



# MILTON ROY INDIA (P) LTD.

<b>DOCUMENT NAME</b>	<b>DATA SHEET FOR PN SERIES PUMPS</b>				<b>REV NO.</b>	<b>2</b>
<b>DOCUMENT NUMBER</b>	<b>DS-PNK</b>				<b>DATE</b>	<b>14.01.04</b>
<b>APPROVED BY</b>	<b>C.RAMESH</b>				<b>PAGE</b>	<b>1 OF 10</b>
<b>TYPE</b>	PACKED PLUNGER					
<b>MODEL</b>	PNK16A	PNK16B	PNK16C	PNK16D		
<b>MAX FLOW (IN LPH)</b>	18.5	31	47	61		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 1.0 H.P</b>	150	150	75	60		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 1.5 H.P</b>	225	225	150	85		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 2.0 H.P</b>	-	-	225	150		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 3.0 H.P</b>	-	-	-	225		
<b>SPM</b>	58	96	144	180		
<b>MOTOR SPEED</b>	1500	1500	1500	1500		
<b>VOLUMETRIC EFFICIENCY</b>	>75%	>75%	>75%	>75%		
<b>BKW</b>	0.0023 X PR	0.0038 X PR.	0.0058 X PR	0.0072 X PR.		
<b>MAXIMUM VISCOSITY - CPS</b>	1800	600	450	325		
<b>LINEAR SPEED</b>	stroke length x 2 xspm mm/minute					
<b>TOLERANCE FOR FLOW</b>	MORE THAN RATED FLOW					
<b>REPEATABILITY</b>	+ / - 3%					
<b>STEADY STATE ACCURACY</b>	+/- 1%					
<b>LINEARITY</b>	+ / - 3%					
<b>STROKE LENGTH</b>	34 MM					
<b>TURN DOWN RATIO</b>	10 : 1					
<b>FLOW ADJUSTMENT</b>	BY MANUAL STROKE ADJUSTMENT,					
<b>SUCTION LIFT</b>	1.5 M OF WATER COLUMN					
<b>NPSH REQUIRED</b>	0 PSI					
<b>LIQUID END TEMPERATURE</b>	120 DEG C MAXIMUM					
<b>DIFFERENTIAL PRESSURE</b>	2 KG/SQ.CM MINIMUM					
<b>SUCTION PRESSURE</b>	10 KG/SQ.CM MAX					
<b>AMBIENT TEMPERATURE</b>	45' C MAX					
<b>OPTIONS</b>	a) VARIABLE FREQUENCY DRIVE					
<b>LUBRICANT</b>	4 L OF HYDROL 220 OR EQUIVALENT					
<b>FREQUENCY OF LUBRICATION</b>	CHANGE OIL ONCE IN 6 MONTHS					
<b>M O C</b>						
<b>1.HOUSING</b>	CI FG-220					
<b>2.CONNECTING ROD</b>	CI FG-220					
<b>3. WORM GEAR</b>	PHOSPHOR BRONZE/ CI FG 220					
<b>4.WORM SHAFT</b>	EN-19					
<b>5.BALL</b>	SS 316					
<b>6.HEAD</b>	SS 316					
<b>7. PLUNGER</b>	SS 316					
<b>8.SUCTION / DISCHARGE VALVES</b>	CF8M					
<b>9. PACKING</b>	PTFE BRAIDED ROPE - 5 MM SQ.					
<b>10. GLAND BUSH &amp; NUT</b>	SS 316					
<b>11.SUCTION STRAINER-Y TYPE</b>	CF8M					
<b>END CONNECTION</b>	PUMP- 1/2" NPT (M) , Y-STRAINER - 1/2" BSP(F)					



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DOCUMENT NAME	DATA SHEET FOR PN SERIES PUMPS				REV NO.	2
DOCUMENT NUMBER	DS-PNK				DATE	14.01.04
APPROVED BY	C.RAMESH				PAGE	2 OF 10
TYPE	PACKED PLUNGER					
MODEL	PNK20A	PNK20B	PNK20C	PNK20D		
MAX FLOW (IN LPH)	28	48	72	91.5		
MAXIMUM PRESSURE (KG/CM <sup>2</sup> ) - 1.0 H.P	100	100	45	35		
MAXIMUM PRESSURE (KG/CM <sup>2</sup> ) - 1.5 H.P	150	150	100	55		
MAXIMUM PRESSURE (KG/CM <sup>2</sup> ) - 2.0 H.P	-	-	150	100		
MAXIMUM PRESSURE (KG/CM <sup>2</sup> ) - 3.0 H.P	-	-	-	150		
SPM	58	96	144	180		
MOTOR SPEED	1500	1500	1000	1500		
VOLUMETRIC EFFICIENCY	>75%	>75%	>75%	>75%		
BKW	0.004X PR	0.006 X PR.	0.009X PR	0.011 X PR.		
MAXIMUM VISCOSITY - CPS	3000	1800	1150	850		
LINEAR SPEED	stroke length x 2 xspm mm/minute					
TOLERANCE FOR FLOW	MORE THAN RATED FLOW					
REPEATABILITY	+ / - 3%					
STEADY STATE ACCURACY	+/- 1%					
LINEARITY	+ / - 3%					
STROKE LENGTH	34 MM					
TURN DOWN RATIO	10 : 1					
FLOW ADJUSTMENT	BY MANUAL STROKE ADJUSTMENT,					
SUCTION LIFT	1.5 M OF WATER COLUMN					
NPSH REQUIRED	0 PSI					
LIQUID END TEMPERATURE	120 DEG C MAXIMUM					
DIFFERENTIAL PRESSURE	2 KG/SQ.CM MINIMUM					
SUCTION PRESSURE	10 KG/SQ.CM MAX					
AMBIENT TEMPERATURE	45' C MAX					
OPTIONS	a) VARIABLE FREQUENCY DRIVE					
LUBRICANT	4 L OF HYDROL 220 OR EQUIVALENT					
FREQUENCY OF LUBRICATION	CHANGE OIL ONCE IN 6 MONTHS					
M O C						
1.HOUSING	CI FG-220					
2.CONNECTING ROD	CI FG-220					
3. WORM GEAR	PHOSPHOR BRONZE/ CI FG 220					
4.WORM SHAFT	EN-19					
5.BALL	SS 316					
6.HEAD	SS 316					
7. PLUNGER	SS 316					
8.SUCTION / DISCHARGE VALVES	SS 316					
9. PACKING	PTFE BRAIDED ROPE - 5 MM SQ.					
10. GLAND BUSH & NUT	SS 316					
11.SUCTION STRAINER-Y TYPE	CF8M					
END CONNECTION	PUMP- 1/2" BSP (M) , Y-STRAINER - 1/2" BSP(F)					



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<b>APPROVED BY</b>	<b>C.RAMESH</b>				<b>PAGE</b>	<b>3 OF 10</b>
<b>TYPE</b>	PACKED PLUNGER					
<b>MODEL</b>	PNK25A	PNK25B	PNK25C	PNK25D		
<b>MAX FLOW (IN LPH)</b>	47	78	115	146		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 1.0 H.P</b>	60	60	30	25		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 1.5 H.P</b>	100	100	60	35		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 2.0 H.P</b>	-	-	100	60		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 3.0 H.P</b>	-	-	-	100		
<b>SPM</b>	58	96	144	180		
<b>MOTOR SPEED</b>	1500	1500	1500	1500		
<b>VOLUMETRIC EFFICIENCY</b>	>80%	>80%	>80%	>80%		
<b>BKW</b>	0.006 X PR	0.0093X PR.	0.014 X PR	0.017X PR.		
<b>MAXIMUM VISCOSITY - CPS</b>	2000	1300	800	400		
<b>LINEAR SPEED</b>	stroke length x 2 xspm mm/minute					
<b>TOLERANCE FOR FLOW</b>	MORE THAN RATED FLOW					
<b>REPEATABILITY</b>	+ / - 3%					
<b>STEADY STATE ACCURACY</b>	+/- 1%					
<b>LINEARITY</b>	+ / - 3%					
<b>STROKE LENGTH</b>	34 MM					
<b>TURN DOWN RATIO</b>	10 : 1					
<b>FLOW ADJUSTMENT</b>	BY MANUAL STROKE ADJUSTMENT,					
<b>SUCTION LIFT</b>	1.5 M OF WATER COLUMN					
<b>NPSH REQUIRED</b>	0 PSI					
<b>LIQUID END TEMPERATURE</b>	120 DEG C MAXIMUM					
<b>DIFFERENTIAL PRESSURE</b>	2 KG/SQ.CM MINIMUM					
<b>SUCTION PRESSURE</b>	10 KG/SQ.CM MAX					
<b>AMBIENT TEMPERATURE</b>	45' C MAX					
<b>OPTIONS</b>	a) VARIABLE FREQUENCY DRIVE					
<b>LUBRICANT</b>	4 L OF HYDROL 220 OR EQUIVALENT					
<b>FREQUENCY OF LUBRICATION</b>	CHANGE OIL ONCE IN 6 MONTHS					
<b>M O C</b>						
<b>1.HOUSING</b>	CI FG-220					
<b>2.CONNECTING ROD</b>	CI FG-220					
<b>3. WORM GEAR</b>	PHOSPHOR BRONZE/ CI FG 220					
<b>4.WORM SHAFT</b>	EN-19					
<b>5.BALL</b>	SS 316					
<b>6.HEAD</b>	SS 316					
<b>7. PLUNGER</b>	SS 316					
<b>8.SUCTION / DISCHARGE VALVES</b>	CF8M					
<b>9. PACKING</b>	PTFE BRAIDED ROPE - 5 MM SQ.					
<b>10. GLAND BUSH &amp; NUT</b>	SS 316					
<b>11.SUCTION STRAINER-Y TYPE</b>	CF8M					
<b>END CONNECTION</b>	PUMP- 1/2" BSP (M) , Y-STRAINER - 1/2" BSP(F)					



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<b>APPROVED BY</b>	<b>C.RAMESH</b>				<b>PAGE</b>	<b>4 OF 10</b>
<b>TYPE</b>	PACKED PLUNGER					
<b>MODEL</b>	PNK32A	PNK32B	PNK32C	PNK32D		
<b>MAX FLOW (IN LPH)</b>	79	128	195	247		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 1.0 H.P</b>	35	35	17	15		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 1.5 H.P</b>	60	60	35	20		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 2.0 H.P</b>	-	-	60	35		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 3.0 H.P</b>	-	-	-	60		
<b>SPM</b>	58	96	144	180		
<b>MOTOR SPEED</b>	1500	1500	1500	1500		
<b>VOLUMETRIC EFFICIENCY</b>	>80%	>80%	>80%	>80%		
<b>BKW</b>	0.0093 X PR	0.015 X PR.	0.023 X PR	0.029 X PR.		
<b>MAXIMUM VISCOSITY - CPS</b>	1500	800	600	300		
<b>LINEAR SPEED</b>	stroke length x 2 xspm mm/minute					
<b>TOLERANCE FOR FLOW</b>	MORE THAN RATED FLOW					
<b>REPEATABILITY</b>	+ / - 3%					
<b>STEADY STATE ACCURACY</b>	+/- 1%					
<b>LINEARITY</b>	+ / - 3%					
<b>STROKE LENGTH</b>	34 MM					
<b>TURN DOWN RATIO</b>	10 : 1					
<b>FLOW ADJUSTMENT</b>	BY MANUAL STROKE ADJUSTMENT,					
<b>SUCTION LIFT</b>	1.5 M OF WATER COLUMN					
<b>NPSH REQUIRED</b>	0 PSI					
<b>LIQUID END TEMPERATURE</b>	120 DEG C MAXIMUM					
<b>DIFFERENTIAL PRESSURE</b>	2 KG/SQ.CM MINIMUM					
<b>SUCTION PRESSURE</b>	10 KG/SQ.CM MAX					
<b>AMBIENT TEMPERATURE</b>	45' C MAX					
<b>OPTIONS</b>	a) VARIABLE FREQUENCY DRIVE					
<b>LUBRICANT</b>	4 L OF HYDROL 220 OR EQUIVALENT					
<b>FREQUENCY OF LUBRICATION</b>	CHANGE OIL ONCE IN 6 MONTHS					
<b>M O C</b>						
<b>1.HOUSING</b>	CI FG-220					
<b>2.CONNECTING ROD</b>	CI FG-220					
<b>3. WORM GEAR</b>	PHOSPHOR BRONZE/ CI FG 220					
<b>4.WORM SHAFT</b>	EN-19					
<b>5.BALL</b>	SS 316					
<b>6.HEAD</b>	SS 316					
<b>7. PLUNGER</b>	SS 316					
<b>8.SUCTION / DISCHARGE VALVES</b>	CF8M					
<b>9. PACKING</b>	PTFE BRAIDED ROPE - 8 MM SQ.					
<b>10. GLAND BUSH &amp; NUT</b>	SS 316					
<b>11.SUCTION STRAINER-Y TYPE</b>	CF8M					
<b>END CONNECTION</b>	PUMP- 1/2" BSP (M) , Y-STRAINER - 1/2" BSP(F)					



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APPROVED BY	C.RAMESH				PAGE	4 OF 10
TYPE	PACKED PLUNGER					
MODEL	PNK40A	PNK40B	PNK40C	PNK40D		
MAX FLOW (IN LPH)	124	204	308	388		
MAXIMUM PRESSURE (KG/CM <sup>2</sup> ) - 1.0 H.P	20	20	11	9		
MAXIMUM PRESSURE (KG/CM <sup>2</sup> ) - 1.5 H.P	35	35	20	14		
MAXIMUM PRESSURE (KG/CM <sup>2</sup> ) - 2.0 H.P	-	-	35	20		
MAXIMUM PRESSURE (KG/CM <sup>2</sup> ) - 3.0 H.P	-	-	-	35		
SPM	58	96	144	180		
MOTOR SPEED	1500	1500	1500	1500		
VOLUMETRIC EFFICIENCY	>80%	>80%	>80%	>80%		
BKW	0.0145 X PR	0.024 X PR.	0.036 X PR	0.045 X PR.		
MAXIMUM VISCOSITY - CPS	1500	600	500	250		
LINEAR SPEED	stroke length x 2 xspm mm/minute					
TOLERANCE FOR FLOW	MORE THAN RATED FLOW					
REPEATABILITY	+ / - 3%					
STEADY STATE ACCURACY	+/- 1%					
LINEARITY	+ / - 3%					
STROKE LENGTH	34 MM					
TURN DOWN RATIO	10 : 1					
FLOW ADJUSTMENT	BY MANUAL STROKE ADJUSTMENT,					
SUCTION LIFT	1.5 M OF WATER COLUMN					
NPSH REQUIRED	0 PSI					
LIQUID END TEMPERATURE	120 DEG C MAXIMUM					
DIFFERENTIAL PRESSURE	2 KG/SQ.CM MINIMUM					
SUCTION PRESSURE	10 KG/SQ.CM MAX					
AMBIENT TEMPERATURE	45' C MAX					
OPTIONS	a) VARIABLE FREQUENCY DRIVE					
LUBRICANT	4 L OF HYDROL 220 OR EQUIVALENT					
FREQUENCY OF LUBRICATION	CHANGE OIL ONCE IN 6 MONTHS					
M O C						
1.HOUSING	CI FG-220					
2.CONNECTING ROD	CI FG-220					
3. WORM GEAR	PHOSPHOR BRONZE/ CI FG 220					
4.WORM SHAFT	EN-19					
5.BALL	SS 316					
6.HEAD	SS 316					
7. PLUNGER	SS 316					
8.SUCTION / DISCHARGE VALVES	CF8M					
9. PACKING	PTFE BRAIDED ROPE - 8 MM SQ.					
10. GLAND BUSH & NUT	SS 316					
11.SUCTION STRAINER-Y TYPE	CF8M					
END CONNECTION	PUMP- 1/2" BSP (M) , Y-STRAINER - 1/2" BSP(F)					



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<b>APPROVED BY</b>	<b>C.RAMESH</b>				<b>PAGE</b>	<b>6 OF 10</b>
<b>TYPE</b>	<b>PACKED PLUNGER</b>					
<b>MODEL</b>	<b>PNK50A</b>	<b>PNK50B</b>	<b>PNK50C</b>	<b>PNK50D</b>		
<b>MAX FLOW (IN LPH)</b>	190	320	490	610		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 1.0 H.P</b>	12	12	7	6		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 1.5 H.P</b>	25	25	12	9		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 2.0 H.P</b>	-	-	25	12		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 3.0 H.P</b>	-	-	-	25		
<b>SPM</b>	58	96	144	180		
<b>MOTOR SPEED</b>	1500	1500	1500	1500		
<b>VOLUMETRIC EFFICIENCY</b>	>80%	>80%	>80%	>80%		
<b>BKW</b>	0.023 X PR	0.037 X PR.	0.056 X PR	0.07 X PR.		
<b>MAXIMUM VISCOSITY - CPS</b>	2400	1500	900	400		
<b>LINEAR SPEED</b>	stroke length x 2 xspm mm/minute					
<b>TOLERANCE FOR FLOW</b>	MORE THAN RATED FLOW					
<b>REPEATABILITY</b>	+ / - 3%					
<b>STEADY STATE ACCURACY</b>	+/- 1%					
<b>LINEARITY</b>	+ / - 3%					
<b>STROKE LENGTH</b>	34 MM					
<b>TURN DOWN RATIO</b>	10 : 1					
<b>FLOW ADJUSTMENT</b>	BY MANUAL STROKE ADJUSTMENT,					
<b>SUCTION LIFT</b>	1.5 M OF WATER COLUMN					
<b>NPSH REQUIRED</b>	0 PSI					
<b>LIQUID END TEMPERATURE</b>	120 DEG C MAXIMUM					
<b>DIFFERENTIAL PRESSURE</b>	2 KG/SQ.CM MINIMUM					
<b>SUCTION PRESSURE</b>	10 KG/SQ.CM MAX					
<b>AMBIENT TEMPERATURE</b>	45' C MAX					
<b>OPTIONS</b>	a) VARIABLE FREQUENCY DRIVE					
<b>LUBRICANT</b>	4 L OF HYDROL 220 OR EQUIVALENT					
<b>FREQUENCY OF LUBRICATION</b>	CHANGE OIL ONCE IN 6 MONTHS					
<b>M O C</b>						
<b>1.HOUSING</b>	CI FG-220					
<b>2.CONNECTING ROD</b>	CI FG-220					
<b>3. WORM GEAR</b>	PHOSPHOR BRONZE/ CI FG 220					
<b>4.WORM SHAFT</b>	EN-19					
<b>5.BALL</b>	SS 316					
<b>6.HEAD</b>	SS 316					
<b>7. PLUNGER</b>	SS 316					
<b>8.SUCTION / DISCHARGE VALVES</b>	CF8M					
<b>9. PACKING</b>	PTFE BRAIDED ROPE - 8 MM SQ.					
<b>10. GLAND BUSH &amp; NUT</b>	SS 316					
<b>11.SUCTION STRAINER-Y TYPE</b>	CF8M					
<b>END CONNECTION</b>	PUMP- 1" BSP (M) , Y-STRAINER - 1" BSP(F)					



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<b>APPROVED BY</b>	<b>C.RAMESH</b>			<b>PAGE</b>	<b>7 OF 10</b>
<b>TYPE</b>	PACKED PLUNGER				
<b>MODEL</b>	PNK55A	PNK55B	PNK55C	PNK55D	
<b>MAX FLOW (IN LPH)</b>	230	390	590	740	
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 1.0 H.P</b>	10	10	6	5	
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 1.5 H.P</b>	20	20	10	7	
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 2.0 H.P</b>	-	-	20	10	
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 3.0 H.P</b>	-	-	-	20	
<b>SPM</b>	58	96	144	180	
<b>MOTOR SPEED</b>	1500	1500	1500	1500	
<b>VOLUMETRIC EFFICIENCY</b>	>80%	>80%	>80%	>80%	
<b>BKW</b>	0.027 X PR	0.045 X PR.	0.068 X PR	0.085 X PR.	
<b>MAXIMUM VISCOSITY - CPS</b>	1800	1000	700	300	
<b>LINEAR SPEED</b>	stroke length x 2 xspm mm/minute				
<b>TOLERANCE FOR FLOW</b>	MORE THAN RATED FLOW				
<b>REPEATABILITY</b>	+ / - 3%				
<b>STEADY STATE ACCURACY</b>	+/- 1%				
<b>LINEARITY</b>	+ / - 3%				
<b>STROKE LENGTH</b>	34 MM				
<b>TURN DOWN RATIO</b>	10 : 1				
<b>FLOW ADJUSTMENT</b>	BY MANUAL STROKE ADJUSTMENT,				
<b>SUCTION LIFT</b>	1.5 M OF WATER COLUMN				
<b>NPSH REQUIRED</b>	0 PSI				
<b>LIQUID END TEMPERATURE</b>	120 DEG C MAXIMUM				
<b>DIFFERENTIAL PRESSURE</b>	2 KG/SQ.CM MINIMUM				
<b>SUCTION PRESSURE</b>	10 KG/SQ.CM MAX				
<b>AMBIENT TEMPERATURE</b>	45' C MAX				
<b>OPTIONS</b>	a) VARIABLE FREQUENCY DRIVE				
<b>LUBRICANT</b>	4 L OF HYDROL 220 OR EQUIVALENT				
<b>FREQUENCY OF LUBRICATION</b>	CHANGE OIL ONCE IN 6 MONTHS				
<b>M O C</b>					
<b>1.HOUSING</b>	CI FG-220				
<b>2.CONNECTING ROD</b>	CI FG-220				
<b>3. WORM GEAR</b>	PHOSPHOR BRONZE/ CI FG 220				
<b>4.WORM SHAFT</b>	EN-19				
<b>5.BALL</b>	SS 316				
<b>6.HEAD</b>	SS 316				
<b>7. PLUNGER</b>	SS 316				
<b>8.SUCTION / DISCHARGE VALVES</b>	CF8M				
<b>9. PACKING</b>	PTFE BRAIDED ROPE - 8 MM SQ.				
<b>10. GLAND BUSH &amp; NUT</b>	SS 316				
<b>11.SUCTION STRAINER-Y TYPE</b>	CF8M				
<b>END CONNECTION</b>	PUMP- 1" BSP (M) , Y-STRAINER - 1" BSP(F)				



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APPROVED BY	C.RAMESH				PAGE	8 OF 10
TYPE	PACKED PLUNGER					
MODEL	PNK63A	PNK63B	PNK63C	PNK63D		
MAX FLOW (IN LPH)	310	510	770	970		
MAXIMUM PRESSURE (KG/CM <sup>2</sup> ) - 1.0 H.P	7	7				
MAXIMUM PRESSURE (KG/CM <sup>2</sup> ) - 1.5 H.P	15	15				
MAXIMUM PRESSURE (KG/CM <sup>2</sup> ) - 2.0 H.P			7	7		
MAXIMUM PRESSURE (KG/CM <sup>2</sup> ) - 3.0 H.P			15	15		
SPM	58	96	144	180		
MOTOR SPEED	1500	1500	1500	1500		
VOLUMETRIC EFFICIENCY	>80%	>80%	>80%	>80%		
BKW	0.036 X PR	0.06 X PR.	0.089X PR	0.11 X PR.		
MAXIMUM VISCOSITY - CPS	1500	700	500	200		
LINEAR SPEED	stroke length x 2 xspm mm/minute					
TOLERANCE FOR FLOW	MORE THAN RATED FLOW					
REPEATABILITY	+ / - 3%					
STEADY STATE ACCURACY	+/- 1%					
LINEARITY	+ / - 3%					
STROKE LENGTH	34 MM					
TURN DOWN RATIO	10 : 1					
FLOW ADJUSTMENT	BY MANUAL STROKE ADJUSTMENT,					
SUCTION LIFT	1.5 M OF WATER COLUMN					
NPSH REQUIRED	0 PSI					
LIQUID END TEMPERATURE	120 DEG C MAXIMUM					
DIFFERENTIAL PRESSURE	2 KG/SQ.CM MINIMUM					
SUCTION PRESSURE	10 KG/SQ.CM MAX					
AMBIENT TEMPERATURE	45' C MAX					
OPTIONS	a) VARIABLE FREQUENCY DRIVE					
LUBRICANT	4 L OF HYDROL 220 OR EQUIVALENT					
FREQUENCY OF LUBRICATION	CHANGE OIL ONCE IN 6 MONTHS					
M O C						
1.HOUSING	CI FG-220					
2.CONNECTING ROD	CI FG-220					
3. WORM GEAR	PHOSPHOR BRONZE/ CI FG 220					
4.WORM SHAFT	EN-19					
5.BALL	SS 316					
6.HEAD	SS 316					
7. PLUNGER	SS 316					
8.SUCTION / DISCHARGE VALVES	CF8M					
9. PACKING	PTFE BRAIDED ROPE - 8 MM SQ.					
10. GLAND BUSH & NUT	SS 316					
11.SUCTION STRAINER-Y TYPE	CF8M					
END CONNECTION	PUMP- 1" BSP (M) , Y-STRAINER - 1" BSP(F)					





# MILTON ROY INDIA (P) LTD.

DOCUMENT NAME	DATA SHEET FOR PN SERIES PUMPS				REV NO.	2
DOCUMENT NUMBER	DS-PNK				DATE	14.01.04
APPROVED BY	C.RAMESH				PAGE	9 OF 10
TYPE	PACKED PLUNGER					
MODEL	PNK70A	PNK70B	PNK70C	PNK70D		
MAX FLOW (IN LPH)	380	640	960	1200		
MAXIMUM PRESSURE (KG/CM <sup>2</sup> ) - 1.0 H.P	5	5				
MAXIMUM PRESSURE (KG/CM <sup>2</sup> ) - 1.5 H.P	12	12				
MAXIMUM PRESSURE (KG/CM <sup>2</sup> ) - 2.0 H.P			5	5		
MAXIMUM PRESSURE (KG/CM <sup>2</sup> ) - 3.0 H.P			12	12		
SPM	58	96	144	180		
MOTOR SPEED	1500	1500	1500	1500		
VOLUMETRIC EFFICIENCY	>80%	>80%	>80%	>80%		
BKW	0.044 X PR	0.073 X PR.	0.11 X PR	0.138 X PR.		
MAXIMUM VISCOSITY - CPS	1000	500	300	150		
LINEAR SPEED	stroke length x 2 xspm mm/minute					
TOLERANCE FOR FLOW	MORE THAN RATED FLOW					
REPEATABILITY	+ / - 3%					
STEADY STATE ACCURACY	+/- 1%					
LINEARITY	+ / - 3%					
STROKE LENGTH	34 MM					
TURN DOWN RATIO	10 : 1					
FLOW ADJUSTMENT	BY MANUAL STROKE ADJUSTMENT,					
SUCTION LIFT	1.5 M OF WATER COLUMN					
NPSH REQUIRED	0 PSI					
LIQUID END TEMPERATURE	120 DEG C MAXIMUM					
DIFFERENTIAL PRESSURE	2 KG/SQ.CM MINIMUM					
SUCTION PRESSURE	10 KG/SQ.CM MAX					
AMBIENT TEMPERATURE	45' C MAX					
OPTIONS	a) VARIABLE FREQUENCY DRIVE					
LUBRICANT	4 L OF HYDROL 220 OR EQUIVALENT					
FREQUENCY OF LUBRICATION	CHANGE OIL ONCE IN 6 MONTHS					
M O C						
1.HOUSING	CI FG-220					
2.CONNECTING ROD	CI FG-220					
3. WORM GEAR	PHOSPHOR BRONZE/ CI FG 220					
4.WORM SHAFT	EN-19					
5.BALL	SS 316					
6.HEAD	SS 316					
7. PLUNGER	SS 316					
8.SUCTION / DISCHARGE VALVES	CF8M					
9. PACKING	PTFE BRAIDED ROPE - 8 MM SQ.					
10. GLAND BUSH & NUT	SS 316					
11.SUCTION STRAINER-Y TYPE	CF8M					
END CONNECTION	PUMP- 1" BSP (M) , Y-STRAINER - 1" BSP(F)					



# MILTON ROY INDIA (P) LTD.

<b>DOCUMENT NAME</b>	<b>DATA SHEET FOR PN SERIES PUMPS</b>				<b>REV NO.</b>	<b>2</b>
<b>DOCUMENT NUMBER</b>	<b>DS-PNK</b>				<b>DATE</b>	<b>14.01.04</b>
<b>APPROVED BY</b>	<b>C.RAMESH</b>				<b>PAGE</b>	<b>10 OF 10</b>
<b>TYPE</b>	<b>PACKED PLUNGER</b>					
<b>MODEL</b>	PNK90A	PNK90B	PNK90C	PNK90D		
<b>MAX FLOW (IN LPH)</b>	635	1050	1580	2000		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 1.0 H.P</b>	3	3				
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 1.5 H.P</b>	7	7				
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 2.0 H.P</b>			3	3		
<b>MAXIMUM PRESSURE (KG/CM<sup>2</sup>) - 3.0 H.P</b>			7	7		
<b>SPM</b>	58	96	144	180		
<b>MOTOR SPEED</b>	1500	1500	1500	1500		
<b>VOLUMETRIC EFFICIENCY</b>	>80%	>80%	>80%	>80%		
<b>BKW</b>	0.073 X PR	0.12 X PR.	0.18 X PR	0.23X PR.		
<b>MAXIMUM VISCOSITY - CPS</b>	1500	800	500	300		
<b>LINEAR SPEED</b>	stroke length x 2 xspm mm/minute					
<b>TOLERANCE FOR FLOW</b>	MORE THAN RATED FLOW					
<b>REPEATABILITY</b>	+ / - 3%					
<b>STEADY STATE ACCURACY</b>	+/- 1%					
<b>LINEARITY</b>	+ / - 3%					
<b>STROKE LENGTH</b>	34 MM					
<b>TURN DOWN RATIO</b>	10 : 1					
<b>FLOW ADJUSTMENT</b>	BY MANUAL STROKE ADJUSTMENT,					
<b>SUCTION LIFT</b>	1.5 M OF WATER COLUMN					
<b>NPSH REQUIRED</b>	0 PSI					
<b>LIQUID END TEMPERATURE</b>	120 DEG C MAXIMUM					
<b>DIFFERENTIAL PRESSURE</b>	2 KG/SQ.CM MINIMUM					
<b>SUCTION PRESSURE</b>	10 KG/SQ.CM MAX					
<b>AMBIENT TEMPERATURE</b>	45' C MAX					
<b>OPTIONS</b>	a) VARIABLE FREQUENCY DRIVE					
<b>LUBRICANT</b>	4 L OF HYDROL 220 OR EQUIVALENT					
<b>FREQUENCY OF LUBRICATION</b>	CHANGE OIL ONCE IN 6 MONTHS					
<b>M O C</b>						
<b>1.HOUSING</b>	CI FG-220					
<b>2.CONNECTING ROD</b>	CI FG-220					
<b>3. WORM GEAR</b>	PHOSPHOR BRONZE/ CI FG 220					
<b>4.WORM SHAFT</b>	EN-19					
<b>5.BALL</b>	SS 316					
<b>6.HEAD</b>	SS 316					
<b>7. PLUNGER</b>	SS 316					
<b>8.SUCTION / DISCHARGE VALVES</b>	CF8M					
<b>9. PACKING</b>	PTFE BRAIDED ROPE - 8 MM SQ.					
<b>10. GLAND BUSH &amp; NUT</b>	SS 316					
<b>11.SUCTION STRAINER-Y TYPE</b>	CF8M					
<b>END CONNECTION</b>	PUMP- 1-1/2" BSP (M) , Y-STRAINER - 1-1/2" BSP(F)					