.2000	x	x	4.00"				
2700.0800	x	x	3.00"	x	x	Ø 122 mm F	Ø 110 mm F
2755.6000				xx	xx	Ø 226 mm R, Ø 264 mm F	Ø 226 mm R, Ø 264 mm F
2779.0000		x	6.000"				
2820.0100				x	x	Ø122 mm F	Ø 122 mm R
2823.1000	x	x	5.00"				
2830.5000				x	x	Ø306 mm F	Ø 278 mm R
2830.5700	x	x	6.000"	x		Ø 152 mm R	
2851.1500	x	x	5.000"	x		Ø 304 mm F	
2887.7000	x	x	6.000"	x		Ø 304 mm	
2920.9700	x	x	5.00"				
3000.0000	x	x	3.75"	xxx	xxx	Ø 110 mm R, Ø 114 & 204 mm F	Ø 120 mm R, Ø 120 & 204 mm F
3150.0000				x	x	Ø 356 mm F	Ø 152 mm F

3151.8500	x	x	5.00"				
3197.1000	x	x	5.00"				
3200.4000	xx	xx	4.00"				
3237.9900	xx	xx	3.00" & 2.50"	xx	x	Ø 76 mm R, Ø 118 mm F	Ø 118 mm F
3252.6000	xx	xx	4.00"				
3303.0900	x	x	5.00"				
3564.5000	x	x	5.00"	x	xx	Ø 152 mm F	
3704.2000	x	x	5.00"				
3750.0000	x	x	5.000	x	x	Ø 202 mm R	Ø 218 mm R
3782.0000	x	x	3.00"				
3902.4500	x	x	5.000"				
3934.8300	x	x	5.00"				
3961.0000				x	x	Ø 114 mm F	Ø 114 mm F

3970.0000	x	x	5.00"	x		Ø 254 mm F	
3973.7700	x	x	7.00"				
3975.0000				x		Ø 306 mm F	
3985.8500	x	x	5.00"				
4065.4000	x	x	5.00"	x	x	Ø 202 mm F	Ø 202 mm F
4068.6000					x		Ø 202 mm R
4129.7900	x	x	5.000"				
4214.5000	x	x	5.00"				
4267.2000	x	x	4.00"				
4317.4900				x	x	Ø 126 mm F	Ø 126 mm F
4482.9900				x	x	Ø 300 mm F	Ø 300 mm F
4549.1400	x	x	4.00"				
4553.0000	x	x	6.00"				

4572.0000				x	x	Ø 204 mm F	Ø 202 mm F
5000.0000	x	x	3.00"				
5121.0000	x	x	3.000"				
5168.0000			5.000"	x		Ø 202 mm F	
5342.0000	x	x	5.000"				
5437.8800					x		Ø 410 mm F
5655.0000	x	x	5.00"	xx	xx	Ø 120 mm R & F	Ø 118 mm R & F
6000.0000	x	x	5.000"	x	x	Ø 114 mm F	Ø 114 mm F
6184.9000	x	x	3.75"	xx	x	Ø 306 mm R, Ø 120 mm F	Ø 120 mm F
6451.6000	x	x	4.00"				
6527.0000					x		Ø 306 mm R
6780.0000	x	x	3.00"				
7123.5700	x	x	4.00"	xx	x	Ø 114 & 126 mm F	Ø 126 mm F

8134.0000	x	x	5.00"	x	x	Ø 202 mm F	Ø 202 mm F
8204.2000	x	x	3.00"				
8773.0000	x	x	6.000"		x		Ø 410 mm F
9134.4700	x	x	6.00"				
9930.0000	x	x	6.000" & 7.000"				
9998.0000	x	x	3.75"				
10000.0000				x		Ø 126 mm R	
10223.0000	x	x	3.00"				
11307.3000				x	x	Ø 152 mm F	Ø 120 mm F
11872.4500	x	x	6.000"	x	xx	Ø 120 mm F	Ø 116 & 304 mm F
12877.8000		x	4.00"				
31305.8400					x		Ø 410 mm F
100000.0000	x	x	5.000"				

