

... the coupling that pays for itself



Type L Coupling



Spiders - Synthetic Rubber,
Polyurethane, Hytrel, Bronze



Type TSW Coupling



SW Elements - Synthetic Rubber,
Polyurethane, Hytrel



Type RRS Spacer Coupling

With its unique wrap around Synthetic rubber connecting element, the Snap Wrap coupling eliminates the need for dismantling the connected equipment while inspecting or replacing the element - a major benefit when downtime on machinery can run into huge amounts.

Combined with a range of prebored hubs, a modular hub design and a spacer option, the Snap Wrap coupling is unsurpassed for quality, flexibility, speed of installation and maintenance.

6 ways the "Snap Wrap" coupling can help pay for itself:

1. Prebored hubs Hubs bored and keyed to standard IEC motor shaft sizes at no extra cost.
2. Snap Wrap element Ease of inspection and replacement within 5 minutes.
3. Modular hub design Both Models , SW & RRS use the same hubs.
4. Spacer coupling RRS spacer model is available for pump applications.
5. Fully machined hubs Balance, ease of alignment and smooth contact surface for elements are assured.
6. Any environment Water, oil, greases & dust do not affect performance.

SELECTION PROCEDURE**(a) Service Factor**

Determine appropriate SERVICE FACTOR from table A.

(b) Design Power

Multiply running power of driven machinery by the service factor. This gives DESIGN POWER which is used as a basis for coupling selection.

(c) Coupling Size

Refer respective table for your required coupling type and read from the appropriate speed column until a power equal to or greater than the DESIGN POWER is found.

(d) Bore Size

Refer respective coupling 'TECHNICAL DATA' table to check that the required bores can be accommodated.

EXAMPLE

A coupling is required to transmit 5 kW from an electric motor which runs at 100 rpm to a centrifugal pump for 12 hours a day. The motor shaft diameter is 60 mm. and the pump shaft diameter is 55 mm.

(a) Service Factor

From Table A the service factor is 1.0

(b) Design Power

Design Power $5 \times 1.0 = 5 \text{ kW}$

(c) Coupling Size

Read from 100 rpm in the speed column of 'TECHNICAL DATA' table. The first power to exceed the DESIGN POWER of 5 kW is 5.6 kW.

The size of the coupling specified in the first column corresponding to 5.6 kW is SW-276.

(d) Bore Size

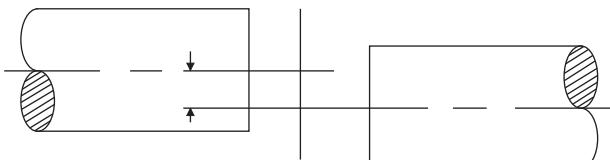
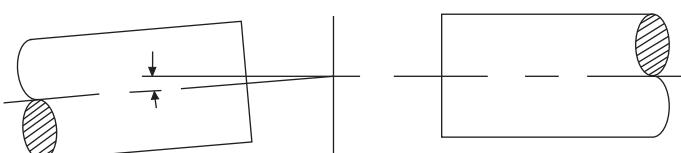
Max. Bore for coupling size SW-276 is 75 mm.

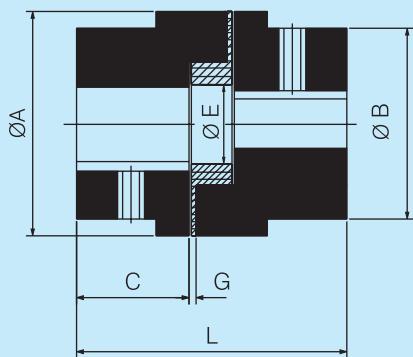
This shows that both the shaft diameters are within the range.

A : SERVICE FACTORS

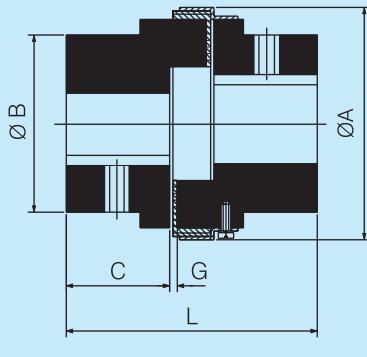
SPECIAL CLASSES	Type of Driving Unit					
	Electric Motors			Internal Combustion Engines Steam Engines Water Turbines		
	Hours per day duty		Hours per day duty			
Driven Machine Class	8 and under	over 8 to 16 inclusive	over 16	8 and under	over 8 to 16 inclusive	over 16
UNIFORM Agitators, Brewing machinery, Centrifugal Blowers, Conveyors, Centrifugal Fans and Pumps, Generators, Sewage disposal Equipments.Evaporators, Feeders, Textile machines, Wood working machines.	1.00	1.00	1.00	1.00	1.10	1.10
MODERATE SHOCK* Clay working machinery, Crane Hoists, Laundry machinery, Machine Tools, Rotary Mills, Paper Mill machinery, Non-uniformly loaded centrifugal pumps, Rotary Screens, Centrifugal Compressors, Shredders, Printing presses, Oil industry, Mixers, Food industry, Beaters, Bucket elevators, Gear pumps, Wood working machinery, Textile machinery	1.10	1.10	1.20	1.20	1.25	1.25
HEAVY SHOCK* Reciprocating Conveyors, Crushers, Shakers, Metal Mills, Rubber machinery (Banbury Mixers and Mills) Reciprocating Compressors, Welding Sets, Freight & passenger elevators, Cooling tower fans, Hammer mills, Reciprocating pumps, Vibrating screens, Winches, Wire drawing machines.	1.25	1.40	1.60	1.60	1.80	2.00

* It is recommended that keys with top clearance are fitted for applications where load fluctuation is expected.

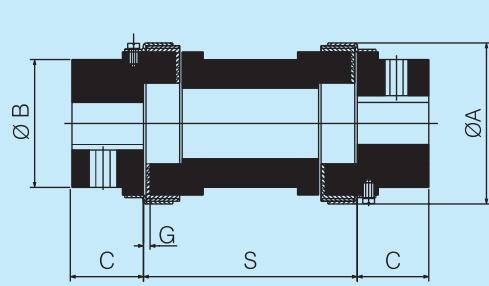
MISALIGNMENT CAPABILITY**PARALLEL 0.4 mm****ANGULAR - 1°**



TYPE L



TYPE SW



S = STD. SPACER LENGTH

TYPE RRS

TECHNICAL DATA

Coupling		Power Rating						Pilot Drill Size	Max. Bore	ØA		Length thru' Bore "C"	ØB	Gap G	ØE	S	#Overall Length "L" for (SW/L)
		Synthetic Rubber		Polyurethane		Hytrex				SW/RRS	L						
Type	Size	Rated Torque (Nm)	kW@ 100 rpm	Rated Torque (Nm)	kW@ 100 rpm	Rated Torque (Nm)	kW@ 100 rpm										
L	035	0.38	0.004	0.6	0.01	1.0	0.01	-	10	-	16	6.5	16	1	-	-	21
	050	2.80	0.03	4.2	0.04	7.0	0.07	5	16	-	27	15	27	1	-	-	42
	070	4.90	0.05	7.4	0.08	12.3	0.13	9	20	-	34.5	19	34.5	2	-	-	51
	◎ 075	9.80	0.1	14.7	0.15	24.5	0.26	9	22	-	44.5	21	44.5	2	-	-	55
	■ 075	9.80	0.1	14.7	0.15	24.5	0.26	-	22	-	44.5	21	39	2	-	-	55
L SW RRS	095	21.10	0.22	31.7	0.33	52.8	0.55	-	28	65	54	25	49	2	19	90,100,140	63
	099	46.40	0.49	69	0.73	116	1.2	-	30	78	65	27	51	2	27		72
	100	46.40	0.49	69	0.73	116	1.2	-	35	78	65	35	57	2	27	90,	88
	110	89	0.93	133	1.4	222	2.3	-	42	96	85	43	76	3	35	100,	108
	150	141	1.5	211	2.2	352	3.7	-	48	111	96	45	80	3	35	140,	115
	190	190	2.0	285	3.0	475	5.0	-	60	129	115	54	102	3	45	180	133
	225	265	2.8	397	4.2	662	6.9	-	65	142	127	64	111	3	45		153
	226	327	3.4	490	5.1	817	8.6	25	70	153	137	70	119	3	51	100,140,180	178
L SW	276	532	5.6	798	8.4	1330	13.9	25	75	173	157	80	127	3	60	-	200
	280	782	8.2	1173	12.3	1955	20.5	30	80	208	192	80	140	3	70	-	200
	295	1279	13.4	1918	20.1	3197	33.5	30	95	253	237	95	162	3	80	-	238
	2955	2132	22.3	3198	33.5	5330	55.8	30	105	253	237	108	180	3	80	-	264
SW	300	3047	31.9	4570	47.9	7617	79.8	30	105	272	-	115	180	3	-	-	283
	350	4308	45.1	6462	67.7	10770	112.8	30	115	323	-	128	200	3	-	-	309

All dimensions are in mm.

For vertical installation contact RATHI.

For RRS/SW maintain gap 'G' at the time of assembly.

Maximum bores can be increased in case of steel hubs. Consult manufacturer

Material : Sintered iron for sizes 035 to 075

Aluminum for sizes 050 to 110 & for all RRS spacers.

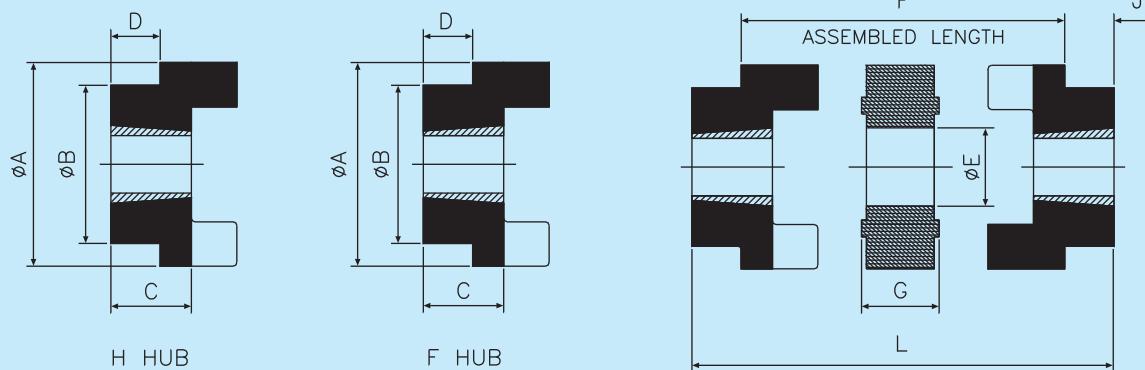
■ 075 - Aluminium

◎ 075 - Sintered Iron

For RRS, L = S + 2C

Cast Iron for sizes 095 to 350.

L Type Spider : Polyurethane - for Sizes 50 to 295
Hytrex - for Sizes 50 to 225



A : DIMENSIONAL DATA

Size TL/TSW	Bush ■			Ø A		Ø B	Ø E	F	G	D	C	J	L								
	Size	● Max. Bore		TL	TSW																
		mm	Inch																		
099	1008	25	1	65	78	55	27	44	18	10.5	23.5	29	65								
100	1108	28	1 1/8	65	78	60	27	44	18	10.5	23.5	29	65								
110	1210	32	1 1/4	85	96	83	35	48	22	13.5	26.5	38	75								
150	1210	32	1 1/4	96	111	92	35	55	25	11.5	26.5	38	78								
190	1610	42	1 5/8	115	129	102	45	57	25	10.5	26.5	38	78								
225	2012	50	2	127	142	115	45	57	25	17.5	33.5	42	92								
226	2012	50	2	137	153	115	51	70	38	17.5	33	42	105								
276	2517	60	2 1/2	157	173	124	60	74	40	29.5	46	48	133								
280	2517	60	2 1/2	192	208	124	70	74	40	29.5	46	48	133								
295	3020	75	3	237	253	159	80	88	48	32.5	52	55	153								
2955	3020	75	3	237	253	159	80	88	48	32.5	52	55	153								
* 300	3020	75	3	-	272	180	-	99	-	29.5	52	55	158								
* 350A	3525	100	4	-	323	200	-	103	-	41.5	66	67	186								
* 350	3535	90	3 1/2	-	323	200	-	103	-	64.0	88.5	67	231								

* 300, 350A & 350 sizes are available in TSW design only.

B : TECHNICAL DATA

J is the wrench clearance required for tightening and loosening the bush on the shaft. The use of shortened key will allow this dimension to be reduced. Couplings can be supplied with F/F or H/H or F/H flange as required.

Weight is for flange without Bore.

■ Rathi couplings are supplied with taper bore suitable to the bush size specified in this column.

● For detailed information about taper bush bore, please refer Taper Bush Catalogue.

TL couplings are supplied with spider.

TSW couplings are supplied with snap-wrap.

Rating Note : Rating will be as per L/SW.

C : SPIDER / SW ELEMENT MATERIAL

Codes	Materials	Features	Properties		
			Colour	Hardness	Temperature
N	Synthetic Rubber	Synthetic Rubber, a highly flexible insert material that is oil resistant, is our standard elastomer. It resembles natural rubber in resilience and elasticity.	Black	80 SHA	-40°C to 100°C
U	Polyurethane	Urethane has greater torque capability than Synthetic Rubber and offers good resistance to oil and chemicals. However, this material provides less dampening effect.	Orange	90 SHA	-34°C to 71°C
H	Hytrel	Hytrel is a flexible elastomer designed for high torque and high temperature operations. Has an excellent Resistance to oil and chemicals. It is best used in continuous load applications rather than cyclic or on/off service.	Natural White	98 SHA	-51°C to 121°C
B	Bronze	Bronze is a rigid, porous, oil-impregnated metal insert exclusively for low speed (max. 250 RPM) applications requiring high torque capabilities. Bronze performance is not affected by water, oil, dirt. (Only L Type spiders sizes 50 to 225)	Bronze	65 HRB	-40°C to 232°C

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Distributor

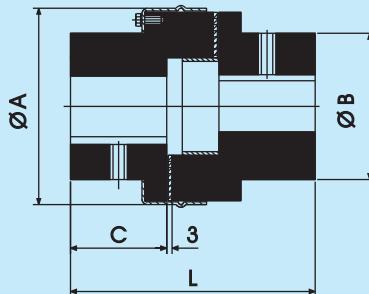
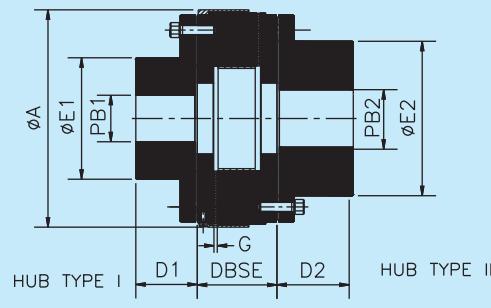


Special Features

Individual freefloating load cushions held in place by outside steel collar.
 Completely machined castings.
 Easy to assemble & disassemble.
 Cushions easily inspected at all times.
 Material of construction -
 C.I. for Size 307 to 367
 S.G. Iron Size 407 to 1117

Applications

For pumps in chemical industry, ideal for reciprocating pumps, diesel or gas engines, multiple generator sets and such heavy duty applications.


TYPE H

TYPE HR

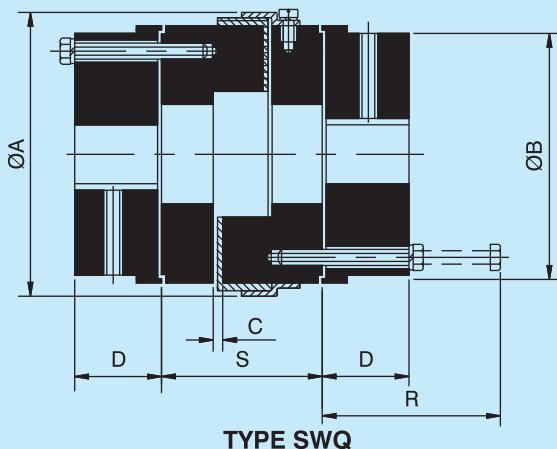
'H' TECHNICAL DATA

Size	Rated Torque Nm	kW at 100 rpm (Synthetic Rubber)	Bore		Outside Dia. ØA	Hub Dia. ØB	Length thru' Bore C	Overall Length L	Approx. weight in kg	
			Min.	Max.					Min. Bore	Max. Bore
H-307	5307	56	60	105	262	180	121	295	58	55
H-357	7124	75	60	115	288	197	127	314	73	67
H-367	9903	104	70	130	313	222	143	353	105	99

'HR' TECHNICAL DATA

Size	KW at 100 rpm			DBSE	Min. Bore		Max. Bore		Outside Dia. ØA	Hub Diameter		Length thru' Bore			
	Synthetic Rubber	PU	HYTREL		Hub Type I	Hub Type II	Hub Type I	Hub Type II		Hub Type I	Hub Type II	D1	D2		
HR-307	56	84	140	100	30	60	80	105	266	131	170	68	85		
HR-357	75	112	187	110	35	60	85	115	292	138	180	76	95		
HR-367	104	156	260	117	40	70	100	130	317	162	210	84	105		
HR-407	-	223	372	126	50	85	120	155	349	195	248	95	120		
HR-457	-	302	502	134	60	85	140	185	400	220	294	100	130		
HR-509	-	358	597	133	70	90	145	190	412	230	305	110	140		
HR-609	-	527	877	142	85	100	170	225	461	275	360	130	170		
HR-709	-	738	1230	162	90	100	190	265	524	300	425	140	195		
HR-809	-	-	1530	196	100	120	215	295	600	345	470	155	210		
HR-911	-	-	1770	216	110	170	265	340	667	420	545	190	240		
HR-1013	-	-	2644	218	195	-	360	-	805	540	-	340	-		
HR-1015	-	-	3665	235	215	-	420	-	910	630	-	340	-		
HR-1115	-	-	4450	245	240	-	500	-	960	750	-	375	-		
HR-1117	-	-	6807	276	290	-	600	-	1170	900	-	400	-		

- Maintain Gap 'G' = 3 mm for size HR - 457 & 6 mm for higher sizes at the time of assembly.
- Please specify hub type required.
- Non std. DBSE spacer available on request.
- For vertical installation contact RATHI.



SWQ TECHNICAL DATA

Coupling size	kW at 100 RPM (Synthetic)	DBSE S	Bore		Outside Diameter ØA	Length Thru Bore D	Adapter Diameter ØB	Minimum Bolt Clearance R
			Min.	Max.				
SWQ 095	0.22	100, 140 180	10	28	65	25	54	45
SWQ 100	0.49		10	38	78	30	65	50
SWQ 110	0.93		15	42	96	35	76	60
SWQ 150	1.49		15	48	111	40	90	70
SWQ 190	2.01		20	55	129	45	102	75
SWQ 225	2.76		20	65	142	50	115	90
SWQ 226	3.43	140, 180	25	70	153	50	134	92
SWQ 276	5.60		25	80	173	60	130	107
SWQ 280	8.20		30	80	208	60	130	70
SWQ 295	13.40		30	105	253	70	160	75
SWQ 2955	22.40		30	105	253	75	160	85
SWQ 300	31.90		30	115	272	80	180	95
SWQ 350	45.00		30	125	323	90	200	85

- Maintain gap C at the time of assembly where C = 2 mm, for SWQ - 095 to 100
= 3 mm, SWQ - 110 to SWQ - 350
- Pilot bores other than specified are available on request .
- Non std. spacer length available on request.
- For vertical installation contact RATHI.

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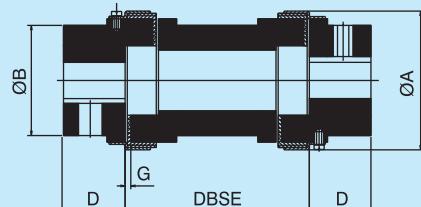
TYPE RRS



TYPE SWS



TYPE SWQ

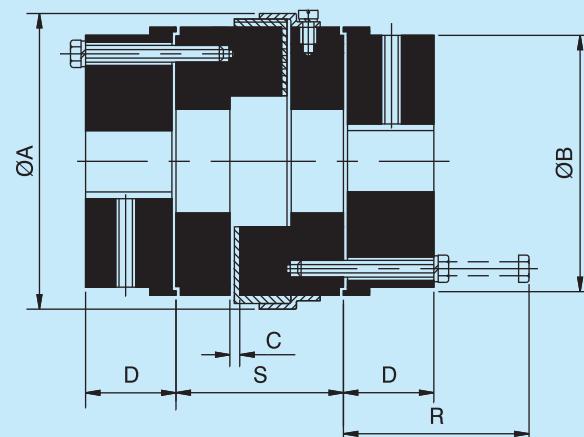
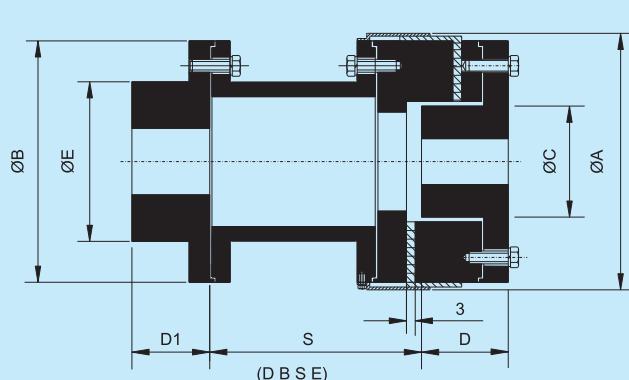


STD. DBSE
100, 140, 180 mm.

TECHNICAL DATA

Coupling Size	Power Rating								Bore		Ø A	Length Thru Bore 'D'	Ø B			
	Synthetic Rubber			Polyurethane												
	Rated Torque (Nm)	kW Capacity		Rated Torque (Nm)	kW Capacity				Min.	Max.						
		100 rpm	1500 rpm		100 rpm	1500 rpm	3000 rpm									
RRS - 095	21.1	0.22	3.30	6.6	31.65	0.33	4.95	9.9	-	28	65	25	49			
RRS - 099	46.4	0.49	7.35	14.7	69.60	0.73	11.03	22.05	-	30	78	27	51			
RRS - 100	46.4	0.49	7.35	14.7	69.60	0.73	11.03	22.05	-	35	78	35	57			
RRS - 110	89.0	0.93	13.95	27.9	133	1.40	20.93	41.85	-	42	96	43	76			
RRS - 150	141	1.49	22.35	44.7	211	2.24	33.53	67.05	-	48	111	45	80			
RRS - 190	190	2.01	30.15	60.3	285	3.02	45.23	90.45	-	60	129	54	102			
RRS - 225	265	2.76	41.40	82.3	397	4.14	62.10	123.50	-	65	142	64	111			
RRS - 226	327	3.43	51.45	102.9	490	5.15	77.18	154.40	25	70	153	70	119			

- All dimensions are in mm.
- For vertical installation contact RATHI.
- Material : Hubs - Cast Iron & Spacer - Aluminium
- Max. speeds for RRS 095 to 225-3600 rpm.
RRS 226 - 3000 rpm.
- Gap 'G' for RRS 095 to 100 - 2 mm
RRS 110 to 226 - 3 mm.
- Maintain gap 'G' at the time of assembly.
- Max. bores can be increased in case of steel hubs, consult Rathi.



TYPE SWS

TYPE SWQ

SWS TECHNICAL DATA

Coupling Size	Power Rating						Motor Side Bore		Pump Side Bore		O.D.		Hub Dia.		Length thru' Bore	
	Synthetic Rubber		Polyurethane		Hytrell											
	Rated Torque (Nm)	kW@ 100 rpm	Rated Torque (Nm)	kW@ 100 rpm	Rated Torque (Nm)	kW@ 100 rpm	Min.	Max.	Min.	Max.	ØA	ØB	ØC	ØE	D	D1
SWS 276	535	5.6	802	8.4	1337	14	25	75	24	42	173	154	70	130	60	60
SWS 280	783	8.2	1175	12.3	1958	20.5	30	80	28	55	208	189	90	130	65	60
SWS 295	1280	13.4	1920	20.1	3199	33.5	30	95	28	65	253	234	106	160	80	70
SWS 2955	2139	22.4	3209	33.6	5348	56	30	105	28	70	253	234	106	160	80	75
SWS 300	3046	31.9	4570	47.9	7616	79.75	30	105	28	75	272	251	122	180	88	80
SWS 350	4298	45.0	6446	67.5	10744	112.5	30	115	30	80	323	302	130	200	90	90

Note : Std. Spacer length 140, 180mm available. Non std. Spacer available on request.

SWQ TECHNICAL DATA

Coupling size	kW @100 RPM	DBSE	Bore		Outside Diameter ØA	Length Thru Bore D	Adapter Diameter ØB	Minimum Bolt Clearance R
			Min.	Max.				
SWQ 095	0.22	100, 140 180	10	28	65	25	54	45
SWQ 100	0.49		10	38	78	30	65	50
SWQ 110	0.93		15	42	96	35	76	60
SWQ 150	1.49		15	48	111	40	90	70
SWQ 190	2.01		20	55	129	45	102	75
SWQ 225	2.76		20	65	142	50	115	90
SWQ 226	3.43	140, 180	25	70	153	50	134	92
SWQ 276	5.60		25	80	173	60	130	107
SWQ 280	8.20		30	80	208	60	130	70
SWQ 295	13.40		30	105	253	70	160	75
SWQ 2955	22.40		30	105	253	75	160	85
SWQ 300	31.90		30	115	272	80	180	95
SWQ 350	45.00		30	125	323	90	200	85

- Maintain gap C at the time of assembly where C = 2 mm, for SWQ - 095 to 100
= 3 mm, SWQ - 110 to SWQ - 350
- Pilot bores other than specified are available on request.
- Non std. spacer length available on request.
- For vertical installation contact RATHI.

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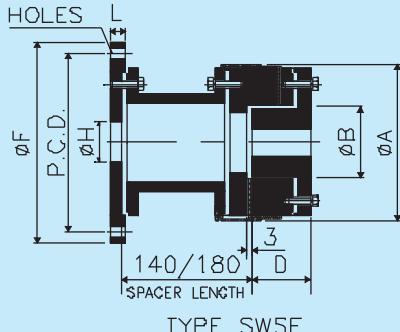
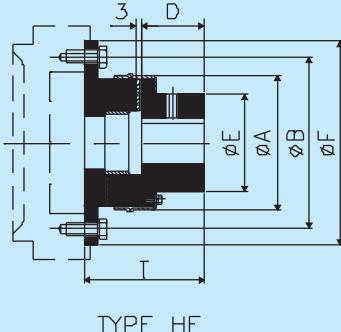
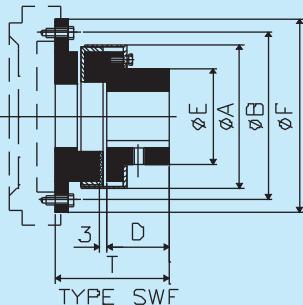
Distributor


SWF / HF
Special Features :

Std. duty flange type coupling. The couplings permit close coupled unit. Reduce assembly and installation time. Couplings eliminate extension shaft / jack shaft... Cut original equipment costs and can be mounted directly on engine flywheel.

Applications :

Equipment assembled with gasoline engines.


SWSF

TECHNICAL DATA (SWF / HF)

SAE Size (Inch)	*	Coupling Size	Synthetic Rubber	Flange Dimensions Inch				Hub Dimensions mm				
				Rating kW/100 rpm	O.D. Ø F	P.C.D. Ø B	No. of Holes	Hole Dia.	O.D. Ø A	Hub Dia. Ø E	Length thru' Bore D	Overall length T
											Min.	Max.
6 1/2"	5	SWF 226	3.43	8 1/2"	7 7/8"	6	21/64"	153	119	70	136	25 70
8"	—	SWF 226	3.43	10 3/8"	9 5/8"	6	13/32"	153	119	70	136	25 70
		SWF 276	5.60					173	127	80	148	25 75
10"	3&4	SWF 226	3.43	12 3/8"	11 5/8"	8	13/32"	153	119	70	136	25 70
		SWF 280	8.20					208	140	80	148	30 80
11 1/2"	2&3	SWF 190	2.01	13 7/8"	13 1/8"	8	13/32"	129	102	54	107	15 60
		SWF 225	2.76					142	111	64	117	15 65
		SWF 226	3.43					153	119	70	136	25 70
		SWF 276	5.60					173	127	80	148	25 75
		SWF 280	8.20					208	140	80	148	30 80
		SWF 2955	22.4					253	180	108	184	30 105
14"	1	SWF 226	3.43	18 3/8"	17 1/4"	8	17/32"	153	119	70	136	25 70
		SWF 276	5.60					173	127	80	148	25 75
		SWF 280	8.20					208	140	80	148	30 80
		SWF 295	13.4					253	162	95	171	30 95
		SWF 2955	22.4					253	180	108	184	30 105
		HF 307	56					262	180	121	202	60 105
16"	1/2	HF 307	56	20 3/8"	19 1/4"	8	17/32"	262	180	121	202	60 105
		HF 357	75					288	197	127	215	60 115

TECHNICAL DATA (SWSF)

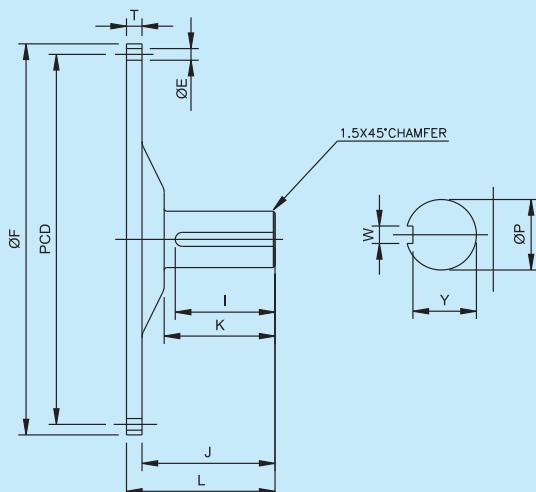
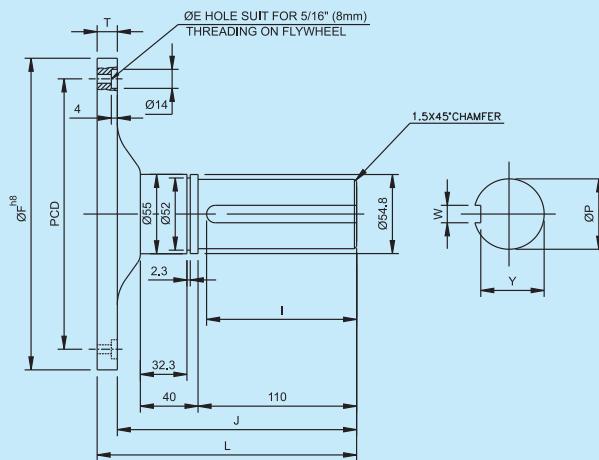
SAE Size (Inch)	Coupling Size	Rated Torque Nm	kW Rating at 1500 rpm	O.D. Ø A	Hub Dia. Ø B	Length thru' bore D	Bore	
							Min.	Max.
10"	226	327	51.45	153	60	60	25	36
	276	532	84.00	173	70	60	25	42
	280	782	123.00	208	90	65	30	55
11 1/2"	226	327	51.45	153	60	60	25	36
	276	532	84.00	173	70	60	25	42
	280	782	123.00	208	90	65	30	55
	2955	2132	336.00	253	106	80	30	65
14 "	226	327	51.45	153	60	60	25	36
	276	532	84.00	173	70	60	25	42
	280	782	123.00	208	90	65	30	55
	295	1279	201.00	253	106	80	30	65
	2955	2132	336.00	253	106	80	30	65

FLANGE DETAILS (FOR SWSF)

SAE size (Inch)	Flange O.D. Ø F	P.C.D. of Holes	No. of Holes	Hole Dia.	L mm	Ø H mm
10"	12 3/8"	11 5/8"	8	13/32"	16	T O
11 1/2"	13 7/8"	13 1/8"	8	13/32"	16	S U I T
14"	18 3/8"	17 1/4"	8	17/32"	20	

- All dimensions are in mm, unless otherwise noted.
- For vertical installation contact RATHI.

* Preferred SAE flywheel connection.


Fig. 'A'

Fig. 'B'

TECHNICAL DATA

SAE Model	T	L	Dia. P	I	J	K	SAE Flange (Inches)				Ref Fig.	
							Dia. F	PCD	No. of Holes	Dia. E		
SSI 6.5" X 1 5/8"	14	134	1.625"	90	120	105	8 1/2"	7 7/8"	6	21/64	Fig. A	
SSI 7.5" X 1 5/8"							9 1/2"	8 3/4"				
SSI 10" X 1.625"				176	206		12 3/8"	11 5/8"				
SSI 10" X 2"							13 7/8"	13 1/8"				
SSI 10" X 2" / MF		220	2.0"	90	120	105			8	13/32		
SSI 11.5" X 2"		134		176	206	191						
SSI 11.5" X 2" / MF		220		90	120	105						
SSI 14" X 3.5"	18	228		176	206	191	18 3/8"	17 1/4"				
SAE 6.5" X 42 mm	14	180	3.5"	42	100	166	150	8 1/2"	7 7/8"	6	8.4	Fig. B
SAE 6.5" X 48 mm				48								
SAE 6.5" X 1 5/8"(B)				1 5/8"								
SAE 7.5" X 48 mm				48						8		

SHAFT DIMENSIONS For Fig. 'A'

Dia P	W	+0.001" -0.000"	Y	+0.006" -0.000"
1.625"	0.437"	+0.0007" -0.0001"	1.433"	
2.00"	0.499"	+0.0008" -0.0001"	1.804"	
3.50"	0.874"	+0.0014" -0.0005"	3.124"	

SHAFT DIMENSIONS For Fig. 'B'

Dia P	W	+0.0" -0.2"	Y	+0.000" -0.043"
48"	42.5	+0.018" -0.002"	14	
42"	37	+0.018" -0.002"	12	
1 5/8"	1.439" 1.433"	+0.001" -0.000"	7/16"	+0.001" -0.000"

● All dimensions are in mm, otherwise specified.

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