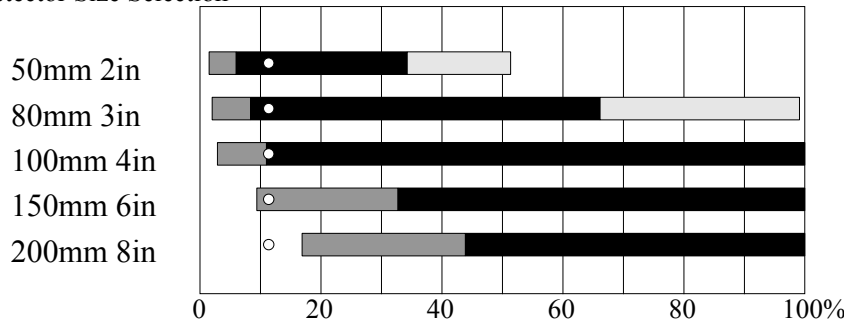


## digitalYEWFLO Sizing Sheet

Shop Order No.		Item No.	
Order No.		Tag No.	
Job Name		520FRC-815	
Agency			
End User		Rgst. No.	
Plant Name		Quantity	1
Model&Suf.Code			

Reduced bore type		not select
Detector Inner dia.	:E10	100mm 4in
Fluid Name		HC
Kind of Fluid	:C20,F10	Gas
Maximum Flow Rate	:C45,B10,F40	8.730 kg/s
Minimum Flow Rate		1.0000 kg/s
Scale Condi.	:C32,C35,F19,F22	Operating Condition
Operating Temperature	:C31,D21	41.4 degC
Maximum Temperature		41.4 degC
Operating Pressure		23.900 bar gauge
Operating Pressure(abs)	:C34,F21	24.913 bar abs
Minimum Operating Pressure		23.900 bar gauge
Deviation Factor	:C36,F23	1.000
Density at Scale Condition		0.8538 kg/m3
Density at Oper. Condition	:C26,D26,F27	18.230 kg/m3
Viscosity		0.658 cP
Total Rate	:B45	0.00000 kg/pulse
Pulse Rate	:B21	0.00000 kg/pulse
Low Cut Value	:D10	0.25195 kg/s

### Detector Size Selection



Turn down

Pres. drop

	66.1	10708 mbar
	47.6	2873 mbar
	34.6	943 mbar
	10.5	197 mbar
	5.9	62 mbar
	<b>Max.=8.730 kg/s</b>	

Measurable Zone    
  Accuracy Guaranteed Zone    
  High Velocity Zone (out of accuracy guaranteed)

○ Min. Flow Rate

	50mm 2in	80mm 3in	Selected 100mm 4in	150mm 6in	200mm 8in
Detector Inner dia.	50mm 2in	80mm 3in	100mm 4in	150mm 6in	200mm 8in
Fitness	No Good	No Good	Good	Good	No Good
Reason of NG	OVER FLOW	OVER FLOW			Over Size
Reynolds Number at Max. Flow	330602	237940	180104	121713	91022
Measurable Maximum Flowrate(kg/s)	2.991	5.774	10.078	22.067	39.457
Measurable Minimum Flowrate(kg/s)	0.132	0.183	0.252	0.828	1.480
Flow Velocity at Maximum Flowrate(m/s)	233.505	120.954	69.300	31.649	17.700
Measurable Minimum Flow Velocity(m/s)	3.532	2.542	2.000	3.000	3.000
Min. Flow for Specified Accuracy(1.0%)(kg/s)	0.528	0.734	0.970	2.869	3.837
Error at Measurable Min. Flow(%)	+8.00%	+8.00%	+8.79%	+3.35%	+1.01%

CHECKED.BY

RE	n	REMARKS	DATE	REV.BY					