
MPS1

WIERTŁO PEŁNOWĘGLIKOWE O WYSOKIEJ WYDAJNOŚCI



MPS1

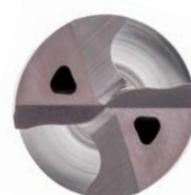
WIERTŁO PEŁNOWĘGLIKOWE O WYSOKIEJ WYDAJNOŚCI



LxDC 3 - 8

MOCNA KRAWĘDŹ SKRAWAJĄCA

Do wysokowydajnego wiercenia

LxDC 10 - 40
LxDC 2 (PC)

ZOPTYMALIZOWANA GEOMETRIA

Do wiercenia bardzo głębokich otworów, o optymalnej jakości otworu

DP1021

Nowa technologia pokrycia PVD AlTiCrN zapewnia większą trwałość narzędzia, zwłaszcza przy wyższych szybkościach i posuwach.

DOKŁADNOŚĆ

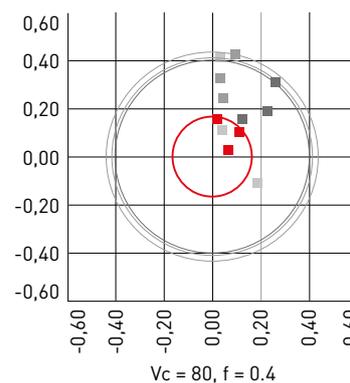
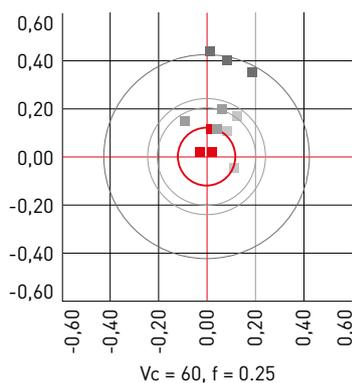
Podwójna tyśinka zapewnia wyższą jakość wykończenia powierzchni otworu.



- Większa objętość chłodziwa
- Zoptymalizowany przepływ chłodziwa po tyśince
- Szybsze odprowadzanie wióra

STABILNOŚĆ (ANALIZA CAE)

Dzięki optymalizacji średnicy rdzenia i kąta pochylenia rowka wiórowego, konstrukcja wiertel superdługich MPS1 zapewnia o 20 % większą wytrzymałość na wyboczenie.



■ Narzędzie produkcji Mitsubishi Materials

■ Gatunek konwencjonalny A

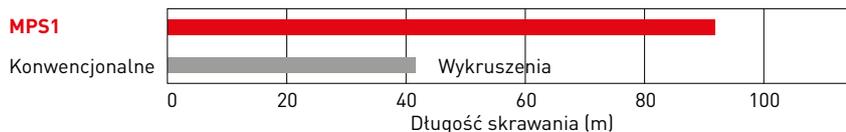
■ Gatunek konwencjonalny B

■ Gatunek konwencjonalny C

PRZYKŁADY ZASTOSOWAŃ

TEST TRWAŁOŚCI NARZĘDZIA Ø8 MM W STANDARDOWYCH WARUNKACH SKRAWANIA

Materiał obrabiany	DIN C50
Głębokość otworu (mm)	40
Vc (m/min)	120
f (mm/obr.)	0.25
Chłodziwo	Emulsja wodno-olejowa
Obrabiarka	Pionowe M/C
Wynik	MPS1 uzyskało 2.5-krotnie większą trwałość.



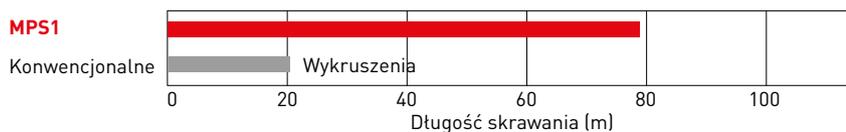
MPS1



Inny producent

TEST TRWAŁOŚCI NARZĘDZIA Ø8 MM W WARUNKACH OBRÓBKI SZYBKOŚCIOWEJ

Materiał obrabiany	DIN C50
Głębokość otworu (mm)	40
Vc (m/min)	200
f (mm/obr.)	0.35
Chłodziwo	Emulsja wodno-olejowa
Obrabiarka	Pionowe M/C
Wynik	MPS1 uzyskało 4-krotnie większą trwałość.



MPS1

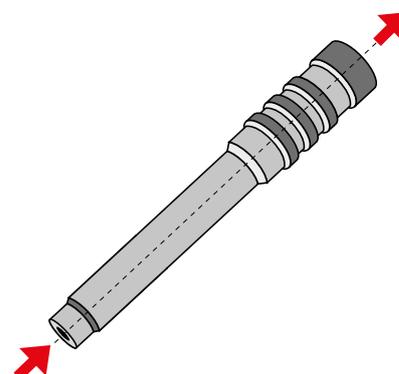
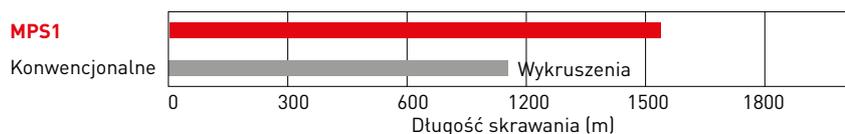


Inny producent

WIERTŁA SUPERDŁUGIE

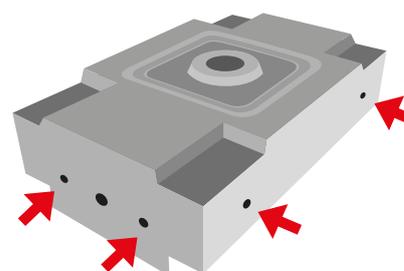
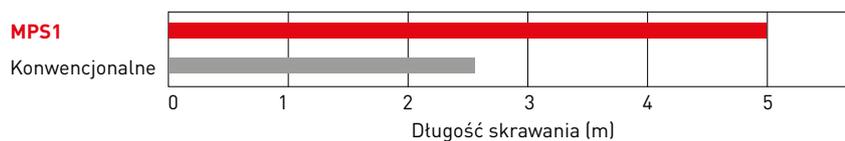
WIERCENIE OTWORU LUFOWEGO

Wiertło	MPS1-0380-L12C
Materiał obrabiany	115MnPb30
Głębokość otworu (m)	45 (12 l/d)
Vc (m/min)	75
f (mm/obr.)	0.135
Obrabiarka	Automat tokarski wzdłużny z przesuwym wrzeciennikiem.
Wynik	Uzyskano o 36 % większą trwałość wiertła MPS1.



WIERCENIE OTWORÓW CHŁODZĄCYCH

Wiertło	MPS1-0800-L30C
Materiał obrabiany	CR7 V-L (stal do pracy na zimno, 1130 N/mm ²)
Głębokość otworu (m)	250 (30 l/d)
Vc (m/min)	120
f (mm/obr.)	0.35
Obrabiarka	Poziome centrum obróbcze
Wynik	Uzyskano 2-krotnie większą trwałość wiertła MPS1. Odchyłka prostoliniowości osi otworu poniżej 0,15 mm.



MPS1



l/d=2
PC



l/d=3-5
l/d=10-40

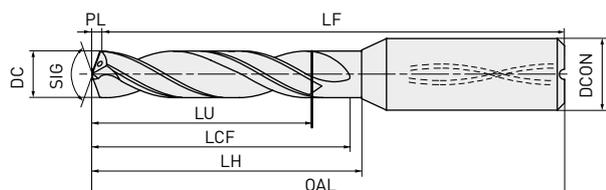


l/d=8

WIERTŁO PEŁNOWĘGLIKOWE

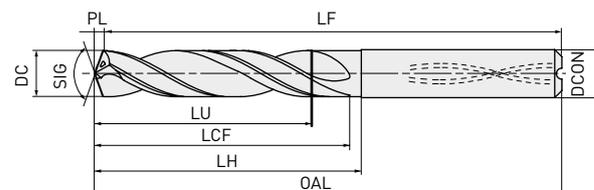


1 Cylindryczny typ trzonka z szyjką stożkową



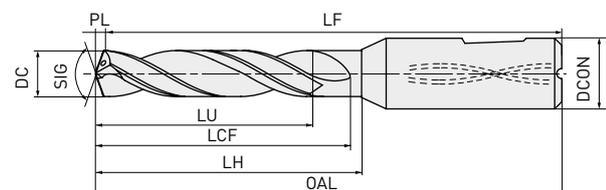
MPS1----S/L-DIN-C/L8C -L40C

2 Cylindryczny typ trzonka



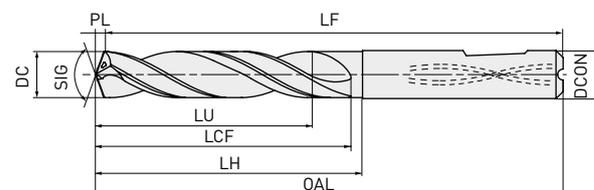
MPS1----S/L-DIN-C/L8C -L40C

3 Trzonek typu Whistle notch z szyjką stożkową



MPS1----S/L-DIN (Whistle notch)

4 Trzonek typu Whistle notch



MPS1----S/L-DIN (Whistle notch)

Wiertła S-DIN(C), L-DIN(C) i L8C o DC do 6 mm mają okrągłe przelotowe kanały doprowadzające chłodziwo.

Wiertła od L10C do L40C o DC do 4,9 mm mają okrągłe przelotowe kanały doprowadzające chłodziwo.

SIG : l/d 3 - 5, 10 - 40 = 140°, 8 = 135°, PC = 145°



	3<DC≤6	6<DC≤10	10<DC≤18	18<DC≤20
DC Tolerancja (DIN/PC) mm	+0.010 -0.002	+0.010 -0.005	+0.005 -0.013	+0.005 -0.016



DC Tolerancja (L_C) mm	0 -0.012	0 -0.015	0 -0.018	0 -0.021
DCON Tolerancja mm	0 -0.008	0 -0.009	0 -0.011	0 -0.013

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0300S-DIN	3.0	3	61.5	15.0	19.5	24.5	61	0.5	6	□	3
MPS1-0300S-DIN-C		3	61.5	15.0	19.5	24.5	61	0.5	6	●	1
MPS1-0300L-DIN		5	65.5	20.0	24.5	28.5	65	0.5	6	□	3
MPS1-0300L-DIN-C		5	65.5	20.0	24.5	28.5	65	0.5	6	●	1
MPS1-0300-PC		2	55.5	6.5	16.5	19.7	55	0.5	6	●	1
MPS1-0300-L8C		8	76.6	24.6	33.6	39.6	76	0.6	6	●	1
MPS1-0300-L10C		10	79.5	30.5	37.5	42.5	79	0.5	6	●	1
MPS1-0300-L12C		12	85.5	36.5	43.5	48.5	85	0.5	6	●	1
MPS1-0300-L15C		15	94.5	45.5	52.5	57.5	94	0.5	6	●	1
MPS1-0300-L20C		20	109.5	60.5	67.5	72.5	109	0.5	6	●	1
MPS1-0300-L25C		25	124.5	75.5	82.5	87.5	124	0.5	6	●	1
MPS1-0300-L30C		30	139.5	90.5	97.5	102.5	139	0.5	6	●	1
MPS1-0300-L35C		35	158.5	105.5	113.5	121.5	158	0.5	6	□	1
MPS1-0300-L40C		40	173.5	120.5	128.5	136.5	173	0.5	6	●	1

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WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ	
MPS1-0305S-DIN	3.05	3	61.6	15.0	19.6	24.6	61	0.6	6	□	3	
MPS1-0305S-DIN-C		3	61.6	15.0	19.6	24.6	61	0.6	6	●	1	
MPS1-0305L-DIN		5	65.6	20.0	24.6	28.6	65	0.6	6	□	3	
MPS1-0305L-DIN-C		5	65.6	20.0	24.6	28.6	65	0.6	6	●	1	
MPS1-0310S-DIN	3.1	3	61.6	14.9	19.6	24.6	61	0.6	6	□	3	
MPS1-0310S-DIN-C		3	61.6	14.9	19.6	24.6	61	0.6	6	●	1	
MPS1-0310L-DIN		5	65.6	19.9	24.6	28.6	65	0.6	6	□	3	
MPS1-0310L-DIN-C		5	65.6	19.9	24.6	28.6	65	0.6	6	●	1	
MPS1-0310-PC		2	55.5	6.7	18.5	21.6	55	0.5	6	●	1	
MPS1-0310-L8C		8	82.6	25.4	39.6	45.6	82	0.6	6	●	1	
MPS1-0310-L10C		10	86.6	31.6	44.6	49.6	86	0.6	6	□	1	
MPS1-0310-L12C		12	93.6	37.8	51.6	56.6	93	0.6	6	●	1	
MPS1-0310-L15C		15	103.6	47.1	61.6	66.6	103	0.6	6	●	1	
MPS1-0310-L20C		20	121.6	62.6	79.6	84.6	121	0.6	6	●	1	
MPS1-0310-L25C		25	138.6	78.1	96.6	101.6	138	0.6	6	●	1	
MPS1-0310-L30C		30	156.6	93.6	114.6	119.6	156	0.6	6	●	1	
MPS1-0310-L35C		35	175.6	109.1	123.6	138.6	175	0.6	6	□	1	
MPS1-0310-L40C		40	190.6	124.6	138.6	153.6	190	0.6	6	●	1	
MPS1-0320S-DIN		3.2	3	61.6	14.8	19.6	24.6	61	0.6	6	□	3
MPS1-0320S-DIN-C			3	61.6	14.8	19.6	24.6	61	0.6	6	●	1
MPS1-0320L-DIN	5		65.6	19.8	24.6	28.6	65	0.6	6	□	3	
MPS1-0320L-DIN-C	5		65.6	19.8	24.6	28.6	65	0.6	6	●	1	
MPS1-0320-PC	2		55.5	6.9	18.5	21.5	55	0.5	6	●	1	
MPS1-0320-L8C	8		82.7	26.3	39.7	45.7	82	0.7	6	●	1	
MPS1-0320-L10C	10		86.6	32.6	44.6	49.6	86	0.6	6	□	1	
MPS1-0320-L12C	12		93.6	39.0	51.6	56.6	93	0.6	6	●	1	
MPS1-0320-L15C	15		103.6	48.6	61.6	66.6	103	0.6	6	●	1	
MPS1-0320-L20C	20		121.6	64.6	79.6	84.6	121	0.6	6	●	1	
MPS1-0320-L25C	25		138.6	80.6	96.6	101.6	138	0.6	6	●	1	
MPS1-0320-L30C	30		156.6	96.6	114.6	119.6	156	0.6	6	●	1	
MPS1-0320-L35C	35		175.6	112.6	123.6	138.6	175	0.6	6	□	1	
MPS1-0320-L40C	40		190.6	128.6	138.6	153.6	190	0.6	6	●	1	
MPS1-0330S-DIN	3.3		3	61.6	14.7	19.6	24.6	61	0.6	6	□	3
MPS1-0330S-DIN-C			3	61.6	14.7	19.6	24.6	61	0.6	6	●	1
MPS1-0330L-DIN		5	65.6	20.2	25.1	28.6	65	0.6	6	□	3	
MPS1-0330L-DIN-C		5	65.6	20.2	25.1	28.6	65	0.6	6	●	1	
MPS1-0330-PC		2	55.5	7.1	18.5	21.4	55	0.5	6	●	1	
MPS1-0330-L8C		8	82.7	27.1	39.7	45.7	82	0.7	6	●	1	
MPS1-0330-L10C		10	86.6	33.6	44.6	49.6	86	0.6	6	□	1	
MPS1-0330-L12C		12	93.6	40.2	51.6	56.6	93	0.6	6	●	1	
MPS1-0330-L15C		15	103.6	50.1	61.6	66.6	103	0.6	6	●	1	
MPS1-0330-L20C		20	121.6	66.6	79.6	84.6	121	0.6	6	●	1	
MPS1-0330-L25C		25	138.6	83.1	96.6	101.6	138	0.6	6	●	1	
MPS1-0330-L30C		30	156.6	99.6	114.6	119.6	156	0.6	6	●	1	
MPS1-0330-L35C		35	175.6	116.1	132.6	138.6	175	0.6	6	□	1	
MPS1-0330-L40C		40	190.6	132.6	148.6	153.6	190	0.6	6	●	1	

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WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0340S-DIN	3.4	3	61.6	14.5	19.6	24.6	61	0.6	6	□	3
MPS1-0340S-DIN-C		3	61.6	14.5	19.6	24.6	61	0.6	6	●	1
MPS1-0340L-DIN		5	65.6	20.0	25.1	28.6	65	0.6	6	□	3
MPS1-0340L-DIN-C		5	65.6	20.0	25.1	28.6	65	0.6	6	●	1
MPS1-0340-PC		2	55.5	7.3	18.5	21.3	55	0.5	6	●	1
MPS1-0340-L8C		8	82.7	27.9	39.7	45.7	82	0.7	6	●	1
MPS1-0340-L10C		10	86.6	34.6	44.6	49.6	86	0.6	6	□	1
MPS1-0340-L12C		12	93.6	41.4	51.6	56.6	93	0.6	6	●	1
MPS1-0340-L15C		15	103.6	51.6	61.6	66.6	103	0.6	6	●	1
MPS1-0340-L20C		20	121.6	68.6	79.6	84.6	121	0.6	6	●	1
MPS1-0340-L25C		25	138.6	85.6	96.6	101.6	138	0.6	6	●	1
MPS1-0340-L30C		30	156.6	102.6	114.6	119.6	156	0.6	6	●	1
MPS1-0340-L35C		35	175.6	119.6	132.6	138.6	175	0.6	6	□	1
MPS1-0340-L40C		40	190.6	136.6	148.6	153.6	190	0.6	6	●	1
MPS1-0350S-DIN	3.5	3	61.6	14.4	19.6	24.6	61	0.6	6	□	3
MPS1-0350S-DIN-C		3	61.6	14.4	19.6	24.6	61	0.6	6	●	1
MPS1-0350L-DIN		5	65.6	19.9	25.1	28.6	65	0.6	6	□	3
MPS1-0350L-DIN-C		5	65.6	19.9	25.1	28.6	65	0.6	6	●	1
MPS1-0350-PC		2	55.6	7.6	18.6	21.2	55	0.6	6	●	1
MPS1-0350-L8C		8	82.7	28.7	39.7	45.7	82	0.7	6	●	1
MPS1-0350-L10C		10	86.6	35.6	44.6	49.6	86	0.6	6	□	1
MPS1-0350-L12C		12	93.6	42.6	51.6	56.6	93	0.6	6	●	1
MPS1-0350-L15C		15	103.6	53.1	61.6	66.6	103	0.6	6	●	1
MPS1-0350-L20C		20	121.6	70.6	79.6	84.6	121	0.6	6	●	1
MPS1-0350-L25C		25	138.6	88.1	96.6	101.6	138	0.6	6	●	1
MPS1-0350-L30C		30	156.6	105.6	114.6	119.6	156	0.6	6	●	1
MPS1-0350-L35C		35	175.6	123.1	132.6	138.6	175	0.6	6	□	1
MPS1-0350-L40C		40	190.6	140.6	148.6	153.6	190	0.6	6	●	1
MPS1-0360S-DIN	3.6	3	61.7	14.3	19.7	24.7	61	0.7	6	□	3
MPS1-0360S-DIN-C		3	61.7	14.3	19.7	24.7	61	0.7	6	●	1
MPS1-0360L-DIN		5	65.7	19.8	25.2	28.7	65	0.7	6	□	3
MPS1-0360L-DIN-C		5	65.7	19.8	25.2	28.7	65	0.7	6	●	1
MPS1-0360-PC		2	55.6	7.8	20.6	23.1	55	0.6	6	□	1
MPS1-0360-L8C		8	87.7	29.5	44.7	50.7	87	0.7	6	●	1
MPS1-0360-L10C		10	92.7	36.7	50.7	55.7	92	0.7	6	□	1
MPS1-0360-L12C		12	100.7	43.9	58.7	63.7	100	0.7	6	●	1
MPS1-0360-L15C		15	112.7	54.7	70.7	75.7	112	0.7	6	●	1
MPS1-0360-L20C		20	132.7	72.7	90.7	95.7	132	0.7	6	●	1
MPS1-0360-L25C		25	152.7	90.7	110.7	115.7	152	0.7	6	□	1
MPS1-0360-L30C		30	172.7	108.7	130.7	135.7	172	0.7	6	●	1
MPS1-0360-L35C		35	192.7	126.7	143.7	155.7	192	0.7	6	□	1
MPS1-0360-L40C		40	212.7	144.7	160.7	175.7	212	0.7	6	●	1

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WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ	
MPS1-0370S-DIN	3.7	3	61.7	14.1	19.7	24.7	61	0.7	6	□	3	
MPS1-0370S-DIN-C		3	61.7	14.1	19.7	24.7	61	0.7	6	●	1	
MPS1-0370L-DIN		5	65.7	20.1	25.7	28.7	65	0.7	6	□	3	
MPS1-0370L-DIN-C		5	65.7	20.1	25.7	28.7	65	0.7	6	●	1	
MPS1-0370-PC		2	55.6	8.0	20.6	23.1	55	0.6	6	●	1	
MPS1-0370-L8C		8	87.8	30.4	44.8	50.8	87	0.8	6	●	1	
MPS1-0370-L10C		10	92.7	37.7	50.7	55.7	92	0.7	6	□	1	
MPS1-0370-L12C		12	100.7	45.1	58.7	63.7	100	0.7	6	●	1	
MPS1-0370-L15C		15	112.7	56.2	70.7	75.7	112	0.7	6	●	1	
MPS1-0370-L20C		20	132.7	74.7	90.7	95.7	132	0.7	6	●	1	
MPS1-0370-L25C		25	152.7	93.2	110.7	115.7	152	0.7	6	●	1	
MPS1-0370-L30C		30	172.7	111.7	130.7	135.7	172	0.7	6	●	1	
MPS1-0370-L35C		35	192.7	130.2	143.7	155.7	192	0.7	6	□	1	
MPS1-0370-L40C		40	212.7	148.7	160.7	175.7	212	0.7	6	●	1	
MPS1-0380S-DIN		3.8	3	65.7	18.0	23.7	28.7	65	0.7	6	□	3
MPS1-0380S-DIN-C			3	65.7	18.0	23.7	28.7	65	0.7	6	●	1
MPS1-0380L-DIN	5		73.7	28.0	33.7	36.7	73	0.7	6	□	3	
MPS1-0380L-DIN-C	5		73.7	28.0	33.7	36.7	73	0.7	6	●	1	
MPS1-0380-PC	2		55.6	8.2	20.6	23.0	55	0.6	6	●	1	
MPS1-0380-L8C	8		87.8	31.2	44.8	50.8	87	0.8	6	●	1	
MPS1-0380-L10C	10		92.7	38.7	50.7	55.7	92	0.7	6	□	1	
MPS1-0380-L12C	12		100.7	46.3	58.7	63.7	100	0.7	6	●	1	
MPS1-0380-L15C	15		112.7	57.7	70.7	75.7	112	0.7	6	●	1	
MPS1-0380-L20C	20		132.7	76.7	90.7	95.7	132	0.7	6	●	1	
MPS1-0380-L25C	25		152.7	95.7	110.7	115.7	152	0.7	6	●	1	
MPS1-0380-L30C	30		172.7	114.7	130.7	135.7	172	0.7	6	●	1	
MPS1-0380-L35C	35		192.7	133.7	150.7	155.7	192	0.7	6	□	1	
MPS1-0380-L40C	40		212.7	152.7	170.7	175.7	212	0.7	6	●	1	
MPS1-0390S-DIN	3.9		3	65.7	17.9	23.7	28.7	65	0.7	6	□	3
MPS1-0390S-DIN-C			3	65.7	17.9	23.7	28.7	65	0.7	6	●	1
MPS1-0390L-DIN		5	73.7	27.9	33.7	36.7	73	0.7	6	□	3	
MPS1-0390L-DIN-C		5	73.7	27.9	33.7	36.7	73	0.7	6	●	1	
MPS1-0390-PC		2	55.6	8.4	20.6	22.9	55	0.6	6	●	1	
MPS1-0390-L8C		8	87.8	32.0	44.8	50.8	87	0.8	6	●	1	
MPS1-0390-L10C		10	92.7	39.7	50.7	55.7	92	0.7	6	□	1	
MPS1-0390-L12C		12	100.7	47.5	58.7	63.7	100	0.7	6	●	1	
MPS1-0390-L15C		15	112.7	59.2	70.7	75.7	112	0.7	6	●	1	
MPS1-0390-L20C		20	132.7	78.7	90.7	95.7	132	0.7	6	●	1	
MPS1-0390-L25C		25	152.7	98.2	110.7	115.7	152	0.7	6	□	1	
MPS1-0390-L30C		30	172.7	117.7	130.7	135.7	172	0.7	6	●	1	
MPS1-0390-L35C		35	192.7	137.2	150.7	155.7	192	0.7	6	□	1	
MPS1-0390-L40C		40	212.7	156.7	170.7	175.7	212	0.7	6	●	1	

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ	
MPS1-0400S-DIN	4.0	3	65.7	17.7	23.7	28.7	65	0.7	6	□	3	
MPS1-0400S-DIN-C		3	65.7	17.7	23.7	28.7	65	0.7	6	●	1	
MPS1-0400L-DIN		5	73.7	27.7	33.7	36.7	73	0.7	6	□	3	
MPS1-0400L-DIN-C		5	73.7	27.7	33.7	36.7	73	0.7	6	●	1	
MPS1-0400-PC		2	55.6	8.6	20.6	22.8	55	0.6	6	●	1	
MPS1-0400-L8C		8	87.8	32.8	44.8	50.8	87	0.8	6	●	1	
MPS1-0400-L10C		10	92.7	40.7	50.7	55.7	92	0.7	6	●	1	
MPS1-0400-L12C		12	100.7	48.7	58.7	63.7	100	0.7	6	●	1	
MPS1-0400-L15C		15	112.7	60.7	70.7	75.7	112	0.7	6	●	1	
MPS1-0400-L20C		20	132.7	80.7	90.7	95.7	132	0.7	6	●	1	
MPS1-0400-L25C		25	152.7	100.7	110.7	115.7	152	0.7	6	●	1	
MPS1-0400-L30C		30	172.7	120.7	130.7	135.7	172	0.7	6	●	1	
MPS1-0400-L35C		35	192.7	140.7	150.7	155.7	192	0.7	6	□	1	
MPS1-0400-L40C		40	212.7	160.7	170.7	175.7	212	0.7	6	●	1	
MPS1-0405S-DIN		4.05	3	65.7	17.7	23.7	28.7	65	0.7	6	□	3
MPS1-0405S-DIN-C			3	65.7	17.7	23.7	28.7	65	0.7	6	●	1
MPS1-0405L-DIN	5		73.7	27.7	33.7	36.7	73	0.7	6	□	3	
MPS1-0405L-DIN-C	5		73.7	27.7	33.7	36.7	73	0.7	6	●	1	
MPS1-0410S-DIN	4.1	3	65.7	17.6	23.7	28.7	65	0.7	6	□	3	
MPS1-0410S-DIN-C		3	65.7	17.6	23.7	28.7	65	0.7	6	●	1	
MPS1-0410L-DIN		5	73.7	27.6	33.7	36.7	73	0.7	6	□	3	
MPS1-0410L-DIN-C		5	73.7	27.6	33.7	36.7	73	0.7	6	●	1	
MPS1-0410-PC		2	62.6	8.8	22.6	24.7	62	0.6	6	●	1	
MPS1-0410-L8C		8	92.8	33.6	50.8	55.8	92	0.8	6	●	1	
MPS1-0410-L10C		10	99.7	41.7	58.7	62.7	99	0.7	6	□	1	
MPS1-0410-L12C		12	108.7	49.9	67.7	71.7	108	0.7	6	●	1	
MPS1-0410-L15C		15	121.7	62.2	80.7	84.7	121	0.7	6	●	1	
MPS1-0410-L20C		20	144.7	82.7	103.7	107.7	144	0.7	6	●	1	
MPS1-0410-L25C		25	166.7	103.2	125.7	129.7	166	0.7	6	●	1	
MPS1-0410-L30C		30	189.7	123.7	148.7	152.7	189	0.7	6	●	1	
MPS1-0410-L35C		35	211.7	144.2	164.7	174.7	211	0.7	6	□	1	
MPS1-0410-L40C		40	235.7	164.7	184.7	198.7	235	0.7	6	●	1	
MPS1-0420S-DIN		4.2	3	65.8	17.5	23.8	28.8	65	0.8	6	□	3
MPS1-0420S-DIN-C			3	65.8	17.5	23.8	28.8	65	0.8	6	●	1
MPS1-0420L-DIN	5		73.8	28.0	34.3	36.8	73	0.8	6	□	3	
MPS1-0420L-DIN-C	5		73.8	28.0	34.3	36.8	73	0.8	6	●	1	
MPS1-0420-PC	2		62.7	9.1	22.7	24.6	62	0.7	6	●	1	
MPS1-0420-L8C	8		92.9	34.5	50.9	55.9	92	0.9	6	●	1	
MPS1-0420-L10C	10		99.8	42.8	58.8	62.8	99	0.8	6	□	1	
MPS1-0420-L12C	12		108.8	51.2	67.8	71.8	108	0.8	6	●	1	
MPS1-0420-L15C	15		121.8	63.8	80.8	84.8	121	0.8	6	●	1	
MPS1-0420-L20C	20		144.8	84.8	103.8	107.8	144	0.8	6	●	1	
MPS1-0420-L25C	25		166.8	105.8	125.8	129.8	166	0.8	6	●	1	
MPS1-0420-L30C	30		189.8	126.8	148.8	152.8	189	0.8	6	●	1	
MPS1-0420-L35C	35		211.8	147.8	164.8	174.8	211	0.8	6	●	1	
MPS1-0420-L40C	40		235.8	168.8	184.8	198.8	235	0.8	6	●	1	

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MPS1

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Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0430S-DIN	4.3	3	65.8	17.3	23.8	28.8	65	0.8	6	□	3
MPS1-0430S-DIN-C		3	65.8	17.3	23.8	28.8	65	0.8	6	●	1
MPS1-0430L-DIN		5	73.8	27.8	34.3	36.8	73	0.8	6	□	3
MPS1-0430L-DIN-C		5	73.8	27.8	34.3	36.8	73	0.8	6	●	1
MPS1-0430-PC		2	62.7	9.3	22.7	24.5	62	0.7	6	●	1
MPS1-0430-L8C		8	92.9	35.3	50.9	55.9	92	0.9	6	●	1
MPS1-0430-L10C		10	99.8	43.8	58.8	62.8	99	0.8	6	□	1
MPS1-0430-L12C		12	108.8	52.4	67.8	71.8	108	0.8	6	●	1
MPS1-0430-L15C		15	121.8	65.3	80.8	84.8	121	0.8	6	●	1
MPS1-0430-L20C		20	144.8	86.8	103.8	107.8	144	0.8	6	●	1
MPS1-0430-L25C		25	166.8	108.3	125.8	129.8	166	0.8	6	●	1
MPS1-0430-L30C		30	189.8	129.8	148.8	152.8	189	0.8	6	●	1
MPS1-0430-L35C		35	211.8	151.3	170.8	174.8	211	0.8	6	□	1
MPS1-0430-L40C		40	235.8	172.8	194.8	198.8	235	0.8	6	●	1
MPS1-0440S-DIN		4.4	3	65.8	17.2	23.8	28.8	65	0.8	6	□
MPS1-0440S-DIN-C	3		65.8	17.2	23.8	28.8	65	0.8	6	●	1
MPS1-0440L-DIN	5		73.8	27.7	34.3	36.8	73	0.8	6	□	3
MPS1-0440L-DIN-C	5		73.8	27.7	34.3	36.8	73	0.8	6	●	1
MPS1-0440-PC	2		62.7	9.5	22.7	24.4	62	0.7	6	●	1
MPS1-0440-L8C	8		92.9	36.1	50.9	55.9	92	0.9	6	●	1
MPS1-0440-L10C	10		99.8	44.8	58.8	62.8	99	0.8	6	□	1
MPS1-0440-L12C	12		108.8	53.6	67.8	71.8	108	0.8	6	●	1
MPS1-0440-L15C	15		121.8	66.8	80.8	84.8	121	0.8	6	●	1
MPS1-0440-L20C	20		144.8	88.8	103.8	107.8	144	0.8	6	□	1
MPS1-0440-L25C	25		166.8	110.8	125.8	129.8	166	0.8	6	□	1
MPS1-0440-L30C	30		189.8	132.8	148.8	152.8	189	0.8	6	□	1
MPS1-0440-L35C	35		211.8	154.8	170.8	174.8	211	0.8	6	□	1
MPS1-0440-L40C	40		235.8	176.8	194.8	198.8	235	0.8	6	●	1
MPS1-0450S-DIN	4.5		3	65.8	17.1	23.8	28.8	65	0.8	6	□
MPS1-0450S-DIN-C		3	65.8	17.1	23.8	28.8	65	0.8	6	●	1
MPS1-0450L-DIN		5	73.8	27.6	34.3	36.8	73	0.8	6	□	3
MPS1-0450L-DIN-C		5	73.8	27.6	34.3	36.8	73	0.8	6	●	1
MPS1-0450-PC		2	62.7	9.7	22.7	24.3	62	0.7	6	●	1
MPS1-0450-L8C		8	92.9	36.9	50.9	55.9	92	0.9	6	●	1
MPS1-0450-L10C		10	99.8	45.8	58.8	62.8	99	0.8	6	□	1
MPS1-0450-L12C		12	108.8	54.8	67.8	71.8	108	0.8	6	●	1
MPS1-0450-L15C		15	121.8	68.3	80.8	84.8	121	0.8	6	●	1
MPS1-0450-L20C		20	144.8	90.8	103.8	107.8	144	0.8	6	●	1
MPS1-0450-L25C		25	166.8	113.3	125.8	129.8	166	0.8	6	●	1
MPS1-0450-L30C		30	189.8	135.8	148.8	152.8	189	0.8	6	●	1
MPS1-0450-L35C		35	211.8	158.3	170.8	174.8	211	0.8	6	□	1
MPS1-0450-L40C		40	235.8	180.8	194.8	198.8	235	0.8	6	●	1

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0460S-DIN	4.6	3	65.8	16.9	23.8	28.8	65	0.8	6	□	4
MPS1-0460S-DIN-C		3	65.8	16.9	23.8	28.8	65	0.8	6	●	2
MPS1-0460L-DIN		5	73.8	28.9	35.8	36.8	73	0.8	6	□	4
MPS1-0460L-DIN-C		5	73.8	28.9	35.8	36.8	73	0.8	6	●	2
MPS1-0460-PC		2	62.7	9.9	24.7	27.7	62	0.7	6	●	2
MPS1-0460-L8C		8	96.0	37.8	56.0	59.0	95	1.0	6	●	2
MPS1-0460-L10C		10	105.8	46.8	65.8	68.8	105	0.8	6	□	2
MPS1-0460-L12C		12	115.8	56.0	75.8	78.8	115	0.8	6	●	2
MPS1-0460-L15C		15	130.8	69.8	90.8	93.8	130	0.8	6	●	2
MPS1-0460-L20C		20	155.8	92.8	115.8	118.8	155	0.8	6	●	2
MPS1-0460-L25C		25	180.8	115.8	140.8	143.8	180	0.8	6	●	2
MPS1-0460-L30C		30	205.8	138.8	165.8	168.8	205	0.8	6	●	2
MPS1-0460-L35C		35	229.8	161.8	184.8	192.8	229	0.8	6	□	2
MPS1-0460-L40C		40	254.8	184.8	204.8	217.8	254	0.8	6	●	2
MPS1-0465S-DIN	4.65	3	65.8	16.9	23.8	28.8	65	0.8	6	□	4
MPS1-0465S-DIN-C		3	65.8	16.9	23.8	28.8	65	0.8	6	●	2
MPS1-0465L-DIN		5	73.8	28.9	35.8	36.8	73	0.8	6	□	4
MPS1-0465L-DIN-C		5	73.8	28.9	35.8	36.8	73	0.8	6	●	2
MPS1-0470S-DIN	4.7	3	65.9	16.8	23.9	28.9	65	0.9	6	□	4
MPS1-0470S-DIN-C		3	65.9	16.8	23.9	28.9	65	0.9	6	●	2
MPS1-0470L-DIN		5	73.9	28.8	35.9	36.9	73	0.9	6	□	4
MPS1-0470L-DIN-C		5	73.9	28.8	35.9	36.9	73	0.9	6	●	2
MPS1-0470-PC		2	62.7	10.1	24.7	27.7	62	0.7	6	●	2
MPS1-0470-L8C		8	96.0	38.6	56.0	59.0	95	1.0	6	●	2
MPS1-0470-L10C		10	105.9	47.9	65.9	68.9	105	0.9	6	□	2
MPS1-0470-L12C		12	115.9	57.3	75.9	78.9	115	0.9	6	●	2
MPS1-0470-L15C		15	130.9	71.4	90.9	93.9	130	0.9	6	●	2
MPS1-0470-L20C		20	155.9	94.9	115.9	118.9	155	0.9	6	●	2
MPS1-0470-L25C		25	180.9	118.4	140.9	143.9	180	0.9	6	●	2
MPS1-0470-L30C		30	205.9	141.9	165.9	168.9	205	0.9	6	●	2
MPS1-0470-L35C		35	229.9	165.4	184.9	192.9	229	0.9	6	□	2
MPS1-0470-L40C		40	254.9	188.9	204.9	217.9	254	0.9	6	●	2
MPS1-0480S-DIN	4.8	3	65.9	20.7	27.9	28.9	65	0.9	6	□	4
MPS1-0480S-DIN-C		3	65.9	20.7	27.9	28.9	65	0.9	6	●	2
MPS1-0480L-DIN		5	81.9	36.7	43.9	44.9	81	0.9	6	□	4
MPS1-0480L-DIN-C		5	81.9	36.7	43.9	44.9	81	0.9	6	●	2
MPS1-0480-PC		2	62.8	10.4	24.8	27.8	62	0.8	6	●	2
MPS1-0480-L8C		8	96.0	39.4	56.0	59.0	95	1.0	6	●	2
MPS1-0480-L10C		10	105.9	48.9	65.9	68.9	105	0.9	6	□	2
MPS1-0480-L12C		12	115.9	58.5	75.9	78.9	115	0.9	6	●	2
MPS1-0480-L15C		15	130.9	72.9	90.9	93.9	130	0.9	6	●	2
MPS1-0480-L20C		20	155.9	96.9	115.9	118.9	155	0.9	6	●	2
MPS1-0480-L25C		25	180.9	120.9	140.9	143.9	180	0.9	6	●	2
MPS1-0480-L30C		30	205.9	144.9	165.9	168.9	205	0.9	6	●	2
MPS1-0480-L35C		35	229.9	168.9	190.9	192.9	229	0.9	6	□	2
MPS1-0480-L40C		40	254.9	192.9	215.9	217.9	254	0.9	6	●	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ	
MPS1-0490S-DIN	4.9	3	65.9	20.5	27.9	28.9	65	0.9	6	□	4	
MPS1-0490S-DIN-C		3	65.9	20.5	27.9	28.9	65	0.9	6	●	2	
MPS1-0490L-DIN		5	81.9	36.5	43.9	44.9	81	0.9	6	□	4	
MPS1-0490L-DIN-C		5	81.9	36.5	43.9	44.9	81	0.9	6	●	2	
MPS1-0490-PC		2	62.8	10.6	24.8	27.8	62	0.8	6	●	2	
MPS1-0490-L8C		8	96.0	40.2	56.0	59.0	95	1.0	6	●	2	
MPS1-0490-L10C		10	105.9	49.9	65.9	68.9	105	0.9	6	□	2	
MPS1-0490-L12C		12	115.9	59.7	75.9	78.9	115	0.9	6	●	2	
MPS1-0490-L15C		15	130.9	74.4	90.9	93.9	130	0.9	6	●	2	
MPS1-0490-L20C		20	155.9	98.9	115.9	118.9	155	0.9	6	●	2	
MPS1-0490-L25C		25	180.9	123.4	140.9	143.9	180	0.9	6	●	2	
MPS1-0490-L30C		30	205.9	147.9	165.9	168.9	205	0.9	6	●	2	
MPS1-0490-L35C		35	229.9	172.4	190.9	192.9	229	0.9	6	□	2	
MPS1-0490-L40C		40	254.9	196.9	215.9	217.9	254	0.9	6	●	2	
MPS1-0500S-DIN		5.0	3	65.9	20.4	27.9	28.9	65	0.9	6	□	4
MPS1-0500S-DIN-C			3	65.9	20.4	27.9	28.9	65	0.9	6	●	2
MPS1-0500L-DIN	5		81.9	36.4	43.9	44.9	81	0.9	6	□	4	
MPS1-0500L-DIN-C	5		81.9	36.4	43.9	44.9	81	0.9	6	●	2	
MPS1-0500-PC	2		62.8	10.8	24.8	25.8	62	0.8	6	●	2	
MPS1-0500-L8C	8		96.0	41.0	56.0	59.0	95	1.0	6	●	2	
MPS1-0500-L10C	10		105.9	50.9	65.9	68.9	105	0.9	6	●	2	
MPS1-0500-L12C	12		115.9	60.9	75.9	78.9	115	0.9	6	●	2	
MPS1-0500-L15C	15		130.9	75.9	90.9	93.9	130	0.9	6	●	2	
MPS1-0500-L20C	20		155.9	100.9	115.9	118.9	155	0.9	6	●	2	
MPS1-0500-L25C	25		180.9	125.9	140.9	143.9	180	0.9	6	●	2	
MPS1-0500-L30C	30		205.9	150.9	165.9	168.9	205	0.9	6	●	2	
MPS1-0500-L35C	35		229.9	175.9	190.9	192.9	229	0.9	6	□	2	
MPS1-0500-L40C	40		254.9	200.9	215.9	217.9	254	0.9	6	●	2	
MPS1-0505S-DIN	5.05		3	65.9	20.3	27.9	28.9	65	0.9	6	□	4
MPS1-0505S-DIN-C			3	65.9	20.3	27.9	28.9	65	0.9	6	●	2
MPS1-0505L-DIN		5	81.9	36.3	43.9	44.9	81	0.9	6	□	4	
MPS1-0505L-DIN-C		5	81.9	36.3	43.9	44.9	81	0.9	6	●	2	
MPS1-0510S-DIN		5.1	3	65.9	20.3	27.9	28.9	65	0.9	6	□	4
MPS1-0510S-DIN-C			3	65.9	20.3	27.9	28.9	65	0.9	6	●	2
MPS1-0510L-DIN			5	81.9	36.3	43.9	44.9	81	0.9	6	□	4
MPS1-0510L-DIN-C			5	81.9	36.3	43.9	44.9	81	0.9	6	●	2
MPS1-0510-PC			2	66.8	11.0	26.8	28.8	66	0.8	6	●	2
MPS1-0510-L8C			8	102.1	41.9	62.1	65.1	101	1.1	6	●	2
MPS1-0510-L10C			10	112.9	51.9	72.9	75.9	112	0.9	6	□	2
MPS1-0510-L12C			12	123.9	62.1	83.9	86.9	123	0.9	6	●	2
MPS1-0510-L15C			15	139.9	77.4	99.9	102.9	139	0.9	6	●	2
MPS1-0510-L20C			20	167.9	102.9	127.9	130.9	167	0.9	6	●	2
MPS1-0510-L25C			25	194.9	128.4	154.9	157.9	194	0.9	6	●	2
MPS1-0510-L30C			30	222.9	153.9	182.9	185.9	222	0.9	6	●	2
MPS1-0510-L35C	35		248.9	179.4	203.9	211.9	248	0.9	6	□	2	
MPS1-0510-L40C	40		278.9	204.9	230.9	241.9	278	0.9	6	●	2	

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0520S-DIN	5.2	3	65.9	20.1	27.9	28.9	65	0.9	6	□	4
MPS1-0520S-DIN-C		3	65.9	20.1	27.9	28.9	65	0.9	6	●	2
MPS1-0520L-DIN		5	81.9	36.1	43.9	44.9	81	0.9	6	□	4
MPS1-0520L-DIN-C		5	81.9	36.1	43.9	44.9	81	0.9	6	●	2
MPS1-0520-PC		2	66.8	11.2	26.8	28.8	66	0.8	6	●	2
MPS1-0520-L8C		8	102.1	42.7	62.1	65.1	101	1.1	6	●	2
MPS1-0520-L10C		10	112.9	52.9	72.9	75.9	112	0.9	6	□	2
MPS1-0520-L12C		12	123.9	63.3	83.9	86.9	123	0.9	6	●	2
MPS1-0520-L15C		15	139.9	78.9	99.9	102.9	139	0.9	6	●	2
MPS1-0520-L20C		20	167.9	104.9	127.9	130.9	167	0.9	6	●	2
MPS1-0520-L25C		25	194.9	130.9	154.9	157.9	194	0.9	6	●	2
MPS1-0520-L30C		30	222.9	156.9	182.9	185.9	222	0.9	6	●	2
MPS1-0520-L35C		35	248.9	182.9	203.9	211.9	248	0.9	6	□	2
MPS1-0520-L40C		40	278.9	208.9	230.9	241.9	278	0.9	6	●	2
MPS1-0530S-DIN	5.3	3	66.0	20.0	28.0	29.0	65	1.0	6	□	4
MPS1-0530S-DIN-C		3	66.0	20.0	28.0	29.0	65	1.0	6	●	2
MPS1-0530L-DIN		5	82.0	36.0	44.0	45.0	81	1.0	6	□	4
MPS1-0530L-DIN-C		5	82.0	36.0	44.0	45.0	81	1.0	6	●	2
MPS1-0530-PC		2	66.8	11.4	26.8	28.8	66	0.8	6	●	2
MPS1-0530-L8C		8	102.1	43.5	62.1	65.1	101	1.1	6	●	2
MPS1-0530-L10C		10	113.0	54.0	73.0	76.0	112	1.0	6	□	2
MPS1-0530-L12C		12	124.0	64.6	84.0	87.0	123	1.0	6	●	2
MPS1-0530-L15C		15	140.0	80.5	100.0	103.0	139	1.0	6	●	2
MPS1-0530-L20C		20	168.0	107.0	128.0	131.0	167	1.0	6	□	2
MPS1-0530-L25C		25	195.0	133.5	155.0	158.0	194	1.0	6	●	2
MPS1-0530-L30C		30	223.0	160.0	183.0	186.0	222	1.0	6	●	2
MPS1-0530-L35C		35	249.0	186.5	210.0	212.0	248	1.0	6	□	2
MPS1-0530-L40C		40	279.0	213.0	241.0	242.0	278	1.0	6	●	2
MPS1-0540S-DIN	5.4	3	66.0	19.9	28.0	29.0	65	1.0	6	□	2
MPS1-0540S-DIN-C		3	66.0	19.9	28.0	29.0	65	1.0	6	●	4
MPS1-0540L-DIN		5	82.0	35.9	44.0	45.0	81	1.0	6	□	4
MPS1-0540L-DIN-C		5	82.0	35.9	44.0	45.0	81	1.0	6	●	2
MPS1-0540-PC		2	66.9	11.7	26.9	28.9	66	0.9	6	●	2
MPS1-0540-L8C		8	102.1	44.3	62.1	65.1	101	1.1	6	●	2
MPS1-0540-L10C		10	113.0	55.0	73.0	76.0	112	1.0	6	□	2
MPS1-0540-L12C		12	124.0	65.8	84.0	87.0	123	1.0	6	●	2
MPS1-0540-L15C		15	140.0	82.0	100.0	103.0	139	1.0	6	●	2
MPS1-0540-L20C		20	168.0	109.0	128.0	131.0	167	1.0	6	□	2
MPS1-0540-L25C		25	195.0	136.0	155.0	158.0	194	1.0	6	□	2
MPS1-0540-L30C		30	223.0	163.0	183.0	186.0	222	1.0	6	□	2
MPS1-0540-L35C		35	249.0	190.0	210.0	212.0	248	1.0	6	□	2
MPS1-0540-L40C		40	279.0	217.0	241.0	242.0	278	1.0	6	●	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ	
MPS1-0550S-DIN	5.5	3	66.0	19.8	28.0	29.0	65	1.0	6	□	4	
MPS1-0550S-DIN-C		3	66.0	19.8	28.0	29.0	65	1.0	6	●	2	
MPS1-0550L-DIN		5	82.0	35.8	44.0	45.0	81	1.0	6	□	4	
MPS1-0550L-DIN-C		5	82.0	35.8	44.0	45.0	81	1.0	6	●	2	
MPS1-0550-PC		2	66.9	11.9	26.9	28.9	66	0.9	6	●	2	
MPS1-0550-L8C		8	102.1	45.1	62.1	65.1	101	1.1	6	●	2	
MPS1-0550-L10C		10	113.0	56.0	73.0	76.0	112	1.0	6	□	2	
MPS1-0550-L12C		12	124.0	67.0	84.0	87.0	123	1.0	6	●	2	
MPS1-0550-L15C		15	140.0	83.5	100.0	103.0	139	1.0	6	●	2	
MPS1-0550-L20C		20	168.0	111.0	128.0	131.0	167	1.0	6	●	2	
MPS1-0550-L25C		25	195.0	138.5	155.0	158.0	194	1.0	6	●	2	
MPS1-0550-L30C		30	223.0	166.0	183.0	186.0	222	1.0	6	●	2	
MPS1-0550-L35C		35	249.0	193.5	210.0	212.0	248	1.0	6	□	2	
MPS1-0550-L40C		40	279.0	221.0	241.0	242.0	278	1.0	6	●	2	
MPS1-0555S-DIN		5.55	3	66.0	19.7	28.0	29.0	65	1.0	6	□	4
MPS1-0555S-DIN-C			3	66.0	19.7	28.0	29.0	65	1.0	6	●	2
MPS1-0555L-DIN	5		82.0	35.7	44.0	45.0	81	1.0	6	□	4	
MPS1-0555L-DIN-C	5		82.0	35.7	44.0	45.0	81	1.0	6	●	2	
MPS1-0560S-DIN	5.6	3	66.0	19.6	28.0	29.0	65	1.0	6	□	4	
MPS1-0560S-DIN-C		3	66.0	19.6	28.0	29.0	65	1.0	6	●	2	
MPS1-0560L-DIN		5	82.0	35.6	44.0	45.0	81	1.0	6	□	4	
MPS1-0560L-DIN-C		5	82.0	35.6	44.0	45.0	81	1.0	6	●	2	
MPS1-0560-PC		2	66.9	12.1	28.9	28.9	66	0.9	6	●	2	
MPS1-0560-L8C		8	107.2	46.0	67.2	70.2	106	1.2	6	●	2	
MPS1-0560-L10C		10	119.0	57.0	79.0	82.0	118	1.0	6	□	2	
MPS1-0560-L12C		12	131.0	68.2	91.0	94.0	130	1.0	6	●	2	
MPS1-0560-L15C		15	149.0	85.0	109.0	112.0	148	1.0	6	●	2	
MPS1-0560-L20C		20	179.0	113.0	139.0	142.0	178	1.0	6	□	2	
MPS1-0560-L25C		25	209.0	141.0	169.0	172.0	208	1.0	6	□	2	
MPS1-0560-L30C		30	239.0	169.0	199.0	202.0	238	1.0	6	●	2	
MPS1-0560-L35C		35	268.0	197.0	223.0	231.0	267	1.0	6	□	2	
MPS1-0560-L40C		40	299.0	225.0	251.0	262.0	298	1.0	6	●	2	
MPS1-0570S-DIN		5.7	3	66.0	19.5	28.0	29.0	65	1.0	6	□	4
MPS1-0570S-DIN-C			3	66.0	19.5	28.0	29.0	65	1.0	6	●	2
MPS1-0570L-DIN	5		82.0	35.5	44.0	45.0	81	1.0	6	□	4	
MPS1-0570L-DIN-C	5		82.0	35.5	44.0	45.0	81	1.0	6	●	2	
MPS1-0570-PC	2		66.9	12.3	28.9	28.9	66	0.9	6	●	2	
MPS1-0570-L8C	8		107.2	46.8	67.2	70.2	106	1.2	6	●	2	
MPS1-0570-L10C	10		119.0	58.0	79.0	82.0	118	1.0	6	□	2	
MPS1-0570-L12C	12		131.0	69.4	91.0	94.0	130	1.0	6	●	2	
MPS1-0570-L15C	15		149.0	86.5	109.0	112.0	148	1.0	6	●	2	
MPS1-0570-L20C	20		179.0	115.0	139.0	142.0	178	1.0	6	□	2	
MPS1-0570-L25C	25		209.0	143.5	169.0	172.0	208	1.0	6	●	2	
MPS1-0570-L30C	30		239.0	172.0	199.0	202.0	238	1.0	6	□	2	
MPS1-0570-L35C	35		268.0	200.5	223.0	231.0	267	1.0	6	□	2	
MPS1-0570-L40C	40		299.0	229.0	251.0	262.0	298	1.0	6	●	2	

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0580S-DIN	5.8	3	66.1	19.4	28.1	29.1	65	1.1	6	□	4
MPS1-0580S-DIN-C		3	66.1	19.4	28.1	29.1	65	1.1	6	●	2
MPS1-0580L-DIN		5	82.1	35.4	44.1	45.1	81	1.1	6	□	4
MPS1-0580L-DIN-C		5	82.1	35.4	44.1	45.1	81	1.1	6	●	2
MPS1-0580-PC		2	66.9	12.5	28.9	28.9	66	0.9	6	●	2
MPS1-0580-L8C		8	107.2	47.6	67.2	70.2	106	1.2	6	●	2
MPS1-0580-L10C		10	119.1	59.1	79.1	82.1	118	1.1	6	□	2
MPS1-0580-L12C		12	131.1	70.7	91.1	94.1	130	1.1	6	●	2
MPS1-0580-L15C		15	149.1	88.1	109.1	112.1	148	1.1	6	●	2
MPS1-0580-L20C		20	179.1	117.1	139.1	142.1	178	1.1	6	●	2
MPS1-0580-L25C		25	209.1	146.1	169.1	172.1	208	1.1	6	□	2
MPS1-0580-L30C		30	239.1	175.1	199.1	202.1	238	1.1	6	●	2
MPS1-0580-L35C		35	268.1	204.1	229.1	231.1	267	1.1	6	□	2
MPS1-0580-L40C		40	299.1	233.1	261.1	262.1	298	1.1	6	●	2
MPS1-0590S-DIN	5.9	3	66.1	19.2	28.1	29.1	65	1.1	6	□	4
MPS1-0590S-DIN-C		3	66.1	19.2	28.1	29.1	65	1.1	6	●	2
MPS1-0590L-DIN		5	82.1	35.2	44.1	45.1	81	1.1	6	□	4
MPS1-0590L-DIN-C		5	82.1	35.2	44.1	45.1	81	1.1	6	●	2
MPS1-0590-PC		2	66.9	12.7	28.9	28.9	66	0.9	6	●	2
MPS1-0590-L8C		8	107.2	48.4	67.2	70.2	106	1.2	6	●	2
MPS1-0590-L10C		10	119.1	60.1	79.1	82.1	118	1.1	6	□	2
MPS1-0590-L12C		12	131.1	71.9	91.1	94.1	130	1.1	6	●	2
MPS1-0590-L15C		15	149.1	89.6	109.1	112.1	148	1.1	6	●	2
MPS1-0590-L20C		20	179.1	119.1	139.1	142.1	178	1.1	6	●	2
MPS1-0590-L25C		25	209.1	148.6	169.1	172.1	208	1.1	6	●	2
MPS1-0590-L30C		30	239.1	178.1	199.1	202.1	238	1.1	6	□	2
MPS1-0590-L35C		35	268.1	207.6	229.1	231.1	267	1.1	6	□	2
MPS1-0590-L40C		40	299.1	237.1	261.1	262.1	298	1.1	6	●	2
MPS1-0600S-DIN	6.0	3	66.1	19.1	28.1	29.1	65	1.1	6	□	4
MPS1-0600S-DIN-C		3	66.1	19.1	28.1	29.1	65	1.1	6	●	2
MPS1-0600L-DIN		5	82.1	35.1	44.1	45.1	81	1.1	6	□	4
MPS1-0600L-DIN-C		5	82.1	35.1	44.1	45.1	81	1.1	6	●	2
MPS1-0600-PC		2	66.9	12.9	28.9	28.9	66	0.9	6	●	2
MPS1-0600-L8C		8	107.2	49.2	67.2	70.2	106	1.2	6	●	2
MPS1-0600-L10C		10	119.1	61.1	79.1	82.1	118	1.1	6	□	2
MPS1-0600-L12C		12	131.1	73.1	91.1	94.1	130	1.1	6	●	2
MPS1-0600-L15C		15	149.1	91.1	109.1	112.1	148	1.1	6	●	2
MPS1-0600-L20C		20	179.1	121.1	139.1	142.1	178	1.1	6	●	2
MPS1-0600-L25C		25	209.1	151.1	169.1	172.1	208	1.1	6	●	2
MPS1-0600-L30C		30	239.1	181.1	199.1	202.1	238	1.1	6	●	2
MPS1-0600-L35C		35	268.1	211.1	229.1	231.1	267	1.1	6	□	2
MPS1-0600-L40C		40	299.1	241.1	261.1	262.1	298	1.1	6	●	2
MPS1-0605S-DIN	6.05	3	79.1	25.0	34.1	42.1	78	1.1	8	□	4
MPS1-0605S-DIN-C		3	79.1	25.0	34.1	42.1	78	1.1	8	●	2
MPS1-0605L-DIN		5	91.1	44.0	53.1	54.1	90	1.1	8	□	4
MPS1-0605L-DIN-C		5	91.1	44.0	53.1	54.1	90	1.1	8	●	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0610S-DIN		3	79.1	25.0	34.1	42.1	78	1.1	8	□	4
MPS1-0610S-DIN-C		3	79.1	25.0	34.1	42.1	78	1.1	8	●	2
MPS1-0610L-DIN		5	91.1	44.0	53.1	54.1	90	1.1	8	□	4
MPS1-0610L-DIN-C		5	91.1	44.0	53.1	54.1	90	1.1	8	●	2
MPS1-0610-PC		2	75.0	13.2	32.0	35.0	74	1.0	8	●	2
MPS1-0610-L8C		8	113.3	50.1	73.3	76.3	112	1.3	8	●	2
MPS1-0610-L10C	6.1	10	126.1	62.1	86.1	89.1	125	1.1	8	□	2
MPS1-0610-L12C		12	139.1	74.3	99.1	102.1	138	1.1	8	●	2
MPS1-0610-L15C		15	158.1	92.6	118.1	121.1	157	1.1	8	●	2
MPS1-0610-L20C		20	191.1	123.1	151.1	154.1	190	1.1	8	●	2
MPS1-0610-L25C		25	223.1	153.6	183.1	186.1	222	1.1	8	●	2
MPS1-0610-L30C		30	256.1	184.1	216.1	219.1	255	1.1	8	●	2
MPS1-0610-L35C		35	287.1	214.6	241.1	250.1	286	1.1	8	□	2
MPS1-0610-L40C		40	321.1	245.1	271.1	284.1	320	1.1	8	●	2
MPS1-0620S-DIN		3	79.1	24.8	34.1	42.1	78	1.1	8	□	4
MPS1-0620S-DIN-C		3	79.1	24.8	34.1	42.1	78	1.1	8	●	2
MPS1-0620L-DIN		5	91.1	43.8	53.1	54.1	90	1.1	8	□	4
MPS1-0620L-DIN-C		5	91.1	43.8	53.1	54.1	90	1.1	8	●	2
MPS1-0620-PC		2	75.0	13.4	32.0	35.0	74	1.0	8	●	2
MPS1-0620-L8C		8	113.3	50.9	73.3	76.3	112	1.3	8	●	2
MPS1-0620-L10C	6.2	10	126.1	63.1	86.1	89.1	125	1.1	8	□	2
MPS1-0620-L12C		12	139.1	75.5	99.1	102.1	138	1.1	8	●	2
MPS1-0620-L15C		15	158.1	94.1	118.1	121.1	157	1.1	8	●	2
MPS1-0620-L20C		20	191.1	125.1	151.1	154.1	190	1.1	8	●	2
MPS1-0620-L25C		25	223.1	156.1	183.1	186.1	222	1.1	8	□	2
MPS1-0620-L30C		30	256.1	187.1	216.1	219.1	255	1.1	8	●	2
MPS1-0620-L35C		35	287.1	218.1	241.1	250.1	286	1.1	8	□	2
MPS1-0620-L40C		40	321.1	249.1	271.1	284.1	320	1.1	8	●	2
MPS1-0630S-DIN		3	79.1	24.7	34.1	42.1	78	1.1	8	□	4
MPS1-0630S-DIN-C		3	79.1	24.7	34.1	42.1	78	1.1	8	●	2
MPS1-0630L-DIN		5	91.1	43.7	53.1	54.1	90	1.1	8	□	4
MPS1-0630L-DIN-C		5	91.1	43.7	53.1	54.1	90	1.1	8	●	2
MPS1-0630-PC		2	75.0	13.6	32.0	35.0	74	1.0	8	●	2
MPS1-0630-L8C		8	113.3	51.7	73.3	76.3	112	1.3	8	●	2
MPS1-0630-L10C	6.3	10	126.1	64.1	86.1	89.1	125	1.1	8	□	2
MPS1-0630-L12C		12	139.1	76.7	99.1	102.1	138	1.1	8	●	2
MPS1-0630-L15C		15	158.1	95.6	118.1	121.1	157	1.1	8	●	2
MPS1-0630-L20C		20	191.1	127.1	151.1	154.1	190	1.1	8	●	2
MPS1-0630-L25C		25	223.1	158.6	183.1	186.1	222	1.1	8	□	2
MPS1-0630-L30C		30	256.1	190.1	216.1	219.1	255	1.1	8	●	2
MPS1-0630-L35C		35	287.1	221.6	248.1	250.1	286	1.1	8	□	2
MPS1-0630-L40C		40	321.1	253.1	281.1	284.1	320	1.1	8	●	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0640S-DIN	6.4	3	79.2	24.6	34.2	42.2	78	1.2	8	□	4
MPS1-0640S-DIN-C		3	79.2	24.6	34.2	42.2	78	1.2	8	●	2
MPS1-0640L-DIN		5	91.2	43.6	53.2	54.2	90	1.2	8	□	4
MPS1-0640L-DIN-C		5	91.2	43.6	53.2	54.2	90	1.2	8	●	2
MPS1-0640-PC		2	75.0	13.8	32.0	35.0	74	1.0	8	●	2
MPS1-0640-L8C		8	113.3	52.5	73.3	76.3	112	1.3	8	●	2
MPS1-0640-L10C		10	126.2	65.2	86.2	89.2	125	1.2	8	□	2
MPS1-0640-L12C		12	139.2	78.0	99.2	102.2	138	1.2	8	●	2
MPS1-0640-L15C		15	158.2	97.2	118.2	121.2	157	1.2	8	●	2
MPS1-0640-L20C		20	191.2	129.2	151.2	154.2	190	1.2	8	●	2
MPS1-0640-L25C		25	223.2	161.2	183.2	186.2	222	1.2	8	●	2
MPS1-0640-L30C		30	256.2	193.2	216.2	219.2	255	1.2	8	●	2
MPS1-0640-L35C		35	287.2	225.2	248.2	250.2	286	1.2	8	□	2
MPS1-0640-L40C		40	321.2	257.2	281.2	284.2	320	1.2	8	●	2
MPS1-0650S-DIN	6.5	3	79.2	24.4	34.2	42.2	78	1.2	8	□	4
MPS1-0650S-DIN-C		3	79.2	24.4	34.2	42.2	78	1.2	8	●	2
MPS1-0650L-DIN		5	91.2	43.4	53.2	54.2	90	1.2	8	□	4
MPS1-0650L-DIN-C		5	91.2	43.4	53.2	54.2	90	1.2	8	●	2
MPS1-0650-PC		2	75.0	14.0	32.0	35.0	74	1.0	8	●	2
MPS1-0650-L8C		8	113.3	53.3	73.3	76.3	112	1.3	8	●	2
MPS1-0650-L10C		10	126.2	66.2	86.2	89.2	125	1.2	8	□	2
MPS1-0650-L12C		12	139.2	79.2	99.2	102.2	138	1.2	8	●	2
MPS1-0650-L15C		15	158.2	98.7	118.2	121.2	157	1.2	8	●	2
MPS1-0650-L20C		20	191.2	131.2	151.2	154.2	190	1.2	8	●	2
MPS1-0650-L25C		25	223.2	163.7	183.2	186.2	222	1.2	8	●	2
MPS1-0650-L30C		30	256.2	196.2	216.2	219.2	255	1.2	8	●	2
MPS1-0650-L35C		35	287.2	228.7	248.2	250.2	286	1.2	8	□	2
MPS1-0650-L40C		40	321.2	261.2	281.2	284.2	320	1.2	8	●	2
MPS1-0660S-DIN	6.6	3	79.2	24.3	34.2	42.2	78	1.2	8	□	4
MPS1-0660S-DIN-C		3	79.2	24.3	34.2	42.2	78	1.2	8	●	2
MPS1-0660L-DIN		5	91.2	43.3	53.2	54.2	90	1.2	8	□	4
MPS1-0660L-DIN-C		5	91.2	43.3	53.2	54.2	90	1.2	8	●	2
MPS1-0660-PC		2	75.0	14.2	35.0	37.0	74	1.0	8	●	2
MPS1-0660-L8C		8	118.4	54.2	78.4	81.4	117	1.4	8	●	2
MPS1-0660-L10C		10	132.2	67.2	92.2	95.2	131	1.2	8	□	2
MPS1-0660-L12C		12	146.2	80.4	106.2	109.2	145	1.2	8	●	2
MPS1-0660-L15C		15	167.2	100.2	127.2	130.2	166	1.2	8	●	2
MPS1-0660-L20C		20	202.2	133.2	162.2	165.2	201	1.2	8	□	2
MPS1-0660-L25C		25	237.2	166.2	197.2	200.2	236	1.2	8	●	2
MPS1-0660-L30C		30	272.2	199.2	232.2	235.2	271	1.2	8	●	2
MPS1-0660-L35C		35	306.2	232.2	267.2	269.2	305	1.2	8	□	2
MPS1-0660-L40C		40	341.2	265.2	301.2	304.2	340	1.2	8	●	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0670S-DIN	6.7	3	79.2	24.2	34.2	42.2	78	1.2	8	□	4
MPS1-0670S-DIN-C		3	79.2	24.2	34.2	42.2	78	1.2	8	●	2
MPS1-0670L-DIN		5	91.2	43.2	53.2	54.2	90	1.2	8	□	4
MPS1-0670L-DIN-C		5	91.2	43.2	53.2	54.2	90	1.2	8	●	2
MPS1-0670-PC		2	75.1	14.5	35.1	37.1	74	1.1	8	●	2
MPS1-0670-L8C		8	118.4	55.0	78.4	81.4	117	1.4	8	●	2
MPS1-0670-L10C		10	132.2	68.2	92.2	95.2	131	1.2	8	□	2
MPS1-0670-L12C		12	146.2	81.6	106.2	109.2	145	1.2	8	●	2
MPS1-0670-L15C		15	167.2	101.7	127.2	130.2	166	1.2	8	●	2
MPS1-0670-L20C		20	202.2	135.2	162.2	165.2	201	1.2	8	□	2
MPS1-0670-L25C		25	237.2	168.7	197.2	200.2	236	1.2	8	□	2
MPS1-0670-L30C		30	272.2	202.2	232.2	235.2	271	1.2	8	●	2
MPS1-0670-L35C		35	306.2	235.7	267.2	269.2	305	1.2	8	□	2
MPS1-0670-L40C		40	341.2	269.2	301.2	304.2	340	1.2	8	□	2
MPS1-0680S-DIN	6.8	3	79.2	24.0	34.2	42.2	78	1.2	8	●	4
MPS1-0680S-DIN-C		3	79.2	24.0	34.2	42.2	78	1.2	8	●	2
MPS1-0680L-DIN		5	91.2	43.0	53.2	54.2	90	1.2	8	□	4
MPS1-0680L-DIN-C		5	91.2	43.0	53.2	54.2	90	1.2	8	●	2
MPS1-0680-PC		2	75.1	14.7	35.1	37.1	74	1.1	8	●	2
MPS1-0680-L8C		8	118.4	55.8	78.4	81.4	117	1.4	8	●	2
MPS1-0680-L10C		10	132.2	69.2	92.2	95.2	131	1.2	8	□	2
MPS1-0680-L12C		12	146.2	82.8	106.2	109.2	145	1.2	8	●	2
MPS1-0680-L15C		15	167.2	103.2	127.2	130.2	166	1.2	8	●	2
MPS1-0680-L20C		20	202.2	137.2	162.2	165.2	201	1.2	8	●	2
MPS1-0680-L25C		25	237.2	171.2	197.2	200.2	236	1.2	8	●	2
MPS1-0680-L30C		30	272.2	205.2	232.2	235.2	271	1.2	8	●	2
MPS1-0680-L35C		35	306.2	239.2	267.2	269.2	305	1.2	8	□	2
MPS1-0680-L40C		40	341.2	273.2	301.2	304.2	340	1.2	8	●	2
MPS1-0690S-DIN	6.9	3	79.3	23.9	34.3	42.3	78	1.3	8	□	4
MPS1-0690S-DIN-C		3	79.3	23.9	34.3	42.3	78	1.3	8	●	2
MPS1-0690L-DIN		5	91.3	42.9	53.3	54.3	90	1.3	8	□	4
MPS1-0690L-DIN-C		5	91.3	42.9	53.3	54.3	90	1.3	8	●	2
MPS1-0690-PC		2	75.1	14.9	35.1	37.1	74	1.1	8	●	2
MPS1-0690-L8C		8	118.4	56.6	78.4	81.4	117	1.4	8	●	2
MPS1-0690-L10C		10	132.3	70.3	92.3	95.3	131	1.3	8	□	2
MPS1-0690-L12C		12	146.3	84.1	106.3	109.3	145	1.3	8	●	2
MPS1-0690-L15C		15	167.3	104.8	127.3	130.3	166	1.3	8	●	2
MPS1-0690-L20C		20	202.3	139.3	162.3	165.3	201	1.3	8	●	2
MPS1-0690-L25C		25	237.3	173.8	197.3	200.3	236	1.3	8	●	2
MPS1-0690-L30C		30	272.3	208.3	232.3	235.3	271	1.3	8	●	2
MPS1-0690-L35C		35	306.3	242.8	267.3	269.3	305	1.3	8	□	2
MPS1-0690-L40C		40	341.3	277.3	301.3	304.3	340	1.3	8	●	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0700S-DIN	7.0	3	79.3	23.8	34.3	42.3	78	1.3	8	□	4
MPS1-0700S-DIN-C		3	79.3	23.8	34.3	42.3	78	1.3	8	●	2
MPS1-0700L-DIN		5	91.3	42.8	53.3	54.3	90	1.3	8	□	4
MPS1-0700L-DIN-C		5	91.3	42.8	53.3	54.3	90	1.3	8	●	2
MPS1-0700-PC		2	75.1	15.1	35.1	37.1	74	1.1	8	●	2
MPS1-0700-L8C		8	118.4	57.4	78.4	81.4	117	1.4	8	●	2
MPS1-0700-L10C		10	132.3	71.3	92.3	95.3	131	1.3	8	●	2
MPS1-0700-L12C		12	146.3	85.3	106.3	109.3	145	1.3	8	●	2
MPS1-0700-L15C		15	167.3	106.3	127.3	130.3	166	1.3	8	●	2
MPS1-0700-L20C		20	202.3	141.3	162.3	165.3	201	1.3	8	●	2
MPS1-0700-L25C		25	237.3	176.3	197.3	200.3	236	1.3	8	●	2
MPS1-0700-L30C		30	272.3	211.3	232.3	235.3	271	1.3	8	●	2
MPS1-0700-L35C		35	306.3	246.3	267.3	269.3	305	1.3	8	□	2
MPS1-0700-L40C		40	341.3	281.3	301.3	304.3	340	1.3	8	●	2
MPS1-0710S-DIN	7.1	3	79.3	30.6	41.3	42.3	78	1.3	8	□	4
MPS1-0710S-DIN-C		3	79.3	30.6	41.3	42.3	78	1.3	8	●	2
MPS1-0710L-DIN		5	91.3	42.6	53.3	54.3	90	1.3	8	□	4
MPS1-0710L-DIN-C		5	91.3	42.6	53.3	54.3	90	1.3	8	●	2
MPS1-0710-PC		2	80.1	15.3	35.1	38.1	79	1.1	8	●	2
MPS1-0710-L8C		8	124.5	58.3	84.5	87.5	123	1.5	8	●	2
MPS1-0710-L10C		10	139.3	72.3	99.3	102.3	138	1.3	8	□	2
MPS1-0710-L12C		12	154.3	86.5	114.3	117.3	153	1.3	8	●	2
MPS1-0710-L15C		15	176.3	107.8	136.3	139.3	175	1.3	8	●	2
MPS1-0710-L20C		20	214.3	143.3	174.3	177.3	213	1.3	8	●	2
MPS1-0710-L25C		25	251.3	178.8	211.3	214.3	250	1.3	8	●	2
MPS1-0710-L30C		30	289.3	214.3	249.3	252.3	288	1.3	8	●	2
MPS1-0710-L35C		35	325.3	249.8	286.3	288.3	324	1.3	8	□	2
MPS1-0710-L40C		40	360.3	285.3	321.3	323.3	359	1.3	8	●	2
MPS1-0720S-DIN	7.2	3	79.3	30.5	41.3	42.3	78	1.3	8	□	4
MPS1-0720S-DIN-C		3	79.3	30.5	41.3	42.3	78	1.3	8	●	2
MPS1-0720L-DIN		5	91.3	42.5	53.3	54.3	90	1.3	8	□	4
MPS1-0720L-DIN-C		5	91.3	42.5	53.3	54.3	90	1.3	8	●	2
MPS1-0720-PC		2	80.1	15.5	35.1	38.1	79	1.1	8	●	2
MPS1-0720-L8C		8	124.5	59.1	84.5	87.5	123	1.5	8	●	2
MPS1-0720-L10C		10	139.3	73.3	99.3	102.3	138	1.3	8	□	2
MPS1-0720-L12C		12	154.3	87.7	114.3	117.3	153	1.3	8	●	2
MPS1-0720-L15C		15	176.3	109.3	136.3	139.3	175	1.3	8	□	2
MPS1-0720-L20C		20	214.3	145.3	174.3	177.3	213	1.3	8	□	2
MPS1-0720-L25C		25	251.3	181.3	211.3	214.3	250	1.3	8	□	2
MPS1-0720-L30C		30	289.3	217.3	249.3	252.3	288	1.3	8	□	2
MPS1-0720-L35C		35	325.3	253.3	286.3	288.3	324	1.3	8	□	2
MPS1-0720-L40C		40	360.3	289.3	321.3	323.3	359	1.3	8	●	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0730S-DIN	7.3	3	79.3	30.4	41.3	42.3	78	1.3	8	□	4
MPS1-0730S-DIN-C		3	79.3	30.4	41.3	42.3	78	1.3	8	●	2
MPS1-0730L-DIN		5	91.3	42.4	53.3	54.3	90	1.3	8	□	4
MPS1-0730L-DIN-C		5	91.3	42.4	53.3	54.3	90	1.3	8	●	2
MPS1-0730-PC		2	80.2	15.8	35.2	38.2	79	1.2	8	●	2
MPS1-0730-L8C		8	124.5	59.9	84.5	87.5	123	1.5	8	●	2
MPS1-0730-L10C		10	139.3	74.3	99.3	102.3	138	1.3	8	□	2
MPS1-0730-L12C		12	154.3	88.9	114.3	117.3	153	1.3	8	●	2
MPS1-0730-L15C		15	176.3	110.8	136.3	139.3	175	1.3	8	□	2
MPS1-0730-L20C		20	214.3	147.3	174.3	177.3	213	1.3	8	□	2
MPS1-0730-L25C		25	251.3	183.8	211.3	214.3	250	1.3	8	□	2
MPS1-0730-L30C		30	289.3	220.3	249.3	252.3	288	1.3	8	□	2
MPS1-0730-L35C		35	325.3	256.8	286.3	288.3	324	1.3	8	□	2
MPS1-0730-L40C		40	360.3	293.3	321.3	323.3	359	1.3	8	●	2
MPS1-0740S-DIN	7.4	3	79.3	30.2	41.3	42.3	78	1.3	8	□	4
MPS1-0740S-DIN-C		3	79.3	30.2	41.3	42.3	78	1.3	8	●	2
MPS1-0740L-DIN		5	91.3	42.2	53.3	54.3	90	1.3	8	□	4
MPS1-0740L-DIN-C		5	91.3	42.2	53.3	54.3	90	1.3	8	●	2
MPS1-0740-PC		2	80.2	16.0	35.2	38.2	79	1.2	8	●	2
MPS1-0740-L8C		8	124.5	60.7	84.5	87.5	123	1.5	8	●	2
MPS1-0740-L10C		10	139.3	75.3	99.3	102.3	138	1.3	8	□	2
MPS1-0740-L12C		12	154.3	90.1	114.3	117.3	153	1.3	8	●	2
MPS1-0740-L15C		15	176.3	112.3	136.3	139.3	175	1.3	8	□	2
MPS1-0740-L20C		20	214.3	149.3	174.3	177.3	213	1.3	8	□	2
MPS1-0740-L25C		25	251.3	186.3	211.3	214.3	250	1.3	8	□	2
MPS1-0740-L30C		30	289.3	223.3	249.3	252.3	288	1.3	8	□	2
MPS1-0740-L35C		35	325.3	260.3	286.3	288.3	324	1.3	8	□	2
MPS1-0740-L40C		40	360.3	297.3	321.3	323.3	359	1.3	8	●	2
MPS1-0750S-DIN	7.5	3	79.4	30.1	41.4	42.4	78	1.4	8	□	4
MPS1-0750S-DIN-C		3	79.4	30.1	41.4	42.4	78	1.4	8	●	2
MPS1-0750L-DIN		5	91.4	42.1	53.4	54.4	90	1.4	8	□	4
MPS1-0750L-DIN-C		5	91.4	42.1	53.4	54.4	90	1.4	8	●	2
MPS1-0750-PC		2	80.2	16.2	35.2	38.2	79	1.2	8	●	2
MPS1-0750-L8C		8	124.6	61.6	84.6	87.6	123	1.6	8	●	2
MPS1-0750-L10C		10	139.4	76.4	99.4	102.4	138	1.4	8	□	2
MPS1-0750-L12C		12	154.4	91.4	114.4	117.4	153	1.4	8	●	2
MPS1-0750-L15C		15	176.4	113.9	136.4	139.4	175	1.4	8	●	2
MPS1-0750-L20C		20	214.4	151.4	174.4	177.4	213	1.4	8	●	2
MPS1-0750-L25C		25	251.4	188.9	211.4	214.4	250	1.4	8	●	2
MPS1-0750-L30C		30	289.4	226.4	249.4	252.4	288	1.4	8	●	2
MPS1-0750-L35C		35	325.4	263.9	286.4	288.4	324	1.4	8	□	2
MPS1-0750-L40C		40	360.4	301.4	321.4	323.4	359	1.4	8	●	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0760S-DIN		3	79.4	30.0	41.4	42.4	78	1.4	8	□	4
MPS1-0760S-DIN-C		3	79.4	30.0	41.4	42.4	78	1.4	8	●	2
MPS1-0760L-DIN		5	91.4	42.0	53.4	54.4	90	1.4	8	□	4
MPS1-0760L-DIN-C		5	91.4	42.0	53.4	54.4	90	1.4	8	●	2
MPS1-0760-PC		2	80.2	16.4	38.2	38.2	79	1.2	8	●	2
MPS1-0760-L8C		8	129.6	62.4	89.6	92.6	128	1.6	8	●	2
MPS1-0760-L10C	7.6	10	145.4	77.4	105.4	108.4	144	1.4	8	□	2
MPS1-0760-L12C		12	161.4	92.6	121.4	124.4	160	1.4	8	●	2
MPS1-0760-L15C		15	185.4	115.4	145.4	148.4	184	1.4	8	●	2
MPS1-0760-L20C		20	225.4	153.4	185.4	188.4	224	1.4	8	□	2
MPS1-0760-L25C		25	265.4	191.4	225.4	228.4	264	1.4	8	●	2
MPS1-0760-L30C		30	305.4	229.4	265.4	268.4	304	1.4	8	□	2
MPS1-0760-L35C		35	344.4	267.4	305.4	307.4	343	1.4	8	□	2
MPS1-0760-L40C		40	379.4	305.4	341.4	342.4	378	1.4	8	●	2
MPS1-0770S-DIN		3	79.4	29.9	41.4	42.4	78	1.4	8	□	4
MPS1-0770S-DIN-C		3	79.4	29.9	41.4	42.4	78	1.4	8	●	2
MPS1-0770L-DIN		5	91.4	41.9	53.4	54.4	90	1.4	8	□	4
MPS1-0770L-DIN-C		5	91.4	41.9	53.4	54.4	90	1.4	8	●	2
MPS1-0770-PC		2	80.2	16.6	38.2	38.2	79	1.2	8	●	2
MPS1-0770-L8C		8	129.6	63.2	89.6	92.6	128	1.6	8	●	2
MPS1-0770-L10C	7.7	10	145.4	78.4	105.4	108.4	144	1.4	8	□	2
MPS1-0770-L12C		12	161.4	93.8	121.4	124.4	160	1.4	8	●	2
MPS1-0770-L15C		15	185.4	116.9	145.4	148.4	184	1.4	8	●	2
MPS1-0770-L20C		20	225.4	155.4	185.4	188.4	224	1.4	8	□	2
MPS1-0770-L25C		25	265.4	193.9	225.4	228.4	264	1.4	8	●	2
MPS1-0770-L30C		30	305.4	232.4	265.4	268.4	304	1.4	8	□	2
MPS1-0770-L35C		35	344.4	270.9	305.4	307.4	343	1.4	8	□	2
MPS1-0770-L40C		40	379.4	309.4	341.4	342.4	378	1.4	8	●	2
MPS1-0780S-DIN		3	79.4	29.7	41.4	42.4	78	1.4	8	□	4
MPS1-0780S-DIN-C		3	79.4	29.7	41.4	42.4	78	1.4	8	●	2
MPS1-0780L-DIN		5	91.4	41.7	53.4	54.4	90	1.4	8	□	4
MPS1-0780L-DIN-C		5	91.4	41.7	53.4	54.4	90	1.4	8	●	2
MPS1-0780-PC		2	80.2	16.8	38.2	38.2	79	1.2	8	●	2
MPS1-0780-L8C		8	129.6	64.0	89.6	92.6	128	1.6	8	●	2
MPS1-0780-L10C	7.8	10	145.4	79.4	105.4	108.4	144	1.4	8	□	2
MPS1-0780-L12C		12	161.4	95.0	121.4	124.4	160	1.4	8	●	2
MPS1-0780-L15C		15	185.4	118.4	145.4	148.4	184	1.4	8	●	2
MPS1-0780-L20C		20	225.4	157.4	185.4	188.4	224	1.4	8	□	2
MPS1-0780-L25C		25	265.4	196.4	225.4	228.4	264	1.4	8	□	2
MPS1-0780-L30C		30	305.4	235.4	265.4	268.4	304	1.4	8	●	2
MPS1-0780-L35C		35	344.4	274.4	305.4	307.4	343	1.4	8	□	2
MPS1-0780-L40C		40	379.4	313.4	341.4	342.4	378	1.4	8	●	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0790S-DIN	7.9	3	79.4	29.6	41.4	42.4	78	1.4	8	□	4
MPS1-0790S-DIN-C		3	79.4	29.6	41.4	42.4	78	1.4	8	●	2
MPS1-0790L-DIN		5	91.4	41.6	53.4	54.4	90	1.4	8	□	4
MPS1-0790L-DIN-C		5	91.4	41.6	53.4	54.4	90	1.4	8	●	2
MPS1-0790-PC		2	80.2	17.0	38.2	38.2	79	1.2	8	●	2
MPS1-0790-L8C		8	129.6	64.8	89.6	92.6	128	1.6	8	●	2
MPS1-0790-L10C		10	145.4	80.4	105.4	108.4	144	1.4	8	□	2
MPS1-0790-L12C		12	161.4	96.2	121.4	124.4	160	1.4	8	●	2
MPS1-0790-L15C		15	185.4	119.9	145.4	148.4	184	1.4	8	□	2
MPS1-0790-L20C		20	225.4	159.4	185.4	188.4	224	1.4	8	□	2
MPS1-0790-L25C		25	265.4	198.9	225.4	228.4	264	1.4	8	●	2
MPS1-0790-L30C		30	305.4	238.4	265.4	268.4	304	1.4	8	●	2
MPS1-0790-L35C		35	344.4	277.9	305.4	307.4	343	1.4	8	□	2
MPS1-0790-L40C		40	379.4	317.4	341.4	342.4	378	1.4	8	●	2
MPS1-0800S-DIN	8.0	3	79.5	29.5	41.5	42.5	78	1.5	8	□	4
MPS1-0800S-DIN-C		3	79.5	29.5	41.5	42.5	78	1.5	8	●	2
MPS1-0800L-DIN		5	91.5	41.5	53.5	54.5	90	1.5	8	□	4
MPS1-0800L-DIN-C		5	91.5	41.5	53.5	54.5	90	1.5	8	●	2
MPS1-0800-PC		2	80.3	17.3	38.3	38.3	79	1.3	8	●	2
MPS1-0800-L8C		8	129.7	65.7	89.7	92.7	128	1.7	8	●	2
MPS1-0800-L10C		10	145.5	81.5	105.5	108.5	144	1.5	8	●	2
MPS1-0800-L12C		12	161.5	97.5	121.5	124.5	160	1.5	8	●	2
MPS1-0800-L15C		15	185.5	121.5	145.5	148.5	184	1.5	8	●	2
MPS1-0800-L20C		20	225.5	161.5	185.5	188.5	224	1.5	8	●	2
MPS1-0800-L25C		25	265.5	201.5	225.5	228.5	264	1.5	8	●	2
MPS1-0800-L30C		30	305.5	241.5	265.5	268.5	304	1.5	8	●	2
MPS1-0800-L35C		35	344.5	281.5	305.5	307.5	343	1.5	8	□	2
MPS1-0800-L40C		40	379.5	321.5	341.5	342.5	378	1.5	8	●	2
MPS1-0805S-DIN	8.05	3	88.5	34.4	46.5	47.5	87	1.5	10	□	4
MPS1-0805S-DIN-C		3	88.5	34.4	46.5	47.5	87	1.5	10	●	2
MPS1-0805L-DIN		5	102.5	48.4	60.5	61.5	101	1.5	10	□	4
MPS1-0805L-DIN-C		5	102.5	48.4	60.5	61.5	101	1.5	10	●	2
MPS1-0810S-DIN	8.1	3	88.5	34.3	46.5	47.5	87	1.5	10	□	4
MPS1-0810S-DIN-C		3	88.5	34.3	46.5	47.5	87	1.5	10	●	2
MPS1-0810L-DIN		5	102.5	48.3	60.5	61.5	101	1.5	10	□	4
MPS1-0810L-DIN-C		5	102.5	48.3	60.5	61.5	101	1.5	10	●	2
MPS1-0810-PC		2	85.3	17.5	38.3	41.3	84	1.3	10	●	2
MPS1-0810-L8C		8	139.7	66.5	95.7	98.7	138	1.7	10	●	2
MPS1-0810-L10C		10	156.5	82.5	112.5	115.5	155	1.5	10	□	2
MPS1-0810-L12C		12	173.5	98.7	129.5	132.5	172	1.5	10	●	2
MPS1-0810-L15C		15	198.5	123.0	154.5	157.5	197	1.5	10	●	2
MPS1-0810-L20C		20	241.5	163.5	197.5	200.5	240	1.5	10	●	2
MPS1-0810-L25C		25	283.5	204.0	239.5	242.5	282	1.5	10	□	2
MPS1-0810-L30C		30	325.5	244.5	282.5	284.5	324	1.5	10	□	2
MPS1-0810-L35C		35	367.5	285.0	324.5	326.5	366	1.5	10	□	2
MPS1-0810-L40C		40	411.5	325.5	366.5	370.5	410	1.5	10	●	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0820S-DIN	8.2	3	88.5	34.2	46.5	47.5	87	1.5	10	□	4
MPS1-0820S-DIN-C		3	88.5	34.2	46.5	47.5	87	1.5	10	●	2
MPS1-0820L-DIN		5	102.5	48.2	60.5	61.5	101	1.5	10	□	4
MPS1-0820L-DIN-C		5	102.5	48.2	60.5	61.5	101	1.5	10	●	2
MPS1-0820-PC		2	85.3	17.7	38.3	41.3	84	1.3	10	●	2
MPS1-0820-L8C		8	139.7	67.3	95.7	98.7	138	1.7	10	●	2
MPS1-0820-L10C		10	156.5	83.5	112.5	115.5	155	1.5	10	□	2
MPS1-0820-L12C		12	173.5	99.9	129.5	132.5	172	1.5	10	●	2
MPS1-0820-L15C		15	198.5	124.5	154.5	157.5	197	1.5	10	●	2
MPS1-0820-L20C		20	241.5	165.5	197.5	200.5	240	1.5	10	●	2
MPS1-0820-L25C		25	283.5	206.5	239.5	242.5	282	1.5	10	□	2
MPS1-0820-L30C		30	325.5	247.5	282.5	284.5	324	1.5	10	□	2
MPS1-0820-L35C		35	367.5	288.5	324.5	326.5	366	1.5	10	□	2
MPS1-0820-L40C		40	411.5	329.5	366.5	370.5	410	1.5	10	●	2
MPS1-0830S-DIN	8.3	3	88.5	34.1	46.5	47.5	87	1.5	10	□	4
MPS1-0830S-DIN-C		3	88.5	34.1	46.5	47.5	87	1.5	10	●	2
MPS1-0830L-DIN		5	102.5	48.1	60.5	61.5	101	1.5	10	□	4
MPS1-0830L-DIN-C		5	102.5	48.1	60.5	61.5	101	1.5	10	●	2
MPS1-0830-PC		2	85.3	17.9	38.3	41.3	84	1.3	10	●	2
MPS1-0830-L8C		8	139.7	68.1	95.7	98.7	138	1.7	10	●	2
MPS1-0830-L10C		10	156.5	84.5	112.5	115.5	155	1.5	10	□	2
MPS1-0830-L12C		12	173.5	101.1	129.5	132.5	172	1.5	10	●	2
MPS1-0830-L15C		15	198.5	126.0	154.5	157.5	197	1.5	10	□	2
MPS1-0830-L20C		20	241.5	167.5	197.5	200.5	240	1.5	10	□	2
MPS1-0830-L25C		25	283.5	209.0	239.5	242.5	282	1.5	10	□	2
MPS1-0830-L30C		30	325.5	250.5	282.5	284.5	324	1.5	10	□	2
MPS1-0830-L35C		35	367.5	292.0	324.5	326.5	366	1.5	10	□	2
MPS1-0830-L40C		40	411.5	333.5	366.5	370.5	410	1.5	10	●	2
MPS1-0840S-DIN	8.4	3	88.5	33.9	46.5	47.5	87	1.5	10	□	4
MPS1-0840S-DIN-C		3	88.5	33.9	46.5	47.5	87	1.5	10	●	2
MPS1-0840L-DIN		5	102.5	47.9	60.5	61.5	101	1.5	10	□	4
MPS1-0840L-DIN-C		5	102.5	47.9	60.5	61.5	101	1.5	10	●	2
MPS1-0840-PC		2	85.3	18.1	38.3	41.3	84	1.3	10	●	2
MPS1-0840-L8C		8	139.7	68.9	95.7	98.7	138	1.7	10	●	2
MPS1-0840-L10C		10	156.5	85.5	112.5	115.5	155	1.5	10	□	2
MPS1-0840-L12C		12	173.5	102.3	129.5	132.5	172	1.5	10	●	2
MPS1-0840-L15C		15	198.5	127.5	154.5	157.5	197	1.5	10	●	2
MPS1-0840-L20C		20	241.5	169.5	197.5	200.5	240	1.5	10	□	2
MPS1-0840-L25C		25	283.5	211.5	239.5	242.5	282	1.5	10	□	2
MPS1-0840-L30C		30	325.5	253.5	282.5	284.5	324	1.5	10	□	2
MPS1-0840-L35C		35	367.5	295.5	324.5	326.5	366	1.5	10	□	2
MPS1-0840-L40C		40	411.5	337.5	366.5	370.5	410	1.5	10	●	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0850S-DIN	8.5	3	88.5	33.8	46.5	47.5	87	1.5	10	□	4
MPS1-0850S-DIN-C		3	88.5	33.8	46.5	47.5	87	1.5	10	●	2
MPS1-0850L-DIN		5	102.5	47.8	60.5	61.5	101	1.5	10	□	4
MPS1-0850L-DIN-C		5	102.5	47.8	60.5	61.5	101	1.5	10	●	2
MPS1-0850-PC		2	85.3	18.3	38.3	41.3	84	1.3	10	●	2
MPS1-0850-L8C		8	139.8	69.8	95.8	98.8	138	1.8	10	●	2
MPS1-0850-L10C		10	156.5	86.5	112.5	115.5	155	1.5	10	□	2
MPS1-0850-L12C		12	173.5	103.5	129.5	132.5	172	1.5	10	●	2
MPS1-0850-L15C		15	198.5	129.0	154.5	157.5	197	1.5	10	●	2
MPS1-0850-L20C		20	241.5	171.5	197.5	200.5	240	1.5	10	●	2
MPS1-0850-L25C		25	283.5	214.0	239.5	242.5	282	1.5	10	●	2
MPS1-0850-L30C		30	325.5	256.5	282.5	284.5	324	1.5	10	●	2
MPS1-0850-L35C		35	367.5	299.0	324.5	326.5	366	1.5	10	□	2
MPS1-0850-L40C		40	411.5	341.5	366.5	370.5	410	1.5	10	●	2
MPS1-0860S-DIN	8.6	3	88.6	33.7	46.6	47.6	87	1.6	10	□	4
MPS1-0860S-DIN-C		3	88.6	33.7	46.6	47.6	87	1.6	10	●	2
MPS1-0860L-DIN		5	102.6	47.7	60.6	61.6	101	1.6	10	□	4
MPS1-0860L-DIN-C		5	102.6	47.7	60.6	61.6	101	1.6	10	●	2
MPS1-0860-PC		2	85.4	18.6	41.4	43.4	84	1.4	10	●	2
MPS1-0860-L8C		8	144.8	70.6	100.8	103.8	143	1.8	10	●	2
MPS1-0860-L10C		10	162.6	87.6	118.6	121.6	161	1.6	10	□	2
MPS1-0860-L12C		12	180.6	104.8	136.6	139.6	179	1.6	10	●	2
MPS1-0860-L15C		15	207.6	130.6	163.6	166.6	206	1.6	10	●	2
MPS1-0860-L20C		20	252.6	173.6	208.6	211.6	251	1.6	10	□	2
MPS1-0860-L25C		25	297.6	216.6	253.6	256.6	296	1.6	10	●	2
MPS1-0860-L30C		30	341.6	259.6	298.6	300.6	340	1.6	10	●	2
MPS1-0860-L35C		35	386.6	302.6	343.6	345.6	385	1.6	10	□	2
MPS1-0860-L40C		40	435.6	345.6	391.6	394.6	434	1.6	10	●	2
MPS1-0870S-DIN	8.7	3	88.6	33.5	46.6	47.6	87	1.6	10	□	4
MPS1-0870S-DIN-C		3	88.6	33.5	46.6	47.6	87	1.6	10	●	2
MPS1-0870L-DIN		5	102.6	47.5	60.6	61.6	101	1.6	10	□	4
MPS1-0870L-DIN-C		5	102.6	47.5	60.6	61.6	101	1.6	10	●	2
MPS1-0870-PC		2	85.4	18.8	41.4	43.4	84	1.4	10	●	2
MPS1-0870-L8C		8	144.8	71.4	100.8	103.8	143	1.8	10	●	2
MPS1-0870-L10C		10	162.6	88.6	118.6	121.6	161	1.6	10	□	2
MPS1-0870-L12C		12	180.6	106.0	136.6	139.6	179	1.6	10	●	2
MPS1-0870-L15C		15	207.6	132.1	163.6	166.6	206	1.6	10	●	2
MPS1-0870-L20C		20	252.6	175.6	208.6	211.6	251	1.6	10	□	2
MPS1-0870-L25C		25	297.6	219.1	253.6	256.6	296	1.6	10	●	2
MPS1-0870-L30C		30	341.6	262.6	298.6	300.6	340	1.6	10	□	2
MPS1-0870-L35C		35	386.6	306.1	343.6	345.6	385	1.6	10	□	2
MPS1-0870-L40C		40	435.6	349.6	391.6	394.6	434	1.6	10	●	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0880S-DIN	8.8	3	88.6	33.4	46.6	47.6	87	1.6	10	□	4
MPS1-0880S-DIN-C		3	88.6	33.4	46.6	47.6	87	1.6	10	●	2
MPS1-0880L-DIN		5	102.6	47.4	60.6	61.6	101	1.6	10	□	4
MPS1-0880L-DIN-C		5	102.6	47.4	60.6	61.6	101	1.6	10	●	2
MPS1-0880-PC		2	85.4	19.0	41.4	43.4	84	1.4	10	●	2
MPS1-0880-L8C		8	144.8	72.2	100.8	103.8	143	1.8	10	●	2
MPS1-0880-L10C		10	162.6	89.6	118.6	121.6	161	1.6	10	□	2
MPS1-0880-L12C		12	180.6	107.2	136.6	139.6	179	1.6	10	●	2
MPS1-0880-L15C		15	207.6	133.6	163.6	166.6	206	1.6	10	●	2
MPS1-0880-L20C		20	252.6	177.6	208.6	211.6	251	1.6	10	●	2
MPS1-0880-L25C		25	297.6	221.6	253.6	256.6	296	1.6	10	●	2
MPS1-0880-L30C		30	341.6	265.6	298.6	300.6	340	1.6	10	●	2
MPS1-0880-L35C		35	386.6	309.6	343.6	345.6	385	1.6	10	□	2
MPS1-0880-L40C		40	435.6	353.6	391.6	394.6	434	1.6	10	●	2
MPS1-0890S-DIN	8.9	3	88.6	33.3	46.6	47.6	87	1.6	10	□	4
MPS1-0890S-DIN-C		3	88.6	33.3	46.6	47.6	87	1.6	10	●	2
MPS1-0890L-DIN		5	102.6	47.3	60.6	61.6	101	1.6	10	□	4
MPS1-0890L-DIN-C		5	102.6	47.3	60.6	61.6	101	1.6	10	●	2
MPS1-0890-PC		2	85.4	19.2	41.4	43.4	84	1.4	10	●	2
MPS1-0890-L8C		8	144.8	73.0	100.8	103.8	143	1.8	10	●	2
MPS1-0890-L10C		10	162.6	90.6	118.6	121.6	161	1.6	10	□	2
MPS1-0890-L12C		12	180.6	108.4	136.6	139.6	179	1.6	10	●	2
MPS1-0890-L15C		15	207.6	135.1	163.6	166.6	206	1.6	10	□	2
MPS1-0890-L20C		20	252.6	179.6	208.6	211.6	251	1.6	10	□	2
MPS1-0890-L25C		25	297.6	224.1	253.6	256.6	296	1.6	10	□	2
MPS1-0890-L30C		30	341.6	268.6	298.6	300.6	340	1.6	10	□	2
MPS1-0890-L35C		35	386.6	313.1	343.6	345.6	385	1.6	10	□	2
MPS1-0890-L40C		40	435.6	357.6	391.6	394.6	434	1.6	10	●	2
MPS1-0900S-DIN	9.0	3	88.6	33.1	46.6	47.6	87	1.6	10	□	4
MPS1-0900S-DIN-C		3	88.6	33.1	46.6	47.6	87	1.6	10	●	2
MPS1-0900L-DIN		5	102.6	47.1	60.6	61.6	101	1.6	10	□	4
MPS1-0900L-DIN-C		5	102.6	47.1	60.6	61.6	101	1.6	10	●	2
MPS1-0900-PC		2	85.4	19.4	41.4	43.4	84	1.4	10	●	2
MPS1-0900-L8C		8	144.9	73.9	100.9	103.9	143	1.9	10	●	2
MPS1-0900-L10C		10	162.6	91.6	118.6	121.6	161	1.6	10	●	2
MPS1-0900-L12C		12	180.6	109.6	136.6	139.6	179	1.6	10	●	2
MPS1-0900-L15C		15	207.6	136.6	163.6	166.6	206	1.6	10	●	2
MPS1-0900-L20C		20	252.6	181.6	208.6	211.6	251	1.6	10	●	2
MPS1-0900-L25C		25	297.6	226.6	253.6	256.6	296	1.6	10	●	2
MPS1-0900-L30C		30	341.6	271.6	298.6	300.6	340	1.6	10	●	2
MPS1-0900-L35C		35	386.6	316.6	343.6	345.6	385	1.6	10	□	2
MPS1-0900-L40C		40	435.6	361.6	391.6	394.6	434	1.6	10	●	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0910S-DIN		3	88.7	33.0	46.7	47.7	87	1.7	10	□	4
MPS1-0910S-DIN-C		3	88.7	33.0	46.7	47.7	87	1.7	10	●	2
MPS1-0910L-DIN		5	102.7	47.0	60.7	61.7	101	1.7	10	□	4
MPS1-0910L-DIN-C		5	102.7	47.0	60.7	61.7	101	1.7	10	●	2
MPS1-0910-PC		2	90.4	19.6	41.4	44.4	89	1.4	10	●	2
MPS1-0910-L8C		8	150.9	74.7	106.9	109.9	149	1.9	10	●	2
MPS1-0910-L10C	9.1	10	169.7	92.7	125.7	128.7	168	1.7	10	□	2
MPS1-0910-L12C		12	188.7	110.9	144.7	147.7	187	1.7	10	●	2
MPS1-0910-L15C		15	216.7	138.2	172.7	175.7	215	1.7	10	●	2
MPS1-0910-L20C		20	264.7	183.7	220.7	223.7	263	1.7	10	□	2
MPS1-0910-L25C		25	311.7	229.2	267.7	270.7	310	1.7	10	□	2
MPS1-0910-L30C		30	359.7	274.7	315.7	318.7	358	1.7	10	●	2
MPS1-0910-L35C		35	405.7	320.2	362.7	364.7	404	1.7	10	□	2
MPS1-0920S-DIN		3	88.7	32.9	46.7	47.7	87	1.7	10	□	4
MPS1-0920S-DIN-C		3	88.7	32.9	46.7	47.7	87	1.7	10	●	2
MPS1-0920L-DIN		5	102.7	46.9	60.7	61.7	101	1.7	10	□	4
MPS1-0920L-DIN-C		5	102.7	46.9	60.7	61.7	101	1.7	10	●	2
MPS1-0920-PC		2	90.5	19.9	41.5	44.5	89	1.5	10	●	2
MPS1-0920-L8C		8	150.9	75.5	106.9	109.9	149	1.9	10	●	2
MPS1-0920-L10C	9.2	10	169.7	93.7	125.7	128.7	168	1.7	10	□	2
MPS1-0920-L12C		12	188.7	112.1	144.7	147.7	187	1.7	10	●	2
MPS1-0920-L15C		15	216.7	139.7	172.7	175.7	215	1.7	10	●	2
MPS1-0920-L20C		20	264.7	185.7	220.7	223.7	263	1.7	10	□	2
MPS1-0920-L25C		25	311.7	231.7	267.7	270.7	310	1.7	10	□	2
MPS1-0920-L30C		30	359.7	277.7	315.7	318.7	358	1.7	10	□	2
MPS1-0920-L35C		35	405.7	323.7	362.7	364.7	404	1.7	10	□	2
MPS1-0930S-DIN		3	88.7	32.7	46.7	47.7	87	1.7	10	□	4
MPS1-0930S-DIN-C		3	88.7	32.7	46.7	47.7	87	1.7	10	●	2
MPS1-0930L-DIN		5	102.7	46.7	60.7	61.7	101	1.7	10	□	4
MPS1-0930L-DIN-C		5	102.7	46.7	60.7	61.7	101	1.7	10	●	2
MPS1-0930-PC		2	90.5	20.1	41.5	44.5	89	1.5	10	●	2
MPS1-0930-L8C		8	150.9	76.3	106.9	109.9	149	1.9	10	●	2
MPS1-0930-L10C	9.3	10	169.7	94.7	125.7	128.7	168	1.7	10	□	2
MPS1-0930-L12C		12	188.7	113.3	144.7	147.7	187	1.7	10	●	2
MPS1-0930-L15C		15	216.7	141.2	172.7	175.7	215	1.7	10	□	2
MPS1-0930-L20C		20	264.7	187.7	220.7	223.7	263	1.7	10	□	2
MPS1-0930-L25C		25	311.7	234.2	267.7	270.7	310	1.7	10	□	2
MPS1-0930-L30C		30	359.7	280.7	315.7	318.7	358	1.7	10	□	2
MPS1-0930-L35C		35	405.7	327.2	362.7	364.7	404	1.7	10	□	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0940S-DIN		3	88.7	32.6	46.7	47.7	87	1.7	10	□	4
MPS1-0940S-DIN-C		3	88.7	32.6	46.7	47.7	87	1.7	10	●	2
MPS1-0940L-DIN		5	102.7	46.6	60.7	61.7	101	1.7	10	□	4
MPS1-0940L-DIN-C		5	102.7	46.6	60.7	61.7	101	1.7	10	●	2
MPS1-0940-PC		2	90.5	20.3	41.5	44.5	89	1.5	10	●	2
MPS1-0940-L8C		8	150.9	77.1	106.9	109.9	149	1.9	10	●	2
MPS1-0940-L10C	9.4	10	169.7	95.7	125.7	128.7	168	1.7	10	□	2
MPS1-0940-L12C		12	188.7	114.5	144.7	147.7	187	1.7	10	●	2
MPS1-0940-L15C		15	216.7	142.7	172.7	175.7	215	1.7	10	□	2
MPS1-0940-L20C		20	264.7	189.7	220.7	223.7	263	1.7	10	□	2
MPS1-0940-L25C		25	311.7	236.7	267.7	270.7	310	1.7	10	□	2
MPS1-0940-L30C		30	359.7	283.7	315.7	318.7	358	1.7	10	□	2
MPS1-0940-L35C		35	405.7	330.7	362.7	364.7	404	1.7	10	□	2
MPS1-0950S-DIN		3	88.7	32.5	46.7	47.7	87	1.7	10	□	4
MPS1-0950S-DIN-C		3	88.7	32.5	46.7	47.7	87	1.7	10	●	2
MPS1-0950L-DIN		5	102.7	46.5	60.7	61.7	101	1.7	10	□	4
MPS1-0950L-DIN-C		5	102.7	46.5	60.7	61.7	101	1.7	10	●	2
MPS1-0950-PC		2	90.5	20.5	41.5	44.5	89	1.5	10	●	2
MPS1-0950-L8C		8	151.0	78.0	107.0	110.0	149	2.0	10	●	2
MPS1-0950-L10C	9.5	10	169.7	96.7	125.7	128.7	168	1.7	10	□	2
MPS1-0950-L12C		12	188.7	115.7	144.7	147.7	187	1.7	10	●	2
MPS1-0950-L15C		15	216.7	144.2	172.7	175.7	215	1.7	10	●	2
MPS1-0950-L20C		20	264.7	191.7	220.7	223.7	263	1.7	10	●	2
MPS1-0950-L25C		25	311.7	239.2	267.7	270.7	310	1.7	10	●	2
MPS1-0950-L30C		30	359.7	286.7	315.7	318.7	358	1.7	10	●	2
MPS1-0950-L35C		35	405.7	334.2	362.7	364.7	404	1.7	10	□	2
MPS1-0960S-DIN		3	88.7	32.3	46.7	47.7	87	1.7	10	□	4
MPS1-0960S-DIN-C		3	88.7	32.3	46.7	47.7	87	1.7	10	●	2
MPS1-0960L-DIN		5	102.7	46.3	60.7	61.7	101	1.7	10	□	4
MPS1-0960L-DIN-C		5	102.7	46.3	60.7	61.7	101	1.7	10	●	2
MPS1-0960-PC		2	90.5	20.7	44.5	44.5	89	1.5	10	●	2
MPS1-0960-L8C		8	156.0	78.8	112.0	115.0	154	2.0	10	●	2
MPS1-0960-L10C	9.6	10	175.7	97.7	131.7	134.7	174	1.7	10	□	2
MPS1-0960-L12C		12	195.7	116.9	151.7	154.7	194	1.7	10	●	2
MPS1-0960-L15C		15	225.7	145.7	181.7	184.7	224	1.7	10	●	2
MPS1-0960-L20C		20	275.7	193.7	231.7	234.7	274	1.7	10	□	2
MPS1-0960-L25C		25	325.7	241.7	281.7	284.7	324	1.7	10	□	2
MPS1-0960-L30C		30	375.7	289.7	331.7	334.7	374	1.7	10	□	2
MPS1-0960-L35C		35	424.7	337.7	381.7	383.7	423	1.7	10	□	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-0970S-DIN		3	88.8	32.2	46.8	47.8	87	1.8	10	□	4
MPS1-0970S-DIN-C		3	88.8	32.2	46.8	47.8	87	1.8	10	●	2
MPS1-0970L-DIN		5	102.8	46.2	60.8	61.8	101	1.8	10	□	4
MPS1-0970L-DIN-C		5	102.8	46.2	60.8	61.8	101	1.8	10	●	2
MPS1-0970-PC		2	90.5	20.9	44.5	44.5	89	1.5	10	●	2
MPS1-0970-L8C		8	156.0	79.6	112.0	115.0	154	2.0	10	●	2
MPS1-0970-L10C	9.7	10	175.8	98.8	131.8	134.8	174	1.8	10	□	2
MPS1-0970-L12C		12	195.8	118.2	151.8	154.8	194	1.8	10	●	2
MPS1-0970-L15C		15	225.8	147.3	181.8	184.8	224	1.8	10	●	2
MPS1-0970-L20C		20	275.8	195.8	231.8	234.8	274	1.8	10	□	2
MPS1-0970-L25C		25	325.8	244.3	281.8	284.8	324	1.8	10	□	2
MPS1-0970-L30C		30	375.8	292.8	331.8	334.8	374	1.8	10	□	2
MPS1-0970-L35C		35	424.8	341.3	381.8	383.8	423	1.8	10	□	2
MPS1-0980S-DIN		3	88.8	32.1	46.8	47.8	87	1.8	10	□	4
MPS1-0980S-DIN-C		3	88.8	32.1	46.8	47.8	87	1.8	10	●	2
MPS1-0980L-DIN		5	102.8	46.1	60.8	61.8	101	1.8	10	□	4
MPS1-0980L-DIN-C		5	102.8	46.1	60.8	61.8	101	1.8	10	●	2
MPS1-0980-PC		2	90.5	21.1	44.5	44.5	89	1.5	10	●	2
MPS1-0980-L8C		8	156.0	80.4	112.0	115.0	154	2.0	10	●	2
MPS1-0980-L10C	9.8	10	175.8	99.8	131.8	134.8	174	1.8	10	□	2
MPS1-0980-L12C		12	195.8	119.4	151.8	154.8	194	1.8	10	●	2
MPS1-0980-L15C		15	225.8	148.8	181.8	184.8	224	1.8	10	●	2
MPS1-0980-L20C		20	275.8	197.8	231.8	234.8	274	1.8	10	●	2
MPS1-0980-L25C		25	325.8	246.8	281.8	284.8	324	1.8	10	□	2
MPS1-0980-L30C		30	375.8	295.8	331.8	334.8	374	1.8	10	●	2
MPS1-0980-L35C		35	424.8	344.8	381.8	383.8	423	1.8	10	□	2
MPS1-0990S-DIN		3	88.8	32.0	46.8	47.8	87	1.8	10	□	4
MPS1-0990S-DIN-C		3	88.8	32.0	46.8	47.8	87	1.8	10	●	2
MPS1-0990L-DIN		5	102.8	46.0	60.8	61.8	101	1.8	10	□	4
MPS1-0990L-DIN-C		5	102.8	46.0	60.8	61.8	101	1.8	10	●	2
MPS1-0990-PC		2	90.6	21.4	44.6	44.6	89	1.6	10	●	2
MPS1-0990-L8C		8	156.1	81.3	112.1	115.1	154	2.1	10	●	2
MPS1-0990-L10C	9.9	10	175.8	100.8	131.8	134.8	174	1.8	10	□	2
MPS1-0990-L12C		12	195.8	120.6	151.8	154.8	194	1.8	10	●	2
MPS1-0990-L15C		15	225.8	150.3	181.8	184.8	224	1.8	10	●	2
MPS1-0990-L20C		20	275.8	199.8	231.8	234.8	274	1.8	10	□	2
MPS1-0990-L25C		25	325.8	249.3	281.8	284.8	324	1.8	10	□	2
MPS1-0990-L30C		30	375.8	298.8	331.8	334.8	374	1.8	10	□	2
MPS1-0990-L35C		35	424.8	348.3	381.8	383.8	423	1.8	10	□	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-1000S-DIN		3	88.8	31.8	46.8	47.8	87	1.8	10	□	4
MPS1-1000S-DIN-C		3	88.8	31.8	46.8	47.8	87	1.8	10	●	2
MPS1-1000L-DIN		5	102.8	45.8	60.8	61.8	101	1.8	10	□	4
MPS1-1000L-DIN-C		5	102.8	45.8	60.8	61.8	101	1.8	10	●	2
MPS1-1000-PC		2	90.6	21.6	44.6	44.6	89	1.6	10	●	2
MPS1-1000-L8C		8	156.1	82.1	112.1	115.1	154	2.1	10	●	2
MPS1-1000-L10C	10.0	10	175.8	101.8	131.8	134.8	174	1.8	10	□	2
MPS1-1000-L12C		12	195.8	121.8	151.8	154.8	194	1.8	10	●	2
MPS1-1000-L15C		15	225.8	151.8	181.8	184.8	224	1.8	10	●	2
MPS1-1000-L20C		20	275.8	201.8	231.8	234.8	274	1.8	10	●	2
MPS1-1000-L25C		25	325.8	251.8	281.8	284.8	324	1.8	10	●	2
MPS1-1000-L30C		30	375.8	301.8	331.8	334.8	374	1.8	10	●	2
MPS1-1000-L35C		35	424.8	351.8	381.8	383.8	423	1.8	10	□	2
MPS1-1005S-DIN		3	101.8	39.8	54.8	55.8	100	1.8	12	□	4
MPS1-1005S-DIN-C		3	101.8	39.8	54.8	55.8	100	1.8	12	●	2
MPS1-1005L-DIN	10.05	5	117.8	55.8	70.8	71.8	116	1.8	12	□	4
MPS1-1005L-DIN-C		5	117.8	55.8	70.8	71.8	116	1.8	12	●	2
MPS1-1010S-DIN		3	101.8	39.7	54.8	55.8	100	1.8	12	□	4
MPS1-1010S-DIN-C		3	101.8	39.7	54.8	55.8	100	1.8	12	●	2
MPS1-1010L-DIN		5	117.8	55.7	70.8	71.8	116	1.8	12	□	4
MPS1-1010L-DIN-C		5	117.8	55.7	70.8	71.8	116	1.8	12	●	2
MPS1-1010-PC		2	96.6	21.8	44.6	47.6	95	1.6	12	●	2
MPS1-1010-L8C	10.1	8	167.1	82.9	118.1	121.1	165	2.1	12	●	2
MPS1-1010-L10C		10	187.8	102.8	138.8	141.8	186	1.8	12	□	2
MPS1-1010-L12C		12	208.8	123.0	159.8	162.8	207	1.8	12	●	2
MPS1-1010-L15C		15	239.8	153.3	190.8	193.8	238	1.8	12	●	2
MPS1-1010-L20C		20	292.8	203.8	243.8	246.8	291	1.8	12	●	2
MPS1-1010-L25C		25	344.8	254.3	295.8	298.8	343	1.8	12	□	2
MPS1-1020S-DIN		3	101.9	39.6	54.9	55.9	100	1.9	12	□	4
MPS1-1020S-DIN-C		3	101.9	39.6	54.9	55.9	100	1.9	12	●	2
MPS1-1020L-DIN		5	117.9	55.6	70.9	71.9	116	1.9	12	□	4
MPS1-1020L-DIN-C		5	117.9	55.6	70.9	71.9	116	1.9	12	●	2
MPS1-1020-PC		2	96.6	22.0	44.6	47.6	95	1.6	12	●	2
MPS1-1020-L8C	10.2	8	167.1	83.7	118.1	121.1	165	2.1	12	●	2
MPS1-1020-L10C		10	187.9	103.9	138.9	141.9	186	1.9	12	□	2
MPS1-1020-L12C		12	208.9	124.3	159.9	162.9	207	1.9	12	●	2
MPS1-1020-L15C		15	239.9	154.9	190.9	193.9	238	1.9	12	●	2
MPS1-1020-L20C		20	292.9	205.9	243.9	246.9	291	1.9	12	●	2
MPS1-1020-L25C		25	344.9	256.9	295.9	298.9	343	1.9	12	□	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-1030S-DIN		3	101.9	39.4	54.9	55.9	100	1.9	12	□	4
MPS1-1030S-DIN-C		3	101.9	39.4	54.9	55.9	100	1.9	12	●	2
MPS1-1030L-DIN		5	117.9	55.4	70.9	71.9	116	1.9	12	□	4
MPS1-1030L-DIN-C		5	117.9	55.4	70.9	71.9	116	1.9	12	●	2
MPS1-1030-PC		2	96.6	22.2	44.6	47.6	95	1.6	12	●	2
MPS1-1030-L8C	10.3	8	167.1	84.5	118.1	121.1	165	2.1	12	●	2
MPS1-1030-L10C		10	187.9	104.9	138.9	141.9	186	1.9	12	□	2
MPS1-1030-L12C		12	208.9	125.5	159.9	162.9	207	1.9	12	●	2
MPS1-1030-L15C		15	239.9	156.4	190.9	193.9	238	1.9	12	□	2
MPS1-1030-L20C		20	292.9	207.9	243.9	246.9	291	1.9	12	□	2
MPS1-1030-L25C		25	344.9	259.4	295.9	298.9	343	1.9	12	□	2
MPS1-1040S-DIN		3	101.9	39.3	54.9	55.9	100	1.9	12	□	4
MPS1-1040S-DIN-C		3	101.9	39.3	54.9	55.9	100	1.9	12	●	2
MPS1-1040L-DIN		5	117.9	55.3	70.9	71.9	116	1.9	12	□	4
MPS1-1040L-DIN-C		5	117.9	55.3	70.9	71.9	116	1.9	12	●	2
MPS1-1040-PC		2	96.6	22.4	44.6	47.6	95	1.6	12	●	2
MPS1-1040-L8C	10.4	8	167.2	85.4	118.2	121.2	165	2.2	12	●	2
MPS1-1040-L10C		10	187.9	105.9	138.9	141.9	186	1.9	12	□	2
MPS1-1040-L12C		12	208.9	126.7	159.9	162.9	207	1.9	12	●	2
MPS1-1040-L15C		15	239.9	157.9	190.9	193.9	238	1.9	12	□	2
MPS1-1040-L20C		20	292.9	209.9	243.9	246.9	291	1.9	12	□	2
MPS1-1040-L25C		25	344.9	261.9	295.9	298.9	343	1.9	12	□	2
MPS1-1050S-DIN		3	101.9	39.2	54.9	55.9	100	1.9	12	□	4
MPS1-1050S-DIN-C		3	101.9	39.2	54.9	55.9	100	1.9	12	●	2
MPS1-1050L-DIN		5	117.9	55.2	70.9	71.9	116	1.9	12	□	4
MPS1-1050L-DIN-C		5	117.9	55.2	70.9	71.9	116	1.9	12	●	2
MPS1-1050-PC		2	96.7	22.7	44.7	47.7	95	1.7	12	●	2
MPS1-1050-L8C	10.5	8	167.2	86.2	118.2	121.2	165	2.2	12	●	2
MPS1-1050-L10C		10	187.9	106.9	138.9	141.9	186	1.9	12	□	2
MPS1-1050-L12C		12	208.9	127.9	159.9	162.9	207	1.9	12	●	2
MPS1-1050-L15C		15	239.9	159.4	190.9	193.9	238	1.9	12	●	2
MPS1-1050-L20C		20	292.9	211.9	243.9	246.9	291	1.9	12	●	2
MPS1-1050-L25C		25	344.9	264.4	295.9	298.9	343	1.9	12	●	2
MPS1-1060S-DIN		3	101.9	39.0	54.9	55.9	100	1.9	12	□	4
MPS1-1060S-DIN-C		3	101.9	39.0	54.9	55.9	100	1.9	12	●	2
MPS1-1060L-DIN		5	117.9	55.0	70.9	71.9	116	1.9	12	□	4
MPS1-1060L-DIN-C		5	117.9	55.0	70.9	71.9	116	1.9	12	●	2
MPS1-1060-PC		2	96.7	22.9	48.7	49.7	95	1.7	12	□	2
MPS1-1060-L8C	10.6	8	172.2	87.0	123.2	126.2	170	2.2	12	●	2
MPS1-1060-L10C		10	193.9	107.9	144.9	147.9	192	1.9	12	□	2
MPS1-1060-L12C		12	215.9	129.1	166.9	169.9	214	1.9	12	□	2
MPS1-1060-L15C		15	248.9	160.9	199.9	202.9	247	1.9	12	□	2
MPS1-1060-L20C		20	303.9	213.9	254.9	257.9	302	1.9	12	□	2
MPS1-1060-L25C		25	358.9	266.9	309.9	312.9	357	1.9	12	□	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-1070S-DIN	10.7	3	101.9	38.9	54.9	55.9	100	1.9	12	□	4
MPS1-1070S-DIN-C		3	101.9	38.9	54.9	55.9	100	1.9	12	●	2
MPS1-1070L-DIN		5	117.9	54.9	70.9	71.9	116	1.9	12	□	4
MPS1-1070L-DIN-C		5	117.9	54.9	70.9	71.9	116	1.9	12	●	2
MPS1-1070-PC		2	96.7	23.1	48.7	49.7	95	1.7	12	●	2
MPS1-1070-L8C		8	172.2	87.8	123.2	126.2	170	2.2	12	●	2
MPS1-1070-L10C		10	193.9	108.9	144.9	147.9	192	1.9	12	□	2
MPS1-1070-L12C		12	215.9	130.3	166.9	169.9	214	1.9	12	●	2
MPS1-1070-L15C		15	248.9	162.4	199.9	202.9	247	1.9	12	□	2
MPS1-1070-L20C		20	303.9	215.9	254.9	257.9	302	1.9	12	□	2
MPS1-1070-L25C		25	358.9	269.4	309.9	312.9	357	1.9	12	□	2
MPS1-1080S-DIN	10.8	3	102.0	38.8	55.0	56.0	100	2.0	12	□	4
MPS1-1080S-DIN-C		3	102.0	38.8	55.0	56.0	100	2.0	12	●	2
MPS1-1080L-DIN		5	118.0	54.8	71.0	72.0	116	2.0	12	□	4
MPS1-1080L-DIN-C		5	118.0	54.8	71.0	72.0	116	2.0	12	●	2
MPS1-1080-PC		2	96.7	23.3	48.7	49.7	95	1.7	12	●	2
MPS1-1080-L8C		8	172.2	88.6	123.2	126.2	170	2.2	12	●	2
MPS1-1080-L10C		10	194.0	110.0	145.0	148.0	192	2.0	12	□	2
MPS1-1080-L12C		12	216.0	131.6	167.0	170.0	214	2.0	12	●	2
MPS1-1080-L15C		15	249.0	164.0	200.0	203.0	247	2.0	12	□	2
MPS1-1080-L20C		20	304.0	218.0	255.0	258.0	302	2.0	12	□	2
MPS1-1080-L25C		25	359.0	272.0	310.0	313.0	357	2.0	12	□	2
MPS1-1090S-DIN	10.9	3	102.0	38.6	55.0	56.0	100	2.0	12	□	4
MPS1-1090S-DIN-C		3	102.0	38.6	55.0	56.0	100	2.0	12	●	2
MPS1-1090L-DIN		5	118.0	54.6	71.0	72.0	116	2.0	12	□	4
MPS1-1090L-DIN-C		5	118.0	54.6	71.0	72.0	116	2.0	12	●	2
MPS1-1090-PC		2	96.7	23.5	48.7	49.7	95	1.7	12	□	2
MPS1-1090-L8C		8	172.3	89.5	123.3	126.3	170	2.3	12	●	2
MPS1-1090-L10C		10	194.0	111.0	145.0	148.0	192	2.0	12	□	2
MPS1-1090-L12C		12	216.0	132.8	167.0	170.0	214	2.0	12	□	2
MPS1-1090-L15C		15	249.0	165.5	200.0	203.0	247	2.0	12	□	2
MPS1-1090-L20C		20	304.0	220.0	255.0	258.0	302	2.0	12	□	2
MPS1-1090-L25C		25	359.0	274.5	310.0	313.0	357	2.0	12	□	2
MPS1-1100S-DIN	11.0	3	102.0	38.5	55.0	56.0	100	2.0	12	□	4
MPS1-1100S-DIN-C		3	102.0	38.5	55.0	56.0	100	2.0	12	●	2
MPS1-1100L-DIN		5	118.0	54.5	71.0	72.0	116	2.0	12	□	4
MPS1-1100L-DIN-C		5	118.0	54.5	71.0	72.0	116	2.0	12	●	2
MPS1-1100-PC		2	96.7	23.7	48.7	49.7	95	1.7	12	●	2
MPS1-1100-L8C		8	172.3	90.3	123.3	126.3	170	2.3	12	●	2
MPS1-1100-L10C		10	194.0	112.0	145.0	148.0	192	2.0	12	□	2
MPS1-1100-L12C		12	216.0	134.0	167.0	170.0	214	2.0	12	●	2
MPS1-1100-L15C		15	249.0	167.0	200.0	203.0	247	2.0	12	●	2
MPS1-1100-L20C		20	304.0	222.0	255.0	258.0	302	2.0	12	●	2
MPS1-1100-L25C		25	359.0	277.0	310.0	313.0	357	2.0	12	●	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-1110S-DIN		3	102.0	38.4	55.0	56.0	100	2.0	12	□	4
MPS1-1110S-DIN-C		3	102.0	38.4	55.0	56.0	100	2.0	12	●	2
MPS1-1110L-DIN		5	118.0	54.4	71.0	72.0	116	2.0	12	□	4
MPS1-1110L-DIN-C		5	118.0	54.4	71.0	72.0	116	2.0	12	●	2
MPS1-1110-PC		2	96.7	23.9	48.7	51.7	95	1.7	12	●	2
MPS1-1110-L8C	11.1	8	178.3	91.1	129.3	132.3	176	2.3	12	●	2
MPS1-1110-L10C		10	201.0	113.0	152.0	155.0	199	2.0	12	□	2
MPS1-1110-L12C		12	224.0	135.2	175.0	178.0	222	2.0	12	●	2
MPS1-1110-L15C		15	258.0	168.5	209.0	212.0	256	2.0	12	●	2
MPS1-1110-L20C		20	316.0	224.0	267.0	270.0	314	2.0	12	□	2
MPS1-1110-L25C		25	373.0	279.5	324.0	327.0	371	2.0	12	●	2
MPS1-1120S-DIN		3	102.0	38.2	55.0	56.0	100	2.0	12	□	4
MPS1-1120S-DIN-C		3	102.0	38.2	55.0	56.0	100	2.0	12	●	2
MPS1-1120L-DIN		5	118.0	54.2	71.0	72.0	116	2.0	12	□	4
MPS1-1120L-DIN-C		5	118.0	54.2	71.0	72.0	116	2.0	12	●	2
MPS1-1120-PC		2	96.8	24.2	48.8	51.8	95	1.8	12	●	2
MPS1-1120-L8C	11.2	8	178.3	91.9	129.3	132.3	176	2.3	12	●	2
MPS1-1120-L10C		10	201.0	114.0	152.0	155.0	199	2.0	12	□	2
MPS1-1120-L12C		12	224.0	136.4	175.0	178.0	222	2.0	12	□	2
MPS1-1120-L15C		15	258.0	170.0	209.0	212.0	256	2.0	12	●	2
MPS1-1120-L20C		20	316.0	226.0	267.0	270.0	314	2.0	12	□	2
MPS1-1120-L25C		25	373.0	282.0	324.0	327.0	371	2.0	12	□	2
MPS1-1130S-DIN		3	102.1	38.1	55.1	56.1	100	2.1	12	□	4
MPS1-1130S-DIN-C		3	102.1	38.1	55.1	56.1	100	2.1	12	●	2
MPS1-1130L-DIN		5	118.1	54.1	71.1	72.1	116	2.1	12	□	4
MPS1-1130L-DIN-C		5	118.1	54.1	71.1	72.1	116	2.1	12	●	2
MPS1-1130-PC		2	96.8	24.4	48.8	51.8	95	1.8	12	□	2
MPS1-1130-L8C	11.3	8	178.3	92.7	129.3	132.3	176	2.3	12	●	2
MPS1-1130-L10C		10	201.1	115.1	152.1	155.1	199	2.1	12	□	2
MPS1-1130-L12C		12	224.1	137.7	175.1	178.1	222	2.1	12	□	2
MPS1-1130-L15C		15	258.1	171.6	209.1	212.1	256	2.1	12	□	2
MPS1-1130-L20C		20	316.1	228.1	267.1	270.1	314	2.1	12	□	2
MPS1-1130-L25C		25	373.1	284.6	324.1	327.1	371	2.1	12	□	2
MPS1-1140S-DIN		3	102.1	38.0	55.1	56.1	100	2.1	12	□	4
MPS1-1140S-DIN-C		3	102.1	38.0	55.1	56.1	100	2.1	12	●	2
MPS1-1140L-DIN		5	118.1	54.0	71.1	72.1	116	2.1	12	□	4
MPS1-1140L-DIN-C		5	118.1	54.0	71.1	72.1	116	2.1	12	●	2
MPS1-1140-PC		2	96.8	24.6	48.8	51.8	95	1.8	12	□	2
MPS1-1140-L8C	11.4	8	178.4	93.6	129.4	132.4	176	2.4	12	●	2
MPS1-1140-L10C		10	201.1	116.1	152.1	155.1	199	2.1	12	□	2
MPS1-1140-L12C		12	224.1	138.9	175.1	178.1	222	2.1	12	□	2
MPS1-1140-L15C		15	258.1	173.1	209.1	212.1	256	2.1	12	□	2
MPS1-1140-L20C		20	316.1	230.1	267.1	270.1	314	2.1	12	□	2
MPS1-1140-L25C		25	373.1	287.1	324.1	327.1	371	2.1	12	□	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-1150S-DIN	11.5	3	102.1	37.8	55.1	56.1	100	2.1	12	□	4
MPS1-1150S-DIN-C		3	102.1	37.8	55.1	56.1	100	2.1	12	●	2
MPS1-1150L-DIN		5	118.1	53.8	71.1	72.1	116	2.1	12	□	4
MPS1-1150L-DIN-C		5	118.1	53.8	71.1	72.1	116	2.1	12	●	2
MPS1-1150-PC		2	96.8	24.8	48.8	51.8	95	1.8	12	●	2
MPS1-1150-L8C		8	178.4	94.4	129.4	132.4	176	2.4	12	●	2
MPS1-1150-L10C		10	201.1	117.1	152.1	155.1	199	2.1	12	□	2
MPS1-1150-L12C		12	224.1	140.1	175.1	178.1	222	2.1	12	●	2
MPS1-1150-L15C		15	258.1	174.6	209.1	212.1	256	2.1	12	●	2
MPS1-1150-L20C		20	316.1	232.1	267.1	270.1	314	2.1	12	●	2
MPS1-1150-L25C		25	373.1	289.6	324.1	327.1	371	2.1	12	●	2
MPS1-1160S-DIN	11.6	3	102.1	37.7	55.1	56.1	100	2.1	12	□	4
MPS1-1160S-DIN-C		3	102.1	37.7	55.1	56.1	100	2.1	12	●	2
MPS1-1160L-DIN		5	118.1	53.7	71.1	72.1	116	2.1	12	□	4
MPS1-1160L-DIN-C		5	118.1	53.7	71.1	72.1	116	2.1	12	●	2
MPS1-1160-PC		2	96.8	25.0	48.8	48.8	95	1.8	12	□	2
MPS1-1160-L8C		8	183.4	95.2	134.4	137.4	181	2.4	12	●	2
MPS1-1160-L10C		10	207.1	118.1	158.1	161.1	205	2.1	12	□	2
MPS1-1160-L12C		12	231.1	141.3	182.1	185.1	229	2.1	12	□	2
MPS1-1160-L15C		15	267.1	176.1	218.1	221.1	265	2.1	12	□	2
MPS1-1160-L20C		20	327.1	234.1	278.1	281.1	325	2.1	12	□	2
MPS1-1160-L25C		25	387.1	292.1	338.1	341.1	385	2.1	12	□	2
MPS1-1170S-DIN	11.7	3	102.1	37.6	55.1	56.1	100	2.1	12	□	4
MPS1-1170S-DIN-C		3	102.1	37.6	55.1	56.1	100	2.1	12	●	2
MPS1-1170L-DIN		5	118.1	53.6	71.1	72.1	116	2.1	12	□	4
MPS1-1170L-DIN-C		5	118.1	53.6	71.1	72.1	116	2.1	12	●	2
MPS1-1170-PC		2	96.8	25.2	48.8	48.8	95	1.8	12	●	2
MPS1-1170-L8C		8	183.4	96.0	134.4	137.4	181	2.4	12	●	2
MPS1-1170-L10C		10	207.1	119.1	158.1	161.1	205	2.1	12	□	2
MPS1-1170-L12C		12	231.1	142.5	182.1	185.1	229	2.1	12	●	2
MPS1-1170-L15C		15	267.1	177.6	218.1	221.1	265	2.1	12	●	2
MPS1-1170-L20C		20	327.1	236.1	278.1	281.1	325	2.1	12	□	2
MPS1-1170-L25C		25	387.1	294.6	338.1	341.1	385	2.1	12	□	2
MPS1-1180S-DIN	11.8	3	102.1	37.4	55.1	56.1	100	2.1	12	□	4
MPS1-1180S-DIN-C		3	102.1	37.4	55.1	56.1	100	2.1	12	●	2
MPS1-1180L-DIN		5	118.1	53.4	71.1	72.1	116	2.1	12	□	4
MPS1-1180L-DIN-C		5	118.1	53.4	71.1	72.1	116	2.1	12	●	2
MPS1-1180-PC		2	96.9	25.5	48.9	48.9	95	1.9	12	●	2
MPS1-1180-L8C		8	183.4	96.8	134.4	137.4	181	2.4	12	●	2
MPS1-1180-L10C		10	207.1	120.1	158.1	161.1	205	2.1	12	□	2
MPS1-1180-L12C		12	231.1	143.7	182.1	185.1	229	2.1	12	●	2
MPS1-1180-L15C		15	267.1	179.1	218.1	221.1	265	2.1	12	●	2
MPS1-1180-L20C		20	327.1	238.1	278.1	281.1	325	2.1	12	□	2
MPS1-1180-L25C		25	387.1	297.1	338.1	341.1	385	2.1	12	□	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ	
MPS1-1190S-DIN	11.9	3	102.2	37.3	55.2	56.2	100	2.2	12	□	4	
MPS1-1190S-DIN-C		3	102.2	37.3	55.2	56.2	100	2.2	12	●	2	
MPS1-1190L-DIN		5	118.2	53.3	71.2	72.2	116	2.2	12	□	4	
MPS1-1190L-DIN-C		5	118.2	53.3	71.2	72.2	116	2.2	12	●	2	
MPS1-1190-PC		2	96.9	25.7	48.9	48.9	95	1.9	12	□	2	
MPS1-1190-L8C		8	183.5	97.7	134.5	137.5	181	2.5	12	●	2	
MPS1-1190-L10C		10	207.2	121.2	158.2	161.2	205	2.2	12	□	2	
MPS1-1190-L12C		12	231.2	145.0	182.2	185.2	229	2.2	12	□	2	
MPS1-1190-L15C		15	267.2	180.7	218.2	221.2	265	2.2	12	□	2	
MPS1-1190-L20C		20	327.2	240.2	278.2	281.2	325	2.2	12	□	2	
MPS1-1190-L25C		25	387.2	299.7	338.2	341.2	385	2.2	12	□	2	
MPS1-1200S-DIN		12.0	3	102.2	37.2	55.2	56.2	100	2.2	12	□	4
MPS1-1200S-DIN-C			3	102.2	37.2	55.2	56.2	100	2.2	12	●	2
MPS1-1200L-DIN			5	118.2	53.2	71.2	72.2	116	2.2	12	□	4
MPS1-1200L-DIN-C			5	118.2	53.2	71.2	72.2	116	2.2	12	●	2
MPS1-1200-PC	2		96.9	25.9	48.9	48.9	95	1.9	12	●	2	
MPS1-1200-L8C	8		183.5	98.5	134.5	137.5	181	2.5	12	●	2	
MPS1-1200-L10C	10		207.2	122.2	158.2	161.2	205	2.2	12	□	2	
MPS1-1200-L12C	12		231.2	146.2	182.2	185.2	229	2.2	12	●	2	
MPS1-1200-L15C	15		267.2	182.2	218.2	221.2	265	2.2	12	●	2	
MPS1-1200-L20C	20		327.2	242.2	278.2	281.2	325	2.2	12	●	2	
MPS1-1200-L25C	25		387.2	302.2	338.2	341.2	385	2.2	12	●	2	
MPS1-1205S-DIN	12.05		3	107.2	42.1	60.2	61.2	105	2.2	14	□	4
MPS1-1205S-DIN-C			3	107.2	42.1	60.2	61.2	105	2.2	14	●	2
MPS1-1205L-DIN			5	124.2	59.1	77.2	78.2	122	2.2	14	□	4
MPS1-1205L-DIN-C			5	124.2	59.1	77.2	78.2	122	2.2	14	●	2
MPS1-1210S-DIN		12.1	3	107.2	42.1	60.2	61.2	105	2.2	14	□	4
MPS1-1210S-DIN-C	3		107.2	42.1	60.2	61.2	105	2.2	14	●	2	
MPS1-1210L-DIN	5		124.2	59.1	77.2	78.2	122	2.2	14	□	4	
MPS1-1210L-DIN-C	5		124.2	59.1	77.2	78.2	122	2.2	14	●	2	
MPS1-1210-PC	2		103.9	26.1	52.9	55.9	102	1.9	14	●	2	
MPS1-1210-L8C	8		189.5	99.3	140.5	143.5	187	2.5	14	●	2	
MPS1-1210-L10C	10		214.2	123.2	165.2	168.2	212	2.2	14	□	2	
MPS1-1210-L12C	12		239.2	147.4	190.2	193.2	237	2.2	14	●	2	
MPS1-1210-L15C	15		276.2	183.7	227.2	230.2	274	2.2	14	●	2	
MPS1-1210-L20C	20		339.2	244.2	290.2	293.2	337	2.2	14	□	2	
MPS1-1220S-DIN	12.2		3	107.2	41.9	60.2	61.2	105	2.2	14	□	4
MPS1-1220S-DIN-C			3	107.2	41.9	60.2	61.2	105	2.2	14	●	2
MPS1-1220L-DIN			5	124.2	58.9	77.2	78.2	122	2.2	14	□	4
MPS1-1220L-DIN-C			5	124.2	58.9	77.2	78.2	122	2.2	14	●	2
MPS1-1220-PC			2	103.9	26.3	52.9	55.9	102	1.9	14	●	2
MPS1-1220-L8C		8	189.5	100.1	140.5	143.5	187	2.5	14	●	2	
MPS1-1220-L10C		10	214.2	124.2	165.2	168.2	212	2.2	14	□	2	
MPS1-1220-L12C		12	239.2	148.6	190.2	193.2	237	2.2	14	●	2	
MPS1-1220-L15C		15	276.2	185.2	227.2	230.2	274	2.2	14	●	2	
MPS1-1220-L20C		20	339.2	246.2	290.2	293.2	337	2.2	14	□	2	

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-1230S-DIN	12.3	3	107.2	41.8	60.2	61.2	105	2.2	14	□	4
MPS1-1230S-DIN-C		3	107.2	41.8	60.2	61.2	105	2.2	14	●	2
MPS1-1230L-DIN		5	124.2	58.8	77.2	78.2	122	2.2	14	□	4
MPS1-1230L-DIN-C		5	124.2	58.8	77.2	78.2	122	2.2	14	●	2
MPS1-1230-PC		2	103.9	26.5	52.9	55.9	102	1.9	14	□	2
MPS1-1230-L8C		8	189.5	100.9	140.5	143.5	187	2.5	14	●	2
MPS1-1230-L10C		10	214.2	125.2	165.2	168.2	212	2.2	14	□	2
MPS1-1230-L12C		12	239.2	149.8	190.2	193.2	237	2.2	14	□	2
MPS1-1230-L15C		15	276.2	186.7	227.2	230.2	274	2.2	14	□	2
MPS1-1230-L20C		20	339.2	248.2	290.2	293.2	337	2.2	14	□	2
MPS1-1240S-DIN	12.4	3	107.3	41.7	60.3	61.3	105	2.3	14	□	4
MPS1-1240S-DIN-C		3	107.3	41.7	60.3	61.3	105	2.3	14	●	2
MPS1-1240L-DIN		5	124.3	58.7	77.3	78.3	122	2.3	14	□	4
MPS1-1240L-DIN-C		5	124.3	58.7	77.3	78.3	122	2.3	14	●	2
MPS1-1240-PC		2	104.0	26.8	53.0	56.0	102	2.0	14	□	2
MPS1-1240-L8C		8	189.6	101.8	140.6	143.6	187	2.6	14	●	2
MPS1-1240-L10C		10	214.3	126.3	165.3	168.3	212	2.3	14	□	2
MPS1-1240-L12C		12	239.3	151.1	190.3	193.3	237	2.3	14	□	2
MPS1-1240-L15C		15	276.3	188.3	227.3	230.3	274	2.3	14	□	2
MPS1-1240-L20C		20	339.3	250.3	290.3	293.3	337	2.3	14	□	2
MPS1-1250S-DIN	12.5	3	107.3	41.5	60.3	61.3	105	2.3	14	□	4
MPS1-1250S-DIN-C		3	107.3	41.5	60.3	61.3	105	2.3	14	●	2
MPS1-1250L-DIN		5	124.3	58.5	77.3	78.3	122	2.3	14	□	4
MPS1-1250L-DIN-C		5	124.3	58.5	77.3	78.3	122	2.3	14	●	2
MPS1-1250-PC		2	104.0	27.0	53.0	56.0	102	2.0	14	●	2
MPS1-1250-L8C		8	189.6	102.6	140.6	143.6	187	2.6	14	●	2
MPS1-1250-L10C		10	214.3	127.3	165.3	168.3	212	2.3	14	□	2
MPS1-1250-L12C		12	239.3	152.3	190.3	193.3	237	2.3	14	●	2
MPS1-1250-L15C		15	276.3	189.8	227.3	230.3	274	2.3	14	●	2
MPS1-1250-L20C		20	339.3	252.3	290.3	293.3	337	2.3	14	□	2
MPS1-1260S-DIN	12.6	3	107.3	41.4	60.3	61.3	105	2.3	14	□	4
MPS1-1260S-DIN-C		3	107.3	41.4	60.3	61.3	105	2.3	14	●	2
MPS1-1260L-DIN		5	124.3	58.4	77.3	78.3	122	2.3	14	□	4
MPS1-1260L-DIN-C		5	124.3	58.4	77.3	78.3	122	2.3	14	●	2
MPS1-1260-PC		2	104.0	27.2	53.0	55.0	102	2.0	14	□	2
MPS1-1260-L8C		8	194.6	103.4	145.6	148.6	192	2.6	14	●	2
MPS1-1260-L10C		10	220.3	128.3	171.3	174.3	218	2.3	14	□	2
MPS1-1260-L12C		12	246.3	153.5	197.3	200.3	244	2.3	14	□	2
MPS1-1260-L15C		15	285.3	191.3	236.3	239.3	283	2.3	14	□	2
MPS1-1260-L20C		20	350.3	254.3	301.3	304.3	348	2.3	14	□	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-1270S-DIN	12.7	3	107.3	41.3	60.3	61.3	105	2.3	14	□	4
MPS1-1270S-DIN-C		3	107.3	41.3	60.3	61.3	105	2.3	14	●	2
MPS1-1270L-DIN		5	124.3	58.3	77.3	78.3	122	2.3	14	□	4
MPS1-1270L-DIN-C		5	124.3	58.3	77.3	78.3	122	2.3	14	●	2
MPS1-1270-PC		2	104.0	27.4	53.0	55.0	102	2.0	14	●	2
MPS1-1270-L8C		8	194.6	104.2	145.6	148.6	192	2.6	14	●	2
MPS1-1270-L10C		10	220.3	129.3	171.3	174.3	218	2.3	14	□	2
MPS1-1270-L12C		12	246.3	154.7	197.3	200.3	244	2.3	14	●	2
MPS1-1270-L15C		15	285.3	192.8	236.3	239.3	283	2.3	14	□	2
MPS1-1270-L20C		20	350.3	256.3	301.3	304.3	348	2.3	14	□	2
MPS1-1280S-DIN	12.8	3	107.3	41.1	60.3	61.3	105	2.3	14	□	4
MPS1-1280S-DIN-C		3	107.3	41.1	60.3	61.3	105	2.3	14	●	2
MPS1-1280L-DIN		5	124.3	58.1	77.3	78.3	122	2.3	14	□	4
MPS1-1280L-DIN-C		5	124.3	58.1	77.3	78.3	122	2.3	14	●	2
MPS1-1280-PC		2	104.0	27.6	53.0	55.0	102	2.0	14	●	2
MPS1-1280-L8C		8	194.7	105.1	145.7	148.7	192	2.7	14	●	2
MPS1-1280-L10C		10	220.3	130.3	171.3	174.3	218	2.3	14	□	2
MPS1-1280-L12C		12	246.3	155.9	197.3	200.3	244	2.3	14	●	2
MPS1-1280-L15C		15	285.3	194.3	236.3	239.3	283	2.3	14	□	2
MPS1-1280-L20C		20	350.3	258.3	301.3	304.3	348	2.3	14	□	2
MPS1-1290S-DIN	12.9	3	107.3	41.0	60.3	61.3	105	2.3	14	□	4
MPS1-1290S-DIN-C		3	107.3	41.0	60.3	61.3	105	2.3	14	●	2
MPS1-1290L-DIN		5	124.3	58.0	77.3	78.3	122	2.3	14	□	4
MPS1-1290L-DIN-C		5	124.3	58.0	77.3	78.3	122	2.3	14	●	2
MPS1-1290-PC		2	104.0	27.8	53.0	55.0	102	2.0	14	□	2
MPS1-1290-L8C		8	194.7	105.9	145.7	148.7	192	2.7	14	●	2
MPS1-1290-L10C		10	220.3	131.3	171.3	174.3	218	2.3	14	□	2
MPS1-1290-L12C		12	246.3	157.1	197.3	200.3	244	2.3	14	□	2
MPS1-1290-L15C		15	285.3	195.8	236.3	239.3	283	2.3	14	□	2
MPS1-1290-L20C		20	350.3	260.3	301.3	304.3	348	2.3	14	□	2
MPS1-1300S-DIN	13.0	3	107.4	40.9	60.4	61.4	105	2.4	14	□	4
MPS1-1300S-DIN-C		3	107.4	40.9	60.4	61.4	105	2.4	14	●	2
MPS1-1300L-DIN		5	124.4	57.9	77.4	78.4	122	2.4	14	□	4
MPS1-1300L-DIN-C		5	124.4	57.9	77.4	78.4	122	2.4	14	●	2
MPS1-1300-PC		2	104.0	28.0	53.0	55.0	102	2.0	14	●	2
MPS1-1300-L8C		8	194.7	106.7	145.7	148.7	192	2.7	14	●	2
MPS1-1300-L10C		10	220.4	132.4	171.4	174.4	218	2.4	14	□	2
MPS1-1300-L12C		12	246.4	158.4	197.4	200.4	244	2.4	14	●	2
MPS1-1300-L15C		15	285.4	197.4	236.4	239.4	283	2.4	14	●	2
MPS1-1300-L20C		20	350.4	262.4	301.4	304.4	348	2.4	14	●	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-1310S-DIN	13.1	3	107.4	40.7	60.4	61.4	105	2.4	14	□	4
MPS1-1310S-DIN-C		3	107.4	40.7	60.4	61.4	105	2.4	14	●	2
MPS1-1310L-DIN		5	124.4	57.7	77.4	78.4	122	2.4	14	□	4
MPS1-1310L-DIN-C		5	124.4	57.7	77.4	78.4	122	2.4	14	●	2
MPS1-1310-PC		2	109.1	28.3	56.1	59.1	107	2.1	14	□	2
MPS1-1310-L8C		8	200.7	107.5	151.7	154.7	198	2.7	14	●	2
MPS1-1310-L10C		10	227.4	133.4	178.4	181.4	225	2.4	14	□	2
MPS1-1310-L12C		12	254.4	159.6	205.4	208.4	252	2.4	14	□	2
MPS1-1310-L15C		15	294.4	198.9	245.4	248.4	292	2.4	14	□	2
MPS1-1310-L20C		20	362.4	264.4	313.4	316.4	360	2.4	14	□	2
MPS1-1320S-DIN	13.2	3	107.4	40.6	60.4	61.4	105	2.4	14	□	4
MPS1-1320S-DIN-C		3	107.4	40.6	60.4	61.4	105	2.4	14	●	2
MPS1-1320L-DIN		5	124.4	57.6	77.4	78.4	122	2.4	14	□	4
MPS1-1320L-DIN-C		5	124.4	57.6	77.4	78.4	122	2.4	14	●	2
MPS1-1320-PC		2	109.1	28.5	56.1	59.1	107	2.1	14	●	2
MPS1-1320-L8C		8	200.7	108.3	151.7	154.7	198	2.7	14	●	2
MPS1-1320-L10C		10	227.4	134.4	178.4	181.4	225	2.4	14	□	2
MPS1-1320-L12C		12	254.4	160.8	205.4	208.4	252	2.4	14	●	2
MPS1-1320-L15C		15	294.4	200.4	245.4	248.4	292	2.4	14	□	2
MPS1-1320-L20C		20	362.4	266.4	313.4	316.4	360	2.4	14	□	2
MPS1-1330S-DIN	13.3	3	107.4	40.5	60.4	61.4	105	2.4	14	□	4
MPS1-1330S-DIN-C		3	107.4	40.5	60.4	61.4	105	2.4	14	●	2
MPS1-1330L-DIN		5	124.4	57.5	77.4	78.4	122	2.4	14	□	4
MPS1-1330L-DIN-C		5	124.4	57.5	77.4	78.4	122	2.4	14	●	2
MPS1-1330-PC		2	109.1	28.7	56.1	59.1	107	2.1	14	□	2
MPS1-1330-L8C		8	200.8	109.2	151.8	154.8	198	2.8	14	●	2
MPS1-1330-L10C		10	227.4	135.4	178.4	181.4	225	2.4	14	□	2
MPS1-1330-L12C		12	254.4	162.0	205.4	208.4	252	2.4	14	□	2
MPS1-1330-L15C		15	294.4	201.9	245.4	248.4	292	2.4	14	□	2
MPS1-1330-L20C		20	362.4	268.4	313.4	316.4	360	2.4	14	□	2
MPS1-1340S-DIN	13.4	3	107.4	40.3	60.4	61.4	105	2.4	14	□	4
MPS1-1340S-DIN-C		3	107.4	40.3	60.4	61.4	105	2.4	14	●	2
MPS1-1340L-DIN		5	124.4	57.3	77.4	78.4	122	2.4	14	□	4
MPS1-1340L-DIN-C		5	124.4	57.3	77.4	78.4	122	2.4	14	●	2
MPS1-1340-PC		2	109.1	28.9	56.1	59.1	107	2.1	14	□	2
MPS1-1340-L8C		8	200.8	110.0	151.8	154.8	198	2.8	14	●	2
MPS1-1340-L10C		10	227.4	136.4	178.4	181.4	225	2.4	14	□	2
MPS1-1340-L12C		12	254.4	163.2	205.4	208.4	252	2.4	14	□	2
MPS1-1340-L15C		15	294.4	203.4	245.4	248.4	292	2.4	14	□	2
MPS1-1340-L20C		20	362.4	270.4	313.4	316.4	360	2.4	14	□	2

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WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-1350S-DIN	13.5	3	107.5	40.2	60.5	61.5	105	2.5	14	□	4
MPS1-1350S-DIN-C		3	107.5	40.2	60.5	61.5	105	2.5	14	●	2
MPS1-1350L-DIN		5	124.5	57.2	77.5	78.5	122	2.5	14	□	4
MPS1-1350L-DIN-C		5	124.5	57.2	77.5	78.5	122	2.5	14	●	2
MPS1-1350-PC		2	109.1	29.1	56.1	59.1	107	2.1	14	●	2
MPS1-1350-L8C		8	200.8	110.8	151.8	154.8	198	2.8	14	●	2
MPS1-1350-L10C		10	227.5	137.5	178.5	181.5	225	2.5	14	□	2
MPS1-1350-L12C		12	254.5	164.5	205.5	208.5	252	2.5	14	●	2
MPS1-1350-L15C		15	294.5	205.0	245.5	248.5	292	2.5	14	□	2
MPS1-1350-L20C		20	362.5	272.5	313.5	316.5	360	2.5	14	□	2
MPS1-1360S-DIN	13.6	3	107.5	40.1	60.5	61.5	105	2.5	14	□	4
MPS1-1360S-DIN-C		3	107.5	40.1	60.5	61.5	105	2.5	14	●	2
MPS1-1360L-DIN		5	124.5	57.1	77.5	78.5	122	2.5	14	□	4
MPS1-1360L-DIN-C		5	124.5	57.1	77.5	78.5	122	2.5	14	●	2
MPS1-1360-PC		2	109.1	29.3	56.1	56.1	107	2.1	14	□	2
MPS1-1360-L8C		8	205.8	111.6	156.8	159.8	203	2.8	14	●	2
MPS1-1360-L10C		10	233.5	138.5	184.5	187.5	231	2.5	14	□	2
MPS1-1360-L12C		12	261.5	165.7	212.5	215.5	259	2.5	14	□	2
MPS1-1360-L15C		15	303.5	206.5	254.5	257.5	301	2.5	14	□	2
MPS1-1360-L20C		20	373.5	274.5	324.5	327.5	371	2.5	14	□	2
MPS1-1370S-DIN	13.7	3	107.5	39.9	60.5	61.5	105	2.5	14	□	4
MPS1-1370S-DIN-C		3	107.5	39.9	60.5	61.5	105	2.5	14	●	2
MPS1-1370L-DIN		5	124.5	56.9	77.5	78.5	122	2.5	14	□	4
MPS1-1370L-DIN-C		5	124.5	56.9	77.5	78.5	122	2.5	14	●	2
MPS1-1370-PC		2	109.2	29.6	56.2	56.2	107	2.2	14	□	2
MPS1-1370-L8C		8	205.8	112.4	156.8	159.8	203	2.8	14	●	2
MPS1-1370-L10C		10	233.5	139.5	184.5	187.5	231	2.5	14	□	2
MPS1-1370-L12C		12	261.5	166.9	212.5	215.5	259	2.5	14	□	2
MPS1-1370-L15C		15	303.5	208.0	254.5	257.5	301	2.5	14	□	2
MPS1-1370-L20C		20	373.5	276.5	324.5	327.5	371	2.5	14	□	2
MPS1-1380S-DIN	13.8	3	107.5	39.8	60.5	61.5	105	2.5	14	□	4
MPS1-1380S-DIN-C		3	107.5	39.8	60.5	61.5	105	2.5	14	●	2
MPS1-1380L-DIN		5	124.5	56.8	77.5	78.5	122	2.5	14	□	4
MPS1-1380L-DIN-C		5	124.5	56.8	77.5	78.5	122	2.5	14	●	2
MPS1-1380-PC		2	109.2	29.8	56.2	56.2	107	2.2	14	□	2
MPS1-1380-L8C		8	205.9	113.3	156.9	159.9	203	2.9	14	●	2
MPS1-1380-L10C		10	233.5	140.5	184.5	187.5	231	2.5	14	□	2
MPS1-1380-L12C		12	261.5	168.1	212.5	215.5	259	2.5	14	□	2
MPS1-1380-L15C		15	303.5	209.5	254.5	257.5	301	2.5	14	□	2
MPS1-1380-L20C		20	373.5	278.5	324.5	327.5	371	2.5	14	□	2

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MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-1390S-DIN	13.9	3	107.5	39.7	60.5	61.5	105	2.5	14	□	4
MPS1-1390S-DIN-C		3	107.5	39.7	60.5	61.5	105	2.5	14	●	2
MPS1-1390L-DIN		5	124.5	56.7	77.5	78.5	122	2.5	14	□	4
MPS1-1390L-DIN-C		5	124.5	56.7	77.5	78.5	122	2.5	14	●	2
MPS1-1390-PC		2	109.2	30.0	56.2	56.2	107	2.2	14	□	2
MPS1-1390-L8C		8	205.9	114.1	156.9	159.9	203	2.9	14	●	2
MPS1-1390-L10C		10	233.5	141.5	184.5	187.5	231	2.5	14	□	2
MPS1-1390-L12C		12	261.5	169.3	212.5	215.5	259	2.5	14	□	2
MPS1-1390-L15C		15	303.5	211.0	254.5	257.5	301	2.5	14	□	2
MPS1-1390-L20C		20	373.5	280.5	324.5	327.5	371	2.5	14	□	2
MPS1-1400S-DIN	14.0	3	107.5	39.5	60.5	61.5	105	2.5	14	□	4
MPS1-1400S-DIN-C		3	107.5	39.5	60.5	61.5	105	2.5	14	●	2
MPS1-1400L-DIN		5	124.5	56.5	77.5	78.5	122	2.5	14	□	4
MPS1-1400L-DIN-C		5	124.5	56.5	77.5	78.5	122	2.5	14	●	2
MPS1-1400-PC		2	109.2	30.2	56.2	56.2	107	2.2	14	●	2
MPS1-1400-L8C		8	205.9	114.9	156.9	159.9	203	2.9	14	●	2
MPS1-1400-L10C		10	233.5	142.5	184.5	187.5	231	2.5	14	□	2
MPS1-1400-L12C		12	261.5	170.5	212.5	215.5	259	2.5	14	●	2
MPS1-1400-L15C		15	303.5	212.5	254.5	257.5	301	2.5	14	●	2
MPS1-1400-L20C		20	373.5	282.5	324.5	327.5	371	2.5	14	●	2
MPS1-1420S-DIN	14.2	3	114.6	43.3	64.6	65.6	112	2.6	16	□	4
MPS1-1420S-DIN-C		3	114.6	43.3	64.6	65.6	112	2.6	16	●	2
MPS1-1420L-DIN		5	132.6	61.3	82.6	83.6	130	2.6	16	□	4
MPS1-1420L-DIN-C		5	132.6	61.3	82.6	83.6	130	2.6	16	●	2
MPS1-1450S-DIN	14.5	3	114.6	42.9	64.6	65.6	112	2.6	16	□	4
MPS1-1450S-DIN-C		3	114.6	42.9	64.6	65.6	112	2.6	16	●	2
MPS1-1450L-DIN		5	132.6	60.9	82.6	83.6	130	2.6	16	□	4
MPS1-1450L-DIN-C		5	132.6	60.9	82.6	83.6	130	2.6	16	●	2
MPS1-1500S-DIN	15.0	3	114.7	42.2	64.7	65.7	112	2.7	16	□	4
MPS1-1500S-DIN-C		3	114.7	42.2	64.7	65.7	112	2.7	16	●	2
MPS1-1500L-DIN		5	132.7	60.2	82.7	83.7	130	2.7	16	□	4
MPS1-1500L-DIN-C		5	132.7	60.2	82.7	83.7	130	2.7	16	●	2
MPS1-1550S-DIN	15.5	3	114.8	41.6	64.8	65.8	112	2.8	16	□	4
MPS1-1550S-DIN-C		3	114.8	41.6	64.8	65.8	112	2.8	16	●	2
MPS1-1550L-DIN		5	132.8	59.6	82.8	83.8	130	2.8	16	□	4
MPS1-1550L-DIN-C	5	132.8	59.6	82.8	83.8	130	2.8	16	●	2	
MPS1-1600S-DIN	16.0	3	114.9	40.9	64.9	65.9	112	2.9	16	□	4
MPS1-1600S-DIN-C		3	114.9	40.9	64.9	65.9	112	2.9	16	●	2
MPS1-1600L-DIN		5	132.9	58.9	82.9	83.9	130	2.9	16	□	4
MPS1-1600L-DIN-C		5	132.9	58.9	82.9	83.9	130	2.9	16	●	2
MPS1-1650S-DIN	16.5	3	123.0	48.3	73.0	74.0	120	3.0	18	□	4
MPS1-1650S-DIN-C		3	123.0	48.3	73.0	74.0	120	3.0	18	●	2
MPS1-1650L-DIN		5	143.0	68.3	93.0	94.0	140	3.0	18	□	4
MPS1-1650L-DIN-C		5	143.0	68.3	93.0	94.0	140	3.0	18	●	2
MPS1-1700S-DIN	17.0	3	123.1	47.6	73.1	74.1	120	3.1	18	□	4
MPS1-1700S-DIN-C		3	123.1	47.6	73.1	74.1	120	3.1	18	●	2
MPS1-1700L-DIN		5	143.1	67.6	93.1	94.1	140	3.1	18	□	4
MPS1-1700L-DIN-C		5	143.1	67.6	93.1	94.1	140	3.1	18	●	2

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● : Standard magazynowy.

★ : Na specjalne zamówienie z magazynu w Japonii.

□ : Produkcja wyłącznie na zamówienie

MPS1

WIERTŁO PEŁNOWĘGLIKOWE

Numer zamówieniowy	DC	(l/d)	OAL	LU	LCF	LH	LF	PL	DCON	DP1021	Typ
MPS1-1750S-DIN	17.5	3	123.2	46.9	73.2	74.2	120	3.2	18	□	4
MPS1-1750S-DIN-C		3	123.2	46.9	73.2	74.2	120	3.2	18	●	2
MPS1-1750L-DIN		5	143.2	66.9	93.2	94.2	140	3.2	18	□	4
MPS1-1750L-DIN-C		5	143.2	66.9	93.2	94.2	140	3.2	18	●	2
MPS1-1800S-DIN	18.0	3	123.3	46.3	73.3	74.3	120	3.3	18	□	4
MPS1-1800S-DIN-C		3	123.3	46.3	73.3	74.3	120	3.3	18	●	2
MPS1-1800L-DIN		5	143.3	66.3	93.3	94.3	140	3.3	18	□	4
MPS1-1800L-DIN-C		5	143.3	66.3	93.3	94.3	140	3.3	18	●	2
MPS1-1850S-DIN	18.5	3	131.4	51.6	79.4	80.4	128	3.4	20	□	4
MPS1-1850S-DIN-C		3	131.4	51.6	79.4	80.4	128	3.4	20	●	2
MPS1-1850L-DIN		5	153.4	73.6	101.4	102.4	150	3.4	20	□	4
MPS1-1850L-DIN-C		5	153.4	73.6	101.4	102.4	150	3.4	20	●	2
MPS1-1900S-DIN	19.0	3	131.5	51.0	79.5	80.5	128	3.5	20	□	4
MPS1-1900S-DIN-C		3	131.5	51.0	79.5	80.5	128	3.5	20	●	2
MPS1-1900L-DIN		5	153.5	73.0	101.5	102.5	150	3.5	20	□	4
MPS1-1900L-DIN-C		5	153.5	73.0	101.5	102.5	150	3.5	20	●	2
MPS1-1950S-DIN	19.5	3	131.5	50.3	79.5	80.5	128	3.5	20	□	4
MPS1-1950S-DIN-C		3	131.5	50.3	79.5	80.5	128	3.5	20	●	2
MPS1-1950L-DIN		5	153.5	72.3	101.5	102.5	150	3.5	20	□	4
MPS1-1950L-DIN-C		5	153.5	72.3	101.5	102.5	150	3.5	20	●	2
MPS1-2000S-DIN	20.0	3	131.6	49.6	79.6	80.6	128	3.6	20	□	4
MPS1-2000S-DIN-C		3	131.6	49.6	79.6	80.6	128	3.6	20	●	2
MPS1-2000L-DIN		5	153.6	71.6	101.6	102.6	150	3.6	20	□	4
MPS1-2000L-DIN-C		5	153.6	71.6	101.6	102.6	150	3.6	20	●	2

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MPS1

ZAŁECANE PARAMETRY SKRAWANIA

Material	Własności	DC	L x DC	Vc	f
Stal	<180HB	3	3-8	100 (60-150)	0.15 (0.10-0.20)
			10-25	90 (40-110)	0.17 (0.10-0.24)
			30-40	75 (40- 95)	0.14 (0.08-0.19)
		4	3-8	120 (70-170)	0.19 (0.12-0.25)
			10-25	90 (40-110)	0.20 (0.12-0.30)
			30-40	75 (40- 95)	0.16 (0.10-0.24)
		5	3-8	130 (80-190)	0.23 (0.15-0.30)
			10-25	90 (40-110)	0.25 (0.15-0.35)
			30-40	75 (40- 95)	0.20 (0.12-0.28)
		6	3-8	140 (90-210)	0.27 (0.18-0.35)
			10-25	110 (70-120)	0.27 (0.17-0.37)
			30-40	90 (40-110)	0.22 (0.14-0.30)
		8	3-8	160 (100-240)	0.30 (0.20-0.40)
			10-25	110 (70-120)	0.30 (0.20-0.40)
			30-40	90 (40-110)	0.24 (0.16-0.32)
		10	3-8	170 (100-250)	0.33 (0.20-0.45)
			10-25	110 (70-120)	0.32 (0.22-0.42)
			30-40	90 (40-110)	0.26 (0.18-0.34)
		12	3-8	180 (100-250)	0.35 (0.20-0.50)
			10-25	130 (90-150)	0.34 (0.24-0.44)
			30-40	105 (55-125)	0.27 (0.19-0.35)
		16	3-8	180 (100-250)	0.38 (0.20-0.55)
			10-25	130 (90-150)	0.36 (0.26-0.46)
		20	3-8	180 (100-250)	0.40 (0.20-0.60)
Stal węglowa, Stal stopowa	180-250HB	3	3-8	90 (60-140)	0.15 (0.10-0.19)
			10-25	90 (40-110)	0.17 (0.10-0.24)
			30-40	75 (40- 85)	0.14 (0.08-0.19)
		4	3-8	100 (70-160)	0.18 (0.12-0.24)
			10-25	90 (40-110)	0.20 (0.12-0.30)
			30-40	75 (40- 85)	0.16 (0.10-0.24)
		5	3-8	110 (80-180)	0.22 (0.15-0.29)
			10-25	90 (40-110)	0.25 (0.15-0.35)
			30-40	75 (40- 85)	0.20 (0.12-0.28)
		6	3-8	120 (90-190)	0.26 (0.18-0.33)
			10-25	100 (60-110)	0.24 (0.15-0.33)
			30-40	80 (40- 90)	0.22 (0.14-0.30)
		8	3-8	140 (100-220)	0.29 (0.20-0.38)
			10-25	100 (60-110)	0.30 (0.20-0.40)
			30-40	80 (40- 90)	0.24 (0.16-0.32)
		10	3-8	150 (100-230)	0.32 (0.20-0.43)
			10-25	100 (60-110)	0.32 (0.22-0.42)
			30-40	80 (40- 90)	0.26 (0.18-0.34)
		12	3-8	160 (100-230)	0.34 (0.20-0.48)
			10-25	120 (80-140)	0.34 (0.24-0.44)
			30-40	95 (55-105)	0.27 (0.19-0.35)
		16	3-8	160 (100-230)	0.36 (0.20-0.52)
			10-25	120 (80-140)	0.36 (0.26-0.46)
		20	3-8	160 (100-230)	0.39 (0.20-0.57)

MPS1

Materiał	Własności	DC	L x DC	Vc	f	
P	Stal węglowa, Stal stopowa	280-350 HB	3	3-8	80 (50-110)	0.12 (0.10-0.14)
				10-25	80 (40- 90)	0.15 (0.09-0.22)
				30-40	65 (40- 75)	0.15 (0.07-0.18)
			4	3-8	90 (60-120)	0.15 (0.12-0.18)
				10-25	80 (40- 90)	0.18 (0.11-0.27)
				30-40	65 (40- 75)	0.18 (0.09-0.22)
			5	3-8	90 (70-140)	0.19 (0.15-0.22)
				10-25	80 (40- 90)	0.22 (0.14-0.32)
				30-40	65 (40- 75)	0.22 (0.11-0.26)
			6	3-8	100 (80-150)	0.22 (0.18-0.25)
				10-25	90 (40-110)	0.24 (0.15-0.33)
				30-40	75 (40- 85)	0.24 (0.12-0.26)
			8	3-8	120 (90-170)	0.24 (0.20-0.27)
				10-25	90 (40-110)	0.27 (0.18-0.36)
				30-40	75 (40- 85)	0.27 (0.14-0.29)
			10	3-8	130 (90-180)	0.25 (0.20-0.30)
				10-25	90 (40-110)	0.29 (0.20-0.38)
				30-40	75 (40- 95)	0.29 (0.16-0.30)
			12	3-8	140 (90-180)	0.27 (0.20-0.34)
				10-25	100 (60-110)	0.30 (0.22-0.40)
30-40	80 (40-100)	0.30 (0.18-0.32)				
16	3-8	140 (90-180)	0.28 (0.20-0.36)			
	10-25	100 (60-110)	0.32 (0.23-0.41)			
20	3-8	140 (90-180)	0.30 (0.20-0.40)			
M	Stal nierdzewna		3	3-8	40 (20- 50)	0.08 (0.06-0.12)
				10-25	40 (20- 60)	0.07 (0.05-0.09)
				30-40	30 (20- 50)	0.06 (0.04-0.07)
			4	3-8	40 (30- 50)	0.09 (0.07-0.13)
				10-25	40 (20- 60)	0.08 (0.06-0.10)
				30-40	30 (20- 50)	0.06 (0.05-0.08)
			5	3-8	40 (30- 50)	0.11 (0.08-0.16)
				10-25	40 (20- 60)	0.10 (0.07-0.12)
				30-40	30 (20- 50)	0.08 (0.06-0.10)
			6	3-8	50 (40- 70)	0.14 (0.11-0.18)
				10-25	50 (20- 60)	0.12 (0.08-0.16)
				30-40	40 (20- 60)	0.10 (0.06-0.13)
			8	3-8	50 (40- 70)	0.15 (0.12-0.20)
				10-25	50 (20- 60)	0.14 (0.10-0.17)
				30-40	40 (20- 50)	0.11 (0.08-0.14)
			10	3-8	50 (40- 70)	0.16 (0.12-0.22)
				10-25	50 (20- 60)	0.15 (0.12-0.18)
				30-40	40 (20- 50)	0.12 (0.10-0.14)
			12	3-8	50 (40- 70)	0.18 (0.14-0.24)
				10-25	60 (25- 65)	0.17 (0.14-0.19)
30-40	50 (20- 60)	0.14 (0.11-0.15)				
16	3-8	50 (40- 70)	0.19 (0.15-0.26)			
	10-25	60 (25- 65)	0.17 (0.14-0.19)			
20	3-8	50 (40- 70)	0.21 (0.16-0.28)			

MPS1

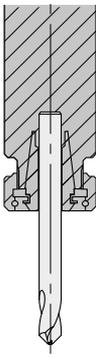
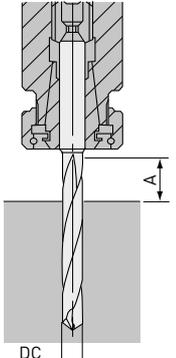
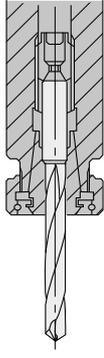
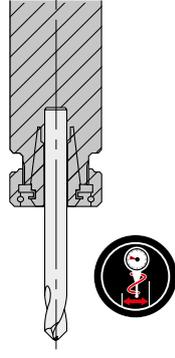
Materiał	Własności	DC	L x DC	Vc	f
K Żeliwo	≤ 350 MPa	3	3-8	90 (60-100)	0.15 (0.10-0.20)
			10-25	90 (40-110)	0.19 (0.11-0.26)
			30-40	75 (45- 95)	0.15 (0.09-0.21)
		4	3-8	100 (70-110)	0.21 (0.12-0.30)
			10-25	90 (40-110)	0.22 (0.13-0.33)
			30-40	75 (45- 95)	0.18 (0.10-0.26)
		5	3-8	110 (80-130)	0.25 (0.15-0.35)
			10-25	90 (40-110)	0.28 (0.17-0.39)
			30-40	75 (45- 95)	0.22 (0.13-0.31)
		6	3-8	120 (90-140)	0.29 (0.18-0.40)
			10-25	100 (60-110)	0.30 (0.19-0.41)
			30-40	90 (60-110)	0.24 (0.15-0.33)
		8	3-8	140 (100-160)	0.33 (0.20-0.45)
			10-25	100 (60-110)	0.33 (0.22-0.44)
			30-40	90 (60-100)	0.26 (0.18-0.35)
		10	3-8	150 (100-170)	0.35 (0.20-0.50)
			10-25	100 (60-110)	0.35 (0.24-0.46)
			30-40	90 (60-100)	0.28 (0.19-0.37)
		12	3-8	160 (100-170)	0.40 (0.20-0.60)
			10-25	120 (90-140)	0.37 (0.26-0.48)
			30-40	105 (65-115)	0.30 (0.21-0.38)
16	3-8	160 (100-170)	0.43 (0.20-0.65)		
	10-25	120 (90-140)	0.40 (0.29-0.48)		
20	3-8	160 (100-170)	0.45 (0.20-0.70)		
K Żeliwo sferoidalne	≤ 450 MPa	3	3-8	80 (50- 90)	0.12 (0.08-0.16)
			10-25	90 (40-110)	0.17 (0.10-0.24)
			30-40	30 (20- 50)	0.14 (0.08-0.19)
		4	3-8	90 (60-100)	0.17 (0.10-0.24)
			10-25	90 (40-110)	0.20 (0.12-0.30)
			30-40	30 (20- 50)	0.16 (0.10-0.24)
		5	3-8	90 (70-120)	0.21 (0.14-0.28)
			10-25	90 (40-110)	0.25 (0.15-0.35)
			30-40	30 (20- 50)	0.20 (0.12-0.28)
		6	3-8	100 (80-130)	0.25 (0.16-0.34)
			10-25	100 (60-110)	0.27 (0.17-0.37)
			30-40	40 (30- 60)	0.22 (0.14-0.30)
		8	3-8	120 (90-150)	0.28 (0.18-0.38)
			10-25	100 (60-110)	0.30 (0.20-0.40)
			30-40	40 (30- 60)	0.24 (0.16-0.32)
		10	3-8	130 (90-160)	0.29 (0.18-0.40)
			10-25	100 (60-110)	0.32 (0.22-0.42)
			30-40	40 (30- 60)	0.26 (0.18-0.34)
		12	3-8	140 (90-160)	0.31 (0.18-0.44)
			10-25	120 (90-140)	0.34 (0.24-0.44)
			30-40	50 (40- 70)	0.27 (0.19-0.35)
16	3-8	140 (90-160)	0.33 (0.18-0.48)		
	10-25	120 (90-140)	0.36 (0.26-0.46)		
20	3-8	140 (90-160)	0.35 (0.18-0.52)		

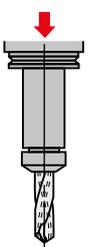
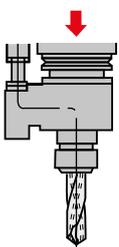
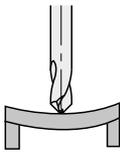
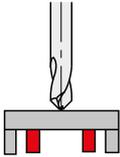
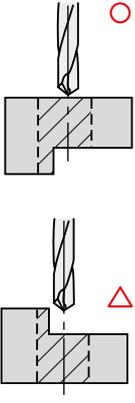
MPS1

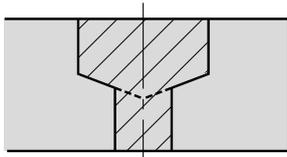
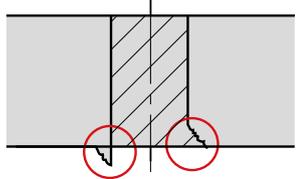
Materiał	Własności	DC	L x DC	Vc	f
K Żeliwo sferoidalne	≤ 800 MPa	3	3-8	60 (40- 80)	0.09 (0.06-0.12)
		4	3-8	70 (50- 90)	0.13 (0.08-0.18)
		5	3-8	70 (60-100)	0.17 (0.12-0.22)
		6	3-8	80 (70-110)	0.20 (0.14-0.26)
		8	3-8	100 (80-130)	0.23 (0.16-0.30)
		10	3-8	110 (80-140)	0.24 (0.16-0.32)
		12	3-8	110 (80-140)	0.25 (0.16-0.34)
		16	3-8	110 (80-140)	0.27 (0.16-0.38)
		20	3-8	110 (80-140)	0.28 (0.16-0.40)

MPS1

WSKAZÓWKI EKSPLOATACYJNE

TRZYMANIE WIERTŁA	DŁUGOŚĆ WIERTŁA	INSTALACJA WIERTŁA	TOLERANCJA INSTALACJI
 <p>Śruba regulacyjna</p>			
Uchwyt wiertarski z tuleją samozaciskową i łożyskiem oporowym trzyma wiertło bezpiecznie.	$A \geq DC \times 1.5$	Nie zaciskać na rowkach.	Bicie ≤ 0.03 mm

CHŁODZENIE WEWNĘTRZNE	EKSPLOATACJA CHŁODZIWA	CIENKI ELEMENT OBRABIANY	OBRÓBKA PRZERYWANA
<p>Przelotowe doprowadzanie chłodziwa.</p>  <p>Obrotowe doprowadzanie chłodziwa</p>  <p>Ciśnienie doprowadzania chłodziwa wynosi około 0.5–1MPa (<math>\leq \phi 5: 2-3\text{MPa}</math>).</p>	<p>Małe cząstki opiłków będą zatykały kanał doprowadzenia chłodziwa wiertła o małej średnicy. Profilaktycznie należy zawsze używać filtra z drobnej siateczki.</p> <p>Cząstki brudu i kurzu łączą się z olejem w używanym chłodziwie i uniemożliwiają jego skuteczny przepływ. Zalecana jest regularna wymiana chłodziwa.</p>	<p>W przypadku ugięcia</p>  <p>Należy podeprzeć obrabiany element</p> 	<p>Jeden proces</p> <p>1. Należy obniżyć posuw w czasie wiercenia przerywanego.</p> <p>Wymagana jest obróbka wstępna</p> <p>1. Przed wierceniem należy obrobić powierzchnię czotową za pomocą freza palcowego.</p> 

OTWORY STOPNIOWANE	ZADZIORY I WYKRUSZANIE OBRABIANEGO ELEMENTU
 <p>Podzielić proces na dwa zabiegi. Najpierw wywiercić otwór o większej średnicy. Na zamówienie może być wyprodukowane narzędzie do fazki i powierzchni czotowej.</p>	 <p>Należy zmniejszyć posuw o 50% na wyjściu otworu. Wykonać fazkę 45°. Zmienić kąt tego punktu.</p>

MPS1

WIERCENIE ZA POMOCĄ WIERTEŁ DŁUGICH

WIERCENIE OTWORU NIEPRZELOTOWEGO

1. Wiercenie otworu pilotowego



Do otworu pilotowego użyć wiertła Mitsubishi typu MPS1 (PC). Zapewnić wykonanie wysokodokładnego otworu pilotowego, aby proces wiercenia głębokich otworów przebiegał bezusterkowo. Głębokość wiercenia otworu pilotowego: ok. 1 x DC albo większa. (Głębokość otworu pilotowego dostosować do długości wiertła.)

2. Wiercenie wstępne wiertłem długim



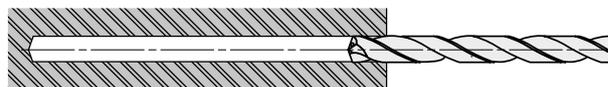
Wiercić wstępnie otwór pilotowy przy małych obrotach. (prędkość skrawania 20–30 m/min, posuw 0.2–0.3 mm/obr) Zakończyć wiercenie wiertłem do głębokich otworów na 1–3 mm przed dnem otworu pilotowego.

3. Wiercić głęboki otwór



Zwiększyć obroty i posuw w jednym cyklu i wiercić, aż do uzyskania żądanej głębokości otworu.

4. Wycofanie wiertła



Po wierceniu zmniejszyć obroty na 1–2 mm przed końcem otworu. (prędkość skrawania ok. 20–30 m/min) Wycofać wiertło na głębokość początkową otworu pilotowego przy prędkości posuwu 3000 mm/min. Wycofać wiertło z otworu pilotowego przy obrotach ($n = 300$, $V_f = 3000$ mm/min.)

WIERCENIE OTWORÓW W PŁASZCZYZNACH NIEREGULARNYCH LUB POD KĄTEM

1. Frezowanie płaszczyzn



Obrabiać płaską lub nieregularną powierzchnię frezem palcowym lub frezem do rowków wpustowych o tej samej średnicy, jak wymagana średnica otworu.

2. Wiercenie otworu pilotowego



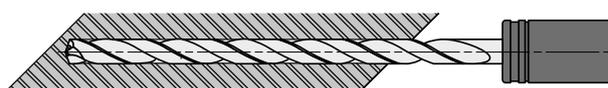
Do otworu pilotowego użyć wiertła Mitsubishi typu MPS1 (PC). Zapewnić wykonanie wysokodokładnego otworu pilotowego, aby proces wiercenia głębokich otworów przebiegał bezusterkowo. Głębokość wiercenia otworu pilotowego: ok. 1 x DC albo większa. (Głębokość otworu pilotowego dostosować do długości wiertła.)

3. Wiercenie wstępne wiertłem długim



Wiercić wstępnie otwór pilotowy przy małych obrotach. (prędkość skrawania 20–30 m/min, posuw 0.2–0.3 mm/obr) Zakończyć wiercenie wiertłem do głębokich otworów na 1–3 mm przed dnem otworu pilotowego.

4. Wiercić głęboki otwór



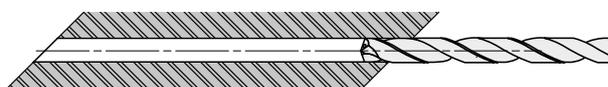
Zwiększyć obroty i posuw w jednym cyklu i wiercić, aż do uzyskania żądanej głębokości otworu. Utrzymywać posuw roboczy aż do momentu wyjścia z materiału.

5. Wyjście z materiału



Podczas wychodzenia z materiału istnieje niebezpieczeństwo uszkodzenia krawędzi skrawającej wiertła. Zaleca się zmniejszenie posuwu do 0.05–0.1 mm/obr.

6. Wycofanie wiertła



Wycofać wiertło do punktu początkowego otworu pilotowego przy prędkości posuwu 3000 mm/min. Wykończyć otwór przy prędkości skrawania 20–30 m/min i posuwie 0.2–0.3 mm/obr.

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