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HPC

Hydraulic Pilot Control Unit

Performance Through
Precision Control

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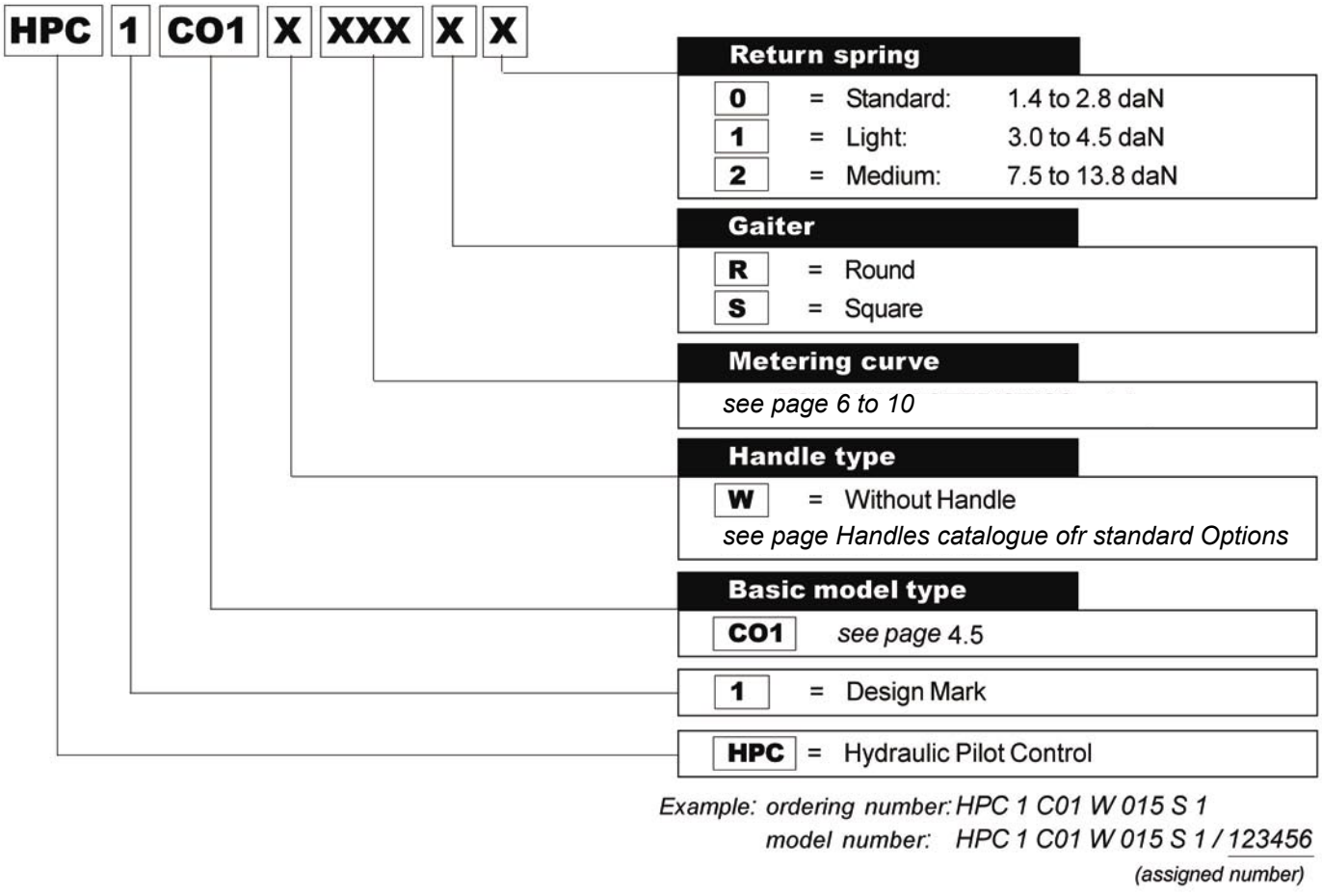
HPC Hydraulic Pilot Control Valves are part of the comprehensive range of Hydraulic products.
The HPC Valve, with its single lever dual axis control is available with a wide range of springs allowing for an extensive range of control curve characteristics and handle options and makes it suitable for a wide range of both mobile and industrial applications.
Our engineers can offer specialist support to optimise this product to suit your application.

Key Features include :

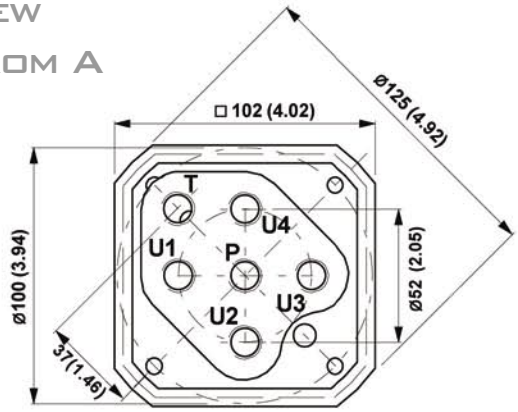
- Compact and light weight
- All ports on bottom face for ease of installation
- Suitable for arm rest of console mounting
- Compatible with a wide range of Nimco and other products
- Stylish good looks suitable for modern cabs
- Operator is insulated from high temperature components
- Proven, simple pressure reducing elements
- Wide range of low hysteresis, high accuracy, pressure control curves
- Wide range of electrical options in both standard and multi-functional ergonomic handles



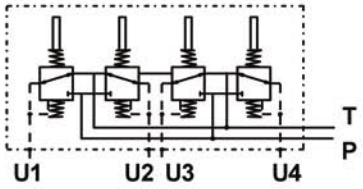
Example: ordering number: HPC 1 C01 W 015 S 1
model number: HPC 1 C01 W 015 S 1 / 123456
(assigned number)

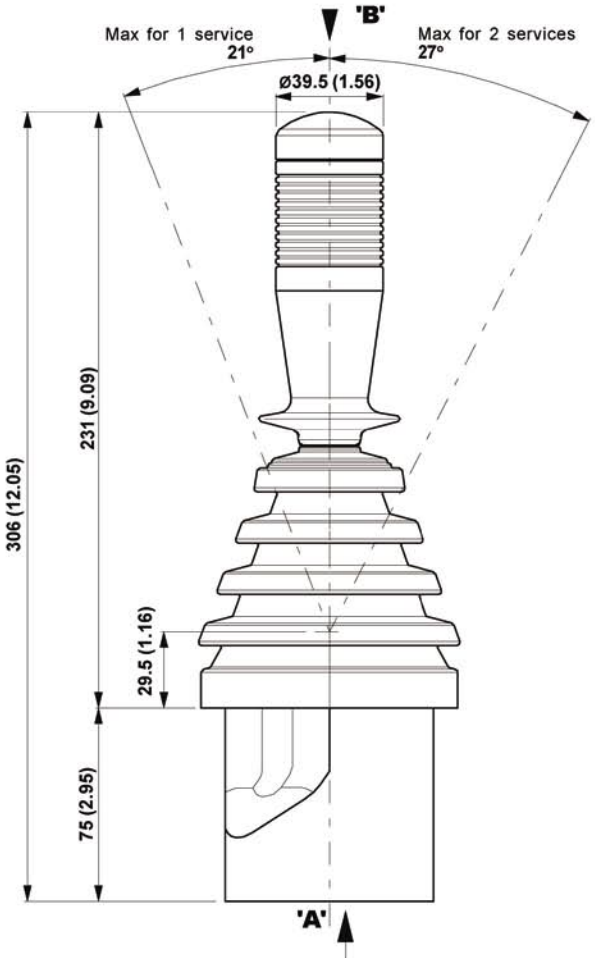
With Square Gaiter

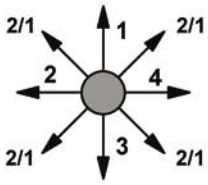
View From A

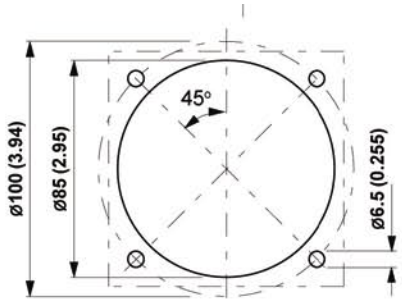


Typical Functional Diagram View from B





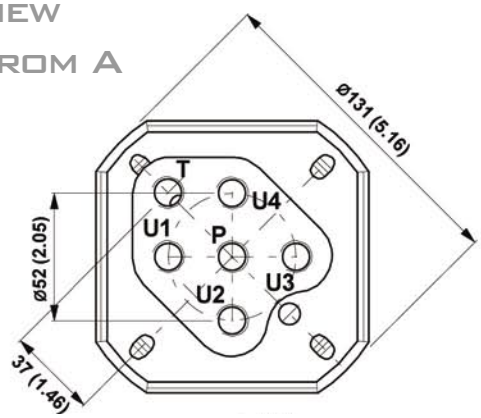




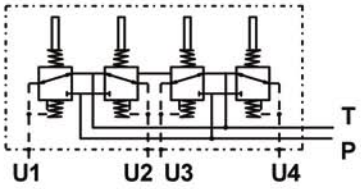
Mounting Details

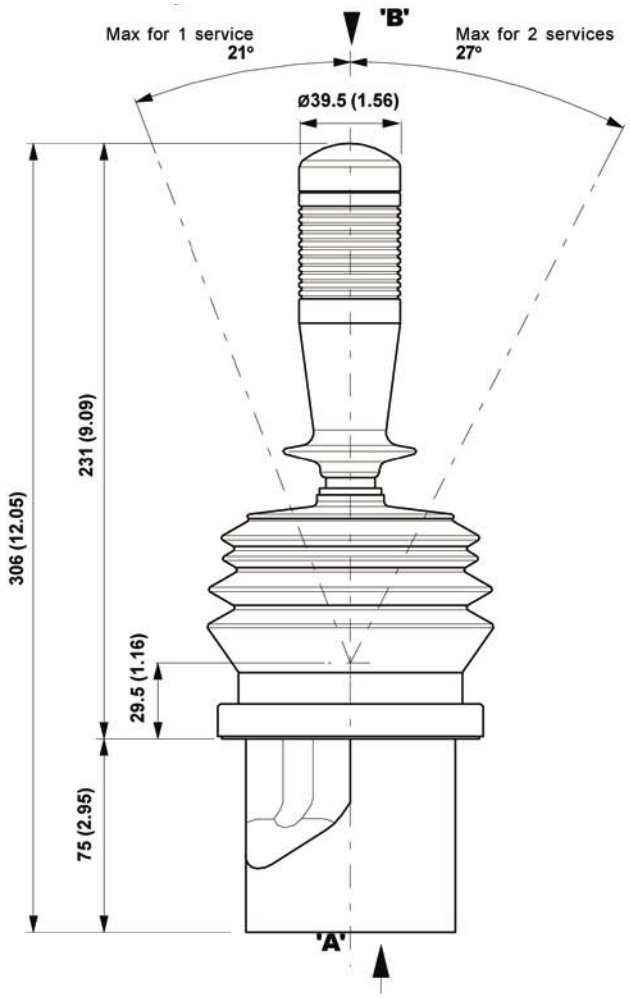
WITH ROUND GAITER

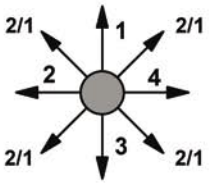
VIEW FROM A

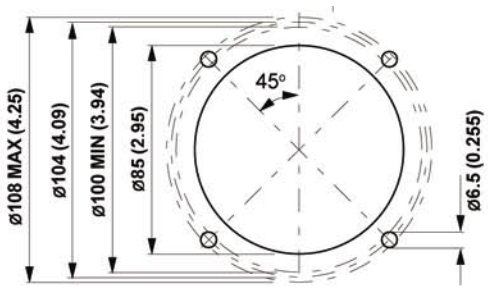


TYPICAL FUNCTIONAL DIAGRAM VIEW FROM B



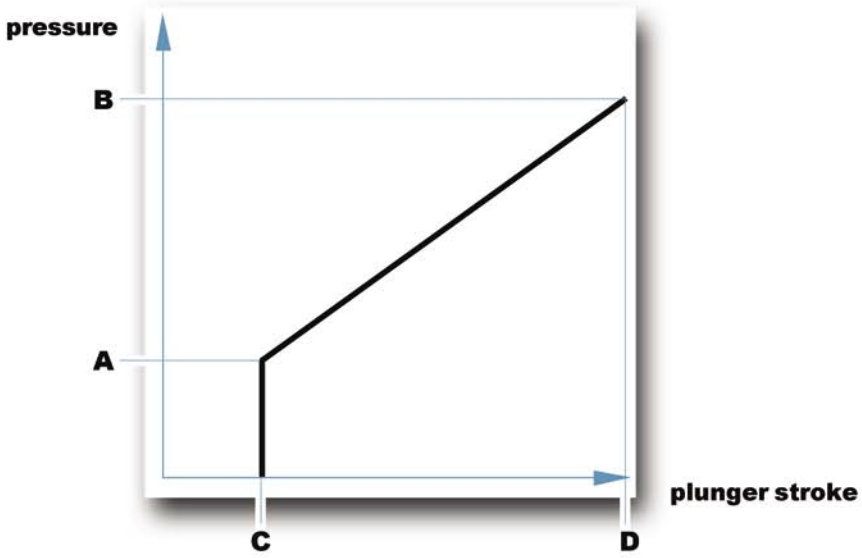






MOUNTING DETAILS

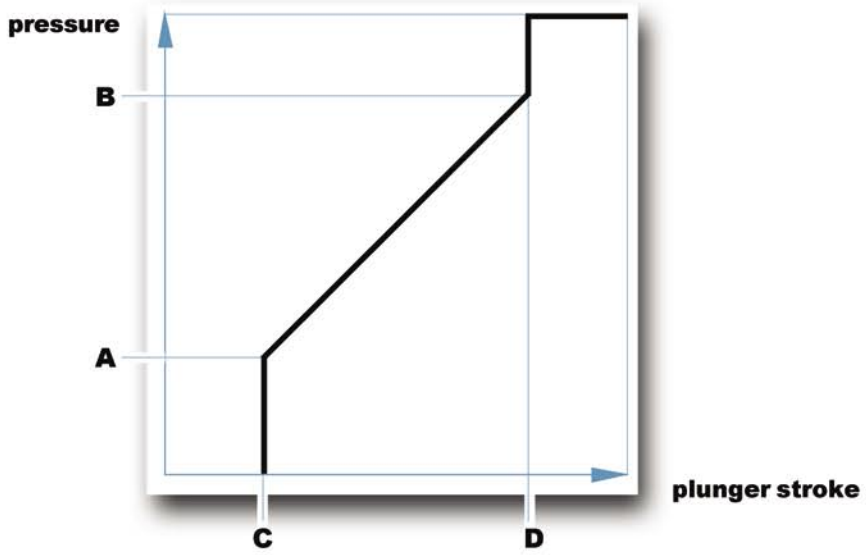
LINEAR CHARACTERISTICS WITHOUT STEP



Output Pressure (bar)		Plunger Stroke (mm)		Metering Curve Number
A	B	C	D	
0.0	40.4	0.9	9.5	061
0.0	68.6	2.0	9.5	022
0.0	123.2	2.0	9.5	033
0.5	13.0	1.8	9.5	087
0.7	31.8	1.0	9.5	071
1.4	12.1	1.0	9.5	072
1.5	9.5	1.0	9.5	086
1.5	41.9	0.9	9.5	093
2.0	8.4	2.0	9.5	004
2.0	15.8	0.9	9.5	060
2.0	55.7	1.0	9.5	092
3.0	24.2	0.9	9.5	058
3.2	19.0	1.0	9.5	053
3.2	20.9	0.0	9.5	096
3.8	24.9	0.9	9.5	074
4.0	10.4	2.0	9.5	005
4.7	27.6	0.8	9.5	132
5.0	18.9	2.0	9.5	079
5.0	20.8	0.9	9.5	094
5.0	20.9	1.0	9.5	089
5.5	26.7	0.9	9.5	075
5.8	24.2	1.6	9.5	035
5.8	24.1	0.9	9.5	036
5.8	24.2	1.8	9.5	037
5.8	30.0	0.8	9.5	133

Output Pressure (bar)		Plunger Stroke (mm)		Metering Curve Number
A	B	C	D	
6.0	31.7	2.0	9.5	001
6.0	41.1	1.0	9.5	040
6.0	42.1	0.9	9.5	046
8.0	15.5	2.0	9.5	056
8.1	21.1	3.3	9.5	105
8.6	26.9	0.9	9.5	039
9.1	27.9	0.9	9.5	003

LINEAR CHARACTERISTICS WITH STEP... CONTNIUED

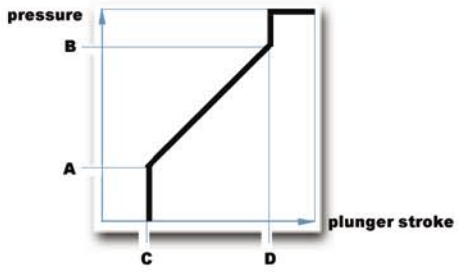


Output Pressure (bar)		Plunger Stroke (mm)		Metering Curve Number
A	B	C	D	
0.0	13.0	0.5	8.5	027
0.5	4.0	1.8	8.4	009
0.5	6.5	2.0	8.5	010
0.5	11.4	1.8	8.5	047
0.5	18.4	1.0	8.5	076
0.8	29.0	1.4	3.5	097
1.0	12.0	1.0	8.5	034
1.0	8.0	1.0	8.5	011
1.5	8.5	1.0	8.5	069
1.8	8.5	1.8	9.0	004
1.9	52.4	1.0	9.0	092
2.0	7.1	1.0	6.5	042
2.0	11.5	1.0	8.5	012
2.0	11.5	2.0	8.5	025
2.0	13.0	1.0	8.5	045
2.0	20.5	0.9	8.5	077
2.0	27.5	1.0	8.5	080
2.8	14.9	1.0	8.5	123A
2.8	4.75	1.0	8.3	129
2.8	15.3	1.8	8.5	505
2.9	9.9	1.0	8.5	021
2.9	9.9	1.0	8.5	051
2.9	9.9	1.0	8.5	070
3.0	9.0	2.0	8.5	021A
3.0	8.0	1.0	8.5	125A

Output Pressure (bar)		Plunger Stroke (mm)		Metering Curve Number
A	B	C	D	
3.0	21.7	0.9	8.5	121A
3.1	18.1	1.0	9.0	053
3.1	17.2	1.0	8.5	062
3.2	29.6	1.0	8.5	030
3.2	11.7	1.8	8.5	048
3.3	15.4	1.0	8.5	041
3.5	13.0	1.0	8.5	101A
3.7	10.4	1.8	9.0	005
3.7	13.8	1.8	7.2	115
3.7	17.2	1.8	9.0	116
3.7	29.2	1.0	8.5	104A
4.0	15.4	1.4	8.5	110
4.0	14.0	1.0	8.5	117
4.1	16.2	1.0	8.5	049
4.1	27.4	1.0	9.0	502
4.3	15.2	1.0	8.5	049A
4.3	13.8	1.0	8.5	122A
4.4	17.0	1.8	8.5	501
4.4	17.0	1.8	8.5	107A
4.4	17.9	1.8	9.0	504
4.5	18.0	0.9	8.5	095
4.5	27.0	1.0	8.5	108A
4.6	18.4	1.8	7.5	114
4.6	20.8	1.8	8.5	126
4.6	18.1	1.8	9.0	079

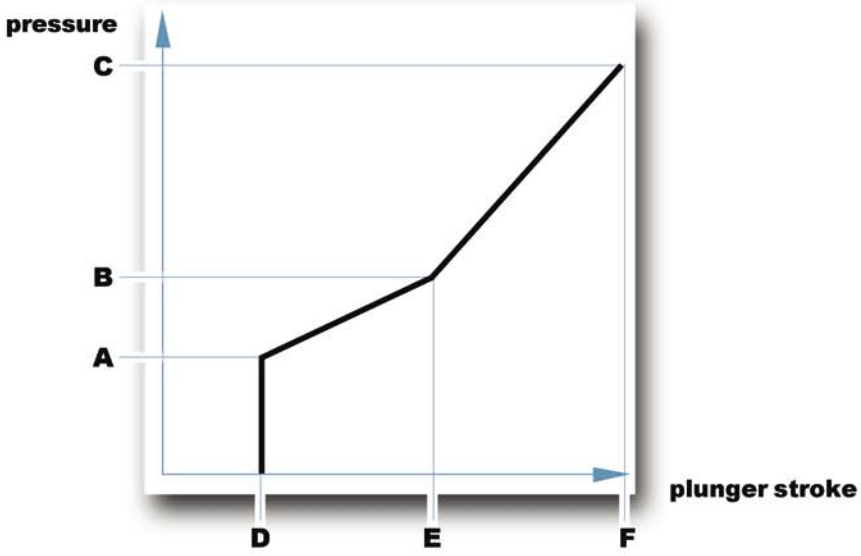
Linear Characteristics Without Step... Continued

Output Pressure (bar)		Plunger Stroke (mm)		Metering Curve Number
A	B	C	D	
4.9	18.9	1.0	8.5	091
4.9	17.5	1.0	8.0	117A
5.0	15.9	1.0	8.5	026
5.0	19.7	1.8	8.5	127
5.0	14.5	1.0	8.5	019
5.0	12.0	1.0	8.5	023
5.0	21.5	1.8	7.3	099A
5.0	23.0	1.0	8.5	116A
5.0	19.1	1.0	8.5	018
5.0	20.0	1.0	9.0	094
5.0	21.0	1.0	6.5	038
5.0	24.5	1.8	8.5	109
5.0	26.8	1.0	8.5	503
5.1	15.1	1.0	8.5	118
5.2	19.1	1.2	8.5	112A
5.2	24.2	0.9	8.5	028
5.2	17.8	1.8	8.5	128
5.6	22.0	1.4	9.0	121
5.6	16.3	1.8	7.5	523
5.6	18.2	1.8	8.5	524
5.7	21.1	1.0	6.3	100
5.8	16.6	1.4	7.2	008
5.8	24.0	1.8	8.5	122
5.8	22.0	1.8	8.5	015
5.8	18.9	1.8	7.2	016
5.8	19.1	1.0	6.5	017
5.8	23.2	1.8	9.0	037
5.8	20.8	1.0	7.2	101
5.8	23.9	1.0	8.5	113
5.8	23.1	1.0	9.0	036
5.8	22.0	1.0	8.5	088
5.8	19.9	1.0	7.5	107
5.8	22.4	0.9	8.5	082
5.8	22.0	1.8	8.5	090
5.8	19.8	1.0	8.5	106A
5.8	26.0	1.0	8.5	115A
5.9	12.9	1.0	8.5	065
6.0	21,7	2.0	6,3	007
6.0	31.3	1.8	9.0	001



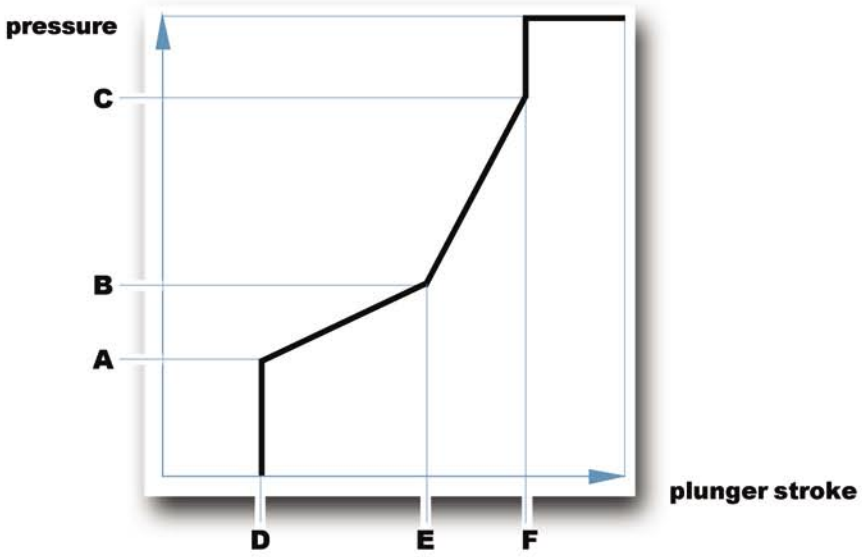
Output Pressure (bar)		Plunger Stroke (mm)		Metering Curve Number
A	B	C	D	
6.0	22.5	1.8	6.5	002
6.0	25.0	1.8	7.2	006
6.2	21.9	1.8	7.2	099
6.2	22.8	1.8	7.5	104
6.2	19.3	1.8	6.3	105
6.2	21.9	1.8	7.2	106
6.5	14.0	1.0	8.5	020
6.5	20.6	1.0	8.5	043
6.7	16.2	1.0	8.5	127A
6.8	19.8	1.8	7.2	029
6.9	23.1	1.0	8.5	125
6.9	22.4	1.4	8.5	525
7.0	26,7	0,5	8,5	135
7.2	15.3	1.0	8.9	100A
7.2	22.6	1.8	7.5	123
7.3	23.0	1.0	7.5	111
7.3	25.4	1.0	8.5	112
7.3	23.1	1.8	7.2	108
7.5	30.1	1.4	9.0	526
7.5	23.7	1.0	8.5	124
7.6	24.6	0.5	8.5	136
8.0	24,2	0,9	8,5	024
8.0	20.6	1.8	8.5	044
8.1	24.3	1.0	8.5	014
8.2	24.4	1.8	8.5	013
8.4	50.0	1.0	8.5	073
8.4	21.1	3.3	8.5	098
8.4	27.9	1.8	8.5	120
9.0	15,5	2.0	8,5	084
9.1	26.3	1.0	9.0	003
9.8	26.0	1.8	8.5	032
13.2	29.5	1.0	8.5	031

LINEAR CHARACTERISTICS WITH STEP... CONTINUED



Output Pressure (bar)			Plunger Stroke (mm)			Metering Curve Number
A	B	C	D	E	F	
1.5	8.0	19.6	2.0	7.0	9.5	124
0.0	20.0	94.2	0.8	6.0	9.5	130
2.0	8.0	30.5	1.0	5.0	9.5	191

Broken Characteristics With Step



Output Pressure (bar)			Plunger Stroke (mm)			Metering Curve Number
A	B	C	D	E	F	
0.2	2.8	8.4	0.5	5.7	8.4	102
1.0	4.5	9.0	1.0	7.5	8.5	114
1.0	8.3	14.0	1.1	7.0	8.4	118
1.2	4.0	11.0	0.6	5.4	8.4	111
1.5	8.0	15.0	2.0	7.0	8.5	103
2.0	5.0	8.0	1.0	7.0	8.5	164
2.0	7.0	20.0	1.0	5.0	8.5	174
5.0	9.5	21.5	1.3	5.0	8.6	154
7.5	15.0	20.7	1.2	5.4	6.5	184
7.5	15.0	28.0	1.8	6.0	8.5	134
8.5	12.5	32.0	1.0	3.0	8.5	144

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- Factory
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