

DRILLS SELECTION CHART HSS

Drill Type	Applications	Product Code (Series Title)	Size Range	Tool Material	Coolant	Coating	Work Material						Shape	Page
							P	M	K	N	S	H		
							Steel	Stainless Steel	Cast Iron	Non-ferrous Metal	Heat Resistant Alloy	Hardened Steel		
Violet Coated Drills	General, High Precision	VAPDS	φ0.5 -φ13.0	High Grade, High Speed Steel	External		○	○	○				P144	
		VAPDM	φ0.5 -φ32.0		External		○	○	○				P149	
		NEW VAPDJ	φ1.0 -φ10.0		External		○	○	○				P153	
	General, High Precision Steel	VAPDSSUS	φ0.5 -φ20.0	Cobalt High Speed Steel	External		○	◎	○	○	○			P155
		VAPDMSUS	φ0.5 -φ13.0		External		○	◎	○	○	○			P161
	Spot Milling	VAPDSCB	φ2.0 -φ32.0	High Grade, High Speed Steel	External		○	○	○	○				P168
Violet Drill	General Drilling	VSD	φ0.5 -φ13.0	High Speed Steel	External		○	○	○	○			P170	
		VTDS	φ6.0 -φ32.0		External		○	◎		○			P172	
SE High Precision Drill	General Drilling	SEPDS	φ0.5 -φ4.0	High Speed Steel	External	-	◎	○	◎	○			P140	
		SEPDM	φ0.5 -φ4.0		External	-	◎	○	◎	○			P142	
Straight Shank Drill	General Drilling	GSD	φ0.5 -φ13.0	High Speed Steel	External		○	○	○	○			P174	
		SD	φ0.2 -φ17.5		External	-	◎	○	○	○			P176	
		SD (1/100 Straight)	φ0.25 -φ5.95		External	-	◎	○	○	○			P178	
	General, Long Shank	SDLS	φ1.0 -φ10.0	High Speed Steel	External	-	◎	○	○	○			P179	
	General Drilling	KSD	φ1.0 -φ13.0	Cobalt High Speed Steel	External	-	◎	◎	○	○			P182	

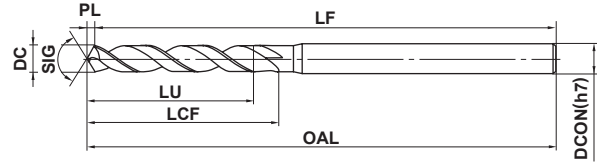
VAPDMSUS

Medium, High precision, For stainless steel



HSS

P	M	K	N	S	H
Steel	Stainless Steel	Cast Iron	Non-ferrous Metal	Heat Resistant Alloy	



*LU = LCF-2DC (Max 5×DC)

0.5≤DC≤3	3<DC≤6	6<DC≤10	10<DC≤13
⁰ / _{-0.014}	⁰ / _{-0.018}	⁰ / _{-0.022}	⁰ / _{-0.027}

*All drills except those with intervals of 0.1mm and under dia. 4.0mm have a tolerance of 0—0.009mm.

- Violet coating combination enable high efficiency drilling and long tool life for drilling of stainless steels.

Order Number	Dimensions (mm)						Stock
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0050	0.50	6.2	50.2	50	0.15	3	●
VAPDMSUSD0051	0.51	6.2	50.2	50	0.15	3	●
VAPDMSUSD0052	0.52	6.2	50.2	50	0.16	3	●
VAPDMSUSD0053	0.53	6.2	50.2	50	0.16	3	●
VAPDMSUSD0054	0.54	6.2	50.2	50	0.16	3	●
VAPDMSUSD0055	0.55	6.2	50.2	50	0.17	3	●
VAPDMSUSD0056	0.56	8.2	50.2	50	0.17	3	●
VAPDMSUSD0057	0.57	8.2	50.2	50	0.17	3	●
VAPDMSUSD0058	0.58	8.2	50.2	50	0.17	3	●
VAPDMSUSD0059	0.59	8.2	50.2	50	0.18	3	●
VAPDMSUSD0060	0.60	8.2	50.2	50	0.18	3	●
VAPDMSUSD0061	0.61	8.2	50.2	50	0.18	3	●
VAPDMSUSD0062	0.62	8.2	50.2	50	0.19	3	●
VAPDMSUSD0063	0.63	8.2	50.2	50	0.19	3	●
VAPDMSUSD0064	0.64	8.2	50.2	50	0.19	3	●
VAPDMSUSD0065	0.65	8.2	50.2	50	0.20	3	●
VAPDMSUSD0066	0.66	8.2	50.2	50	0.20	3	●
VAPDMSUSD0067	0.67	8.2	50.2	50	0.20	3	●
VAPDMSUSD0068	0.68	8.2	50.2	50	0.20	3	●
VAPDMSUSD0069	0.69	8.2	50.2	50	0.21	3	●
VAPDMSUSD0070	0.70	10.2	50.2	50	0.21	3	●
VAPDMSUSD0071	0.71	10.2	50.2	50	0.21	3	●
VAPDMSUSD0072	0.72	10.2	50.2	50	0.22	3	●
VAPDMSUSD0073	0.73	10.2	50.2	50	0.22	3	●
VAPDMSUSD0074	0.74	10.2	50.2	50	0.22	3	●
VAPDMSUSD0075	0.75	10.2	50.2	50	0.23	3	●
VAPDMSUSD0076	0.76	10.2	50.2	50	0.23	3	●
VAPDMSUSD0077	0.77	10.2	50.2	50	0.23	3	●
VAPDMSUSD0078	0.78	10.2	50.2	50	0.23	3	●
VAPDMSUSD0079	0.79	10.2	50.2	50	0.24	3	●
VAPDMSUSD0080	0.80	10.2	50.2	50	0.24	3	●
VAPDMSUSD0081	0.81	10.2	50.2	50	0.24	3	●

Order Number	Dimensions (mm)						Stock
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0082	0.82	10.3	50.3	50	0.25	3	●
VAPDMSUSD0083	0.83	10.3	50.3	50	0.25	3	●
VAPDMSUSD0084	0.84	10.3	50.3	50	0.25	3	●
VAPDMSUSD0085	0.85	10.3	50.3	50	0.26	3	●
VAPDMSUSD0086	0.86	12.3	50.3	50	0.26	3	●
VAPDMSUSD0087	0.87	12.3	50.3	50	0.26	3	●
VAPDMSUSD0088	0.88	12.3	50.3	50	0.26	3	●
VAPDMSUSD0089	0.89	12.3	50.3	50	0.27	3	●
VAPDMSUSD0090	0.90	12.3	50.3	50	0.27	3	●
VAPDMSUSD0091	0.91	12.3	50.3	50	0.27	3	●
VAPDMSUSD0092	0.92	12.3	50.3	50	0.28	3	●
VAPDMSUSD0093	0.93	12.3	50.3	50	0.28	3	●
VAPDMSUSD0094	0.94	12.3	50.3	50	0.28	3	●
VAPDMSUSD0095	0.95	12.3	50.3	50	0.29	3	●
VAPDMSUSD0096	0.96	12.3	50.3	50	0.29	3	●
VAPDMSUSD0097	0.97	12.3	50.3	50	0.29	3	●
VAPDMSUSD0098	0.98	12.3	50.3	50	0.29	3	●
VAPDMSUSD0099	0.99	12.3	50.3	50	0.3	3	●
VAPDMSUSD0100	1.00	12.3	60.3	60	0.3	3	●
VAPDMSUSD0101	1.01	12.3	60.3	60	0.3	3	●
VAPDMSUSD0102	1.02	12.3	60.3	60	0.3	3	●
VAPDMSUSD0103	1.03	12.3	60.3	60	0.3	3	●
VAPDMSUSD0104	1.04	12.3	60.3	60	0.3	3	●
VAPDMSUSD0105	1.05	12.3	60.3	60	0.3	3	●
VAPDMSUSD0106	1.06	12.3	60.3	60	0.3	3	●
VAPDMSUSD0107	1.07	16.3	60.3	60	0.3	3	●
VAPDMSUSD0108	1.08	16.3	60.3	60	0.3	3	●
VAPDMSUSD0109	1.09	16.3	60.3	60	0.3	3	●
VAPDMSUSD0110	1.10	16.3	60.3	60	0.3	3	●
VAPDMSUSD0111	1.11	16.3	60.3	60	0.3	3	●
VAPDMSUSD0112	1.12	16.3	60.3	60	0.3	3	●
VAPDMSUSD0113	1.13	16.3	60.3	60	0.3	3	●

DRILLING P

VIOLET DRILLS

VAPDMSUS

Medium, High precision, For stainless steel

HSS

Order Number	Dimensions (mm)						Stock
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0114	1.14	16.3	60.3	60	0.3	3	●
VAPDMSUSD0115	1.15	16.4	60.4	60	0.4	3	●
VAPDMSUSD0116	1.16	16.4	60.4	60	0.4	3	●
VAPDMSUSD0117	1.17	16.4	60.4	60	0.4	3	●
VAPDMSUSD0118	1.18	16.4	60.4	60	0.4	3	●
VAPDMSUSD0119	1.19	16.4	60.4	60	0.4	3	●
VAPDMSUSD0120	1.20	16.4	60.4	60	0.4	3	●
VAPDMSUSD0121	1.21	16.4	60.4	60	0.4	3	●
VAPDMSUSD0122	1.22	16.4	60.4	60	0.4	3	●
VAPDMSUSD0123	1.23	16.4	60.4	60	0.4	3	●
VAPDMSUSD0124	1.24	16.4	60.4	60	0.4	3	●
VAPDMSUSD0125	1.25	16.4	60.4	60	0.4	3	●
VAPDMSUSD0126	1.26	16.4	60.4	60	0.4	3	●
VAPDMSUSD0127	1.27	16.4	60.4	60	0.4	3	●
VAPDMSUSD0128	1.28	16.4	60.4	60	0.4	3	●
VAPDMSUSD0129	1.29	16.4	60.4	60	0.4	3	●
VAPDMSUSD0130	1.30	16.4	60.4	60	0.4	3	●
VAPDMSUSD0131	1.31	18.4	60.4	60	0.4	3	●
VAPDMSUSD0132	1.32	18.4	60.4	60	0.4	3	●
VAPDMSUSD0133	1.33	18.4	60.4	60	0.4	3	●
VAPDMSUSD0134	1.34	18.4	60.4	60	0.4	3	●
VAPDMSUSD0135	1.35	18.4	60.4	60	0.4	3	●
VAPDMSUSD0136	1.36	18.4	60.4	60	0.4	3	●
VAPDMSUSD0137	1.37	18.4	60.4	60	0.4	3	●
VAPDMSUSD0138	1.38	18.4	60.4	60	0.4	3	●
VAPDMSUSD0139	1.39	18.4	60.4	60	0.4	3	●
VAPDMSUSD0140	1.40	18.4	60.4	60	0.4	3	●
VAPDMSUSD0141	1.41	18.4	60.4	60	0.4	3	●
VAPDMSUSD0142	1.42	18.4	60.4	60	0.4	3	●
VAPDMSUSD0143	1.43	18.4	60.4	60	0.4	3	●
VAPDMSUSD0144	1.44	18.4	60.4	60	0.4	3	●
VAPDMSUSD0145	1.45	18.4	60.4	60	0.4	3	●
VAPDMSUSD0146	1.46	18.4	60.4	60	0.4	3	●
VAPDMSUSD0147	1.47	18.4	60.4	60	0.4	3	●
VAPDMSUSD0148	1.48	18.4	60.4	60	0.4	3	●
VAPDMSUSD0149	1.49	18.5	60.5	60	0.5	3	●
VAPDMSUSD0150	1.50	18.5	60.5	60	0.5	3	●
VAPDMSUSD0151	1.51	20.5	60.5	60	0.5	3	●
VAPDMSUSD0152	1.52	20.5	60.5	60	0.5	3	●
VAPDMSUSD0153	1.53	20.5	60.5	60	0.5	3	●
VAPDMSUSD0154	1.54	20.5	60.5	60	0.5	3	●
VAPDMSUSD0155	1.55	20.5	60.5	60	0.5	3	●
VAPDMSUSD0156	1.56	20.5	60.5	60	0.5	3	●
VAPDMSUSD0157	1.57	20.5	60.5	60	0.5	3	●
VAPDMSUSD0158	1.58	20.5	60.5	60	0.5	3	●
VAPDMSUSD0159	1.59	20.5	60.5	60	0.5	3	●
VAPDMSUSD0160	1.60	20.5	60.5	60	0.5	3	●
VAPDMSUSD0161	1.61	20.5	60.5	60	0.5	3	●

Order Number	Dimensions (mm)						Stock
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0162	1.62	20.5	60.5	60	0.5	3	●
VAPDMSUSD0163	1.63	20.5	60.5	60	0.5	3	●
VAPDMSUSD0164	1.64	20.5	60.5	60	0.5	3	●
VAPDMSUSD0165	1.65	20.5	60.5	60	0.5	3	●
VAPDMSUSD0166	1.66	20.5	60.5	60	0.5	3	●
VAPDMSUSD0167	1.67	20.5	60.5	60	0.5	3	●
VAPDMSUSD0168	1.68	20.5	60.5	60	0.5	3	●
VAPDMSUSD0169	1.69	20.5	60.5	60	0.5	3	●
VAPDMSUSD0170	1.70	20.5	60.5	60	0.5	3	●
VAPDMSUSD0171	1.71	20.5	60.5	60	0.5	3	●
VAPDMSUSD0172	1.72	20.5	60.5	60	0.5	3	●
VAPDMSUSD0173	1.73	20.5	60.5	60	0.5	3	●
VAPDMSUSD0174	1.74	20.5	60.5	60	0.5	3	●
VAPDMSUSD0175	1.75	20.5	60.5	60	0.5	3	●
VAPDMSUSD0176	1.76	20.5	60.5	60	0.5	3	●
VAPDMSUSD0177	1.77	20.5	60.5	60	0.5	3	●
VAPDMSUSD0178	1.78	20.5	60.5	60	0.5	3	●
VAPDMSUSD0179	1.79	20.5	60.5	60	0.5	3	●
VAPDMSUSD0180	1.80	22.5	60.5	60	0.5	3	●
VAPDMSUSD0181	1.81	22.5	60.5	60	0.5	3	●
VAPDMSUSD0182	1.82	22.6	60.6	60	0.6	3	●
VAPDMSUSD0183	1.83	22.6	60.6	60	0.6	3	●
VAPDMSUSD0184	1.84	22.6	60.6	60	0.6	3	●
VAPDMSUSD0185	1.85	22.6	60.6	60	0.6	3	●
VAPDMSUSD0186	1.86	22.6	60.6	60	0.6	3	●
VAPDMSUSD0187	1.87	22.6	60.6	60	0.6	3	●
VAPDMSUSD0188	1.88	22.6	60.6	60	0.6	3	●
VAPDMSUSD0189	1.89	22.6	60.6	60	0.6	3	●
VAPDMSUSD0190	1.90	22.6	60.6	60	0.6	3	●
VAPDMSUSD0191	1.91	23.6	60.6	60	0.6	3	●
VAPDMSUSD0192	1.92	23.6	60.6	60	0.6	3	●
VAPDMSUSD0193	1.93	23.6	60.6	60	0.6	3	●
VAPDMSUSD0194	1.94	23.6	60.6	60	0.6	3	●
VAPDMSUSD0195	1.95	23.6	60.6	60	0.6	3	●
VAPDMSUSD0196	1.96	23.6	60.6	60	0.6	3	●
VAPDMSUSD0197	1.97	23.6	60.6	60	0.6	3	●
VAPDMSUSD0198	1.98	23.6	60.6	60	0.6	3	●
VAPDMSUSD0199	1.99	23.6	60.6	60	0.6	3	●
VAPDMSUSD0200	2.00	23.6	70.6	70	0.6	3	●
VAPDMSUSD0201	2.01	23.6	70.6	70	0.6	3	●
VAPDMSUSD0202	2.02	23.6	70.6	70	0.6	3	●
VAPDMSUSD0203	2.03	23.6	70.6	70	0.6	3	●
VAPDMSUSD0204	2.04	23.6	70.6	70	0.6	3	●
VAPDMSUSD0205	2.05	23.6	70.6	70	0.6	3	●
VAPDMSUSD0206	2.06	23.6	70.6	70	0.6	3	●
VAPDMSUSD0207	2.07	23.6	70.6	70	0.6	3	●
VAPDMSUSD0208	2.08	23.6	70.6	70	0.6	3	●
VAPDMSUSD0209	2.09	23.6	70.6	70	0.6	3	●

● : Inventory maintained in Japan.

P

DRILLING

Order Number	Dimensions (mm)						Stock
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0210	2.10	23.6	70.6	70	0.6	3	●
VAPDMSUSD0211	2.11	23.6	70.6	70	0.6	3	●
VAPDMSUSD0212	2.12	23.6	70.6	70	0.6	3	●
VAPDMSUSD0213	2.13	23.6	70.6	70	0.6	3	●
VAPDMSUSD0214	2.14	23.6	70.6	70	0.6	3	●
VAPDMSUSD0215	2.15	23.7	70.7	70	0.7	3	●
VAPDMSUSD0216	2.16	23.7	70.7	70	0.7	3	●
VAPDMSUSD0217	2.17	23.7	70.7	70	0.7	3	●
VAPDMSUSD0218	2.18	23.7	70.7	70	0.7	3	●
VAPDMSUSD0219	2.19	23.7	70.7	70	0.7	3	●
VAPDMSUSD0220	2.20	26.7	70.7	70	0.7	3	●
VAPDMSUSD0221	2.21	26.7	70.7	70	0.7	3	●
VAPDMSUSD0222	2.22	26.7	70.7	70	0.7	3	●
VAPDMSUSD0223	2.23	26.7	70.7	70	0.7	3	●
VAPDMSUSD0224	2.24	26.7	70.7	70	0.7	3	●
VAPDMSUSD0225	2.25	26.7	70.7	70	0.7	3	●
VAPDMSUSD0226	2.26	26.7	70.7	70	0.7	3	●
VAPDMSUSD0227	2.27	26.7	70.7	70	0.7	3	●
VAPDMSUSD0228	2.28	26.7	70.7	70	0.7	3	●
VAPDMSUSD0229	2.29	26.7	70.7	70	0.7	3	●
VAPDMSUSD0230	2.30	26.7	70.7	70	0.7	3	●
VAPDMSUSD0231	2.31	26.7	70.7	70	0.7	3	●
VAPDMSUSD0232	2.32	26.7	70.7	70	0.7	3	●
VAPDMSUSD0233	2.33	26.7	70.7	70	0.7	3	●
VAPDMSUSD0234	2.34	26.7	70.7	70	0.7	3	●
VAPDMSUSD0235	2.35	26.7	70.7	70	0.7	3	●
VAPDMSUSD0236	2.36	26.7	70.7	70	0.7	3	●
VAPDMSUSD0237	2.37	26.7	70.7	70	0.7	3	●
VAPDMSUSD0238	2.38	26.7	70.7	70	0.7	3	●
VAPDMSUSD0239	2.39	26.7	70.7	70	0.7	3	●
VAPDMSUSD0240	2.40	29.7	70.7	70	0.7	3	●
VAPDMSUSD0241	2.41	29.7	70.7	70	0.7	3	●
VAPDMSUSD0242	2.42	29.7	70.7	70	0.7	3	●
VAPDMSUSD0243	2.43	29.7	70.7	70	0.7	3	●
VAPDMSUSD0244	2.44	29.7	70.7	70	0.7	3	●
VAPDMSUSD0245	2.45	29.7	70.7	70	0.7	3	●
VAPDMSUSD0246	2.46	29.7	70.7	70	0.7	3	●
VAPDMSUSD0247	2.47	29.7	70.7	70	0.7	3	●
VAPDMSUSD0248	2.48	29.8	70.8	70	0.8	3	●
VAPDMSUSD0249	2.49	29.8	70.8	70	0.8	3	●
VAPDMSUSD0250	2.50	29.8	70.8	70	0.8	3	●
VAPDMSUSD0251	2.51	29.8	70.8	70	0.8	3	●
VAPDMSUSD0252	2.52	29.8	70.8	70	0.8	3	●
VAPDMSUSD0253	2.53	29.8	70.8	70	0.8	3	●
VAPDMSUSD0254	2.54	29.8	70.8	70	0.8	3	●
VAPDMSUSD0255	2.55	29.8	70.8	70	0.8	3	●
VAPDMSUSD0256	2.56	29.8	70.8	70	0.8	3	●
VAPDMSUSD0257	2.57	29.8	70.8	70	0.8	3	●

Order Number	Dimensions (mm)						Stock
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0258	2.58	29.8	70.8	70	0.8	3	●
VAPDMSUSD0259	2.59	29.8	70.8	70	0.8	3	●
VAPDMSUSD0260	2.60	29.8	70.8	70	0.8	3	●
VAPDMSUSD0261	2.61	29.8	70.8	70	0.8	3	●
VAPDMSUSD0262	2.62	29.8	70.8	70	0.8	3	●
VAPDMSUSD0263	2.63	29.8	70.8	70	0.8	3	●
VAPDMSUSD0264	2.64	29.8	70.8	70	0.8	3	●
VAPDMSUSD0265	2.65	29.8	70.8	70	0.8	3	●
VAPDMSUSD0266	2.66	29.8	70.8	70	0.8	3	●
VAPDMSUSD0267	2.67	29.8	70.8	70	0.8	3	●
VAPDMSUSD0268	2.68	29.8	70.8	70	0.8	3	●
VAPDMSUSD0269	2.69	29.8	70.8	70	0.8	3	●
VAPDMSUSD0270	2.70	32.8	70.8	70	0.8	3	●
VAPDMSUSD0271	2.71	32.8	70.8	70	0.8	3	●
VAPDMSUSD0272	2.72	32.8	70.8	70	0.8	3	●
VAPDMSUSD0273	2.73	32.8	70.8	70	0.8	3	●
VAPDMSUSD0274	2.74	32.8	70.8	70	0.8	3	●
VAPDMSUSD0275	2.75	32.8	70.8	70	0.8	3	●
VAPDMSUSD0276	2.76	32.8	70.8	70	0.8	3	●
VAPDMSUSD0277	2.77	32.8	70.8	70	0.8	3	●
VAPDMSUSD0278	2.78	32.8	70.8	70	0.8	3	●
VAPDMSUSD0279	2.79	32.8	70.8	70	0.8	3	●
VAPDMSUSD0280	2.80	32.8	70.8	70	0.8	3	●
VAPDMSUSD0281	2.81	32.8	70.8	70	0.8	3	●
VAPDMSUSD0282	2.82	32.9	70.9	70	0.9	3	●
VAPDMSUSD0283	2.83	32.9	70.9	70	0.9	3	●
VAPDMSUSD0284	2.84	32.9	70.9	70	0.9	3	●
VAPDMSUSD0285	2.85	32.9	70.9	70	0.9	3	●
VAPDMSUSD0286	2.86	32.9	70.9	70	0.9	3	●
VAPDMSUSD0287	2.87	32.9	70.9	70	0.9	3	●
VAPDMSUSD0288	2.88	32.9	70.9	70	0.9	3	●
VAPDMSUSD0289	2.89	32.9	70.9	70	0.9	3	●
VAPDMSUSD0290	2.90	32.9	70.9	70	0.9	3	●
VAPDMSUSD0291	2.91	32.9	70.9	70	0.9	3	●
VAPDMSUSD0292	2.92	32.9	70.9	70	0.9	3	●
VAPDMSUSD0293	2.93	32.9	70.9	70	0.9	3	●
VAPDMSUSD0294	2.94	32.9	70.9	70	0.9	3	●
VAPDMSUSD0295	2.95	32.9	70.9	70	0.9	3	●
VAPDMSUSD0296	2.96	32.9	70.9	70	0.9	3	●
VAPDMSUSD0297	2.97	32.9	70.9	70	0.9	3	●
VAPDMSUSD0298	2.98	32.9	70.9	70	0.9	3	●
VAPDMSUSD0299	2.99	32.9	70.9	70	0.9	3	●
VAPDMSUSD0300	3.00	32.9	70.9	70	0.9	3	●
VAPDMSUSD0301	3.01	35.9	85.9	85	0.9	4	●
VAPDMSUSD0302	3.02	35.9	85.9	85	0.9	4	●
VAPDMSUSD0303	3.03	35.9	85.9	85	0.9	4	●
VAPDMSUSD0304	3.04	35.9	85.9	85	0.9	4	●
VAPDMSUSD0305	3.05	35.9	85.9	85	0.9	4	●

P

DRILLING

VIOLET DRILLS

VAPDMSUS

Medium, High precision, For stainless steel

HSS

Order Number	Dimensions (mm)						Stock
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0306	3.06	35.9	85.9	85	0.9	4	●
VAPDMSUSD0307	3.07	35.9	85.9	85	0.9	4	●
VAPDMSUSD0308	3.08	35.9	85.9	85	0.9	4	●
VAPDMSUSD0309	3.09	35.9	85.9	85	0.9	4	●
VAPDMSUSD0310	3.10	35.9	85.9	85	0.9	4	●
VAPDMSUSD0311	3.11	35.9	85.9	85	0.9	4	●
VAPDMSUSD0312	3.12	35.9	85.9	85	0.9	4	●
VAPDMSUSD0313	3.13	35.9	85.9	85	0.9	4	●
VAPDMSUSD0314	3.14	35.9	85.9	85	0.9	4	●
VAPDMSUSD0315	3.15	36.0	86.0	85	1.0	4	●
VAPDMSUSD0316	3.16	36.0	86.0	85	1.0	4	●
VAPDMSUSD0317	3.17	36.0	86.0	85	1.0	4	●
VAPDMSUSD0318	3.18	36.0	86.0	85	1.0	4	●
VAPDMSUSD0319	3.19	36.0	86.0	85	1.0	4	●
VAPDMSUSD0320	3.20	36.0	86.0	85	1.0	4	●
VAPDMSUSD0321	3.21	36.0	86.0	85	1.0	4	●
VAPDMSUSD0322	3.22	36.0	86.0	85	1.0	4	●
VAPDMSUSD0323	3.23	36.0	86.0	85	1.0	4	●
VAPDMSUSD0324	3.24	36.0	86.0	85	1.0	4	●
VAPDMSUSD0325	3.25	36.0	86.0	85	1.0	4	●
VAPDMSUSD0326	3.26	36.0	86.0	85	1.0	4	●
VAPDMSUSD0327	3.27	36.0	86.0	85	1.0	4	●
VAPDMSUSD0328	3.28	36.0	86.0	85	1.0	4	●
VAPDMSUSD0329	3.29	36.0	86.0	85	1.0	4	●
VAPDMSUSD0330	3.30	36.0	86.0	85	1.0	4	●
VAPDMSUSD0331	3.31	39.0	86.0	85	1.0	4	●
VAPDMSUSD0332	3.32	39.0	86.0	85	1.0	4	●
VAPDMSUSD0333	3.33	39.0	86.0	85	1.0	4	●
VAPDMSUSD0334	3.34	39.0	86.0	85	1.0	4	●
VAPDMSUSD0335	3.35	39.0	86.0	85	1.0	4	●
VAPDMSUSD0336	3.36	39.0	86.0	85	1.0	4	●
VAPDMSUSD0337	3.37	39.0	86.0	85	1.0	4	●
VAPDMSUSD0338	3.38	39.0	86.0	85	1.0	4	●
VAPDMSUSD0339	3.39	39.0	86.0	85	1.0	4	●
VAPDMSUSD0340	3.40	39.0	86.0	85	1.0	4	●
VAPDMSUSD0341	3.41	39.0	86.0	85	1.0	4	●
VAPDMSUSD0342	3.42	39.0	86.0	85	1.0	4	●
VAPDMSUSD0343	3.43	39.0	86.0	85	1.0	4	●
VAPDMSUSD0344	3.44	39.0	86.0	85	1.0	4	●
VAPDMSUSD0345	3.45	39.0	86.0	85	1.0	4	●
VAPDMSUSD0346	3.46	39.0	86.0	85	1.0	4	●
VAPDMSUSD0347	3.47	39.0	86.0	85	1.0	4	●
VAPDMSUSD0348	3.48	39.1	86.1	85	1.1	4	●
VAPDMSUSD0349	3.49	39.1	86.1	85	1.1	4	●
VAPDMSUSD0350	3.50	39.1	86.1	85	1.1	4	●
VAPDMSUSD0351	3.51	39.1	86.1	85	1.1	4	●
VAPDMSUSD0352	3.52	39.1	86.1	85	1.1	4	●
VAPDMSUSD0353	3.53	39.1	86.1	85	1.1	4	●

Order Number	Dimensions (mm)						Stock
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0354	3.54	39.1	86.1	85	1.1	4	●
VAPDMSUSD0355	3.55	39.1	86.1	85	1.1	4	●
VAPDMSUSD0356	3.56	39.1	86.1	85	1.1	4	●
VAPDMSUSD0357	3.57	39.1	86.1	85	1.1	4	●
VAPDMSUSD0358	3.58	39.1	86.1	85	1.1	4	●
VAPDMSUSD0359	3.59	39.1	86.1	85	1.1	4	●
VAPDMSUSD0360	3.60	39.1	86.1	85	1.1	4	●
VAPDMSUSD0361	3.61	39.1	86.1	85	1.1	4	●
VAPDMSUSD0362	3.62	39.1	86.1	85	1.1	4	●
VAPDMSUSD0363	3.63	39.1	86.1	85	1.1	4	●
VAPDMSUSD0364	3.64	39.1	86.1	85	1.1	4	●
VAPDMSUSD0365	3.65	39.1	86.1	85	1.1	4	●
VAPDMSUSD0366	3.66	39.1	86.1	85	1.1	4	●
VAPDMSUSD0367	3.67	39.1	86.1	85	1.1	4	●
VAPDMSUSD0368	3.68	39.1	86.1	85	1.1	4	●
VAPDMSUSD0369	3.69	39.1	86.1	85	1.1	4	●
VAPDMSUSD0370	3.70	39.1	86.1	85	1.1	4	●
VAPDMSUSD0371	3.71	43.1	86.1	85	1.1	4	●
VAPDMSUSD0372	3.72	43.1	86.1	85	1.1	4	●
VAPDMSUSD0373	3.73	43.1	86.1	85	1.1	4	●
VAPDMSUSD0374	3.74	43.1	86.1	85	1.1	4	●
VAPDMSUSD0375	3.75	43.1	86.1	85	1.1	4	●
VAPDMSUSD0376	3.76	43.1	86.1	85	1.1	4	●
VAPDMSUSD0377	3.77	43.1	86.1	85	1.1	4	●
VAPDMSUSD0378	3.78	43.1	86.1	85	1.1	4	●
VAPDMSUSD0379	3.79	43.1	86.1	85	1.1	4	●
VAPDMSUSD0380	3.80	43.1	86.1	85	1.1	4	●
VAPDMSUSD0381	3.81	43.1	86.1	85	1.1	4	●
VAPDMSUSD0382	3.82	43.2	86.2	85	1.2	4	●
VAPDMSUSD0383	3.83	43.2	86.2	85	1.2	4	●
VAPDMSUSD0384	3.84	43.2	86.2	85	1.2	4	●
VAPDMSUSD0385	3.85	43.2	86.2	85	1.2	4	●
VAPDMSUSD0386	3.86	43.2	86.2	85	1.2	4	●
VAPDMSUSD0387	3.87	43.2	86.2	85	1.2	4	●
VAPDMSUSD0388	3.88	43.2	86.2	85	1.2	4	●
VAPDMSUSD0389	3.89	43.2	86.2	85	1.2	4	●
VAPDMSUSD0390	3.90	43.2	86.2	85	1.2	4	●
VAPDMSUSD0391	3.91	43.2	86.2	85	1.2	4	●
VAPDMSUSD0392	3.92	43.2	86.2	85	1.2	4	●
VAPDMSUSD0393	3.93	43.2	86.2	85	1.2	4	●
VAPDMSUSD0394	3.94	43.2	86.2	85	1.2	4	●
VAPDMSUSD0395	3.95	43.2	86.2	85	1.2	4	●
VAPDMSUSD0396	3.96	43.2	86.2	85	1.2	4	●
VAPDMSUSD0397	3.97	43.2	86.2	85	1.2	4	●
VAPDMSUSD0398	3.98	43.2	86.2	85	1.2	4	●
VAPDMSUSD0399	3.99	43.2	86.2	85	1.2	4	●
VAPDMSUSD0400	4.00	42.8	85.8	85	0.8	4	●
VAPDMSUSD0405	4.05	42.8	100.8	100	0.8	6	●

● : Inventory maintained in Japan.

P

DRILLING

Order Number	Dimensions (mm)						Stock
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0410	4.10	42.9	100.9	100	0.9	6	●
VAPDMSUSD0415	4.15	42.9	100.9	100	0.9	6	●
VAPDMSUSD0420	4.20	42.9	100.9	100	0.9	6	●
VAPDMSUSD0425	4.25	46.9	100.9	100	0.9	6	●
VAPDMSUSD0430	4.30	46.9	100.9	100	0.9	6	●
VAPDMSUSD0435	4.35	46.9	100.9	100	0.9	6	●
VAPDMSUSD0440	4.40	46.9	100.9	100	0.9	6	●
VAPDMSUSD0445	4.45	46.9	100.9	100	0.9	6	●
VAPDMSUSD0450	4.50	46.9	100.9	100	0.9	6	●
VAPDMSUSD0455	4.55	46.9	100.9	100	0.9	6	●
VAPDMSUSD0460	4.60	47.0	101.0	100	1.0	6	●
VAPDMSUSD0465	4.65	47.0	101.0	100	1.0	6	●
VAPDMSUSD0470	4.70	47.0	101.0	100	1.0	6	●
VAPDMSUSD0475	4.75	47.0	101.0	100	1.0	6	●
VAPDMSUSD0480	4.80	52.0	101.0	100	1.0	6	●
VAPDMSUSD0485	4.85	52.0	101.0	100	1.0	6	●
VAPDMSUSD0490	4.90	52.0	101.0	100	1.0	6	●
VAPDMSUSD0495	4.95	52.0	101.0	100	1.0	6	●
VAPDMSUSD0500	5.00	52.0	101.0	100	1.0	6	●
VAPDMSUSD0505	5.05	52.1	101.1	100	1.1	6	●
VAPDMSUSD0510	5.10	52.1	101.1	100	1.1	6	●
VAPDMSUSD0515	5.15	52.1	101.1	100	1.1	6	●
VAPDMSUSD0520	5.20	52.1	101.1	100	1.1	6	●
VAPDMSUSD0525	5.25	52.1	101.1	100	1.1	6	●
VAPDMSUSD0530	5.30	52.1	101.1	100	1.1	6	●
VAPDMSUSD0535	5.35	57.1	107.1	106	1.1	6	●
VAPDMSUSD0540	5.40	57.1	107.1	106	1.1	6	●
VAPDMSUSD0545	5.45	57.1	107.1	106	1.1	6	●
VAPDMSUSD0550	5.50	57.1	107.1	106	1.1	6	●
VAPDMSUSD0555	5.55	57.2	107.2	106	1.2	6	●
VAPDMSUSD0560	5.60	57.2	107.2	106	1.2	6	●
VAPDMSUSD0565	5.65	57.2	107.2	106	1.2	6	●
VAPDMSUSD0570	5.70	57.2	107.2	106	1.2	6	●
VAPDMSUSD0575	5.75	57.2	107.2	106	1.2	6	●
VAPDMSUSD0580	5.80	57.2	107.2	106	1.2	6	●
VAPDMSUSD0585	5.85	57.2	107.2	106	1.2	6	●
VAPDMSUSD0590	5.90	57.2	107.2	106	1.2	6	●
VAPDMSUSD0595	5.95	57.2	107.2	106	1.2	6	●
VAPDMSUSD0600	6.00	57.2	107.2	106	1.2	6	●
VAPDMSUSD0605	6.05	63.3	113.3	112	1.3	8	●
VAPDMSUSD0610	6.10	63.3	113.3	112	1.3	8	●
VAPDMSUSD0615	6.15	63.3	113.3	112	1.3	8	●
VAPDMSUSD0620	6.20	63.3	113.3	112	1.3	8	●
VAPDMSUSD0625	6.25	63.3	113.3	112	1.3	8	●
VAPDMSUSD0630	6.30	63.3	113.3	112	1.3	8	●
VAPDMSUSD0635	6.35	63.3	113.3	112	1.3	8	●
VAPDMSUSD0640	6.40	63.3	113.3	112	1.3	8	●
VAPDMSUSD0645	6.45	63.3	113.3	112	1.3	8	●

Order Number	Dimensions (mm)						Stock
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0650	6.50	63.4	113.4	112	1.4	8	●
VAPDMSUSD0655	6.55	63.4	113.4	112	1.4	8	●
VAPDMSUSD0660	6.60	63.4	113.4	112	1.4	8	●
VAPDMSUSD0665	6.65	63.4	113.4	112	1.4	8	●
VAPDMSUSD0670	6.70	63.4	113.4	112	1.4	8	●
VAPDMSUSD0675	6.75	68.4	118.4	117	1.4	8	●
VAPDMSUSD0680	6.80	68.4	118.4	117	1.4	8	●
VAPDMSUSD0685	6.85	68.4	118.4	117	1.4	8	●
VAPDMSUSD0690	6.90	68.4	118.4	117	1.4	8	●
VAPDMSUSD0695	6.95	68.4	118.4	117	1.4	8	●
VAPDMSUSD0700	7.00	68.5	118.5	117	1.5	8	●
VAPDMSUSD0705	7.05	68.5	118.5	117	1.5	8	●
VAPDMSUSD0710	7.10	68.5	118.5	117	1.5	8	●
VAPDMSUSD0715	7.15	68.5	118.5	117	1.5	8	●
VAPDMSUSD0720	7.20	68.5	118.5	117	1.5	8	●
VAPDMSUSD0725	7.25	68.5	118.5	117	1.5	8	●
VAPDMSUSD0730	7.30	68.5	118.5	117	1.5	8	●
VAPDMSUSD0735	7.35	68.5	118.5	117	1.5	8	●
VAPDMSUSD0740	7.40	68.5	118.5	117	1.5	8	●
VAPDMSUSD0745	7.45	68.5	118.5	117	1.5	8	●
VAPDMSUSD0750	7.50	68.6	118.6	117	1.6	8	●
VAPDMSUSD0755	7.55	74.6	124.6	123	1.6	8	●
VAPDMSUSD0760	7.60	74.6	124.6	123	1.6	8	●
VAPDMSUSD0765	7.65	74.6	124.6	123	1.6	8	●
VAPDMSUSD0770	7.70	74.6	124.6	123	1.6	8	●
VAPDMSUSD0775	7.75	74.6	124.6	123	1.6	8	●
VAPDMSUSD0780	7.80	74.6	124.6	123	1.6	8	●
VAPDMSUSD0785	7.85	74.6	124.6	123	1.6	8	●
VAPDMSUSD0790	7.90	74.6	124.6	123	1.6	8	●
VAPDMSUSD0795	7.95	74.7	124.7	123	1.7	8	●
VAPDMSUSD0800	8.00	74.7	124.7	123	1.7	8	●
VAPDMSUSD0805	8.05	74.7	129.7	128	1.7	10	●
VAPDMSUSD0810	8.10	74.7	129.7	128	1.7	10	●
VAPDMSUSD0815	8.15	74.7	129.7	128	1.7	10	●
VAPDMSUSD0820	8.20	74.7	129.7	128	1.7	10	●
VAPDMSUSD0825	8.25	74.7	129.7	128	1.7	10	●
VAPDMSUSD0830	8.30	74.7	129.7	128	1.7	10	●
VAPDMSUSD0835	8.35	74.7	129.7	128	1.7	10	●
VAPDMSUSD0840	8.40	74.7	129.7	128	1.7	10	●
VAPDMSUSD0845	8.45	74.8	129.8	128	1.8	10	●
VAPDMSUSD0850	8.50	74.8	129.8	128	1.8	10	●
VAPDMSUSD0855	8.55	80.8	135.8	134	1.8	10	●
VAPDMSUSD0860	8.60	80.8	135.8	134	1.8	10	●
VAPDMSUSD0865	8.65	80.8	135.8	134	1.8	10	●
VAPDMSUSD0870	8.70	80.8	135.8	134	1.8	10	●
VAPDMSUSD0875	8.75	80.8	135.8	134	1.8	10	●
VAPDMSUSD0880	8.80	80.8	135.8	134	1.8	10	●
VAPDMSUSD0885	8.85	80.8	135.8	134	1.8	10	●

P

DRILLING

VIOLET DRILLS

VAPDMSUS

Medium, High precision, For stainless steel

HSS

Order Number	Dimensions (mm)						Stock
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD0890	8.90	80.8	135.8	134	1.8	10	●
VAPDMSUSD0895	8.95	80.9	135.9	134	1.9	10	●
VAPDMSUSD0900	9.00	80.9	135.9	134	1.9	10	●
VAPDMSUSD0910	9.10	80.9	135.9	134	1.9	10	●
VAPDMSUSD0920	9.20	80.9	135.9	134	1.9	10	●
VAPDMSUSD0930	9.30	80.9	135.9	134	1.9	10	●
VAPDMSUSD0940	9.40	81.0	136.0	134	2.0	10	●
VAPDMSUSD0950	9.50	81.0	136.0	134	2.0	10	●
VAPDMSUSD0960	9.60	87.0	142.0	140	2.0	10	●
VAPDMSUSD0970	9.70	87.0	142.0	140	2.0	10	●
VAPDMSUSD0980	9.80	87.0	142.0	140	2.0	10	●
VAPDMSUSD0990	9.90	87.1	142.1	140	2.1	10	●
VAPDMSUSD1000	10.0	87.1	142.1	140	2.1	10	●
VAPDMSUSD1010	10.1	87.1	147.1	145	2.1	12	●
VAPDMSUSD1020	10.2	87.1	147.1	145	2.1	12	●
VAPDMSUSD1030	10.3	87.1	147.1	145	2.1	12	●
VAPDMSUSD1040	10.4	87.2	147.2	145	2.2	12	●
VAPDMSUSD1050	10.5	87.2	147.2	145	2.2	12	●
VAPDMSUSD1060	10.6	87.2	147.2	145	2.2	12	●
VAPDMSUSD1070	10.7	94.2	154.2	152	2.2	12	●
VAPDMSUSD1080	10.8	94.2	154.2	152	2.2	12	●
VAPDMSUSD1090	10.9	94.3	154.3	152	2.3	12	●

Order Number	Dimensions (mm)						Stock
	DC	LCF	OAL	LF	PL	DCON	
VAPDMSUSD1100	11.0	94.3	154.3	152	2.3	12	●
VAPDMSUSD1110	11.1	94.3	154.3	152	2.3	12	●
VAPDMSUSD1120	11.2	94.3	154.3	152	2.3	12	●
VAPDMSUSD1130	11.3	94.3	154.3	152	2.3	12	●
VAPDMSUSD1140	11.4	94.4	154.4	152	2.4	12	●
VAPDMSUSD1150	11.5	94.4	154.4	152	2.4	12	●
VAPDMSUSD1160	11.6	94.4	154.4	152	2.4	12	●
VAPDMSUSD1170	11.7	94.4	154.4	152	2.4	12	●
VAPDMSUSD1180	11.8	94.4	154.4	152	2.4	12	●
VAPDMSUSD1190	11.9	101.5	161.5	159	2.5	12	●
VAPDMSUSD1200	12.0	101.5	161.5	159	2.5	12	●
VAPDMSUSD1210	12.1	101.5	161.5	159	2.5	12	●
VAPDMSUSD1220	12.2	101.5	161.5	159	2.5	12	●
VAPDMSUSD1230	12.3	101.6	161.6	159	2.6	12	●
VAPDMSUSD1240	12.4	101.6	161.6	159	2.6	12	●
VAPDMSUSD1250	12.5	101.6	161.6	159	2.6	12	●
VAPDMSUSD1260	12.6	101.6	161.6	159	2.6	12	●
VAPDMSUSD1270	12.7	101.6	161.6	159	2.6	12	●
VAPDMSUSD1280	12.8	101.7	161.7	159	2.7	12	●
VAPDMSUSD1290	12.9	101.7	161.7	159	2.7	12	●
VAPDMSUSD1300	13.0	101.7	161.7	159	2.7	12	●

P

DRILLING

● : Inventory maintained in Japan.

VAPDSSUS VAPDMSUS

VIOLET DRILLS, High precision, For stainless steel, Short/medium

HSS

RECOMMENDED CUTTING CONDITIONS

Work Material	Stainless Steel				Carbon Steel, Alloy Steel Cast Iron Copper, Copper Alloy AISI 1049, SCM, FC	Structural Steel Aluminium Alloy		
	Austenitic AISI 304, AISI 316		Martensitic Ferritic AISI 430					
Drill Dia. DC (mm)	Revolution (min ⁻¹)	Feed rate (mm/rev)	Revolution (min ⁻¹)	Feed rate (mm/rev)	Revolution (min ⁻¹)	Feed rate (mm/rev)	Revolution (min ⁻¹)	Feed rate (mm/rev)
0.5	7600	0.01	8800	0.01	11250	0.01	15000	0.02
1.0	4800	0.02	6300	0.05	10000	0.05	12000	0.05
2.0	2400	0.04	3200	0.06	5500	0.09	6400	0.09
3.0	1600	0.07	2100	0.10	3700	0.13	4300	0.13
4.0	1200	0.09	1600	0.10	2800	0.15	3200	0.15
5.0	950	0.12	1300	0.13	2200	0.18	2600	0.18
6.0	800	0.14	1100	0.15	1800	0.20	2100	0.19
8.0	600	0.18	800	0.18	1400	0.22	1600	0.24
10.0	480	0.22	640	0.21	1100	0.25	1300	0.28
12.0	400	0.24	530	0.25	930	0.30	1100	0.34
13.0	370	0.26	490	0.28	860	0.32	1000	0.36
14.0	340	0.30	450	0.27	730	0.31	930	0.36
15.0	320	0.31	425	0.28	680	0.32	870	0.38
16.0	300	0.32	400	0.30	640	0.34	820	0.42
18.0	270	0.34	350	0.32	570	0.36	725	0.43
20.0	240	0.36	320	0.35	510	0.38	660	0.45

Note 1) Please reduce the revolution and feed rate depending on the drilling situation when the installation of workpiece or machine lacks rigidity.

Note 2) Please use a collet type drill chuck or a milling chuck.

Note 3) Use sufficient cutting fluid.

Note 4) For precipitation-hardened stainless steels (JIS SUS630 and SUS631), MVE, MVS and MMS are recommended.

Note 5) When drilling holes greater than 4 x drill diameter hole depths, please use a peck feed.

Note 6) The above-mentioned cutting condition is standard when using water-soluble cutting fluid.

Please reduce the revolution when using non-water-soluble cutting fluid.

P

DRILLING