

 Bharat Heavy Electricals Ltd Boiler Auxiliaries Plant Ranipet - 632 406		EDC / AIR PREHEATERS TECHNICAL SPECIFICATION Effective Date: 16.12.2010			
Specification No : APSQ – 067		Rev. No : 04		Page No : 01 of 01	
01.	Item	FLOW SWITCH - INDICATING TYPE			
02.	Material Code(s)	97 324 994 0000 97 324 995 0000			
03.	Application	Used in APH Bearing Lub Oil Circulation system to indicate Normal Oil Flow & Initiate Alarm for Low Oil Flow Condition.			
04.	Surroundings	Dusty & humid atmosphere of a coal fired boiler. Ambient temp 50°C.			
05.	Medium	Lubricating Oil Servocyl C- 680, Normal Viscosity 1000 SSU			
06.	Operating Pressure	1 to 5 Kg / cm ² (g).			
07.	Operating Temp.	35 to 70°C			
08.	Control Range of Flow	a) 3 to 15 LPM (Matl. code 97 324 994 0000) b) 7 to 25 LPM (Matl. code 97 324 995 0000)			
09.	End Connection	¾" NPT (Female) at both ends.			
10.	Model Number	a) OK-15LM-6-1000V.9-A1WR (Matl. code 97 324 994 0000) b) OK-25LM-6-1000V.9-A1WR (Matl. code 97 324 995 0000) of make UFM or equivalent.			
11.	Sensing Element	DISC / VANE			
12.	Material	a) Body	Stainless Steel / Brass.		
		b) Internals	Stainless Steel / Brass.		
		c) Seals	Viton.		
13.	Mounting Position	Horizontal or vertical.			
14.	Indicator Enclosure	Weatherproof as per NEMA 4 / IP 55 as per IS 13947 Part 1.			
15.	Accuracy	± 5 % of full scale.			
16.	Switch Repeatability	1 % of flow.			
17.	Switch Arrangement	1 NO + 1 NC suitable for 240 V, 5 Amp, AC. Contacts to change over when flow goes below Set Point. Plug in type arrangement to be provided to connect customer cable of 1.5 mm ² size.			
18.	Set Point	To be adjustable throughout the range with a calibrated scale.			
19.	GENERAL	a) All openings shall be closed with dummy plastic caps before despatch. b) Flow switches shall be packed properly to avoid damage during transit.			
20.	INSPECTION	a) Inspection by BHEL. b) Compliance TC shall be submitted.			
04	16.12.10	(Sd) VMR	(Sd) KP	(Sd) PPS	Clause 14 modified.
03	01.10.05	(Sd) GA	(Sd) PPS	(Sd) GRV	Clause 17 changed.
02	20.04.02	(Sd) RR	(Sd) PPS	(Sd) GRV	Page modified
01	17.03.97	(Sd) PPS	(Sd) PPS	(Sd) GRV	In Clause 9, 3/4" was 1"
00	25.08.95	(Sd) KP	(Sd) PPS	(Sd) GRV	FRESH ISSUE
Rev.No	Date	Prepared	Checked	Approved	Record of Revisions.