

# DSF DSG

諧波減速機

## 機種型號表示 Indication of Model Numbers

DSF		14	—	P	C	—	100	—	MOTOR
減速機機型 Type	型號 Model	樣式 Style	輸入樣式 Input Style	速比 Ratio	馬達型號 Motor Type				
DSF DSG	14 17 20 25 32 40 45	P: 組件式 Component Type A: 組合式 Unit Type MC: 法蘭式 Motor Flange Type S: 入力軸式 Input Shaft Type	C: 入力迫緊 Input Collet K: 入力鍵槽 Input Keyway  樣式 P、A 可以選擇 入力樣式 Input style is optional for style P, A.	1/50 1/80 1/100 1/120 1/160(僅40#)					
				型號 Model 14#	速比 Ratio 1/50 1/80 1/100				

DSF □ -PC- □  
DSG

### PC

- 組件式 - 入力迫緊  
Component Type - Input Collet



DSF □ -AC- □  
DSG

### AC

- 組合式 - 入力迫緊  
Unit Type - Input Collet



DSF □ -MC- □  
DSG

### MC

- 法蘭式 Motor Flange Type



DSF □ -PK- □  
DSG

### PK

- 組件式 - 入力鍵槽  
Component Type - Input Keyway



DSF □ -AK- □  
DSG

### AK

- 組合式 - 入力鍵槽  
Unit Type - Input Keyway



DSF □ -S- □  
DSG

### S

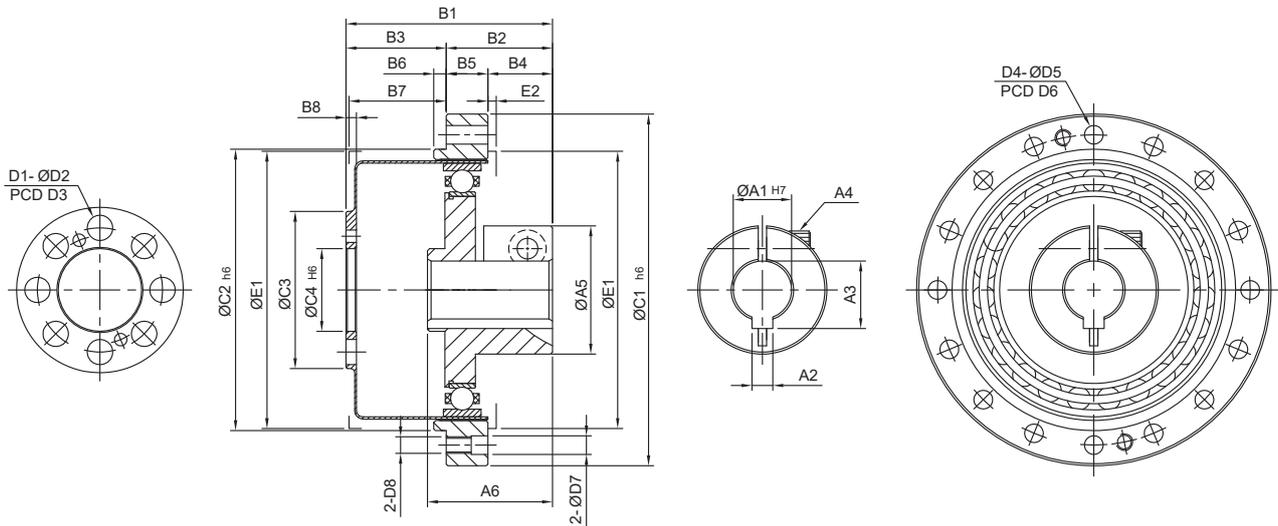
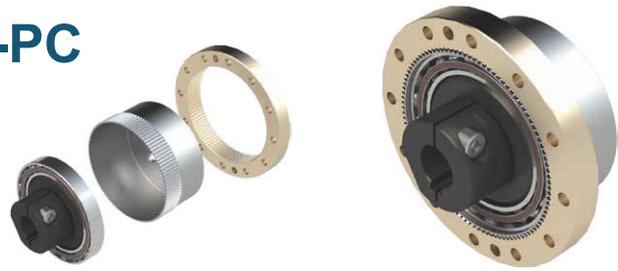
- 入力軸式 Input Shaft Type



## DSF / DSG 產品特性 Characteristic of DSF / DSG

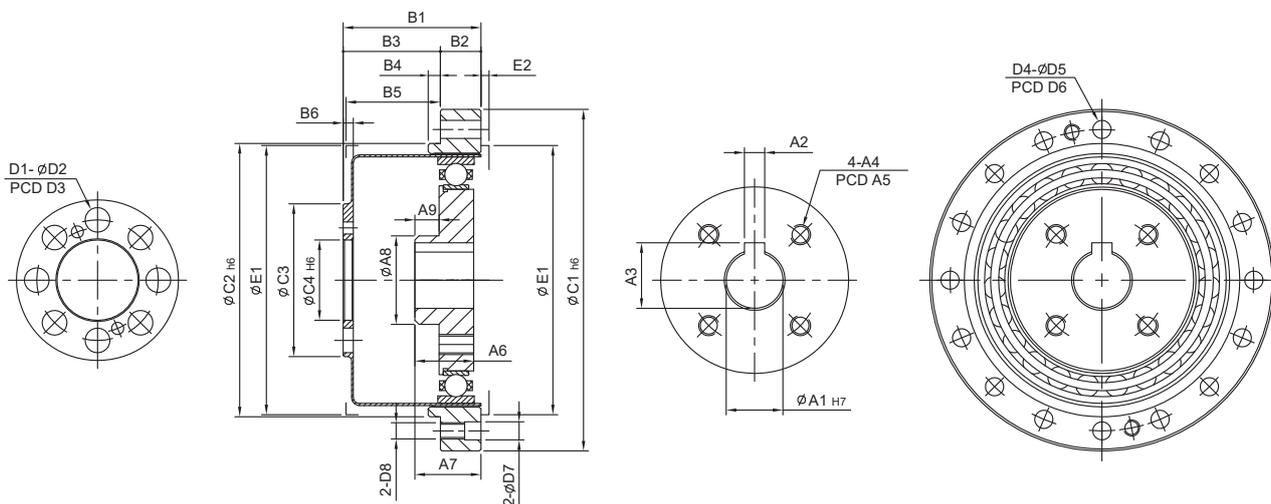
規格 Model No.	單位 Unit	減速比 Ratio	14	17	20	25	32	40	45
額定輸出扭矩 Nominal Output Torque	Nm	50	7	20	30	45	90	140	180
		80	9	27	40	72	138	209	317
		100	9	29	47	77	160	261	385
		120	-	29	47	77	160	298	408
		160	-	-	-	-	-	298	-
平均負載最大轉矩 Max. Output Torque	Nm	50	9	32	40	64	127	200	270
		80	13	33	55	99	195	288	395
		100	13	48	58	123	253	377	507
		120	-	48	58	123	253	457	629
		160	-	-	-	-	-	457	-
起動停止峰值轉矩 Permissible Peak Torque for Start and Stop	Nm	50	21	42	66	112	225	350	450
		80	27	53	86	157	316	452	633
		100	32	67	96	180	346	494	677
		120	-	67	102	191	367	537	738
		160	-	-	-	-	-	566	-
瞬間容許最大轉矩 Permissible Maximum Momentary Torque	Nm	50	41	81	113	214	440	789	1093
		80	53	98	146	294	653	1125	1461
		100	56	109	169	327	744	1240	1806
		120	-	98	169	350	764	1345	2024
		160	-	-	-	-	-	1345	-
起動轉矩 Starting Torque	cNm	50	4	6	8	15	32	55	77
		80	3	4	5	9	20	35	49
		100	2.5	3.5	4	8	18	32	43
		120	-	3	4	7	15	28	39
		160	-	-	-	-	-	24	-
增速起動轉矩 Output Starting Torque	Nm	50	1.5	2.6	4.1	8.2	17	29	43
		80	1.6	2.7	4.2	8.4	18	30	44
		100	1.7	2.8	4.3	8.6	19	32	46
		120	-	2.9	4.5	8.8	20	34	48
		160	-	-	-	-	-	40	-
無負載運轉力矩 No-load Running Torque	cNm	50	4	5	7	12	28	48	65
		80	3	4	6	10	20	30	42
		100	2	3	5	8	18	26	38
		120	-	3	4	7	14	25	35
		160	-	-	-	-	-	22	-
額定輸入轉速 Nominal Input Speed	rpm	50~160	2,000	2,000	2,000	2,000	2,000	2,000	2,000
最大輸入轉速 Max. Input Speed	rpm	50~160	6,000	6,000	5,000	5,000	5,000	4,000	4,000
慣性力矩 Reducer Inertia	lx10-4kgm <sup>2</sup>	50~160	0.04	0.08	0.2	0.4	1.7	4.5	8.8
效率 Efficiency	%	50	70	73	73	73	75	75	75
		80	68	70	72	72	74	74	74
		100	64	66	70	70	72	72	72
		120	-	64	68	68	70	70	70
		160	-	-	-	-	-	65	-
使用溫度 Operating Temperature	°C	50~160	環境 Environment -10°C ~ +70°C / 最大工作溫度 Max. Working Temperature 90°C						
潤滑 Lubrication		50~160	潤滑油脂 Synthetic Grease						
噪音值 Noise Level	dB	50~160	56	58	60	62	64	66	68

# MODEL : DSF-PC、DSG-PC



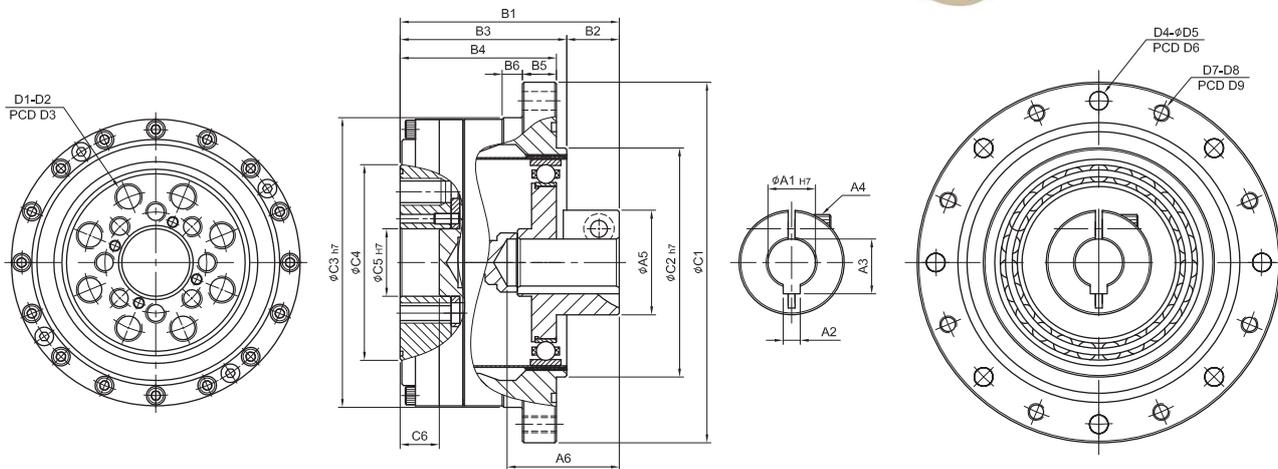
Code \ Model	14	17	20	25	32	40	45
A1	8	8	8、11、14	14	14、19	19	19、24
A2	3	3	3、4、5	5	5、6	6	6、8
A3	9.4	9.4	9.4、12.7、16.3	16.3	16.3、21.8	21.8	21.8、27.3
A4	M4xP0.7	M4xP0.7	M4xP0.7 M5xP0.8	M5xP0.8	M5xP0.8	M5xP0.8	M5xP0.8 M6xP1.0
A5	23.5	23.5	23.5、26、31	31	34、38	38	38、48
A6	22	23	25.5、27.5	30	32.5	36.5	40.5
B1	36	39	42.5、44.5	49.5	58	67.5	72
B2	18.5	19	21、23	25.5	30	33.5	34
B3	17.5	20	21.5	24	28	34	38
B4	12.5	12.5	13.5、15.5	15.5	16	16.5	15
B5	6	6.5	7.5	10	14	17	19
B6	2	2.5	3	3	3	4	4
B7	16.5	19	20.5	23	27	33	36.5
B8	2.4	3	3	3	3.2	4	3.7
C1	50	60	70	85	110	135	155
C2	38	48	54	68	90	110	124
C3	23	26	31	38	50	64	73
C4	11	10	14	20	26	32	32
D1	6	6	8	8	8	8	8
D2	4.1	5.1	5.1	6.1	8.1	10.1	12.1
D3	17	19	24	30	40	50	54
D4	DSG	8	16	16	16	16	16
	DSF	6	12	12	12	12	12
D5	3.5	3.4	3.5	4.5	5.5	6.6	8.5
D6	44	54	62	75	100	120	140
D7	-	-	3.5	4.5	5.5	6.6	9
D8	M3xP0.5	M3xP0.5	M3xP0.5	M4xP0.7	M5xP0.8	M6xP1.0	M8xP1.25
E1	37	46	53	67	86	105	119
E2	1.5	1.5	2	2	2	3	3
Weight (g)	132	195	300	495	1,018	3,383	

# MODEL : DSF-PK、DSG-PK



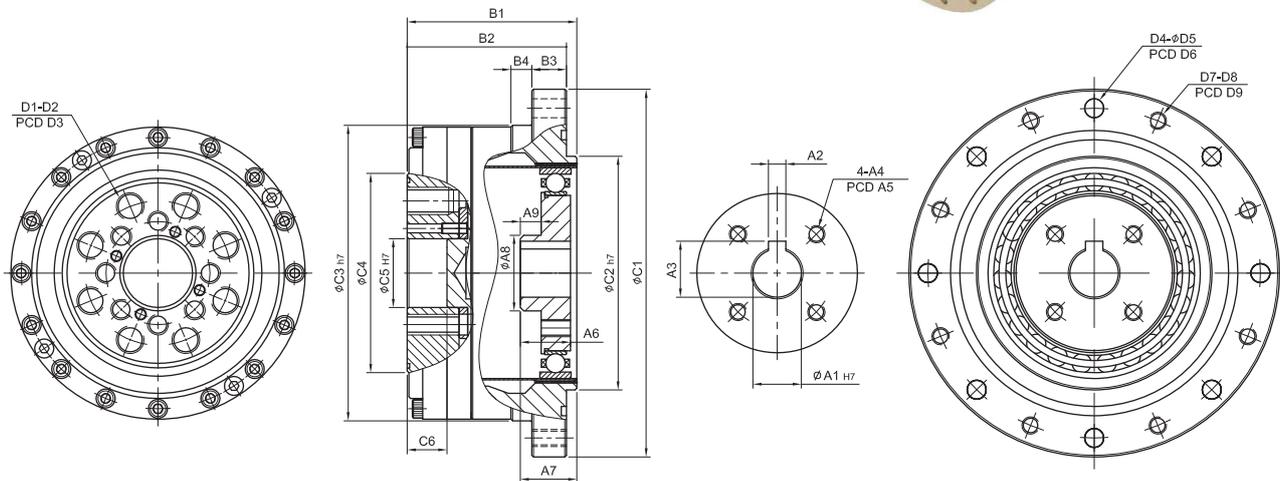
Code \ Model	14	17	20	25	32	40	45
A1	6、8	8	8、14	14	14、19	19、24	19、24
A2	2、3	3	3、5	5	5、6	6、8	6、8
A3	7、9.4	9.4	9.4、16.3	16.3	16.3、21.8	21.8、27.3	21.8、27.3
A4	2-M4xP0.7	2-M4xP0.7	M4xP0.7	M5xP0.8	M5xP0.8	M5xP0.8	M6xP1.0
A5	18	22	25	32	36	50	50
A6	10	12.5	13.5	14.5	16	20	20
A7	10.5	13	14	16.3	17.45	22	23
A8	14	16	21	24	30	36	36
A9	2.3	4.2	4.3	6	5	7	5
B1	23.5	26.5	29	34	42	51	57
B2	6	6.5	7.5	10	14	17	19
B3	17.5	20	21.5	24	28	34	38
B4	2	2.5	3	3	3	4	4
B5	16.5	19	20.5	23	27	33	36.5
B6	2.4	3	3	3	3.2	4	3.7
C1	50	60	70	85	110	135	155
C2	38	48	54	68	90	110	124
C3	23	26	31	38	50	64	73
C4	11	10	14	20	26	32	32
D1	6	6	8	8	8	8	8
D2	4.1	5.1	5.1	6.1	8.1	10.1	12.1
D3	17	19	24	30	40	50	54
D4	DSG	8	16	16	16	16	16
	DSF	6	12	12	12	12	12
D5	3.5	3.4	3.5	4.5	5.5	6.6	8.5
D6	44	54	62	75	100	120	140
D7	-	-	3.5	4.5	5.5	6.6	9
D8	M3xP0.5	M3xP0.5	M3xP0.5	M4xP0.7	M5xP0.8	M6xP1.0	M8xP1.25
E1	37	46	53	67	86	105	119
E2	1.5	1.5	2	2	2	3	3
Weight (g)	100	167	246	446	938	3,297	

# MODEL : DSF-AC、DSG-AC



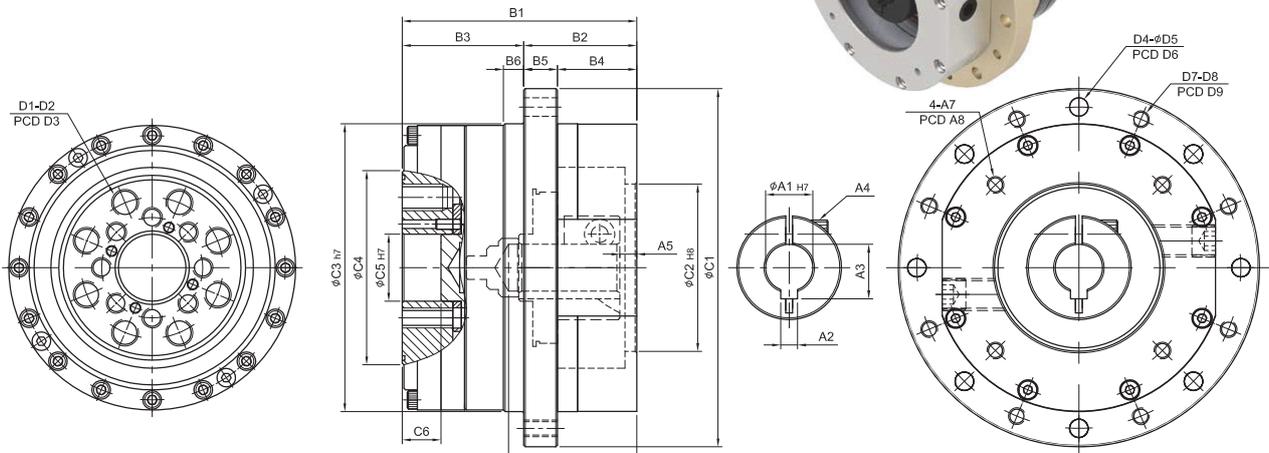
Code \ Model	14	17	20	25	32	40	45
A1	8	8	8、11、14	14	14、19	16、19	19、24
A2	3	3	3、4、5	5	5、6	6	6、8
A3	9.4	9.4	9.4、12.7、16.3	16.3	16.3、21.8	21.8	21.8、27.3
A4	M4xP0.7	M4xP0.7	M4xP0.7 M5xP0.8	M5xP0.8	M5xP0.8	M5xP0.8	M5xP0.8 M6xP1.0
A5	23.5	23.5	23.5、26.5、31	31	34、38	38	38、48
A6	23.5	24.5	27、29	33	38.5	46	50、54.5
B1	48.5	51.5	54.5、56.5	64.5	76	87	93
B2	12.5	12.5	13.5、15.5	15.5	16	16.5	15
B3	36	39	41	49	60	70.5	78
B4	34	37	38	46	57	66.5	74
B5	7	8	10	10	12	16	16
B6	4	5	6	6	5	5	6
C1	73	79	93	107	138	160	180
C2	38	48	56	67	90	110	124
C3	56	63	72	86	113	127	148
C4	31	38	45	58	78	90	109.6
C5	11	10	14	20	26	32	32
C6	9.4	9.5	9	12	15.2	5	18.5
D1	6	6	8	8	8	8	8
D2	M4xP0.7 deep12.5	M5xP0.8 deep12.5	M6xP1.0 deep12	M8xP1.25 deep15	M10xP1.5 deep18	M10xP1.5 deep19.5	M12xP1.75 deep21
D3	23	27	32	42	55	68	82
D4	DSG	8	8	10	12	10	12
	DSF	6	6	6	8	8	12
D5	4.5	4.5	5.5	5.5	6.5	9	9
D6	65	71	82	96	125	144	164
D7	DSG	8	8	10	12	10	12
	DSF	6	6	6	8	8	12
D8	M4xP0.7	M4xP0.7	M5xP0.8	M5xP0.8	M6xP1.0	M8xP1.25	M8xP1.25
D9	65	71	82	96	125	144	164
O-Ring	d49.5x2t	d55.5x2t	d66.5x2t	d79.5x2.0t	d104.5x2t	d124.5x2t	d133x2.62t
Output O-Ring	d29x0.6t	d35x0.6t	d43x1.5t	d55x1.5t	d72x1.5t	d85x1.5t	d99.5x2t
Weight (g)	555	733	1,039	1,629	3,463	5,174	

# MODEL : DSF-AK、DSG-AK



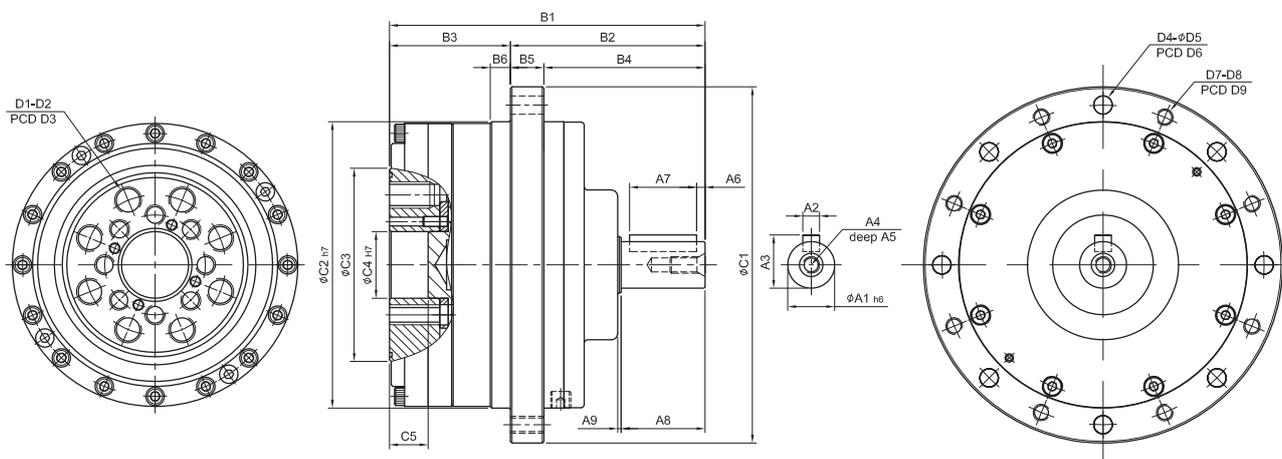
Code \ Model	14	17	20	25	32	40	45
A1	6、8	8	8、14	14	14、19	19、24	19、24
A2	2、3	3	3、5	5	5、6	6、8	6、8
A3	7、9.4	9.4	9.4、16.3	16.3	16.3、21.8	21.8、27.3	21.8、27.3
A4	2-M4xP0.7	2-M4xP0.7	M4xP0.7	M5xP0.8	M5xP0.8	M5xP0.8	M6xP1.0
A5	18	22	25	32	36	50	50
A6	10	12.5	13.5	14.5	16	20	20
A7	10.5	13	14	16.3	17.45	22	23
A8	14	16	21	24	30	36	36
A9	2.3	4.2	4.3	6	5	7	5
B1	36	39	41	49	60	70.5	78
B2	34	37	38	46	57	66.5	74
B3	7	8	10	10	12	16	16
B4	4	5	6	6	5	5	6
C1	73	79	93	107	138	160	180
C2	38	48	56	67	90	110	124
C3	56	63	72	86	113	127	148
C4	31	38	45	58	78	90	109.6
C5	11	10	14	20	26	32	32
C6	9.4	9.5	9	12	15.2	5	18.5
D1	6	6	8	8	8	8	8
D2	M4xP0.7 deep12.5	M5xP0.8 deep12.5	M6xP1.0 deep12	M8xP1.25 deep15	M10xP1.5 deep18	M10xP1.5 deep19.5	M12xP1.75 deep21
D3	23	27	32	42	55	68	82
D4	DSG	8	8	10	12	10	12
	DSF	6	6	6	8	8	12
D5	4.5	4.5	5.5	5.5	6.5	9	9
D6	65	71	82	96	125	144	164
D7	DSG	8	8	10	12	10	12
	DSF	6	6	6	8	8	12
D8	M4xP0.7	M4xP0.7	M5xP0.8	M5xP0.8	M6xP1.0	M8xP1.25	M8xP1.25
D9	65	71	82	96	125	144	164
O-Ring	d49.5x2t	d55.5x2t	d66.5x2t	d79.5x2.0t	d104.5x2t	d124.5x2t	d133x2.62t
Output O-Ring	d29x0.6t	d35x0.6t	d43x1.5t	d55x1.5t	d72x1.5t	d85x1.5t	d99.5x2t
Weight (g)	523	705	985	1,581	3,383	5,084	

# MODEL : DSF-MC、DSG-MC



Code \ Model	14	17	20	25	32	40	45
A1	8	8	8、11、14	14	14、19	16、19	19、24
A2	3	3	3、4、5	5	5、6	5、6	6、8
A3	9.4	9.4	9.4、12.7、16.3	16.3	16.3、21.8	18.3、21.8	21.8、27.3
A4	M4xP0.7	M4xP0.7	M4xP0.7 M5xP0.8	M5xP0.8	M5xP0.8	M5xP0.8	M5xP0.8 M6xP1.0
A5	4	4	4、5	5	5	5	7
A6	27.5	28.5	31、34	38	43.5	51	57、61.5
A7	M3xP0.5 M4xP0.7	M3xP0.5 M4xP0.7	M4xP0.7 M5xP0.8	M5xP0.8	M4xP0.7 M5xP0.8 M6xP1.0	M5xP0.8 M6xP1.0	M6xP1.0
A8	45、46	45、46	46、63、70	70	65、70 90、100	70、90 98.43	90、115
B1	52.5	55.5	58.5、61.5	69.5	81	92	100
B2	25.5	26.5	30.5、33.5	33.5	36	41.5	42
B3	27	29	28	36	45	50.5	58
B4	18.5	18.5	20.5、23.5	23.5	24	25.5	26
B5	7	8	10	10	12	16	16
B6	4	5	6	6	5	5	6
C1	73	79	93	107	138	160	180
C2	30	30	30、40、50	50	36、50 70、80	50、70、73	70、95
C3	56	63	72	86	113	127	148
C4	31	38	45	58	78	90	109.6
C5	11	10	14	20	26	32	32
C6	9.4	9.5	9	12	15.2	5	18.5
D1	6	6	8	8	8	8	8
D2	M4xP0.7 deep12.5	M5xP0.8 deep12.5	M6xP1.0 deep12	M8xP1.25 deep15	M10xP1.5 deep18	M10xP1.5 deep19.5	M12xP1.75 deep21
D3	23	27	32	42	55	68	82
D4	DSG	8	8	10	12	10	12
	DSF	6	6	6	8	8	12
D5	4.5	4.5	5.5	5.5	6.5	9	9
D6	65	71	82	96	125	144	164
D7	DSG	8	8	10	12	10	12
	DSF	6	6	6	8	8	12
D8	M4xP0.7	M4xP0.7	M5xP0.8	M5xP0.8	M6xP1.0	M8xP1.25	M8xP1.25
D9	65	71	82	96	125	144	164
Output O-Ring	d29x0.6t	d35x0.6t	d43x1.5t	d55x1.5t	d72x1.5t	d85x1.5t	d99.5x2t
Weight (g)	633	836	1,155	1,831	3,881	5,673	

# MODEL : DSF-S 、 DSG-S



Code \ Model	14	17	20	25	32	40	45
A1	8	11	11	14	14	19	19
A2	3	4	4	5	5	6	6
A3	9.2	12.5	12.5	16	16	21.5	21.5
A4	M3xP0.5	M4xP0.7	M4xP0.7	M5xP0.8	M5xP0.8	M6xP1.0	M6xP1.0
A5	7	8	8	10	10	12	12
A6	1	1.5	2.5	2.5	2.5	2.5	2.5
A7	10	12	15	20	20	25	25
A8	12	16	20	25	25	30	30
A9	1	1	1	1	1	1	1
B1	63.5	70.5	78	94	113.5	129.5	140
B2	36.5	41.5	50	58	68.5	79	82
B3	27	29	28	36	45	50.5	58
B4	29.5	33.5	40	48	56.5	63	66
B5	7	8	10	10	12	16	16
B6	4	5	6	6	5	5	5
C1	73	79	93	107	138	160	180
C2	56	63	72	86	113	127	148
C3	31	38	45	58	78	90	109.6
C4	11	10	14	20	26	32	32
C5	9.4	9.5	9	12	15.2	5	18.5
D1	6	6	8	8	8	8	8
D2	M4xP0.7 deep12.5	M5xP0.8 deep12.5	M6xP1.0 deep12	M8xP1.25 deep15	M10xP1.5 deep18	M10xP1.5 deep19.5	M12xP1.75 deep21
D3	23	27	32	42	55	68	82
D4	DSG	8	8	10	12	10	12
	DSF	6	6	6	8	8	12
D5	4.5	4.5	5.5	5.5	6.5	9	9
D6	65	71	82	96	125	144	164
D7	DSG	8	8	10	12	10	12
	DSF	6	6	6	8	8	12
D8	M4xP0.7	M4xP0.7	M5xP0.8	M5xP0.8	M6xP1.0	M8xP1.25	M8xP1.25
D9	65	71	82	96	125	144	164
Output O-Ring	d29x0.6t	d35x0.6t	d43x1.5t	d55x1.5t	d72x1.5t	d85x1.5t	d99.5x2t
Weight (g)	620	818	1,125	1,842	3,972	5,882	