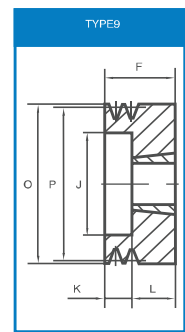
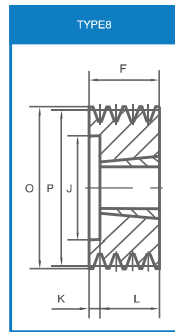
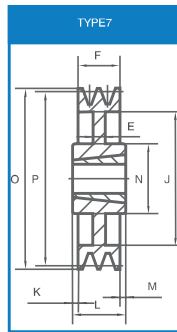
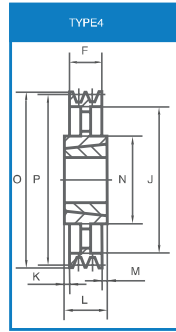
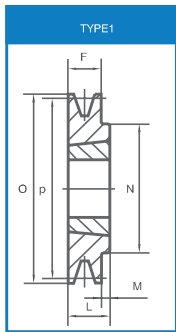


Taper Bore SPZ

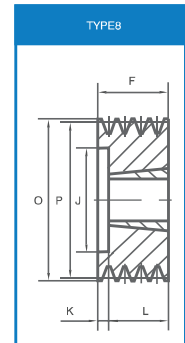
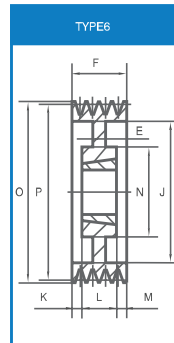
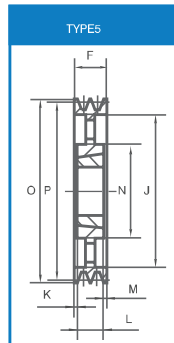
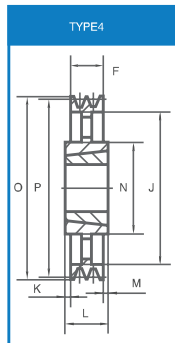
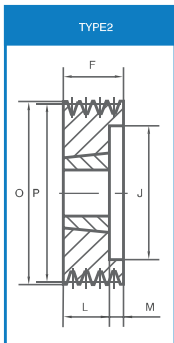
SPZ/01	GROOVES	P.D	O.D	TYPE	BUSH	MAX BORE	E	F	J	K	L	M	N
SPZ 50-01	1	50.0	54.0	9	1008	25	—	37	28	15	22	—	—
SPZ 56-01	1	56.0	60.0	9	1008	25	—	37	33	15	22	—	—
SPZ 60-01	1	60.0	64.0	9	1008	25	—	22	—	—	22	—	—
SPZ 63-01	1	63.0	67.0	1	1108	28	—	16	—	—	22	6	62
SPZ 67-01	1	67.0	71.0	1	1108	28	—	16	—	—	22	6	62
SPZ 71-01	1	71.0	75.0	1	1108	28	—	16	—	—	22	6	62
SPZ 75-01	1	75.0	79.0	1	1108	28	—	16	—	—	22	6	62
SPZ 80-01	1	80.0	84.0	1	1210	32	—	16	—	—	25	9	75
SPZ 85-01	1	85.0	89.0	1	1210	32	—	16	—	—	25	9	75
SPZ 90-01	1	90.0	94.0	1	1210	32	—	16	—	—	25	9	75
SPZ 95-01	1	95.0	99.0	1	1210	32	—	16	—	—	25	9	75
SPZ100-01	1	100.0	104.0	1	1210	32	—	16	—	—	25	9	75
SPZ106-01	1	106.0	110.0	1	1610	42	—	16	—	—	25	9	75
SPZ112-01	1	112.0	116.0	1	1610	42	—	16	—	—	25	9	75
SPZ118-01	1	118.0	122.0	1	1610	42	—	16	—	—	25	9	75
SPZ125-01	1	125.0	129.0	1	1610	42	—	16	—	—	25	9	75
SPZ132-01	1	132.0	136.0	1	1610	42	—	16	—	—	25	9	75
SPZ140-01	1	140.0	144.0	1	1610	42	—	16	—	—	25	9	75
SPZ150-01	1	150.0	154.0	1	1610	42	—	16	—	—	25	9	75
SPZ160-01	1	160.0	164.0	1	1610	42	—	16	—	—	25	9	75
SPZ170-01	1	170.0	174.0	7	1610	42	8	16	141	—	25	9	75
SPZ180-01	1	180.0	184.0	7	1610	42	8	16	151	—	25	9	75
SPZ190-01	1	190.0	194.0	7	1610	42	8	16	161	—	25	9	75
SPZ200-01	1	200.0	204.0	7	2012	50	8	16	171	—	32	16	95
SPZ224-01	1	224.0	228.0	7	2012	50	8	16	195	—	32	16	95
SPZ250-01	1	250.0	254.0	4	2012	50	—	16	221	8	32	8	95
SPZ280-01	1	280.0	284.0	4	2012	50	—	16	251	8	32	8	95
SPZ315-01	1	315.0	319.0	4	2012	50	—	16	286	8	32	8	95
SPZ355-01	1	355.0	359.0	4	2012	50	—	16	326	8	32	8	95
SPZ400-01	1	400.0	404.0	4	2012	50	—	16	371	8	32	8	95
SPZ450-01	1	450.0	454.0	4	2517	60	—	16	421	14.5	45	14.5	120



SPZ/02	GROOVES	P.D	O.D	TYPE	BUSH	MAX BORE	E	F	J	K	L	M	N
SPZ 50-02	2	50.0	54.0	9	1008	25	—	49	28	27	22	—	—
SPZ 56-02	2	56.0	60.0	9	1108	28	—	49	35	27	22	—	—
SPZ 60-02	2	60.0	64.0	9	1108	28	—	49	36	27	22	—	—
SPZ 63-02	2	63.0	67.0	8	1108	28	—	28	40	6	22	—	—
SPZ 67-02	2	67.0	71.0	8	1108	28	—	28	42	6	22	—	—
SPZ 71-02	2	71.0	75.0	8	1108	28	—	28	42	6	22	—	—
SPZ 75-02	2	75.0	79.0	8	1210	32	—	28	51	3	25	—	—
SPZ 80-02	2	80.0	84.0	8	1210	32	—	28	51	3	25	—	—
SPZ 85-02	2	85.0	89.0	8	1610	42	—	28	56	3	25	—	—
SPZ 90-02	2	90.0	94.0	8	1610	42	—	28	61	3	25	—	—
SPZ 95-02	2	95.0	99.0	8	1610	42	—	28	66	3	25	—	—
SPZ100-02	2	100.0	104.0	8	1610	42	—	28	71	3	25	—	—
SPZ106-02	2	106.0	110.0	8	1610	42	—	28	77	3	25	—	—
SPZ112-02	2	112.0	114.0	8	1610	42	—	28	83	3	25	—	—
SPZ118-02	2	118.0	122.0	8	1610	42	—	28	89	3	25	—	—
SPZ125-02	2	125.0	129.0	8	1610	42	—	28	96	3	25	—	—
SPZ132-02	2	132.0	136.0	8	1610	42	—	28	103	3	25	—	—
SPZ140-02	2	140.0	144.0	8	1610	42	—	28	111	3	25	—	—
SPZ150-02	2	150.0	154.0	1	2012	50	—	28	—	—	32	4	95
SPZ160-02	2	160.0	164.0	7	2012	50	—	28	—	—	32	4	95
SPZ170-02	2	170.0	174.0	7	2012	50	10	28	141	—	32	4	95
SPZ180-02	2	180.0	184.0	7	2012	50	10	28	151	—	32	4	95
SPZ190-02	2	190.0	194.0	7	2012	50	10	28	161	—	32	4	95
SPZ200-02	2	200.0	204.0	7	2012	50	10	28	171	—	32	4	95
SPZ224-02	2	224.0	228.0	7	2012	50	10	28	195	—	32	4	95
SPZ250-02	2	250.0	254.0	4	2012	50	—	28	221	2	32	2	95
SPZ280-02	2	280.0	284.0	4	2012	50	—	28	251	2	32	2	95
SPZ315-02	2	315.0	319.0	4	2012	50	—	28	286	2	32	2	95
SPZ355-02	2	355.0	359.0	4	2012	50	—	28	326	2	32	2	95
SPZ400-02	2	400.0	404.0	4	2517	50	—	28	371	8.5	45	8.5	120
SPZ450-02	2	450.0	454.0	4	2517	60	—	28	421	8.5	45	8.5	120

Taper Bore SPZ

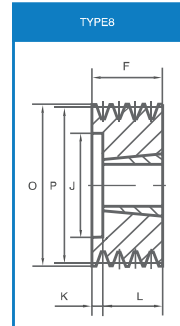
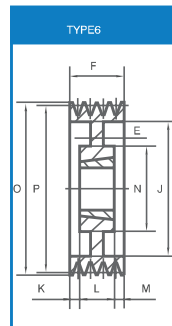
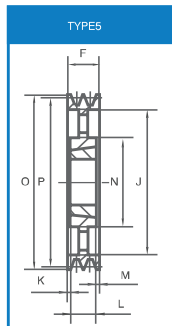
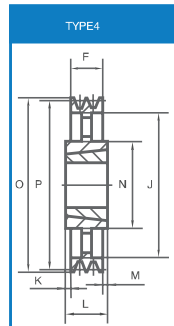
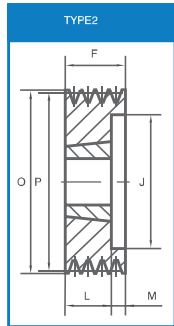
SPZ/03	GROOVES	P.D	O.D	TYPE	BUSH	MAX BORE	E	F	J	K	L	M	N
SPZ 63-03	3	63.0	67.0	8	1108	28	—	40	40	18	22	—	—
SPZ 67-03	3	67.0	71.0	8	1108	28	—	40	42	18	22	—	—
SPZ 71-03	3	71.0	75.0	8	1108	28	—	40	42	18	22	—	—
SPZ 75-03	3	75.0	79.0	8	1210	32	—	40	48	15	25	—	—
SPZ 80-03	3	80.0	84.0	8	1210	32	—	40	51	15	25	—	—
SPZ 85-03	3	85.0	89.0	8	1610	42	—	40	56	15	25	—	—
SPZ 90-03	3	90.0	94.0	8	1610	42	—	40	61	15	25	—	—
SPZ 95-03	3	95.0	99.0	8	1610	42	—	40	66	15	25	—	—
SPZ 100-03	3	100.0	104.0	8	1610	42	—	40	71	15	25	—	—
SPZ 106-03	3	106.0	110.0	8	1610	42	—	40	77	15	25	—	—
SPZ 112-03	3	112.0	116.0	8	2012	50	—	40	83	8	32	—	—
SPZ 118-03	3	118.0	122.0	8	2012	50	—	40	89	8	32	—	—
SPZ 125-03	3	125.0	129.0	2	2012	50	—	40	96	—	32	8	—
SPZ 132-03	3	132.0	136.0	2	2012	50	—	40	103	—	32	8	—
SPZ 140-03	3	140.0	144.0	2	2012	50	—	40	111	—	32	8	—
SPZ 150-03	3	150.0	154.0	2	2012	50	—	40	121	—	32	8	—
SPZ 160-03	3	160.0	164.0	2	2012	50	—	40	131	—	32	8	—
SPZ 170-03	3	170.0	174.0	6	2012	50	12	40	141	—	32	8	95
SPZ 180-03	3	180.0	184.0	6	2012	50	12	40	151	—	32	8	95
SPZ 190-03	3	190.0	194.0	6	2012	50	12	40	161	4	32	4	95
SPZ 200-03	3	200.0	204.0	6	2012	50	12	40	171	4	32	4	95
SPZ 224-03	3	224.0	228.0	6	2012	50	12	40	195	4	32	4	95
SPZ 250-03	3	250.0	254.0	5	2012	50	—	40	221	4	32	4	95
SPZ 280-03	3	280.0	284.0	4	2517	50	—	40	251	2.5	45	2.5	120
SPZ 315-03	3	315.0	319.0	4	2517	50	—	40	286	2.5	45	2.5	120
SPZ 355-03	3	355.0	359.0	4	2517	60	—	40	326	2.5	45	2.5	120
SPZ 400-03	3	400.0	404.0	4	2517	60	—	40	371	2.5	45	2.5	120
SPZ 450-03	3	450.0	454.0	4	2517	60	—	40	421	2.5	45	2.5	120
SPZ 500-03	3	500.0	504.0	4	2517	60	—	40	471	2.5	45	2.5	120
SPZ 630-03	3	630.0	634.0	4	2517	60	—	40	601	2.5	45	2.5	120
SPZ 800-03	3	800.0	804.0	4	3020	75	—	40	771	5.5	51	5.5	150



SPZ/04	GROOVES	P.D	O.D	TYPE	BUSH	MAX BORE	E	F	J	K	L	M	N
SPZ 80-04	4	80.0	84.0	8	1210	32	—	52	51	27	25	—	—
SPZ 85-04	4	85.0	89.0	8	1610	42	—	52	56	27	25	—	—
SPZ 90-04	4	90.0	94.0	8	1610	42	—	52	61	27	25	—	—
SPZ 95-04	4	95.0	99.0	8	1610	42	—	52	66	27	25	—	—
SPZ100-04	4	100.0	104.0	8	1610	42	—	52	71	27	25	—	—
SPZ106-04	4	106.0	110.0	8	1610	42	—	52	77	27	25	—	—
SPZ112-04	4	112.0	116.0	8	2012	50	—	52	83	20	32	—	—
SPZ118-04	4	118.0	122.0	8	2012	50	—	52	89	20	32	—	—
SPZ125-04	4	125.0	129.0	2	2012	50	—	52	96	—	32	20	—
SPZ132-04	4	132.0	136.0	2	2012	50	—	52	103	—	32	20	—
SPZ140-04	4	140.0	144.0	2	2012	50	—	52	111	—	32	20	—
SPZ150-04	4	150.0	154.0	2	2517	60	—	52	121	—	45	7	—
SPZ160-04	4	160.0	164.0	2	2517	60	—	52	131	—	45	7	—
SPZ170-04	4	170.0	174.0	6	2517	60	—	52	141	—	45	7	—
SPZ180-04	4	180.0	184.0	6	2517	60	—	52	151	—	45	7	—
SPZ190-04	4	190.0	194.0	6	2517	60	15	52	161	3.5	45	3.5	120
SPZ200-04	4	200.0	204.0	6	2517	60	15	52	171	3.5	45	3.5	120
SPZ224-04	4	224.0	228.0	6	2517	60	15	52	195	3.5	45	3.5	120
SPZ250-04	4	250.0	254.0	5	2517	60	—	52	221	3.5	45	3.5	120
SPZ280-04	4	280.0	284.0	5	2517	60	—	52	251	3.5	45	3.5	120
SPZ315-04	4	315.0	319.0	5	2517	60	—	52	286	3.5	45	3.5	120
SPZ355-04	4	355.0	359.0	5	2517	60	—	52	326	3.5	45	3.5	120
SPZ400-04	4	400.0	404.0	5	2517	60	—	52	371	3.5	45	3.5	120
SPZ450-04	4	450.0	454.0	5	3020	75	—	52	421	0.5	51	0.5	150
SPZ500-04	4	500.0	504.0	5	3020	75	—	52	471	0.5	51	0.5	150
SPZ630-04	4	630.0	634.0	4	3030	75	—	52	601	12	76	12	150
SPZ800-04	4	800.0	804.0	4	3030	75	—	52	771	12	76	12	150

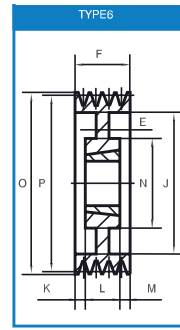
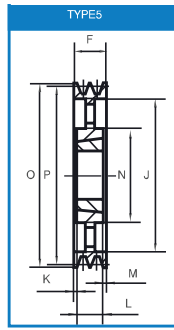
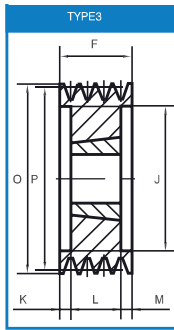
Taper Bore SPZ

SPZ/05	GROOVES	P.D	O.D	TYPE	BUSH	MAX BORE	E	F	J	K	L	M	N
SPZ 85-05	5	85.0	89.0	8	1610	42	—	64	60	39	25	—	—
SPZ 90-05	5	90.0	94.0	8	1610	42	—	64	61	39	25	—	—
SPZ 95-05	5	95.0	99.0	8	1610	42	—	64	66	39	25	—	—
SPZ100-05	5	100.0	104.0	8	2012	50	—	64	71	32	32	—	—
SPZ106-05	5	106.0	110.0	8	2012	50	—	64	77	32	32	—	—
SPZ112-05	5	112.0	116.0	8	2012	50	—	64	83	32	32	—	—
SPZ118-05	5	118.0	122.0	8	2012	50	—	64	89	32	32	—	—
SPZ125-05	5	125.0	129.0	8	2012	50	—	64	96	32	32	—	—
SPZ132-05	5	132.0	136.0	8	2517	60	—	64	103	19	45	—	—
SPZ140-05	5	140.0	144.0	2	2517	60	—	64	111	—	45	19	—
SPZ150-05	5	150.0	154.0	2	2517	60	—	64	121	—	45	19	—
SPZ160-05	5	160.0	164.0	2	2517	60	—	64	131	—	45	19	—
SPZ170-05	5	170.0	174.0	6	2517	60	—	64	141	—	45	19	—
SPZ180-05	5	180.0	184.0	6	2517	60	—	64	151	—	45	19	—
SPZ190-05	5	190.0	194.0	6	2517	60	15	64	161	9.5	45	9.5	120
SPZ200-05	5	200.0	204.0	6	2517	60	15	64	171	9.5	45	9.5	120
SPZ224-05	5	224.0	228.0	6	2517	60	15	64	195	9.5	45	9.5	120
SPZ250-05	5	250.0	254.0	5	2517	60	—	64	221	9.5	45	9.5	120
SPZ280-05	5	280.0	284.0	5	2517	60	—	64	251	9.5	45	9.5	120
SPZ315-05	5	315.0	319.0	5	2517	60	—	64	286	9.5	45	9.5	120
SPZ355-05	5	355.0	359.0	5	2517	60	—	64	326	9.5	45	9.5	120
SPZ400-05	5	400.0	404.0	5	3020	75	—	64	371	6.5	51	6.5	150
SPZ450-05	5	450.0	454.0	5	3020	75	—	64	421	6.5	51	6.5	150
SPZ500-05	5	500.0	504.0	4	3030	75	—	64	471	6	76	6	156
SPZ630-05	5	630.0	634.0	4	3030	75	—	64	601	6	76	6	156
SPZ800-05	5	800.0	804.0	4	3535	90	—	64	771	12.5	89	12.5	170



SPZ/06	GROOVES	P.D	O.D	TYPE	BUSH	MAX BORE	E	F	J	K	L	M	N
SPZ 90-06	6	90.0	94.0	8	1610	42	—	76	61	51	25	—	—
SPZ 95-06	6	95.0	99.0	8	1610	42	—	76	66	51	25	—	—
SPZ100-06	6	100.0	104.0	8	2012	50	—	76	71	44	32	—	—
SPZ106-06	6	106.0	110.0	8	2012	50	—	76	77	44	32	—	—
SPZ112-06	6	112.0	116.0	8	2012	50	—	76	83	44	32	—	—
SPZ118-06	6	118.0	122.0	8	2517	60	—	76	89	31	45	—	—
SPZ125-06	6	125.0	129.0	8	2517	60	—	76	96	31	45	—	—
SPZ132-06	6	132.0	136.0	8	2517	60	—	76	103	31	45	—	—
SPZ140-06	6	140.0	144.0	2	2517	60	—	76	111	—	45	31	—
SPZ150-06	6	150.0	154.0	2	2517	60	—	76	121	—	45	31	—
SPZ160-06	6	160.0	164.0	2	2517	60	—	76	131	—	45	31	—
SPZ170-06	6	170.0	174.0	2	2517	60	—	76	141	—	45	31	—
SPZ180-06	6	180.0	184.0	2	2517	60	—	76	151	—	45	31	—
SPZ190-06	6	190.0	194.0	6	2517	60	15	76	161	15.5	45	15.5	120
SPZ200-06	6	200.0	204.0	6	2517	60	15	76	171	15.5	45	15.5	120
SPZ224-06	6	224.0	228.0	6	2517	60	15	76	195	15.5	45	15.5	120
SPZ250-06	6	250.0	254.0	5	2517	60	—	76	221	15.5	45	15.5	120
SPZ280-06	6	280.0	284.0	5	2517	60	—	76	251	15.5	45	15.5	120
SPZ315-06	6	315.0	319.0	5	2517	60	—	76	286	15.5	45	15.5	120
SPZ355-06	6	355.0	359.0	5	2517	60	—	76	326	15.5	45	15.5	120
SPZ400-06	6	400.0	404.0	5	3030	75	—	76	371	—	76	—	156
SPZ450-06	6	450.0	454.0	5	3030	75	—	76	421	—	76	—	156
SPZ500-06	6	500.0	504.0	5	3030	75	—	76	471	—	76	—	170
SPZ630-06	6	630.0	634.0	4	3535	90	—	76	601	6.5	89	6.5	170
SPZ800-06	6	800.0	804.0	4	3535	90	—	76	771	6.5	89	6.5	170

Taper Bore SPZ



SPZ/08	GROOVES	P.D	O.D	TYPE	BUSH	MAX BORE	E	F	J	K	L	M	N
SPZ140-08	8	140.0	144.0	3	2517	60	—	100	111	27.5	45	27.5	—
SPZ150-08	8	150.0	154.0	3	2517	60	—	100	121	27.5	45	27.5	—
SPZ160-08	8	160.0	164.0	3	2517	60	—	100	131	27.5	45	27.5	—
SPZ180-08	8	180.0	184.0	3	2517	60	—	100	151	27.5	45	27.5	—
SPZ200-08	8	200.0	204.0	3	3020	75	—	100	171	24.5	51	24.5	—
SPZ224-08	8	224.0	228.0	3	3020	75	—	100	195	24.5	51	24.5	—
SPZ250-08	8	250.0	254.0	6	3020	75	20	100	221	24.5	51	24.5	150
SPZ280-08	8	280.0	284.0	5	3020	75	—	100	251	24.5	51	24.5	150
SPZ355-08	8	355.0	359.0	5	3030	75	—	100	326	12	76	12	156
SPZ400-08	8	400.0	404.0	5	3030	75	—	100	371	12	76	12	156
SPZ450-08	8	450.0	454.0	5	3535	90	—	100	421	5.5	89	5.5	156