Disc Valve Motors

SMS Series

Features

Compact in design with disc valving and Geroler

High pressure capacity shaft seal

Design and manufacture of the spline and drives give the motor durability

Wide variety of mounting flanges, shafts, ports and speed provides design flexibility

Direction of shaft rotation and speed can be controlled easily and smoothly

Best combination of high efficiency and economy in medium duty applications

Specification Data

Displacement cc/r		80	100	125	130	160	195	245	305	395
Flow	Rated	75	75	75	75	75	75	75	75	75
LPM	Max	75	95	95	95	115	115	115	115	130
Speed	Rated	799	742	630	576	477	385	308	246	191
RPM	Max	908	924	820	720	713	577	462	365	335
Pressure	Rated	170	170	170	170	170	170	170	140	140
Bar	Max	275	275	310	275	240	240	240	205	170
Torque	Rated	195	245	200	315	380	455	555	560	700
Nm	Max	305	395	510	505	530	625	765	805	890

Max. pressure is the allowed pressure at the inlet port. Rated pressure is the working pressure difference between inlet and outlet port.

A simultaneous maximum RPM and maximum pressure NOT recommended

Maximum pressure or maximum RPM operation: 10% of every minute

Recommended fluids: Anti-wear type of hydraulic oil. Viscosity recommended 37-73 cSt. Recommended filtration ISO18/13. Maximum operating temperature recommended 80°C

Special high pressure capacity shaft seal ensures back pressure up to 10 Mpa. Recommended preferable back pressure 5 Mpa. Case drain line is recommended when back pressure higher than 5 Mpa. When case drain line is used, make sure the motor is always filled with oil. The motor life is benefited from a case drain line.

It is highly recommended that the motor runs at 30% of rated pressure for at least one hour before application of full load. Be sure the motor is filled with fluid prior to any load applications.

Disc Valve Motors

Performance Data
SMS Series

Continuous

intermittent

80cc/r

Flow LPM	Δ Pressure Bar							
	35	70	105	140	170	205	240	275
0.95	25 3	45 1						
1.90	30 17	50 8	85 3					
3.80	35 44	75 40	110 37	145 34	175 28	205 22	220 14	240 2
7.50	35 90	75 85	110 81	150 78	180 72	210 65	235 57	265 49
15.0	35 182	75 176	115 170	150 166	185 159	215 152	250 140	280 128
23.0	35 273	75 267	115 259	150 254	185 246	225 238	255 223	290 207
30.0	35 365	75 375	115 349	150 341	190 333	230 325	265 306	300 286
38.0	35 456	75 448	115 439	155 429	190 420	230 411	270 388	305 364
45.0	30 547	70 537	115 530	155 516	195 507	235 497	270 470	305 442
53.0	30 638	70 629	110 622	150 603	195 593	235 584	270 553	305 521
61.0	30 729	70 720	110 714	150 689	190 679	230 670	270 635	305 599
68.0	25 818	65 810	110 795	150 775	190 765	230 756	265 717	300 677
76.0	25 908	65 901	105 880	145 861	185 851	225 842	260 799	295 755

185 Torque Nm
851 Speed RPM

100cc/r

Flow LPM	Δ Pressure Bar							
	35	70	105	140	170	205	240	275
0.95	30 2							
1.90	35 9	70 5	105 2					
3.80	45 34	95 31	135 28	175 23	210 15	240 6		
7.50	45 71	95 68	140 63	180 59	215 51	250 38	285 24	315 14
15.0	45 145	90 141	140 136	185 131	225 121	270 104	310 94	355 80
23.0	45 219	90 215	140 209	190 202	235 192	280 172	325 163	370 149
30.0	40 294	90 288	140 281	190 273	240 261	290 243	340 231	385 216
38.0	40 368	90 362	145 354	195 344	245 330	295 316	340 300	390 283
45.0	40 442	90 436	145 427	195 415	245 399	295 389	345 369	395 350
53.0	35 516	90 509	140 500	195 486	245 469	295 463	345 437	395 417
61.0	35 591	90 583	140 573	195 558	245 540	295 537	345 506	395 485
68.0	35 665	85 657	140 646	190 630	240 611	290 609	340 574	390 552
76.0	30 739	80 731	135 715	185 703	235 684	290 662	335 643	390 619
83.0	30 813	80 805	135 794	185 777	235 758	280 749	330 712	380 687
91.0	30 887	80 879	130 868	175 852	230 834	280 814	330 782	375 754
95.0	25 924	75 916	125 905	175 890	225 873	275 846	325 817	

Motors run with high efficiency in all areas designated with a number for torque and speed, However for best motor life select a motor to run with a torque and speed in the Continuous Area.

Performance data is typical at 120 SUS.
Actual data may vary slightly from unit to unit in production

Performance Data
SMS Series

Continuous

intermittent

125cc/r

Flow LPM	Δ Pressure Bar							
	35	70	105	140	170	205	240	275
0.95								
1.90	45 8	100 2						
3.80	60 27	120 23	180 19	230 16	285 13	330 9	375 3	
7.50	60 56	120 53	180 47	235 42	290 39	330 36	375 28	410 21
15.0	55 113	120 111	185 104	245 97	300 95	350 92	400 85	450 77
23.0	55 171	120 169	185 161	245 153	310 149	370 146	425 132	485 118
30.0	55 224	120 222	185 219	250 210	315 204	375 201	435 192	495 184
38.0	55 286	120 282	185 276	250 269	315 261	385 255	445 243	505 231
45.0	50 344	120 338	185 333	250 327	315 317	380 307	440 295	500 284
53.0	50 402	115 395	185 391	250 385	340 373	380 360	440 348	500 336
61.0	45 460	115 452	180 447	250 443	315 430	375 411	440 397	500 384
68.0	45 517	110 509	180 504	245 500	310 484	375 471	435 456	500 440
76.0	45 575	110 568	175 560	240 551	305 539	370 524	435 508	
83.0	40 633	105 624	170 619	235 604	305 597	365 579	430 560	
91.0	35 691	105 682	170 676	235 665	300 651	365 633	425 616	
95.0	35 719	100 712	165 705	230 692	295 679	360 682	420 656	

160cc/r

Flow LPM	Δ Pressure Bar							
	15	35	70	105	140	170	205	240
0.95	25 3							
1.90	25 9	55 7	110 5	175 3	240 1			
3.80	30 23	65 21	130 19	195 17	260 13	320 8	375 3	430 2
7.50	35 46	70 45	135 42	200 39	265 35	330 34	395 33	460 28
15.0	35 93	70 92	140 89	215 85	285 79	360 77	430 75	505 59
23.0	35 142	75 140	145 137	220 131	295 124	370 118	445 113	520 104
30.0	35 190	75 187	150 184	225 178	300 170	375 166	450 164	525 153
38.0	35 237	70 235	150 231	230 226	320 217	385 212	455 205	530 193
45.0	30 286	70 283	150 279	230 274	305 265	380 254	455 246	530 235
53.0	25 334	65 331	145 326	230 322	305 312	380 305	455 297	530 286
61.0	25 382	65 378	145 374	225 369	300 360	375 349	455 339	530 326
68.0	20 429	60 426	140 422	220 416	300 407	375 394	450 387	
76.0	20 477	60 474	135 469	215 462	300 451	375 440	445 430	
83.0	15 525	55 522	130 517	210 510	295 501	370 484	445 473	
91.0	15 572	50 569	130 564	210 556	290 546	370 531	440 522	
95.0	10 596	50 593	130 587	210 580	290 566	265 553	440 544	
114.0		35 713	120 706	200 696	280 682	355 672	430 658	

120 Torque Nm
706 Speed RPM

Motors run with high efficiency in all areas designated with a number for torque and speed, However for best motor life select a motor to run with a torque and speed in the Continuous Area.

Performance data is typical at 120 SUS. Actual data may vary slightly from unit to unit in production

Performance Data
SMS Series

Continuous

intermittent

195cc/r

Flow LPM	Δ Pressure Bar 15	35	70	105	140	170	205	240
0.95	25 4	65 2						
1.90	35 8	70 6	150 2					
3.80	45 17	80 16	160 14	200 11	305 7	370 4	430 2	490 1
7.50	45 37	85 35	165 33	250 31	325 26	415 21	510 19	575 14
15.0	45 76	90 74	175 72	260 70	345 64	430 61	510 57	595 51
23.0	45 115	90 113	180 110	270 108	360 102	445 99	530 94	615 87
30.0	45 154	90 151	185 148	275 146	370 140	455 135	540 130	625 123
38.0	45 193	95 190	185 187	280 184	375 177	465 173	545 168	630 160
45.0	40 231	90 229	185 226	2880 221	375 218	465 211	550 204	
53.0	35 269	85 267	185 264	280 260	380 254	465 248	550 241	
61.0	30 308	80 306	185 303	275 296	375 290	465 283	550 276	
68.0	30 346	80 345	180 342	270 334	375 327	465 315		
76.0	25 385	75 384	175 380	270 372	370 367	460 359		
83.0	20 424	70 423	170 418	265 410	365 404	460 395		
91.0	15 462	65 461	165 457	260 449	360 441	450 432		
95.0	15 484	60 482	160 476	260 469	355 459	445 449		
114.0		45 577	145 571	240 562	330 550			

245cc/r

Flow LPM	Δ Pressure Bar 15	35	70	105	140	170	205	240
0.95								
1.90	45 4	95 2						
3.80	50 14	105 13	210 11	315 9	410 6	515 4	615 3	715 1
7.50	50 29	110 28	215 26	325 23	425 20	540 18	640 15	740 12
15.0	55 60	115 59	225 56	340 53	450 49	555 47	660 46	765 44
23.0	50 91	115 90	230 87	350 83	465 78	570 73	675 69	780 65
30.0	50 122	115 121	235 118	360 113	475 108	585 104	690 101	
38.0	50 153	115 152	240 148	360 144	480 139	560 135	705 103	
45.0	45 184	110 183	235 180	360 175	480 170	600 165		
53.0	40 215	105 214	235 211	355 207	480 201	585 195		
61.0	40 246	95 245	230 242	355 238	470 232	580 223		
68.0	30 277	90 276	225 273	345 269	465 263	575 253		
76.0	30 308	90 306	215 302	340 298	465 291			
83.0	25 339	80 337	210 334	330 330	455 323			
91.0	15 370	75 369	200 364	325 360	445 353			
95.0	15 385	75 384	200 379	325 375	445 367			
114.0		60 462	185 458	305 453	430 447			

185 Torque Nm
458 Speed RPM

Motors run with high efficiency in all areas designated with a number for torque and speed, However for best motor life select a motor to run with a torque and speed in the Continuous Area.

Performance data is typical at 120 SUS. Actual data may vary slightly from unit to unit in production

Performance Data
SMS Series

Continuous

intermittent

305cc/r

Flow LPM

	Δ Pressure Bar						
	15	35	70	105	140	170	205
0.95							
1.90	55 4	120 2					
3.80	70 12	135 11	260 10	390 9	500 6	610 1	
7.50	70 24	135 24	270 22	395 20	520 18	640 15	765 11
15.0	75 49	140 49	280 47	415 45	545 42	675 38	805 34
23.0	70 74	145 74	290 72	430 69	560 64	695 58	825 52
30.0	70 98	145 98	295 96	440 93	575 86	705 80	
38.0	65 123	140 122	295 120	440 117	580 110	720 102	
45.0	60 148	140 147	295 144	440 142	580 133	720 124	
53.0	55 172	135 172	290 168	440 165	580 156		
61.0	50 196	125 196	280 192	440 188	575 178		
68.0	40 221	120 221	275 217	440 212	570 202		
76.0	35 246	110 245	265 241	420 236	565 226		
83.0	25 271	105 270	260 266	400 260	545 255		
91.0	20 296	100 294	255 290	385 285	525 280		
95.0	15 308	95 307	250 303	375 298	510 293		
114.0		75 365	230 360	355 356			

395cc/r

Flow LPM

	Δ Pressure Bar							
	15	35	70	105	120	140	155	170
0.95								
1.90	65 4	150 3						
3.80	85 9	175 9	350 8	505 7	585 7	665 6	745 5	820 4
7.50	90 18	180 18	360 17	530 16	615 15	700 14	775 13	845 11
15.0	90 37	190 37	375 36	560 35	650 34	740 33	815 31	890 28
23.0	90 57	190 56	385 55	575 52	670 50	765 49	840 47	905 45
30.0	90 76	190 75	390 74	580 71	675 69	770 68		
38.0	90 95	190 94	395 93	585 90	680 88	775 86		
45.0	85 114	190 113	390 112	580 109	675 106	770 103		
53.0	85 133	185 132	390 131	580 127	675 124			
61.0	80 153	180 152	380 150	570 146	670 144			
68.0	70 172	170 171	375 170	565 167	665 164			
76.0	65 191	165 190	370 189	560 186	660 184			
83.0	60 210	155 209	360 208	550 206				
91.0	50 230	150 229	350 227	540 224				
98.0	40 249	140 248	340 246	535 242				
114.0	20 287	120 286	320 283	515 277				
132.0		95 335	300 333					

300 Torque Nm
333 Speed RPM

Motors run with high efficiency in all areas designated with a number for torque and speed, However for best motor life select a motor to run with a torque and speed in the Continuous Area.

Performance data is typical at 120 SUS. Actual data may vary slightly from unit to unit in production

Disc Valve Motors

SMS series Performance Data

Continuous

intermittent

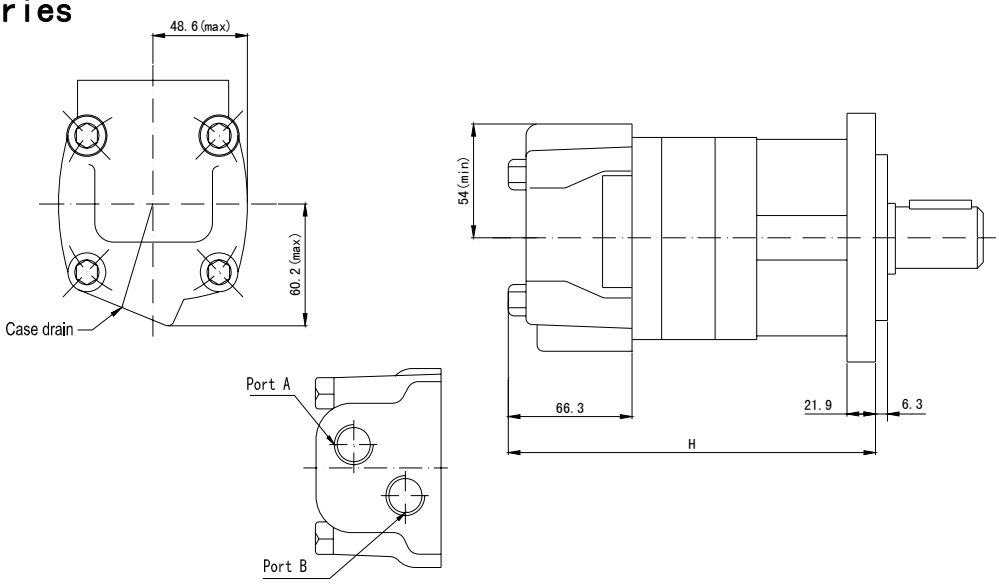
490cc/r

Flow LPM	Pressure △Bar 15	35	50	70	85	105	120	140
140								
1.9	75 2	180 1						
3.8	105 7	225 6	340 5	440 4	550 2			
7.5	105 14	235 13	350 12	460 10	575 9	715 7		
15	110 30	240 29	365 28	480 27	605 26	720 24	835 22	900 20
23	110 45	240 44	365 43	485 42	605 41	725 39	845 37	93 35
30	110 61	240 60	365 59	490 58	610 57	730 55	855 52	
38	105 76	230 75	360 74	485 73	610 72	730 70	855 68	
45	95 91	225 90	355 90	480 89	605 87	730 85	855 84	
53	90 106	220 105	345 105	475 104	60 102	725 100		
61	80 122	210 121	340 120	465 119	590 118	715 116		
68	70 153	190 152	315 151	445 150	570 149	700 146		
76	60 153	190 152	315 151	445 150	570 149	700 146		
83	50 168	175 168	305 167	435 165	560 164	685 161		
91	40 184	165 184	295 183	420 181	550 179	675 177		
98	30 199	155 195	285 195	410 192	540 190			
106		140 212	270 211	400 209	525 207			
114		125 230	255 229	385 277	510 224			

255 Torque NM
229 Speed rpm

Dimensions

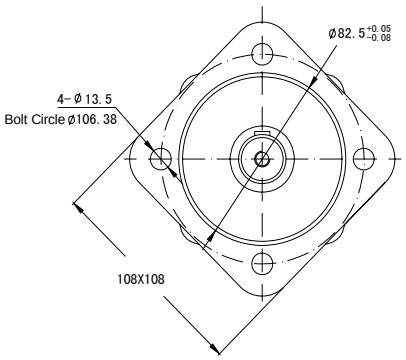
SMS Series



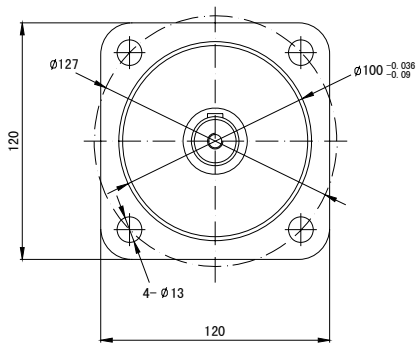
Displacement cc/r	80	100	130	160	195	245	305	395	490
H mm	184	189	195	195	202	211	223	239	256

Flange

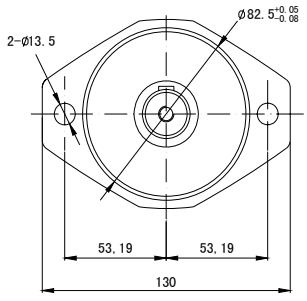
4 bolt Square



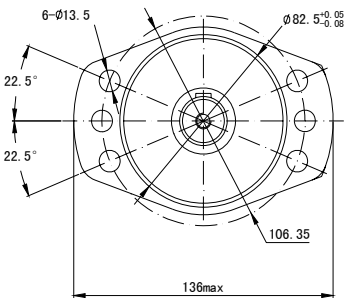
4 bolt large Square



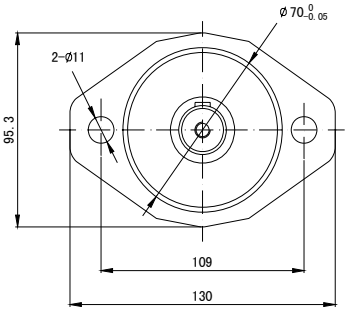
2 bolt Rhomb



6 bolt Rhomb

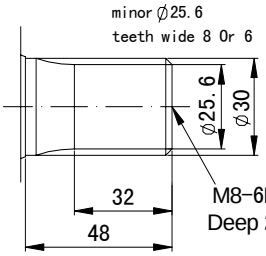


2 bolt Rhomb

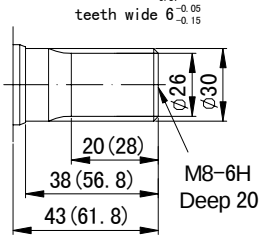


Dimensions shaft
SMS Series

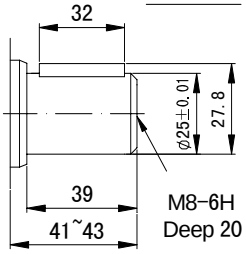
Square Spline
6 teeth
major Ø30
minor Ø25.6
teeth wide 8 Or 6



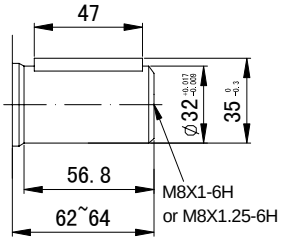
Square Spline
6 teeth
major $Ø30^{-0.02}_{-0.041}$
minor $Ø26^{-0.16}_{-0.37}$
teeth wide $6^{-0.05}_{-0.15}$



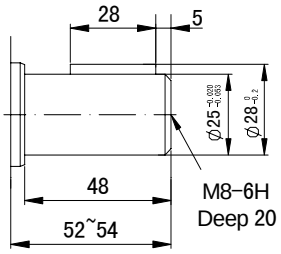
Straight Ø25
Flat 6.35



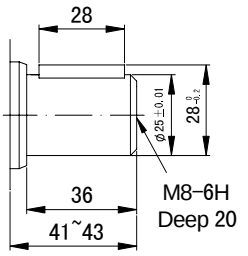
Straight Ø32
Flat 10



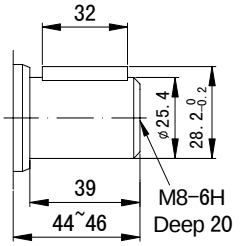
Straight Ø25
Flat 8



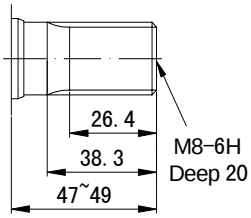
Straight Ø25
Flat 8



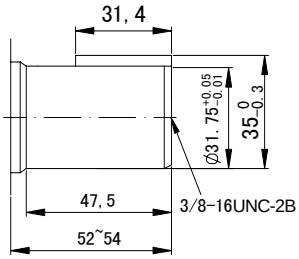
Straight Ø25.4
Flat 6.35



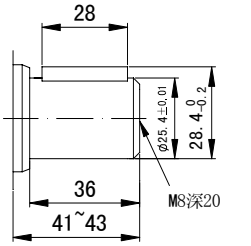
Square Spline
6 teeth
major Ø25.4
minor Ø21.5
teeth wide 6.25



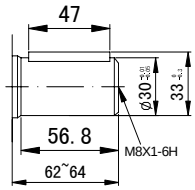
Straight Ø1.25"
Flat 7.963



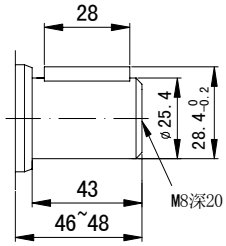
Straight Ø25.4
Flat 8



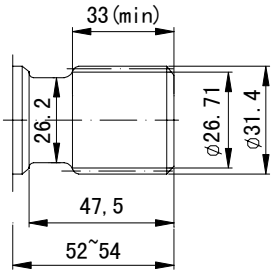
Straight Ø30
Flat 10



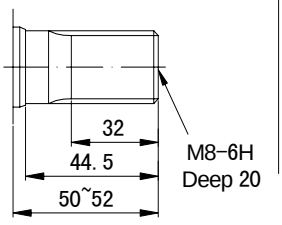
Straight Ø25.4
Flat 8



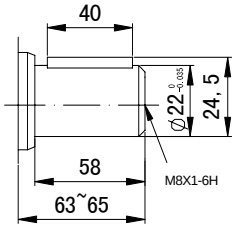
12/24 Involute
Spline, 14 teeth



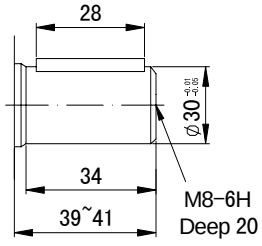
Square Spline
6 teeth
major $Ø30^{-0.02}_{-0.041}$
minor $Ø26^{-0.16}_{-0.37}$
teeth wide $6^{-0.05}_{-0.15}$



Straight Ø22
Flat 6



Straight Ø30
Flat 8



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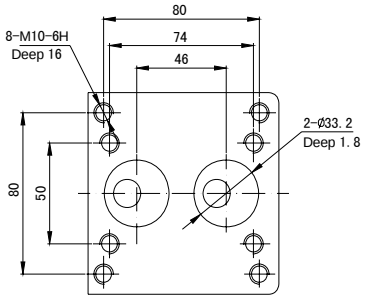
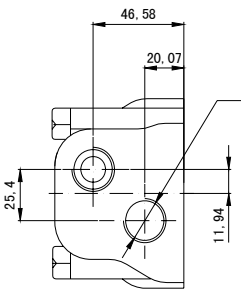
Dimensions port
SMS Series





0.875-14UNF-2B O-ring
Case Drain 0.4375-20UNF O-ring

G1/2″
Case Drain G1/4″

G1/2″
Case Drain M14X1.5-6H

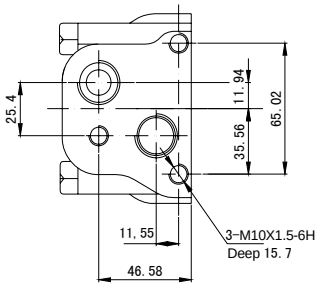
M22X1.5-6H
Case Drain M10X1-6H

G1/2″
Case Drain :None

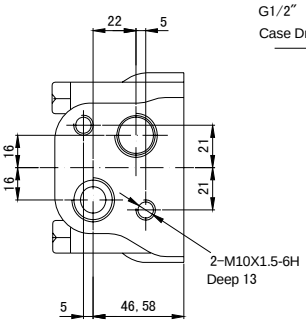
M20X1.5
Case Drain M14X1.5-6H

NPTF1/2″
Case Drain G1/4″

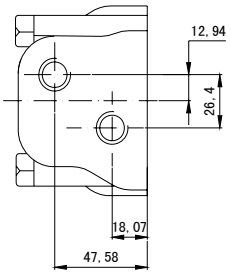
M22X1.5-6H
Case Drain M14X1.5-6H



G1/2″
Case Drain G1/4″

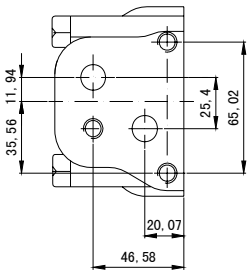


M14X1.5-6H
Case Drain M14X1.5-6H



2- Ø13
Case Drain M14X1.5-6H

2- Ø13
Case Drain 0.4375-20UNF, O-ring



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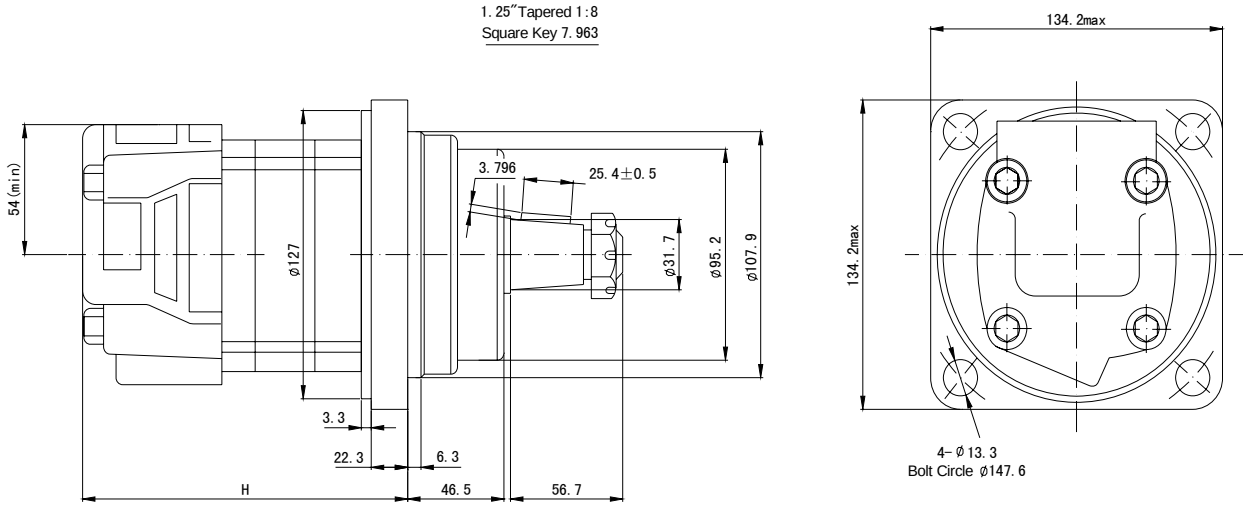
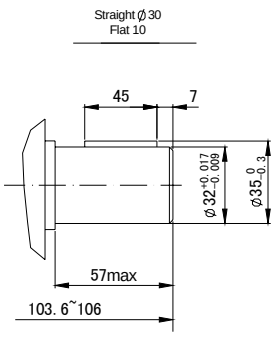
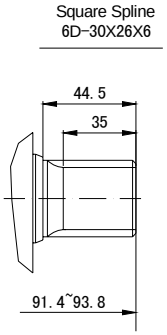
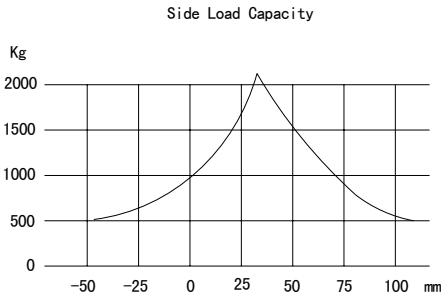
Dimensions
SMS Series Wheel Motor



Disp.cc/r	80	100	130	160	196	245	305	395	490
H mm	144	148	155	155	162	171	182	198	216







Port face and port combination same as standard motor
Standard rotation :CW -when A port pressurized
(view from the shaft end)

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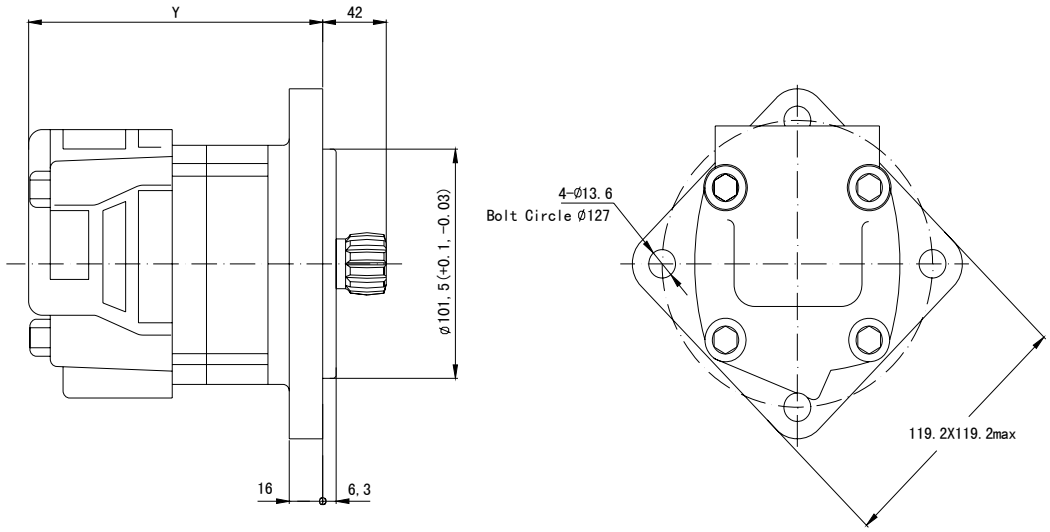
Dimensions

SMS Series Motor

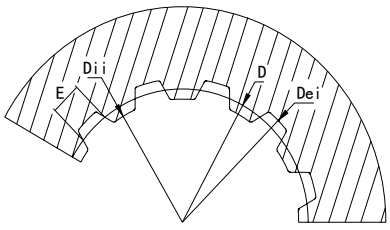


Displ. cc/r	80	100	130	160	195	245	305	395	490
Y(mm)	127	131	138	138	145	154	165	181	198

Port face and port combination same as standard motor
Standard rotation :CW –when A port pressurized
(view from the shaft end)

Internal Spline Data For The Attached Componet

Fillet Root Side Fit	mm	
Number of Teeth	Z	12
Diametral Pitch	DP	12/24
Pressure Angle	D	30
Pitch Dia.	D	Φ25.4
Major Dia.	D_{ei}	Φ28
Minor Dia.	D_{ii}	Φ23
Space Width	E	4.308



Hardering Specification : HRC62
Effective case depth 0.7

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Disc Valve Motors

Customer Order Information

SMS Series (Standard Motor)

Port	Output Shaft	Flange &Pilot	Displacement cc/r							
			80	100	130	160	195	245	305	395
Port M22X1.5 Case Drain M14X1.5	Straight Φ1" Flat Key 8	2 Bolt Flange, Pilot Φ82.55	182m0301	0302	0303	0304	0305	0306	0307	0308
		4 Bolt Flange, Pilot Φ82.55	182m0471	0472	0473	0474	0475	0476	0477	0478
	Straight Φ25 Flat Key 8, L=44	4 Bolt Flange, Pilot Φ82.55	182m0451	0452	0453	0454	0455	0456	0457	0458
	Straight Φ1.25" Flat Key 7.963	2 Bolt Flange, Pilot Φ82.55	182m0011	0012	0013	0014	0015	0016	0017	0018
	Straight Φ1" Flat Key 8	2 Bolt Flange, Pilot Φ82.55	182m0061	0062	0063	0064	0065	0066	0067	0068
	Straight Φ25 Flat Key 8	2 Bolt Flange, Pilot Φ82.55	182m0021	0022	0023	0024	0025	0026	0027	0028
	Straight Φ32 Flat Key 10	4 Bolt Flange, Pilot Φ82.55	182m0041	0042	0043	0044	0045	0046	0047	0048
		2 Bolt Flange, Pilot Φ82.55	182m0071	0072	0073	0074	0075	0076	0077	0078
	Square Spline 6D30X26X6, L=52.5	2 Bolt Flange, Pilot Φ82.55	182m1031	1032	1033	1034	1035	1036	1037	1038
		4 Bolt Flange, Pilot Φ82.55	182m1111	1112	1113	1114	1115	1116	1117	1118
	Square Spline 6D30X26X6, L=66.5	4 Bolt Flange, Pilot Φ82.55	182m1051	1052	1053	1054	1055	1056	1057	1058
	Square Spline 6D30X26X6, L=47, Spline Length 20	4 Bolt Flange, Pilot Φ82.55	182m1091	1092	1093	1094	1095	1096	1097	1098
	Square Spline 6D30X26X6, L=66.5, Spline Length 45	4 Bolt Flange, Pilot Φ82.55	182m1381	1382	1383	1384	1385	1386	1387	1388
	12/24 Involute Spline, 14 Teeth	2 Bolt Flange, Pilot Φ82.55	182m2411	2412	2413	2414	2415	2416	2417	2418
Port G1/2BSP Case Drain M14X1.5	Straight Φ25 Flat Key 6.35	2 Bolt Flange, Pilot Φ82.55	182m0151	0152	0153	0154	0155	0156	0157	0158
	Straight Φ25 Flat Key 8, L=44	2 Bolt Flange, Pilot Φ82.55	182m0461	0462	0463	0464	0465	0466	0467	0468
Port G1/2BSP Case Drain G1/4BSP	Straight Φ1.25" Flat Key 7.963 Shaft end M12	2 Bolt Flange, Pilot Φ82.55	182m0341	0342	0343	0344	0345	0346	0347	0348
	Straight Φ1" Flat Key 6.35	2 Bolt Flange, Pilot Φ82.55	182m0161	0162	0163	0164	0165	0166	0167	0168
	Straight Φ1.25" Flat Key 7.963	4 Bolt Flange, Pilot Φ82.55	182m0251	0252	0253	0254	0255	0256	0257	0258
	Square Spline 6D30X26X6, L=52.5	4 Bolt Flange, Pilot Φ82.55	182m1421	1422	1423	1424	1425	1426	1427	1428
	12/24 Involute Spline, 14 Teeth	4 Bolt Flange, Pilot Φ82.55	182m2241	2242	2243	2244	2245	2246	2247	2248

Disc Valve Motors

Customer Order Information

SMS Series (Standard Motor)

Port	Output Shaft	Flange &Pilot	Displacement cc/r							
			80	100	130	160	195	245	305	395
Port 7/8-14UNF O-ring, Case Drain 7/16-20UNF O-ring	Straight Φ1.25" Flat Key 7.963	4 Bolt Flange, Pilot Φ82.55	182m0271	0272	0273	0274	0275	0276	0277	0278
		2 Bolt Flange, Pilot Φ82.55	182m0441	0442	0443	0444	0445	0446	0447	0448
Manifold Port Face, Case Drain 7/16-20UNF	Straight Φ1.25" Flat Key 7.963	4 Bolt Flange, Pilot Φ82.55	182m0351	0352	0353	0354	0355	0356	0357	0358
		2 Bolt Flange, Pilot Φ82.55	182m0361	0362	0363	0364	0365	0366	0367	0368
	Straight Φ1" Flat Key 8	2 Bolt Flange, Pilot Φ82.55	182m0051	0052	0053	0054	0055	0056	0057	0058
	Straight Φ32 Flat Key 10	4 Bolt Flange, Pilot Φ82.55	182m0121	0122	0123	0124	0125	0126	0127	0128

SMS Series (Wheel Motor)

Port	Output Shaft	Flange &Pilot	Displacement cc/r							
			80	100	130	160	195	245	305	395
Port M22X1.5, Case Drain M14X1.5	Straight Φ32 Flat Key 10	4 Bolt Wheel Motor Flange, Pilot Φ4.25"	604-4371	-4372	-4373	-4374	-4375	-4376	-4377	-4378
	Square Spline 6D-30X26X6, L=92.2	4 Bolt Wheel Motor Flange, Pilot Φ4.25"	604-1101	-1102	-1103	-1104	-1105	-1106	-1107	-1108
	1.25" Tapered Shaft (1:8) Flat Key 7.963	4 Bolt Wheel Motor Flange, Pilot Φ4.25"	604-4141	-4142	-4143	-4144	-4145	-4146	-4147	-4148
Port G1/2BSP, Case Drain G1/4BSP	Straight Φ32 Flat Key 10	4 Bolt Wheel Motor Flange, Pilot Φ4.25"	105-1134	-1135	-1136	-1137	-1138	-1139	-1140	-1141
Port 7/8-14UNF O-ring, Case Drain 7/16-20UNF O-ring	1.25" Tapered Shaft (1:8) Flat Key 7.963	4 Bolt Wheel Motor Flange, Pilot Φ4.25"	105-1001	-1002	-1003	-1004	-1005	-1006	-1007	-1060
Manifold Port Face Case Drain 7/16-20UNF O-ring	1.25" Tapered Shaft (1:8) Flat Key 7.963	4 Bolt Wheel Motor Flange, Pilot Φ4.25"	604-4391	-4392	-4393	-4394	-4395	-4396	-4397	-4398

Customer Order Information

SMS Series (Large Flange Motor)

Port	Output Shaft	Flange &Pilot	Displacement cc/r					
			130	160	195	245	305	395
Port M22X1.5, Case Drain M14X1.5	Straight Φ32 Flat Key 10	4 Bolt Flange, Pilot Φ100	630m0021	0022	0023	0024	0025	0026
	Square Spline 6D30X26X8	4 Bolt Flange, Pilot Φ100	181m1001	1002	1003	1004	1005	1006
Manifold Port Face, No Case Drain	Square Spline 6D30X26X8	4 Bolt Flange, Pilot Φ100	181m1011	1012	1013	1014	1015	1016
	Square Spline 6D30X26X6	4 Bolt Flange, Pilot Φ100	181m1031	1032	1033	1034	1035	1036

Disc Valve Motors

SMS Series Customer Order Information

1	2	3	4	5	6	7	8	9	10	11
S	M	S								

If the specification is not in the table or you have specific requirements,please contact us.

Pos.1 : S ——— Power
Pos.2 : M ——— Motor
Pos.3 : S ——— S series
Pos.4,5: Displacement cc/r
0 1 ——— 80
0 2 ——— 100
0 3 ——— 130
0 4 ——— 160
0 5 ——— 195
0 6 ——— 245
0 7 ——— 305
0 8 ——— 395
0 9 ——— 490
Pos.6 : Flange And Pilot
A ——— 4 Bolt Large Square flange , pilot Φ100
B ——— 2 Bolt Rhomb flange, Pilot Φ82.55
C ——— 4 Bolt Square flange ,pilot Φ82.55
D ——— 4 Bolt Wheel flange pilot Φ107.9
E ——— 6 Bolt Rhomb flange ,pilot Φ82.55
F ——— 2 Bolt Rhomb flange, Pilot Φ80
Pos. 7, 8
0 1 ——— Square Spline 6D-30X26X8
0 2 ——— Straight Φ25,flat key 8
0 3 ——— Square Spline 6D-30X26X6
0 4 ——— Straight Φ1", Woodruff key Φ25.4X6.35
0 5 ——— Straight Φ31.75,flat key 7.96
0 6 ——— Cone shaft Φ31.75,flat key 7.96
0 7 ——— Shaft Φ31.75 Splined key 14-DP12/24
0 8 ——— Square Spline 6D-25.4X21.5X6.25
0 9 ——— Straight Φ1",flat key 6.35
1 0 ——— Straight Φ30,flat key 10
1 1 ——— Straight Φ22,flat key 6
Pos. 9
A ——— 2-0.875-14unf,Drain port 0.4375-20unf
B ——— 2-G1/2",Drain port G1/4"
C ——— 2-M22X1.5, Drain port M14X1.5 Manifold Mount 3-M10
D ——— 2-G1/2",Drain port M14X1.5
E ——— 2-G1/2",Drain port G1/4", Manifold Mount 2-M10
F ——— 2-M14X1.5.Drain port M14X1.5,
G ——— 2-M22X1.5.Drain port M10X1
H ——— 2-G1/2",Drain port None,
I ——— 2-M20X1.5, Drain port M14X1.5
J ——— 2-NPTF 1/2, Drain port G1/4.

Pos.10 Rotation Direction
A ——— Standard
B ——— Opposite
Pos.11
A ——— No Paint
B ——— Blue (standard)
C ——— Black (standard)