



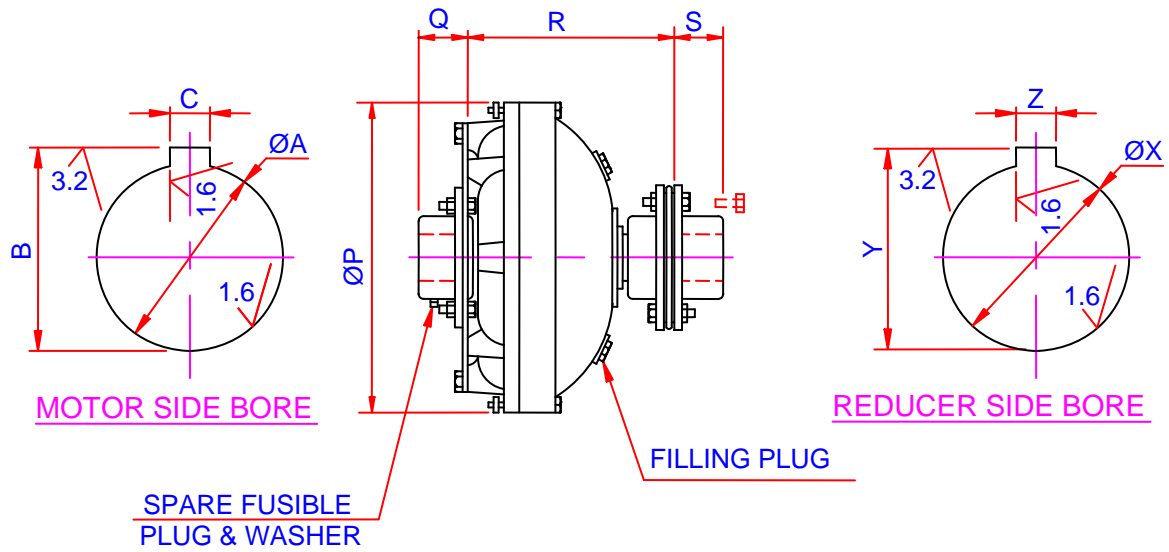
Specification No : APSQ – 051

Rev. No : 04

Page No : 01 of 02

01.	Item	FLUID COUPLINGS			
02.	Material code(s)	Refer page 02 of 02			
03.	Application	Used in Drive assembly of Regenerative Air Preheaters.			
04.	Duty cycle	Continuous, 24 Hours a day.			
05.	Shaft orientation	Horizontal			
06.	Driving equipment	Squirrel Cage Induction Motor. For ratings refer page 02 of 02			
07.	Driven equipment	Reduction Gear Box of Air Preheater			
08.	Size & Make	a) For Pembril : 11.5 FCU , 12.75 FCU & 14.5 FCU b) For Fluidomat : T12 / 04 , T12 / 05A & T12 / 05			
09.	Maximum torque the coupling to handle at start	200 % FLT of the motor for 11.5 FCU / 12.75FCU or Equivalent. 225 % FLT of the motor for 14.5 FCU or Equivalent.			
10.	GENERAL	a) A fusible plug shall be provided to protect the coupling from over heating. b) The fluid coupling shall be provided with flexible coupling halves to mount on the motor and reducer shaft. c) Coupling shall be supplied in assembled condition with finished bore and keyway. d) Spare fusible plug shall be mounted on the half-coupling body with a hole suitable for M10x1.0. e) The vendor shall submit the drawing & Quality Plan for approval once in 4 years or whenever vendor makes any change in the drawing / quality plan. f) The Couplings shall be packed properly to avoid damage during transit.			
11.	INSPECTION	a) Inspection by BHEL. b) Run test to be conducted on each coupling for oil leakage & necessary Test Certificate shall be submitted.			
04	01.12.11	(Sd) GA	(Sd) KP	(Sd) PPS	New MC for 14.5 FCU added in 12(f).
03	16.12.10	(Sd) SCH	(Sd) KP	(Sd) PPS	Clause 10(e&f) added & 11b modified.
02	01.10.05	(Sd) GA	(Sd) PPS	(Sd) GRV	Clause 10 c & d added. Drawing corrected.
01	20.04.02	(Sd) RR	(Sd) PPS	(Sd) GRV	New MC included; page modified
00	05.07.93	(Sd) GA	(Sd) PPS	(Sd) RSM	FRESH ISSUE
Rev.No	Date	Prepared	Checked	Approved	Record of Revisions.

12. Dimensions, Bore & Keyway details.



Tolerance for untolerenced dimensions are as per Medium Class of IS 2102 Part I (Latest Revision)
All Dimensions are in mm

Coupling size	ϕP	Q	R	S
1. 11.5 FCU or T12/04	333	52	231	51
2. 12.75 FCU or T12/05A	368	80	261	70
3. 14.5 FCU or T12/05	419	70	284	67

Material Code	Motor Rating	Reducer	ϕA	B	C	ϕX	Y	Z
---------------	--------------	---------	----------	---	---	----------	---	---

Size : 11.5 FCU for Pembril & T12 / 04 for Fluidomat

a.	96 134 026 0000	11 kW, 1500 RPM	Type I	42.025 42.000	45.500 45.300	12.021 11.979	35.025 35.000	38.550 38.500	10.028 10.013
b.	96 134 324 0000	11 kW, 1500 RPM	5 APC	42.025 42.000	45.500 45.300	12.021 11.979	1.124" 1.123"	1.255" 1.263"	0.257" 0.249"
c.	96 134 325 0000	15 kW, 1500 RPM	7 APC	48.025 48.000	52.000 51.800	14.021 13.979	44.450 44.425	50.900 50.775	12.731 12.669
d.	96 134 027 0000	15 kW, 1500 RPM	Type II	48.025 48.000	52.000 51.800	14.021 13.979	40.025 40.000	43.550 43.500	10.028 10.013

Size : 12.75 FCU for Pembril & T12 / 05A for Fluidomat

e.	96 134 028 0000	18.5 kW, 1500 RPM	Type II	48.025 48.000	52.000 51.800	14.021 13.979	40.025 40.000	43.550 43.500	10.028 10.013
----	-----------------	-------------------	---------	------------------	------------------	------------------	------------------	------------------	------------------

Size : 14.5 FCU for Pembril & T12 / 05 for Fluidomat

f.	96 134 029 0000	30 KW, 1500 RPM	8APB	55.030 55.000	59.300 59.500	16.000 15.957	50.025 50.000	53.800 54.000	14.000 13.957
----	-----------------	-----------------	------	------------------	------------------	------------------	------------------	------------------	------------------