

### **SNAP WRAP COUPLINGS**



#### ... the coupling that pays for itself



Type L Coupling



Type SW Coupling



Spiders - Synthetic Rubber, Polyurethane, Hytrel, Bronze



SW Elements - Synthetic Rubber, Polyurethane, Hytrel



Type RRS Spacer Coupling

ith its unique wrap around Nitrile 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.

2. Snap Wrap element

Ease of inspection and replacement within 5 minutes.

3. Modular hub design

Both Models , SW & RRS

4. Spacer coupling

use the same hubs.

RRS spacer model is available

E. Endler was alsternal

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.



## JAW - FLEX COUPLINGS TECHNICAL DATA



#### **SELECTION PROCEDURE**

#### (a) Service Factor

Determine appropriate SERVICE FACTOR from table A.

#### (b) Design Power

Convert application rating at 100 rpm by multiplying service factor. This gives DESIGN POWER which is used as a base 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 65 kW from an electric motor which runs at 1500 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

@100rpm =  $\frac{100}{1500}$  x 65kW x 1(SF) = 4.3 kW

#### (c) Coupling Size

Refer Table. The first power to exceed Design Power of 4.3kW is 5.6kW. The size of coupling specified in the first column corresponding to 5.6kW is SW - 276.

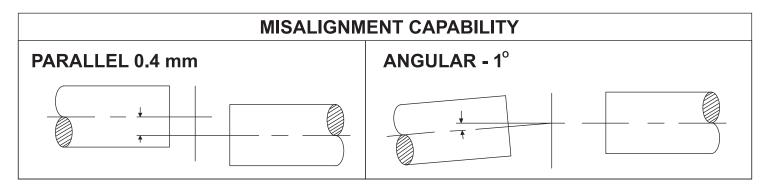
#### (d) Bore Size

Max. Bore for coupling size SW-276 is 75 mm. This shows that both the shaft diameters are within the range.

#### **A: SERVICE FACTORS**

	Type of Driving Unit								
SPECIAL CLASSES  For applications where substantial shock, vibration and torque fluctuations occur and for reciprocating machines e.g. internal combustion engines, piston pumps and compressors, refer to Rathi Transpower with full	Electr	ic Motors		Internal Combustion Engines Steam Engines Water Turbines Hours per day duty					
machine details	Hours p	er day dut	у						
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			

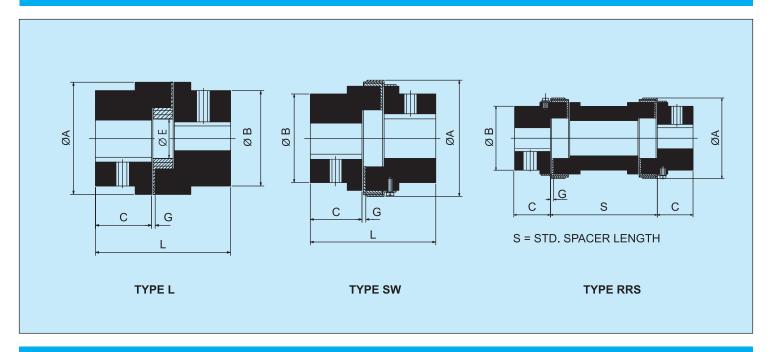
 $<sup>\</sup>bigstar \ \text{It is recommended that keys with top clearance are fitted for applications where load fluctuation is expected.}$ 





## JAW - FLEX COUPLINGS TYPE - L/SW/RRS





#### **TECHNICAL DATA**

		Power Rating						Dilat		~.		Length					#Overall
Cou	pling	Synthetic	Rubber	Polyure	thane	Hyt	rel	Pilot Drill	Max.	ØA	\	thru'	thru' ØB		Gap ØE	S	Length
Туре	Size	Rated Torque (Nm)	kW@ 100 rpm	Rated Torque (Nm)	kW@ 100 rpm	Rated Torque (Nm)	kW@ 100 rpm	Size	Bore	SW/ RRS	L	Bore "C"		G			"L" for (SW/L)
	035	0.38	0.004	0.6	0.01	1.0	0.01	-	10	-	16	6.5	16	1	-	-	21
L	050	2.80	0.03	4.2	0.04	7.0	0.07	-	16	ı	27	15	27	1	-	-	42
	070	4.90	0.05	7.4	0.08	12.3	0.13	-	20	-	34.5	19	34.5	2	_	-	51
	∘ 075	9.80	0.1	14.7	0.15	24.5	0.26	-	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
	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	69.6	0.73	116	1.2	-	30	78	65	27	51	2	27		72
L	100	46.40	0.49	69.6	0.73	116	1.2	-	35	78	65	35	57	2	27	90	88
SW	110	89	0.93	133.5	1.4	222.5	2.3	-	42	96	85	43	76	3	35	100	108
	150	141	1.5	211.5	2.2	352.5	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	397.5	4.2	662.5	6.9	-	65	142	127	64	111	3	45		153
	226	327	3.4	490.5	5.1	817.5	8.6	25	70	153	137	70	119	3	51	100,140,180	178
L	276	532	5.6	798	8.4	1330	13.9	25	75	173	157	80	127	3	60	-	200
sw	280	782	8.2	1173	12.3	1955	20.5	30	80	208	192	80	140	3	70	-	200
	295	1279	13.4	1918.5	20.1	3197.5	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	4570.5	47.9	7617.5	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.

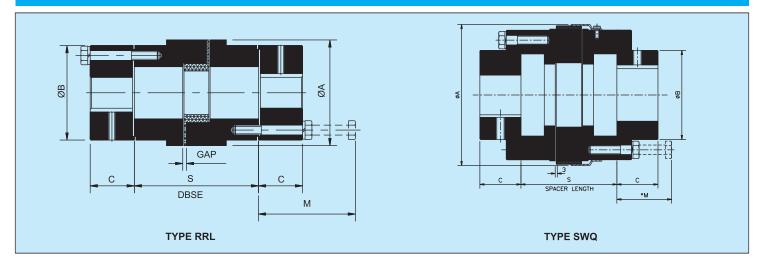
Maximum bores can be increased in case of steel hubs. Consult manufacturer

Material : Sintered iron for sizes 035 to 075 Aluminum for sizes 050 to 110 & for all RRS spacers. # For RRS, L = S + 2C Cast Iron for sizes 095 to 350.



# JAW - FLEX COUPLINGS TYPE - RRL/SWQ





#### **Special Features:**

Provides quick, easy disconnection from driving unit without disturbing drive shaft or piping, permits removal of equipment from line in three simple steps. Only two sets of bolts need to be removed.

#### **Applications:**

For pumps in chemical industry, ideal for reciprocating pumps, diesel or gas engines, multiple generator sets and other drives where rapid disconnection without disturbing the drive or driven unit is required.

#### **DIMENSIONAL DATA**

	Synthetic Rubber		DBSE							Length thru' Bore		Min. bolt clearance	
Size	Rated	kW at 100		<b>'S</b> '	Min.	Max. Bore		Outside Dia.	Adapter Hub Dia.	C		* M	
	Torque Nm	rpm	Min.	Std.	Bore	_	Std.	Ø A Ø B		_	Std.	<b>A</b>	Std.
RRL-095	21.1	0.22	75	90,100,140	10	_	28	54	54	_	25	_	45
RRL-100	46.4	0.49	75		10	_	38	65	65	_	30	_	50
RRL-110	89	0.93	75		15	24	42	85	76	35	35	36	60
RRL-150	141	1.5	75	90,100,140,180	15	32	48	96	90	40	40	48	70
RRL-190	190	2.00	75	22,123,110,100	15	38	55	115	102	45	45	48	75
RRL-225	265	2.8	90		15	42	65	127	115	50	50	54	90

▲ Triangular Adapter Body.

Size	Rated Torque	kW at 100	DBSE 'S'	Bore		Outside Dia.	Adapter Hub Dia.	Length thru' Bore	Min. bolt clearance	
	Nm	rpm		Min.	Max.	ØA	ØВ	С	* M	
SWQ-226	327	3.4		25	70	153	134	50	92	
SWQ-276	532	5.6		25	80	173	130	60	107	
SWQ-280	782	8.2	140, 180	30	80	208	130	60	70	
SWQ-295	1279	13.4	140, 160	30	105	253	160	70	80	
SWQ-2955	2132	22.3		30	105	253	160	75	80	
SWQ-300	3047	31.9		30	115	272	180	80	85	
SWQ-350	4308	45.1		30	125	323	200	90	85	

- Loosening & Tightening of bolts is possible within dimension 'M'.
- Maintain gap 2 mm for RRL-095, RRL-100 & 3 mm for all other sizes at the time of assembly.
- Non-standard (NSTD) DBSE available on request.
- For vertical installation contact RATHI.

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