



MAXIMUM OPERATING CONDITIONS		
Temp C	Pressure	Speed
-30	3000 PSI	1.5ft/sec
+100	200 BAR	0.5m/sec

LEAD IN CHAMFERS	
ϕD	f
0-60	4
60-120	5
120-180	6
180-250	8
250-400	10

METRIC	H11 >120 H10	Js11 >120 Js10	+0.4 +0.6	+0.1 - 0	MAX
Part No.	ϕD	ϕd	L	ϕdg	R_1
MD 17-10-6.3-P	17	10	6.3	10.2	0.2
MD 19-12-5.8-P	19	12	5.8	12.2	0.2
MD 19-12-6.3-P	19	12	6.3	12.2	0.2
MD 20-12-6.3-P	20	12	6.3	12.2	0.2
MD 20-12-.7-P	20	12	7	12.2	0.2
MD 22-14-6-P	22	14	6	14.2	0.2
MD 22-14-6.5-P	22	14	6.5	14.2	0.2
MD 23-15-5.8-P	23	15	5.8	15.2	0.2
MD 23-15-6.5-P	23	15	6.5	15.2	0.2
MD 24-14-6.5-P	24	14	6.5	14.2	0.4
MD 24-16-5.9-P	24	16	5.9	16.2	0.2
MD 24-16-6.5-P	24	16	6.5	16.2	0.2
MD 24-18-4.7-P	24	18	4.7	18.2	0.2
MD 24-18-5-P	24	18	5	18.2	0.2
MD 25-12-9.5-P	25	12	9.5	12.2	0.4
MD 25-12-10-P	25	12	10	12.2	0.4
MD 25-15-7.5-P	25	15	7.5	15.2	0.4
MD 25-18-7-P	25	18	7	18.2	0.2
MD 26-16-7.5-P	26	16	7.5	16.2	0.4
MD 26-18-6.5-P	26	18	6.5	18.2	0.2
MD 27-15-6.5-P	27	15	6.5	15.2	0.4
MD 27-20-6-P	27	20	6	20.2	0.2
MD 28-18-5.8-P	28	18	5.8	18.2	0.4
MD 28-20-5.8-P	28	20	5.8	20.2	0.2
MD 28-20-6.5-P	28	20	6.5	20.2	0.2
MD 30-20-8-P	30	20	8	20.2	0.4
MD 30-22-6.5-P	30	22	6.5	22.2	0.2
MD 32-16-8-P	32	16	8	16.2	0.8
MD 32-20-10-P	32	20	10	20.2	0.4
MD 32-22-6-P	32	22	6	22.2	0.4
MD 32-24-7-P	32	24	7	24.2	0.2

MD 32-25-6-P	32	25	6	25.2	0.2
MD 33-25-6-P	33	25	6	25.2	0.2
MD 34-24-6-P	34	24	6	24.2	0.4
MD 35-20-11-P	35	20	11	20.2	0.8
MD 35-25-8.5-P	35	25	8.5	25.2	0.4
MD 35-25-10-P	35	25	10	25.2	0.4
MD 35-27-6-P	35	27	6	27.2	0.2
MD 36-24-7.8-P	36	24	7.8	24.2	0.4
MD 36-28-6-P	36	28	6	28.2	0.2
MD 37.5-30-6-P	37.5	30	6	30.2	0.2
MD 38-28-7.5-P	38	28	7.5	28.2	0.4
MD 38-30-6-P	38	30	6	30.2	0.2
MD 38-30-7-P	38	30	7	30.2	0.2
MD 38-30-8.5-P	38	30	8.5	30.2	0.2
MD 40-25-11.5-P	40	25	11.5	25.2	0.2
MD 40-26-9.5-P	40	26	9.5	26.2	0.4
MD 40-30-7-P	40	30	7	30.2	0.4
MD 40-32-5.5-P	40	32	5.5	32.2	0.2
MD 40-32-6-P	40	32	6	32.2	0.2
MD 43-35-6-P	43	35	6	35.2	0.2
MD 43-36-6-P	43	36	6	36.2	0.2
MD 44-25-12-P	44	25	12	25.2	0.8
MD 44-32-11.5-P	44	32	11.5	32.2	0.4
MD 44-36-6-P	44	36	6	36.2	0.2
MD 44-38-5-P	44	38	5	38.2	0.2
MD 44.80-30.9-9-P	44.8	30.9	9	31.1	0.4
MD 45-30-11-P	45	30	11	30.2	0.4
MD 45-35-7.5-P	45	35	7.5	35.2	0.4
MD 45-35-13-P	45	35	13	35.2	0.4
MD 48-40-6-P	48	40	6	40.2	0.2
MD 48-40-8-P	48	40	8	40.2	0.2
MD 50-35-12-P	50	35	12	35.2	0.8
MD 50-38-9-P	50	38	9	38.2	0.4
MD 50-38-9.5-P	50	38	9.5	38.2	0.4
MD 50-40-6-P	50	40	6	40.2	0.4
MD 50-40-7.5-P	50	40	7.5	40.2	0.4
MD 50-40-10.5-P	50	40	10.5	40.2	0.4
MD 50-40-13-P	50	40	13	40.2	0.4
MD 50-42-6-P	50	42	6	42.2	0.2
MD 51-36-11-P	51	36	11	36.2	0.2
MD 53-43-8.5-P	53	43	8.5	43.2	0.4
MD 53-45-6-P	53	45	6	45.2	0.2
MD 54-46-7.5-P	54	46	7.5	46.2	0.2
MD 55-40-7.5-P	55	40	7.5	40.2	0.8
MD 55-40-11-P	55	40	11	40.2	0.8
MD 55-45-6-P	55	45	6	45.2	0.4
MD 55-45-7.5-P	55	45	7.5	45.2	0.4
MD 55-45-10.5-P	55	45	10.5	45.2	0.4
MD 56-46-7.5-P	56	46	7.5	46.2	0.4
MD 60-40-10-P	60	40	10	40.2	0.8
MD 60-40-14-P	60	40	14	40.2	0.8
MD 60-45-11-P	60	45	11	45.2	0.8

MD 60-48-6.5-P	60	48	6.5	48.2	0.4
MD 60-50-6-P	60	50	6	50.2	0.4
MD 60-50-7.5-P	60	50	7.5	50.2	0.4
MD 60-50-9.5-P	60	50	9.5	50.2	0.4
MD 60-50-14-P	60	50	14	50.2	0.4
MD 62-50-9-P	62	50	9	50.2	0.4
MD 62-50-9.5-P	62	50	9.5	50.2	0.4
MD 65-45-14-P	65	45	14	45.2	0.8
MD 65-50-10.5-P	65	50	10.5	50.2	0.8
MD 65-50-11-P	65	50	11	50.2	0.8
MD 65-55-7.5-P	65	55	7.5	55.2	0.4
MD 66-50-12-P	66	50	12	50.2	0.4
MD 66-56-7.5-P	66	56	7.5	56.2	0.4
MD 69.5-60-6.5-P	69.5	60	6.5	60.2	0.4
MD 70-50-14-P	70	50	14	50.2	0.8
MD 70-55-10-P	70	55	10	55.2	0.8
MD 70-60-6-P	70	60	6	60.2	0.4
MD 70-60-7.5-P	70	60	7.5	60.2	0.4
MD 70-60-9-P	70	60	9	60.2	0.4
MD 70-60-12.5-P	70	60	12.5	60.2	0.4
MD 72-60-9.5-P	72	60	9.5	60.2	0.4
MD 75-55-14-P	75	55	14	55.2	0.8
MD 75-63-7.5-P	75	63	7.5	63.2	0.4
MD 75-63-9-P	75	63	9	63.2	0.4
MD 75-65-6-P	75	65	6	65.2	0.4
MD 77-65-9-P	77	65	9	65.2	0.4
MD 77-65-9.1-P	77	65	9.1	65.2	0.4
MD 80-50-25-P	80	50	25	50.2	0.8
MD 80-60-14-P	80	60	14	60.2	0.8
MD 80-65-11-P	80	65	11	65.2	0.8
MD 80-70-7.5-P	80	70	7.5	70.2	0.4
MD 82-70-9-P	82	70	9	70.2	0.4
MD 83-75-6-P	83	75	6	75.2	0.2
MD 84-70-12-P	84	70	12	70.2	0.4
MD 85-65-14-P	85	65	14	65.2	0.8
MD 85-70-9.5-P	85	70	9.5	70.2	0.8
MD 85-70-11.5-P	85	70	11.5	70.2	0.8
MD 85-75-7.5-P	85	75	7.5	75.2	0.4
MD 90-70-14-P	90	70	14	70.2	0.8
MD 90-78-12-P	90	78	12	78.2	0.4
MD 90-80-7.5-P	90	80	7.5	80.2	0.4
MD 91-81-7.5-P	91	81	7.5	81.2	0.4
MD 92-80-9-P	92	80	9	80.2	0.4
MD 95-65-17-P	95	65	17	65.2	0.8
MD 95-80-12.5-P	95	80	12.5	80.2	0.4
MD 95-85-7.5-P	95	85	7.5	85.2	0.4
MD 96-80-10-P	96	80	10	80.2	0.8
MD 96-88-7.5-P	96	88	7.5	88.2	0.2
MD 97-85-9-P	97	85	9	85.2	0.4
MD 100-80-14-P	100	80	14	80.2	0.8

MD 100-90-10-P	100	90	10	90.2	0.4
MD 102-90-9-P	102	90	9	90.2	0.4
MD 105-90-9-P	105	90	9	90.2	0.8
MD 107-95-12-P	107	95	12	95.2	0.4
MD 110-90-20-P	110	90	20	90.2	0.8
MD 112-92-20-P	112	92	20	92.2	0.8
MD 115-100-11-P	115	100	11	100.2	0.8
MD 115-100-12-P	115	100	12	100.2	0.8
MD 120-100-14-P	120	100	14	100.2	0.8
MD 124-110-9-P	124	110	9	110.2	0.8
MD 125-110-11-P	125	110	11	110.2	0.4
MD 125-110-11.8-P	125	110	11.8	110.2	0.4
MD 125-115-7.5-P	125	115	7.5	115.2	0.4
MD 128-120-8-P	128	120	8	120.2	0.2
MD 133-123-7.5-P	133	123	7.5	123.2	0.4
MD 140-125-11-P	140	125	11	125.2	0.4
MD 140-125-11.8-P	140	125	11.8	125.2	0.4
MD 145-130-14.5-P	145	130	14.5	130.2	0.8
MD 150-125-14-P	150	125	14	125.2	0.8
MD 157.7-145-9-P	157.7	145	9	145.2	0.4
MD 170-150-14-P	170	150	14	150.2	0.8
MD 380-340-25-P	380	340	25	340.2	0.8