



MILTON ROY INDIA (P) LTD.

DOCUMENT NAME	DATA SHEET FOR PN SERIES PUMPS				REV NO.	2
DOCUMENT NUMBER	DS-PNL				DATE	14.01.04
APPROVED BY	C.RAMESH				PAGE	1 OF 11
TYPE	PACKED PLUNGER					
MODEL	PNL20A	PNL20B	PNL20C	PNL20D		
MAX FLOW (IN LPH)	84.8	101.7	127.2	152.6		
MAXIMUM PRESSURE (KG/CM²) - 2.0 H.P	195	165	130	105		
MAXIMUM PRESSURE (KG/CM²) - 3 H.P	250	250	195	160		
MAXIMUM PRESSURE (KG/CM²) - 5 H.P	-	-	250	250		
SPM	100	120	150	180		
MOTOR SPEED	1000	1000	1500	1500		
VOLUMETRIC EFFICIENCY	>85%	>85%	>85%	>85%		
BKW	0.006 X PR	0.008 X PR.	0.010 X PR	0.012 X PR.		
MAXIMUM VISCOSITY - CPS	1800	1400	1100	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	50 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	10 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					
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 - 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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TYPE	PACKED PLUNGER					
MODEL	PNL25A	PNL25B	PNL25C	PNL25D		
MAX FLOW (IN LPH)	132.5	159	198.7	238.4		
MAXIMUM PRESSURE (KG/CM²) - 2.0 H.P	130	110	85	70		
MAXIMUM PRESSURE (KG/CM²) - 3.0 H.P	160	160	125	105		
MAXIMUM PRESSURE (KG/CM²) - 5.0 H.P	-	-	160	160		
SPM	100	120	150	180		
MOTOR SPEED	1000	1000	1500	1500		
VOLUMETRIC EFFICIENCY	>85%	>85%	>85%	>85%		
BKW	0.009X PR	0.01 X PR.	0.013X PR	0.016 X PR.		
MAXIMUM VISCOSITY - CPS	600	500	400	300		
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	50 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	10 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					
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 - 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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DOCUMENT NAME	DATA SHEET FOR PN SERIES PUMPS				REV NO.	2
DOCUMENT NUMBER	DS-PNL				DATE	14.01.04
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TYPE	PACKED PLUNGER					
MODEL	PNL32A	PNL32B	PNL32C	PNL32D		
MAX FLOW (IN LPH)	217	260.4	325.6	390.7		
MAXIMUM PRESSURE (KG/CM²) - 2.0 H.P	80	65	50	40		
MAXIMUM PRESSURE (KG/CM²) - 3 H.P	100	100	80	60		
MAXIMUM PRESSURE (KG/CM²) - 5.0 H.P	-	-	100	100		
SPM	100	120	150	180		
MOTOR SPEED	1500	1500	1500	1500		
VOLUMETRIC EFFICIENCY	>85%	>85%	>85%	>85%		
BKW	0.016 X PR	0.0019X PR.	0.024 X PR	0.029X PR.		
MAXIMUM VISCOSITY - CPS	750	700	550	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	50 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	10 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					
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 - 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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DOCUMENT NAME	DATA SHEET FOR PN SERIES PUMPS				REV NO.	2
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TYPE	PACKED PLUNGER					
MODEL	PNL40A	PNL40B	PNL40C	PNL40D		
MAX FLOW (IN LPH)	339.1	406.9	508.7	610.4		
MAXIMUM PRESSURE (KG/CM²) - 2.0 H.P	50	40	32	27		
MAXIMUM PRESSURE (KG/CM²) - 3 H.P	65	65	50	40		
MAXIMUM PRESSURE (KG/CM²) - 5.0 H.P	-	-	65	65		
SPM	100	120	150	180		
MOTOR SPEED	1000	1000	1500	1500		
VOLUMETRIC EFFICIENCY	>85%	>85%	>85%	>85%		
BKW	0.025 X PR	0.03 X PR.	0.038 X PR	0.046 X PR.		
MAXIMUM VISCOSITY - CPS	2400	1500	1000	600		
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	50 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	10 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					
4.WORM SHAFT	EN-19					
5.BALL	SS 316					
6.HEAD	CF8M					
7. PLUNGER	SS 316					
8.SUCTION / DISCHARGE VALVES	CF8M					
9. PACKING	PTFE BRAIDED ROPE - 8 MM SQ.					
10. GLAND BUSH & NUT	CF8M					
11.SUCTION STRAINER-Y TYPE	CF8M					
END CONNECTION	PUMP- 1" BSP (M) , Y-STRAINER - 1" BSP(F)					



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TYPE	PACKED PLUNGER					
MODEL	PNL50A	PNL50B	PNL50C	PNL50D		
MAX FLOW (IN LPH)	529.9	635.9	794.8	953.8		
MAXIMUM PRESSURE (KG/CM ²) - 2.0 H.P	32	25	20	15		
MAXIMUM PRESSURE (KG/CM ²) - 3 H.P	40	40	32	27		
MAXIMUM PRESSURE (KG/CM ²) - 5.0 H.P	-	-	40	40		
SPM	100	120	150	180		
MOTOR SPEED	1000	1000	1500	1500		
VOLUMETRIC EFFICIENCY	>85%	>85%	>85%	>85%		
BKW	0.040 X PR	0.048 X PR.	0.06 X PR	0.072 X PR.		
MAXIMUM VISCOSITY - CPS	1800	1000	700	400		
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	50 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	10 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					
4.WORM SHAFT	EN-19					
5.BALL	SS 316					
6.HEAD	CF8M					
7. PLUNGER	SS 316					
8.SUCTION / DISCHARGE VALVES	CF8M					
9. PACKING	PTFE BRAIDED ROPE - 8 MM SQ.					
10. GLAND BUSH & NUT	CF8M					
11.SUCTION STRAINER-Y TYPE	CF8M					
END CONNECTION	PUMP- 1" BSP (M) , Y-STRAINER - 1" BSP(F)					



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DOCUMENT NAME	DATA SHEET FOR PN SERIES PUMPS				REV NO.	2
DOCUMENT NUMBER	DS-PNL				DATE	14.01.04
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TYPE	PACKED PLUNGER					
MODEL	PNL63A	PNL63B	PNL63C	PNL63D		
MAX FLOW (IN LPH)	841.2	1009.5	1261.8	1514.2		
MAXIMUM PRESSURE (KG/CM²) - 2.0 H.P	20	16	12	10		
MAXIMUM PRESSURE (KG/CM²) - 3 H.P	25	25	20	16		
MAXIMUM PRESSURE (KG/CM²) - 5.0 H.P	-	-	25	25		
SPM	100	120	150	180		
MOTOR SPEED	1000	1000	1500	1500		
VOLUMETRIC EFFICIENCY	>85%	>85%	>85%	>85%		
BKW	0.06 X PR	0.07X PR.	0.09 X PR	0.11 X PR.		
MAXIMUM VISCOSITY - CPS	2400	1500	1000	500		
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	50 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	10 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					
4.WORM SHAFT	EN-19					
5.BALL	SS 316					
6.HEAD	CF8M					
7. PLUNGER	SS 316					
8.SUCTION / DISCHARGE VALVES	CF8M					
9. PACKING	PTFE BRAIDED ROPE - 8 MM SQ.					
10. GLAND BUSH & NUT	CF8M					
11.SUCTION STRAINER-Y TYPE	CF8M					
END CONNECTION	PUMP- 1-1/2" BSP (M) , Y-STRAINER - 1-1/2" BSP(F)					



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TYPE	PACKED PLUNGER					
MODEL	PNL70A	PNL70B	PNL70C	PNL70D		
MAX FLOW (IN LPH)	1038.6	1246.3	1557.8	1869.4		
MAXIMUM PRESSURE (KG/CM²) - 2.0 H.P	16	13	10	8		
MAXIMUM PRESSURE (KG/CM²) - 3 H.P	20	20	16	12		
MAXIMUM PRESSURE (KG/CM²) - 5.0 H.P	-	-	20	20		
SPM	100	120	150	180		
MOTOR SPEED	1000	1000	1500	1500		
VOLUMETRIC EFFICIENCY	>85%	>85%	>85%	>85%		
BKW	0.07 X PR	0.09 X PR.	0.11 X PR	0.14 X PR.		
MAXIMUM VISCOSITY - CPS	2000	1400	800	400		
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	50 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	10 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					
4.WORM SHAFT	EN-19					
5.BALL	SS 316					
6.HEAD	CF8M					
7. PLUNGER	SS 316					
8.SUCTION / DISCHARGE VALVES	CF8M					
9. PACKING	PTFE BRAIDED ROPE - 8 MM SQ.					
10. GLAND BUSH & NUT	CF8M					
11.SUCTION STRAINER-Y TYPE	CF8M					
END CONNECTION	PUMP- 1-1/2" BSP (M) , Y-STRAINER - 1-1/2" BSP(F)					



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DOCUMENT NAME	DATA SHEET FOR PN SERIES PUMPS				REV NO.	2
DOCUMENT NUMBER	DS-PNL				DATE	14.01.04
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TYPE	PACKED PLUNGER					
MODEL	PNL90A	PNL90B	PNL90C	PNL90D		
MAX FLOW (IN LPH)	1716.8	2060.2	2575.2	3090.2		
MAXIMUM PRESSURE (KG/CM²) - 2.0 H.P	7	6	5	4		
MAXIMUM PRESSURE (KG/CM²) - 3 H.P	10	10	10	8		
MAXIMUM PRESSURE (KG/CM²) - 5.0 H.P	-	-	-	10		
SPM	100	120	150	180		
MOTOR SPEED	1000	1000	1500	1500		
VOLUMETRIC EFFICIENCY	>85%	>85%	>85%	>85%		
BKW	0.13 X PR	0.15 X PR.	0.19X PR	0.23 X PR.		
MAXIMUM VISCOSITY - CPS	1500	1000	700	400		
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	50 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	5 KG/SQ.CM MAX					
AMBIENT TEMPERATURE	45' C MAX					
OPTIONS	a) VARIABLE FREQUENCY DRIVE					
LUBRICANT	10 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					
4.WORM SHAFT	EN-19					
5.BALL	SS 316					
6.HEAD	CF8M					
7. PLUNGER	SS 316					
8.SUCTION / DISCHARGE VALVES	CF8M					
9. PACKING	PTFE BRAIDED ROPE - 10 MM SQ.					
10. GLAND BUSH & NUT	CF8M					
11.SUCTION STRAINER-Y TYPE	CF8M					
END CONNECTION	PUMP- 2" BSP (M) , Y-STRAINER - 2" BSP(F)					



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DOCUMENT NUMBER	DS-PNL			DATE	14.01.04
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TYPE	PACKED PLUNGER				
MODEL	PNL110A	PNL110B	PNL110C		
MAX FLOW (IN LPH)	2564.6	3077.5	3846.9		
MAXIMUM PRESSURE (KG/CM²) - 3 H.P	7	7	7		
SPM	100	120	150		
MOTOR SPEED	1000	1000	1500		
VOLUMETRIC EFFICIENCY	>85%	>85%	>85%		
BKW	0.17 X PR	0.2 X PR.	0.25 X PR		
MAXIMUM VISCOSITY - CPS	1000	700	400		
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	50 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	5 KG/SQ.CM MAX				
AMBIENT TEMPERATURE	45' C MAX				
OPTIONS	a) VARIABLE FREQUENCY DRIVE				
LUBRICANT	10 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				
4.WORM SHAFT	EN-19				
5.BALL	SS 316				
6.HEAD	CF8M				
7. PLUNGER	SS 316				
8.SUCTION / DISCHARGE VALVES	CF8M				
9. PACKING	PTFE BRAIDED ROPE -10 MM SQ.				
10. GLAND BUSH & NUT	CF8M				
11.SUCTION STRAINER-Y TYPE	CF8M				
END CONNECTION	PUMP- 2" BSP (M) , Y-STRAINER - 2" BSP(F)				



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TYPE	PACKED PLUNGER				
MODEL	PNL120A	PNL120B	PNL120C		
MAX FLOW (IN LPH)	3052.1	3662.5	4578.1		
MAXIMUM PRESSURE (KG/CM²) - 3.0 H.P	5	5	5		
SPM	100	120	150		
MOTOR SPEED	1000	1000	1500		
VOLUMETRIC EFFICIENCY	>85%	>85%	>85%		
BKW	0.24 X PR	0.29 X PR.	0.36 X PR		
MAXIMUM VISCOSITY - CPS	700	400	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	50 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	3 KG/SQ.CM MAX				
AMBIENT TEMPERATURE	45' C MAX				
OPTIONS	a) VARIABLE FREQUENCY DRIVE				
LUBRICANT	10 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				
4.WORM SHAFT	EN-19				
5.BALL	SS 316				
6.HEAD	CF8M				
7. PLUNGER	SS 316				
8.SUCTION / DISCHARGE VALVES	CF8M				
9. PACKING	PTFE BRAIDED ROPE - 10 MM SQ.				
10. GLAND BUSH & NUT	CF8M				
11.SUCTION STRAINER-Y TYPE	CF8M				
END CONNECTION	PUMP- 2" BSP (M) , Y-STRAINER - 2" BSP(F)				



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DOCUMENT NAME	DATA SHEET FOR PN SERIES PUMPS		REV NO.	2
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APPROVED BY	C.RAMESH		PAGE	11 OF 11
TYPE	PACKED PLUNGER			
MODEL	PNL150A	PNL150B		
MAX FLOW (IN LPH)	4768.9	5722.7		
MAXIMUM PRESSURE (KG/CM²) - 3.0 H.P	3	3		
SPM	100	120		
MOTOR SPEED	1000	1000		
VOLUMETRIC EFFICIENCY	>85%	>85%		
BKW	0.38 X PR	0.45 X PR.		
MAXIMUM VISCOSITY - CPS	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	50 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	1 KG/SQ.CM MAX			
AMBIENT TEMPERATURE	45' C MAX			
OPTIONS	a) VARIABLE FREQUENCY DRIVE			
LUBRICANT	10 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			
4.WORM SHAFT	EN-19			
5.BALL	SS 316			
6.HEAD	CF8M			
7. PLUNGER	SS 316			
8.SUCTION / DISCHARGE VALVES	CF8M			
9. PACKING	PTFE BRAIDED ROPE - 10 MM SQ.			
10. GLAND BUSH & NUT	CF8M			
11.SUCTION STRAINER-Y TYPE	CF8M			
END CONNECTION	PUMP- 2" BSP (M) , Y-STRAINER - 2" BSP(F)			