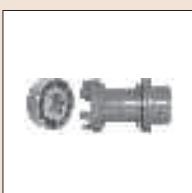
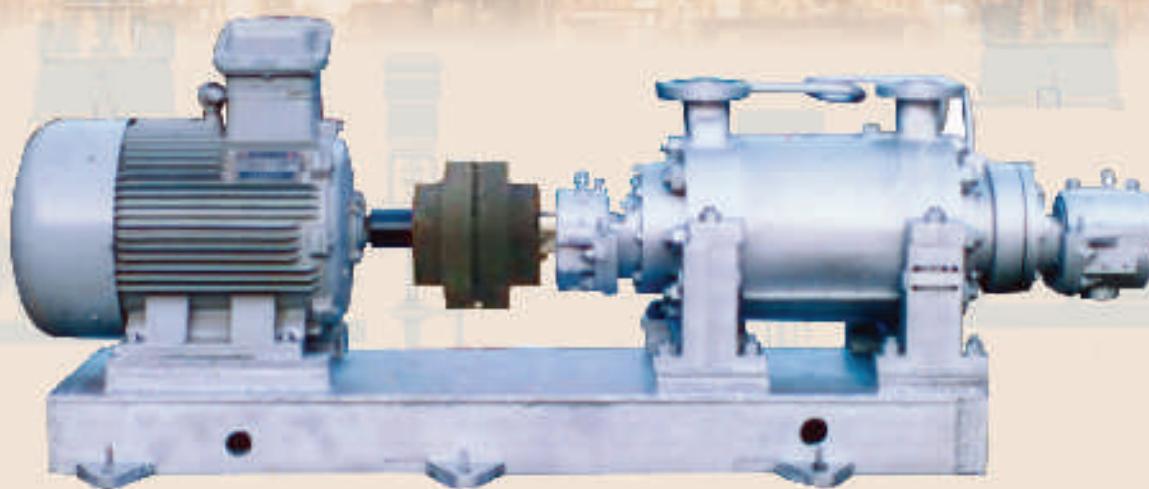


<sup>®</sup>**RATHI**

# COUPLINGS FOR PUMPS & COMPRESSORS



[www.rathicouplings.com](http://www.rathicouplings.com)

You've made the right choice, when you choose Rathi. The leading source for flexible Jaw Couplings. Rathi offers you much more – the widest range of power transmission products under one roof. From the smallest to the largest, be it jaw, gear, grid, disc or other special couplings. When it comes to size and selection you'll find them all in our range.

For more than 45 years, Rathi has been supplying Power Transmission Products to a World wide market. We follow world quality standards in our manufacturing. Rathi's uncompromising dedication to the interests of its global customer base has earned Rathi an International reputation for Engineering Integrity, Production Superiority, and Service Responsibility and has brought the coveted ISO 9001 Certification for manufacturing quality. Today, Rathi products are found all over the world.

**YOU NAME  
THE TYPE OF PUMP  
& COMPRESSOR,  
WE HAVE  
A COUPLING  
FOR IT**

**Water Pumps, Slurry Pumps, Sewage Pumps,  
Submersible Pumps, Back Pull out Pumps,  
Multistage Pumps, Split Case Pumps, API Pumps,  
Chemical Process Pumps, Hydraulic Pumps,  
Metering/Dosing Pumps, Gear Pumps,  
Paper Stock Pumps, Screw Pumps, Mono Pumps,  
Vacuum Pumps, Fire Pumps, High Pressure Pumps,  
Stationary Screw Compressors, Piston Compressors,  
Turbo Compressors and many more....**

## RATHI COUPLINGS : USERS WORLDWIDE

### UK

Flowserve Pumps  
Plenty Mirlees Pumps  
Sterling Fluid Systems  
Armstrong, Torres, Anchor  
Northern, Centrifugal, SR  
Marshall, Sulzer, Primax,  
Pump Services  
Weir Pumps  
Sterling Pumps  
SPP Pumps  
HMD Pumps  
Global Pumps  
Crest Pumps  
Primax Pumps  
Vanton Pumps  
Chemquip  
Chenvac Pumps  
Armstrong Pumps  
S R Pumps  
Torres Pumps

### EUROPE

Flow Serve - France  
Johnson Pump - France  
Sterling Pump  
BBA Pumps  
Goulds Pumps  
Pompen Bv.  
Wernert Pumps  
Ebara Pumps - Spain  
Johnson Pumps - Sweden  
K+H - Czech Republic  
ABS Pumps - Sweden

### OTHERS

Monoflo - Singapore  
Adnil - Singapore  
P.N.V. - Thailand  
Transwater - Malaysia  
RNE Pump - South Africa  
PNV Polytech - Thailand  
2nd Pump - South Africa  
Optimised - South Africa  
Al ansari - Oman  
Ali M Th. Alghanim - Kuwait  
Hauroken (Flow Serve) - Hong Kong  
Sigma Pumps - Bangladesh  
Helwan Diesel Engines - Egypt  
Al Farid - Egypt  
Techniq International - Dubai  
Arison Gulf - Dubai  
Danway - Dubai  
M.A.H.Y. Khoory - Dubai  
NAFFCO, Jebel Ali - Dubai  
Mohd Bin Masaood - Abu Dhabi  
Al Sagar Engg. - Abu Dhabi  
Saudi Pump Factory - Sau. Arabia  
KSB Pumps - Saudi Arabia  
Eners International - South Korea  
Chainex - Taiwan  
Homs Refinery, Homs - Syria  
General Fertilizer Co. - Syria  
King Golden Corp. - Taiwan  
Goulds Pumps - China  
Baniyas Refinery - Syria

### INDIA

Kirloskar Pumps  
Ebara Pumps  
Sulzer Pumps  
KSB Pumps  
Kishore Pumps  
Mather & Platt  
Willow Pumps  
Flow Serve  
WPIL (Worthington Pumps)  
Jyoti  
Johnson  
Roto Pumps  
Process Pumps  
Beacon Weir  
Microfinish Pumps  
Bharat Pumps & Compressors  
Chemlin Pumps & Valves  
Henabah Pumps  
Anticorrosive  
Tushaco Pumps  
SU Motors  
Voltas  
BDK Pumps  
Sam Pumps  
B.H.E.L  
Calama Pumps  
Akay  
Greaves  
Blue Star  
ITT Pumps

### AUSTRALIA

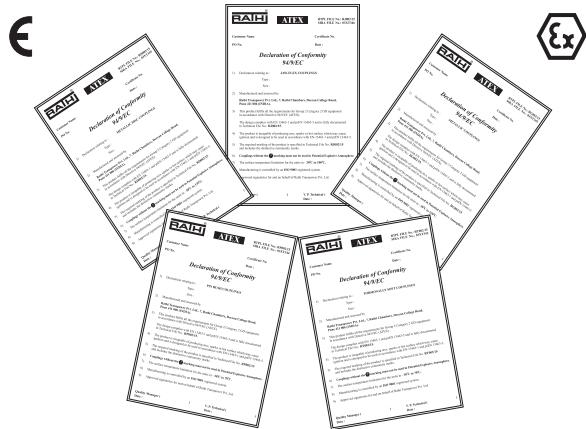
KSB Ajax Pumps  
All Pumps  
ASM Pumps  
Diesel Parts & Service  
BKB Pumps  
Ebsray Pumps  
Kelair Pumps  
Malcolm Thompson Pumps  
Pump Engineers  
Regent Pumps  
Sihi Pumps  
Flowserve  
Southern Cross Pumps  
Dyna Pumps  
ITT Flygt  
Skyline Pumps  
Southwest Pumps  
Sykes Pumps  
Weir Engineering  
Style Industries

**QUALITY SYSTEM**



ISO-9001:2008

**PRODUCT**



ATEX : Sira03XT342 to Sira03XT346

**RATHI COUPLINGS: APPLICATION DATA SHEET**

**1. OPERATING CONDITIONS**

(a) Driver equipment :	Electric Motor <input type="checkbox"/>	Turbine <input type="checkbox"/>	I.C. Engine* <input type="checkbox"/>
	any other pl. Specify _____		
	*No. of engine cylinders > 1 / 2 / 3 / 4 / 5 / 6		
(b) Driven equipment :	Centrifugal / Reciprocating Pump: any other pl. Specify _____		
(c) No. of start-stops :	Frequent <input type="checkbox"/>	Moderate <input type="checkbox"/>	Rare <input type="checkbox"/>
(d) Hours per day duty :	8 and under <input type="checkbox"/>	Over 8 to 16 <input type="checkbox"/>	Over 16 <input type="checkbox"/>
(e) Operating temp :	Normal Ambient temp / any other pl. Specify _____		
(f) Suggested S. F. By customer if any :	_____		

**2. APPLICATION**

(a) kW <input type="text"/>	HP <input type="text"/>	RPM <input type="text"/>
(b) Shaft dia : Ø <input type="text"/>	Driver <input type="text"/>	Driven <input type="text"/>
Tolerance on FB / KW - Std Ø <input type="text"/> H7 / KW <input type="text"/> JS9 or Specify _____		
(c) Distance between shaft ends (DBSE) :		
(d) IC Engine Flange details: SAE No.: <input type="text"/> OR No. of holes - <input type="text"/> (Fly Wheel) P. C. D. - <input type="text"/> Hole dia - <input type="text"/>		

**3. CUSTOMER REQUIREMENTS**

- Suggested / required type of coupling (if any): \_\_\_\_\_
- Dynamic Balancing Required (as per ISO 1940): Std. Gr. 6.3 / Gr. 2.5 Specify \_\_\_\_\_
- Material Requirement : Std.  Specify
- Any other specific requirement : API  671  or  610
- Quantity :

**Note :** Enquiry Data Sheet available online, visit [www.rathicouplings.com](http://www.rathicouplings.com)

COUPLING CATEGORY			FEATURES			APPLICATIONS								
JAW FLEX (STRAIGHT JAW)	TYPE	Non-Spacer	With Spacer	GENERAL			API	ATEX	Non-spark	Slide vane rotary vacuum pumps	Root Vacuum pumps	Stationary Screw Compressors	Piston compressors / turbo compressors	Centrifugal pumps
L/SW	RRS/SWS	Fully machined Hubs. Inherence Balanced Eyeball alignment - Single Ease of Inspection & rubber part replacement in 5 min. No down time Low initial, operation & replacement cost No lubrication - Long life Spiders available in synthetic rubber, PU & Hytrel L/SW/RRS parts are same Low Inventory - Economical Available with Taper Bush												
RN	RNS(H)	Simple to install & easy maintenance Low weight and low moment of inertia No Lubrication - Long life Flexible elements available in synthetic rubber & PU Varying stiffness characteristics High internal damping capacity Available with Taper Bush												
RFC	Refer Note	Simplicity of construction - Both hubs are same Simple / easy assly. & maintenance Provides torsional vibration isolation & damping Low cost No lubrication Long life Available with Taper Bush												
RRJ	Refer Note	Axial Plug in, backlash free Machined all over - Inherently balanced Electrically insulated Spiders available in 2 hardness Blind assembly Varying stiffness suitable for damping vibrations No Lubrication - Long life												
RB	RBS	Compact – Close coupled Independent Running of prime cover Special barrel shaped bushes provide varying stiffness - Available in Rubber, PU Simple in construction, easy to install No lubrication - Long life - Economical Inspection and replacement of bushes without disturbing original alignment												
RC	RCS	High Torque capacity, compact size, low weight Independent running of prime cover Easy to assemble & Maintain - No lubrication - Long life - Economical Reduces vibrations & noise arising from severe torque fluctuations Cone rings available in rubber & PU Inspection & replacement of cone rings without disturbing original alignment Available with Taper Bush												

COUPLING CATEGORY			FEATURES			APPLICATIONS									
TYPE	TYPE	Non-Spacer	With Spacer	GENERAL			API	ATEX	Non-spark	Slide vane rotary vacuum pumps	Root Vacuum pumps	Stationary Screw Compressors	Piston compressors / turbo compressors	Centrifugal pumps	
SLEEVE-FLEX	RBW			<b>Refer Note</b>	Torsionally soft couplings Double engagement coupling Dampen vibrations & absorb shocks No lubrication - Long Life No Maintenance Most suitable for safety of equipment										
TYRE-FLEX	T/TO			<b>RST</b>	Torsionally soft couplings Absorbs vibrations & impact loads Max. Angular misalignment than any other type No lubrication Long life Available with Taper Bush										
GEAR-FLEX	RGD/RGS			<b>RGDS/RGSS</b>	High power to weight ratio Conforms to AGMA Standard Half coupling can be replaced with any AGMA Brand Compact Assembly Temperature resistance upto 120° - Require lubrication Large bore capacity to suit rating Teeth - Triple Crowned Economical										
DISC-O-FLEX	LMK			<b>LM</b>	High power-to-weight ratio - light weight No lubrication - long life High speed & high temperature Long spacer lengths available 2 hub designs to accommodate large shafts										
	<b>Refer Note</b>			<b>EM</b>	Plug in Design - Easy Installation Incorporates Anti-flail design feature Floating shaft coupling Backlash free High power to weight ratio High speed - high temperature 4 hub designs to accommodate large shafts	<b>610 &amp; 671</b>									
	<b>Refer Note</b>			<b>EMT/ EMD</b>	High Speed / High power coupling Incorporates anti-flail backlash free High speed - high temperature	<b>610 &amp; 671</b>									
	<b>Refer Note</b>			<b>RSK</b>	Plug in Design - Easy Installation Incorporates Anti-flail design feature Floating shaft coupling Back lash free High power to weight ratio High speed - high temperature 4 hub designs to accommodate large shafts Interchangeable with other brands	<b>610 &amp; 671</b>									

**Note:** Couplings are not regularly used in these versions. For specific requirement if any, Consult Rathi Transpower Pvt. Ltd.



# COUPLINGS: SELECTION CHART

## STANDARD PUMPS - NON SPACER TYPE

4 POLE / 1500 RPM

			SERVICE FACTOR 1.0									SERVICE FACTOR 1.5									
Motor Frame Size (50 Hz)	Shaft Size (mm)	Power		Elastomeric							Metallic	Elastomeric							Metallic		
		KW	HP	L/SW	RFC(B)	RRJ	RB	RC	RN(B)	RBW	T/TO(B)	L/SW	RFC(B)	RRJ	RB	RC	RN(B)	RBW	T/TO(B)		
D63	11	0.18	0.24	95	7	19	105-3	20	68	3	4	10	95	7	19	105-3	20	68	3	4	10
D71	14	0.37	0.50	95	7	19	105-3	20	68	3	4	10	95	7	19	105-3	20	68	3	4	10
D80	19	0.75	1.01	95	7	19	105-3	20	68	3	4	10	95	7	19	105-3	20	68	3	4	10
D90 S	24	1.10	1.47	95	7	24	105-3	30	68	4	4	10	95	7	24	105-3	30	68	4	4	10
D90 L	24	1.50	2.01	95	7	24	105-3	30	68	4	4	10	95	7	24	105-3	30	68	4	4	10
D100 L	28	3	4.02	95	7	28	105-3	30	80	5	4	10	95	7	28	105-3	30	80	5	4	10
D112 M	28	4	5.36	99	9	28	105-3	30	80	5	5	10	99	9	28	105-3	30	80	5	5	10
D132 S	38	5.50	7.37	110	9	38	116-4	38	95	7	5	10	110	9	38	116-4	38	95	7	5	10
D132 M	38	7.50	10.05	110	9	38	116-4	38	95	7	5	10	110	9	38	116-4	38	95	7	5	10
D160 M	42	11	14.75	110	11	42	125-4	42	95	7	6	10	110	11	42	125-4	42	95	7	6	10
D160 L	42	15	20.11	150	11	42	125-4	42	95	8	6	10	150	11	42	125-4	42	110	8	6	10
D180 M	48	18.50	24.80	150	11	48	144-6	48	110	8	7	10	150	11	48	144-6	48	125	8	7	10
D180 L	48	22	29.49	150	13	48	144-6	48	110	9	7	10	150	13	48	144-6	48	125	9	7	10
D200 L	55	30	40.21	190	13	55	162-6	58	125	9	8	15	190	13	55	162-6	58	140	9	8	15
D225 SC	60	37	49.60	225	15	65	162-6	70	140	10	8	15	225	15	65	162-6	70	140	10	8	15
D225 MC	60	45	60.32	226	15	65	162-6	70	140	10	8	15	226	15	65	162-6	70	160	10	8	15
D250 SC	70	55	73.73	276	15	75	178-6	70	180	11	9	20	276	15	75	178-6	70	180	11	9	20
D250 MC	70	78	104.56	276	18	75	178-6	70	180	11	9	20	276	18	75	178-6	70	180	11	9	20
D280 SC	80	90	120.64	280	18	90	198-10	85	200	12	10	20	280	18	90	198-10	85	200	12	10	20
D280 MC	80	110	147.45	280	18	90	198-10	85	200	12	10	20	280	18	90	198-10	85	200	12	10	20
D315 SC	85	132	176.94	295	23	90	228-11	85	200	13	11	25	295	23	90	228-11	85	200	13	11	25
D315 MC	85	150	201.07	295	23	90	228-11	85	200	13	12	25	295	23	90	228-11	85	225	13	12	25
D315 MB	85	185	247.99	295	23	90	228-11	85	200	13	12	25	295	23	90	228-11	85	225	13	12	25
D355/2	100	200	268.10	295	23	90	252-12	105	250	13	12	30	295	23	90	252-12	105	-	13	12	30
D400/2	110	250	335.12	350	28	90	285-11	120	-	-	14	30	350	28	90	285-11	120	-	-	14	30

## STANDARD PUMPS - NON SPACER TYPE

2 POLE / 3000 RPM

			SERVICE FACTOR 1.0									SERVICE FACTOR 1.5									
Motor Frame Size (50 Hz)	Shaft Size (mm)	Power		Elastomeric							Metallic	Elastomeric							Metallic		
		KW	HP	L/SW	RFC(B)	RRJ	RB	RC	RN(B)	RBW	T/TO(B)	L/SW	RFC(B)	RRJ	RB	RC	RN(B)	RBW	T/TO(B)		
D63	11	0.18	0.24	95	7	19	105-3	20	68	3	4	10	95	7	19	105-3	20	68	3	4	10
D71	14	0.37	0.50	95	7	19	105-3	20	68	3	4	10	95	7	19	105-3	20	68	3	4	10
D80	19	1.10	1.47	95	7	19	105-3	20	68	3	4	10	95	7	19	105-3	20	68	3	4	10
D90 S	24	1.50	2.01	95	7	24	105-3	30	68	4	4	10	95	7	24	105-3	30	68	4	4	10
D90 L	24	2.20	2.95	95	7	24	105-3	30	68	4	4	10	95	7	24	105-3	30	68	4	4	10
D100 L	28	3	4.02	95	7	28	105-3	30	80	5	4	10	95	7	28	105-3	30	80	5	4	10
D112 M	28	4.00	5.36	95	7	28	105-3	30	80	5	4	10	95	7	28	105-3	30	80	5	4	10
D132 S	38	7.50	10.05	110	9	38	116-4	38	95	7	5	10	110	9	38	116-4	38	95	7	5	10
D160 M	42	15	20.11	110	9	42	125-4	42	95	7	6	10	110	9	42	125-4	42	95	7	6	10
D160 L	42	18.50	24.80	110	9	42	125-4	42	95	7	6	10	110	9	42	125-4	42	95	7	6	10
D180 M	48	22	29.49	150	11	48	144-6	48	110	7	7	10	150	11	48	144-6	48	110	7	7	10
D200 L	55	37	49.60	190	11	55	162-6	58	125	9	8	15	190	11	55	162-6	58	125	9	8	15
D225 Ma	55	45	60.32	190	11	55	162-6	58	125	9	8	15	190	11	55	162-6	58	125	9	8	15
D250 Sa	60	55	73.73	190	13	65	162-6	-	140	9	8	15	190	13	65	162-6	-	140	9	8	15
D250 MA	60	78	104.56	225	13	65	162-6	-	140	10	8	15	225	13	65	162-6	-	140	10	8	15
D280 SA	65	90	120.64	226	15	65	178-6	-	160	10	9	15	226	15	65	178-6	-	160	10	9	15
D280 MA	65	110	147.45	276	15	65	178-6	-	160	11	9	15	276	15	65	178-6	-	180	11	9	15
D315 SA	65	132	176.94	276	15	65	178-6	-	160	11	9	15	276	15	65	178-6	-	180	11	9	15
D315 MA	65	185	247.99	280	15	65	178-6	-	160	12	-	15	280	15	65	178-6	-	200	12	-	15



# COUPLINGS: SELECTION CHART

## STANDARD PUMPS - SPACER TYPE

4 POLE / 1500 RPM

Motor Frame Size (50 Hz)	Shaft Size (mm)	SERVICE FACTOR 1.0										
		Power		Elastomeric				Metallic				
		KW	HP	RRS/SWS	RCS	RNS(H)	RST	LM	EM	EMT	EMD	RSK
D63	11	0.18	0.24	95	20	80	16-5	5	4	82	40	13
D71	14	0.37	0.50	95	20	80	16-5	5	4	82	40	13
D80	19	0.75	1.01	95	20	80	16-5	5	4	82	40	13
D90 S	24	1.10	1.47	95	30	80	16-5	10	4	82	40	13
D90 L	24	1.50	2.01	95	30	80	16-5	10	4	82	40	13
D100 L	28	3	4.02	95	30	80	16-5	35	4	82	40	13
D112 M	28	4	5.36	95	30	80	16-5	35	4	82	40	13
D132 S	38	5.50	7.37	110	38	95	16-5	35	8	101	40	33
D132 M	38	7.50	10.05	110	38	95	16-5	95	8	101	40	33
D160 M	42	11	14.75	110	42	95	16-6	95	25	101	40	33
D160 L	42	15	20.11	150	42	95	16-6	95	25	101	40	33
D180 M	48	18.50	24.80	150	48	110	25-7F	95	25	127	40	75
D180 L	48	22	29.49	150	48	110	25-7F	95	25	127	40	75
D200 L	55	30	40.21	225	58	125	25-7F	170	65	127	45	75
D225 SC	60	37	49.60	225	70	140	25-7F	170	65	127	45	75
D225 MC	60	45	60.32	276	70	140	25-7F	170	65	127	45	75
D250 SC	70	55	73.73	276	70	180	30-10F	170	65	127	180	135
D250 MC	70	78	104.56	280	70	180	30-10F	170	65	127	180	135
D280 SC	80	90	120.64	280	-	200	35-12F	220	125	-	-	135
D280 MC	80	110	147.45	280	-	200	35-12F	220	125	149	180	135
D315 SC	85	132	176.94	295	-	200	35-12F	400	125	149	310	230
D315 MC	85	150	201.07	295	-	200	35-12F	400	165	-	-	230
D315 MB	85	185	247.99	295	-	250	35-12F	400	165	149	310	230
D355/2	100	200	268.10	2955	-	250	-	400	165	100	500	350
D400/2	110	250	335.12	350	-	-	-	520	370	203	500	350

## STANDARD PUMPS - SPACER TYPE

2 POLE / 3000 RPM

Motor Frame Size (50 Hz)	Shaft Size (mm)	SERVICE FACTOR 1.0										
		Power		Elastomeric				Metallic				
		KW	HP	RRS/SWS	RCS	RNS(H)	RST	LM	EM	EMT	EMD	RSK
D63	11	0.18	0.24	95	20	80	12-4	5	4	82	40	13
D71	14	0.37	0.50	95	20	80	12-4	5	4	82	40	13
D80	19	1.10	1.47	95	20	80	12-4	5	4	82	40	13
D90 S	24	1.50	2.01	95	30	80	12-4	10	4	82	40	13
D90 L	24	2.20	2.95	95	30	80	12-4	10	4	82	40	13
D100 L	28	3	4.02	95	30	80	12-4	35	4	82	40	13
D112 M	28	4	5.36	95	30	80	12-4	35	4	82	40	13
D132 S	38	7.50	10.05	110	38	95	16-5	35	4	101	40	33
D160 M	42	15	20.11	110	42	95	16-5	95	8	101	40	33
D160 L	42	18.50	24.80	110	42	95	16-5	95	8	101	40	33
D180 M	48	22	29.49	150	48	110	25-7F	95	8	127	40	75
D200 L	55	37	49.60	190	58	125	25-7F	95	25	127	45	75
D225 Ma	55	45	60.32	190	-	125	25-7F	170	25	127	45	75
D250 Sa	60	55	73.73	190	-	140	25-7F	170	65	127	45	75
D250 MA	60	78	104.56	225	-	140	25-7F	170	65	127	45	75
D280 SA	65	90	120.64	226	-	160	30-10F	170	65	127	45	75
D280 MA	65	110	147.45	-	-	160	30-10F	170	65	127	45	75
D315 SA	65	132	176.94	-	-	160	30-10F	170	65	127	45	75
D315 MA	65	185	247.99	-	-	180	30-10F	170	125	127	180	75

**Note:**

- For Service Factor 1.5, refer page no. 8
- Standard spacer lengths (DIN Standard) : 100, 140, 180, 250 mm.
- Standard spacer lengths (ANSI Standard) : 3 1/2", 5", 7".
- Non-standard spacer lengths available on request.
- Verify shaft length available for installation and select Hub type accordingly for LM, EM, EMT, EMD & RSK couplings.



# COUPLINGS: SELECTION CHART

## API 610/671 PUMPS - SPACER TYPE

4 POLE / 1500 RPM

SERVICE FACTOR 1.5												
Motor Frame Size (50 Hz)	Shaft Size (mm)	Power		Elastomeric				Metallic				
		KW	HP	RRS/SWS	RCS	RNS (H)	RST	LM	EM	EMT	EMD	RSK
D63	11	0.18	0.24	95	20	80	16-5	5	4	82	40	13
D71	14	0.37	0.50	95	20	80	16-5	5	4	82	40	13
D80	19	0.75	1.01	95	20	80	16-5	5	4	82	40	13
D90 S	24	1.10	1.47	95	30	80	16-5	10	4	82	40	13
D90 L	24	1.50	2.01	95	30	80	16-5	10	4	82	40	13
D100 L	28	3	4.02	95	30	80	16-5	35	4	82	40	13
D112 M	28	4	5.36	95	30	80	16-5	35	4	82	40	13
D132 S	38	5.50	7.37	99	38	95	16-5	35	4	101	40	33
D132 M	38	7.50	10.05	110	38	95	16-5	35	4	101	40	33
D160 M	42	11	14.75	110	42	95	16-6	95	8	101	40	33
D160 L	42	15	20.11	110	42	95	16-6	95	8	101	40	33
D180 M	48	18.50	24.80	150	48	110	25-7 F	95	25	127	40	75
D180 L	48	22	29.49	150	48	110	25-7 F	95	25	127	40	75
D200 L	55	30	40.21	190	58	125	25-7 F	170	25	127	45	75
D225 SC	60	37	49.60	225	70	140	25-7 F	170	25	127	45	75
D225 MC	60	45	60.32	276	70	140	25-8 F	170	65	127	45	75
D250 SC	70	55	73.73	276	70	180	30-10 F	170	65	127	180	135
D250 MC	70	78	104.56	276	70	180	30-10 F	170	65	127	180	135
D280 SC	80	90	120.64	280	-	200	35-12 F	220	65	149	180	135
D280 MC	80	110	147.45	280	-	200	35-12 F	220	65	149	180	135
D315 SC	85	132	176.94	295	-	200	35-12 F	400	125	149	310	230
D315 MC	85	150	201.07	295	-	200	35-12 F	400	125	149	310	230
D315 MB	85	185	247.99	295	-	200	35-12 F	400	125	149	310	230
D355/2	100	200	268.10	2955	-	250	-	400	125	176	500	350
D400/2	110	250	335.12	350	-	-	-	520	165	203	500	350

## API 610/671 PUMPS - SPACER TYPE

2 POLE / 3000 RPM

SERVICE FACTOR 1.5												
Motor Frame Size (50 Hz)	Shaft Size (mm)	Power		Elastomeric				Metallic				
		KW	HP	RRS/SWS	RCS	RNS(H)	RST	LM	EM	EMT	EMD	RSK
D63	11	0.18	0.24	95	20	80	12-4	5	4	82	40	13
D71	14	0.37	0.50	95	20	80	12-4	5	4	82	40	13
D80	19	1.10	1.47	95	20	80	12-4	5	4	82	40	13
D90 S	24	1.50	2.01	95	30	80	12-4	10	4	82	40	13
D90 L	24	2.20	2.95	95	30	80	12-4	10	4	82	40	13
D100 L	28	3	4.02	95	30	80	12-4	35	4	82	40	13
D112 M	28	4.00	5.36	95	30	80	12-4	35	4	82	40	13
D132 S	38	7.50	10.05	110	38	95	16-5	35	4	101	40	33
D160 M	42	15	20.11	110	42	95	16-5	95	4	101	40	33
D160 L	42	18.50	24.80	110	42	95	16-5	95	8	101	40	33
D180 M	48	22	29.49	150	48	110	25-7 F	95	8	127	40	75
D200 L	55	37	49.60	190	58	125	25-7 F	170	25	127	45	75
D225 Ma	55	45	60.32	190	58	125	25-7 F	170	25	127	45	75
D250 Sa	60	55	73.73	190	-	140	25-7 F	170	25	127	45	75
D250 MA	60	78	104.56	225	-	140	25-7 F	170	65	127	45	75
D280 SA	65	90	120.64	226	-	160	30-10 F	170	65	127	45	75
D280 MA	65	110	147.45	-	-	160	30-10 F	170	65	127	180	75
D315 SA	65	132	176.94	-	-	160	30-10 F	170	65	127	180	75
D315 MA	65	185	247.99	-	-	180	30-10 F	170	65	127	180	75

**Note:** Verify shaft length available for installation and select Hub type accordingly for LM, EM, EMT, EMD & RSK couplings.

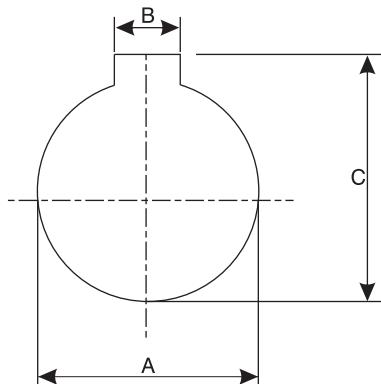


# COUPLINGS: FBKW DIMENSIONS & TOLERANCES FOR STANDARD SHAFTS

METRIC BORE & KEYWAYS : IS:2048-1983 / BS 4235-1:1972

(Dimensions comply with DIN 6885/1)

SR. NO.	BORE SIZE (A)		KEYWAY			SET SCREW SIZE	
			WIDTH (B)	DEPTH (C)			
	H7		Js9				
1	11	+0.018	4	±0.015	12.8	+0.1	M5 X 0.8P
2	14	-0.000	5		16.3	-0.0	
3	19		6	±0.018	21.8		
4	24	+0.021	8		27.3		M6 X 1P
5	28	-0.000	8	±0.022	31.3		
6	34		10		37.3	+0.2	M10 X 1.5P
7	38	+0.025	10		41.3	-0.0	
8	42	-0.000	12		45.3		
9	48		14	±0.027	51.8		
10	55	+0.030	16		59.3		M12 X 1.75P
11	60	-0.000	18		64.4		
12	65		18		69.4		
13	75		20		74.9		
14	80		22		85.4		
15	85	+0.035	22		90.4		M16 X 2P
16	100	-0.000	28		106.4		
17	110		28		116.4		M20 X 2.5P



IMPERIAL BORE & KEYWAYS : BS 46-1:1958

(Dimensions comply with DIN 6885/1)

SR. NO.	BORE SIZE (A)		KEYWAY			SET SCREW SIZE
			WIDTH (B)	DEPTH (C)		
	H7					
1	7/16"		1/8"	1/2"		
2	9/16"	+0.0007" -0.0000	3/16"	21/32"		M5 X 0.8P
3	3/4"		3/16"	27/32"		
4	15/16"	+0.0008" -0.0000	1/4"	1 1/16"		
5	1 1/8"		5/16"	1 5/16"		
6	1 5/16"		3/8"	1 27/64"		M6 X 1P
7	1 1/2"	+0.001" -0.000	3/8"	1 39/64"		
8	1 11/16"		7/16"	1 13/16"		
9	1 7/8"		1/2"	2"	+0.001" -0.000	M10 X 1.5P
10	2 3/16"		5/8"	2 3/8"		
11	2 3/8"	+0.0012" -0.0000	5/8"	2 9/16"		
12	2 9/16"		3/4"	2 49/64"		
13	2 15/16"		3/4"	3 9/16"		
14	3 1/8"		7/8"	3 25/64"		M16 X 2P
15	3 3/8"	+0.0014" -0.0000	7/8"	3 41/64"		
16	3 15/16"		1"	4 1/4"		
17	4 5/16"		1 1/4"	4 43/64"		M20 X 2.5P

## **RATHI® OTHER : COUPLINGS & ACCESSORIES**

For details visit at [www.rathicouplings.com](http://www.rathicouplings.com)



Non-Spacer



Spacer



Muff Couplings



RPG



RLPGT

SAE Flange Couplings

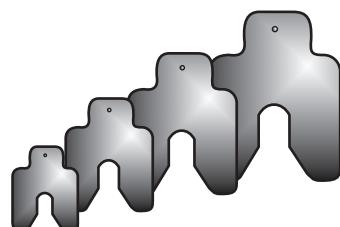
Polygear Couplings



Cardon Shaft Couplings



SAE Stub Shafts



Precut Alignment Shims



Composite Floating Shaft Couplings

## **POLYBOND ANTI-VIBRATION MOUNTINGS**

For details visit at [www.polybondindia.com](http://www.polybondindia.com)

(Applications - Pumps, Separator, Decanters, Compressors, Centrifugal Equipments, Small high speed Diesel Engines, etc.)



P-Mounts



Spring Mountings



Combi Mounts Type PC



PAM Mounts



Sandwich Mounts



'O' Mounts



Double U Shear Mounts



Seismic Mounts



# COUPLINGS : SATISFIED CUSTOMERS AROUND THE WORLD - PROOF OF OUR EXCELLENT QUALITY

## SHOCK TEST AT WEIR UK

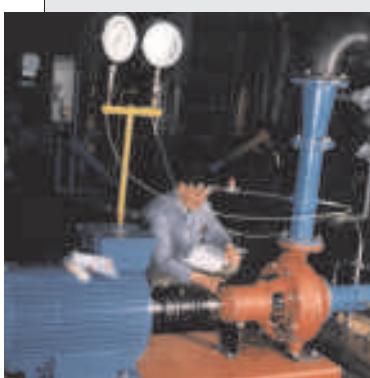
After approaching Weir UK it was agreed that a trial of our Metallic Disc Coupling would be tested on a test rig at Weir Pumps, Alloa. A positive report followed from Weir. Two AM165 couplings were fitted between a 300 kW Motor, Torque Meter and a Pump, whilst running at 2,000 RPM. A bearing failure caused the Pump to seize. The couplings withstood this excessive shock load without a blemish, after replacing the bearings the couplings remained intact and are still operating.



## MAJOR COUPLING SUPPLY CONTRACT WITH FLOWSERVE

Flowserve Pumps, Newark was our first major conquest, in 1994. We carried out a major project with them to rationalise their supplier base and improve their costs of bought in Flexible Couplings. We did this by proving the quality of our product and satisfying every coupling requirement for all their different pump sets.

No other supplier could do this. We are now their major source for flexible couplings, on one of their major product ranges, previously purchased from 14 different suppliers.



### KSB Ajax Pumps, Australia.

"We have been using **RATHI** Type RRS x SWS Spacer Couplings, since the last thirteen years. We consider that the decision to change to **RATHI** has proved to be the right one. Since using **RATHI** couplings, the field problems are almost zero. Our pumpset costs have also reduced considerably. Quite frankly, we find this supplier to be excellent one".

## AND OTHERS

### RNE Pump – South Africa.

"RATHI Couplings are a perfect fit with our heavy hard pumps in the Gold Mines."

### Wernert Pump – Germany.

"We are happy to change over to RATHI"

### Absray, Kelair, Southern Cross, Regent, – Australia.

"Best served couplings for last 15 years"

### Plenty Mirrlees Pumps – UK

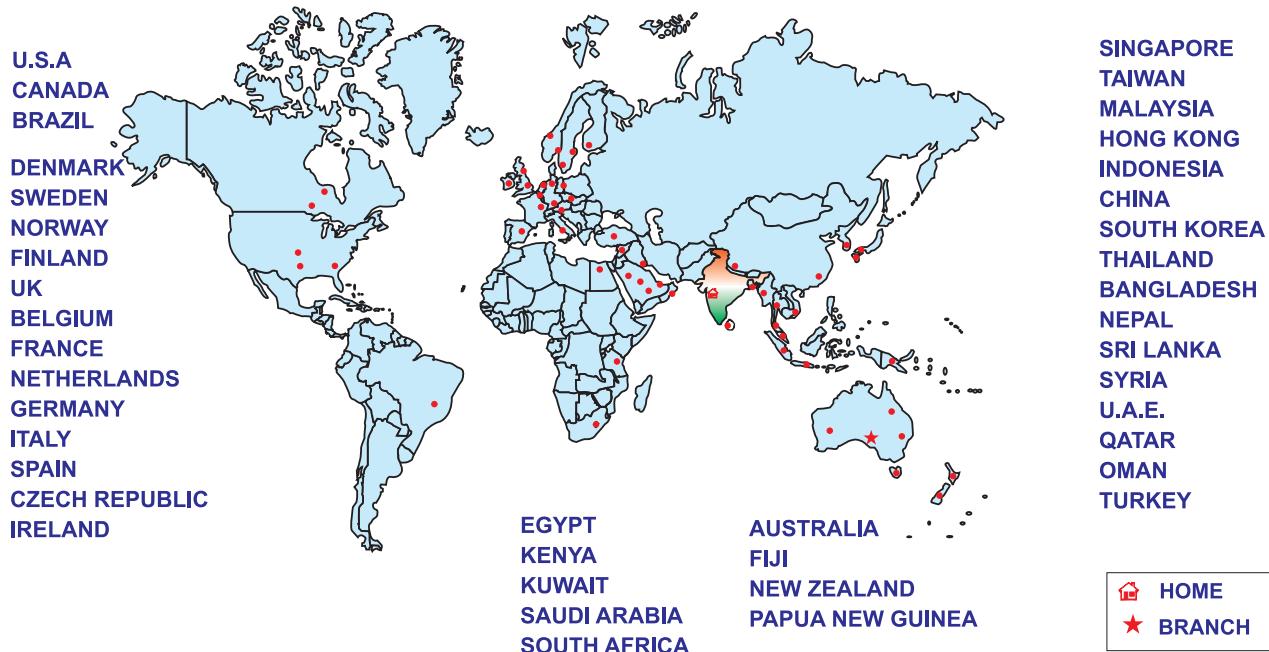
"RATHI Couplings added quality to our Pump"

### Global Pump Company – USA

"We have been using Rathi products with great success and our business is growing."

Happy customers since many decades -  
Kirloskar, Ebara, Sulzer, KSB, WPIL, Jhonson,  
SPP, BHEL – India, Mather & Platt

... and many more



## RATHI COMPATIBILITY WITH OTHER LEADING BRANDS

RATHI	TYPE	EQUIVALENT
<b>JAW - FLEX</b>	L / SW / RRS / H	Lovejoy® - Jaw L / SW / RRS / H
		Fenner® - Essex®
		Martin - Jaw / Browning® / Maska - Star Flex®
	RRJ	KTR-Rotex®
	RFC	Fenner® - HRC®
	N-Flex-RN-RNS- A / B / H	Flender - N-Eupex® A / B / H
<b>TYRE - FLEX</b>	T / TO	Fenner® - Fenaflex®
		Dodge - Para-Flex®
		Martin - Martin-Flex®
<b>CONE FLEX / B-FLEX</b>	RC / RCT	David Brown - Cone Ring® MC / MCT
	RB	Flender - Rupex®
<b>METALLIC</b>	Disco-o-Flex LM / EM / RSK	Bibby Turboflex UK / John Crane Flexibox® -Metastream®(TSK)
<b>GEAR</b>	RGD / RGS	AGMA Std
<b>GRID</b>	RGD	Falk® / Bibby®
<b>POLY GEAR</b>	RPG	KTR - Bowex®
	RLPGT	David Brown® - GT
<b>RIGID COUPLING</b>	RRM	Fenner® - RM
	RR-RRT	David Brown® - MR-MRT
<b>SLEEVE FLEX</b>	RBW	TB Wood's Sure-Flex® / Lovejoy®

Note :- ® Registered Trademark of various Companies

**Note :-**

- All dimensions are in mm unless otherwise specified.
- In view of our constant endeavour to improve quality of our products, we reserve the right to alter or change specifications without prior notice.
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