


AB6350




*Engineering
GREAT Solutions*

**Turbine bypass valve and steam conditioning
valve for Small Combined Heat and Power**

AB6350

IMI CCI Japan has over 40 years of experience to deliver integrated control valves and desuperheaters for turbine bypass and steam conditioning valves. In total, we have delivered more than 1,500 units of AB6000 series all over the world. AB6350 is a new design model of the AB6300 series for small Combined Heat and Power (CHP) applications. The AB6350 is designed to perfectly match power plants like incineration power plants, biomass power plants, and other small co-generation power plants.



Key features

In order to achieve the most sophisticated design of integrated turbine bypass system, AB6350 has following key features.

- > Actuator
 - Multi-spring diaphragm
 - Piston
 - Electric
 - Hydraulic
- > Cage, trim and seat
 - Multi-hole cage
 - Balanced trim with graphite balance seal
 - Quick change seat with graphite seal
- > Desuperheater
 - Steam atomisation
- > Accessories
 - A full range of accessories are available to meet requirements

Benefits

- > Tight Shutoff
 - Shutoff classes from ANSI IV to V are available
- > Compact design
 - Increased Cv and inner flow area to allow design to be as compact as possible
 - Proven steam atomisation desuperheater system to achieve minimum temperature sensor distance
- > Flexible design
 - Outlet nozzle can be any size upon customer's request (for Butt weld connection)
 - Optimal design desuperheater spray nozzles to fit required Cv
- > Easy maintenance
 - Quick change trim for easy and quick maintenance
 - No special tool required for maintenance
- > Longer life time
 - Desuperheater nozzle tips installed for longer life time

Product specification

Body type

Globe

Design standard

ASME B16.34
ASME sec. VIII Div.1

Body material

ASTM WCB, WC6, WC9

Flow direction

Flow to open

Bonnet type

Bolted bonnet

Valve size

2", 3", 4", 5", 6", 8"

Pressure ratings

ASME 150 - 2500

End connections

Butt-weld, flange

Temperature

Max. 565 deg.C

Leakage class

ANSI class IV and V

Seat type

Quick change

Spray nozzle

Steam atomising

Actuation

Multi-spring diaphragm, piston, electric, hydraulic

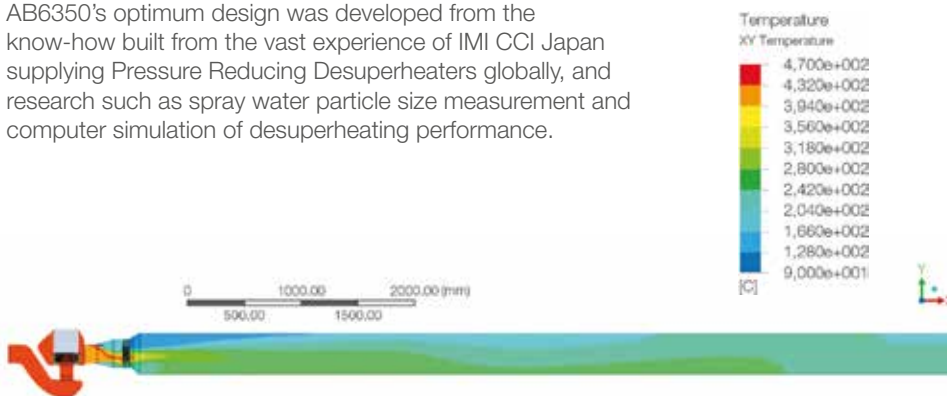
Materials

Part	Material
Body and bonnet	ASTM WCB, WC6, WC9
Trim	400 series Stainless Steel with surface treatment
Gasket	Graphite
Balance Seal	Graphite
Packing	Graphite



Research and development

AB6350's optimum design was developed from the know-how built from the vast experience of IMI CCI Japan supplying Pressure Reducing Desuperheaters globally, and research such as spray water particle size measurement and computer simulation of desuperheating performance.



Applications

- > Incineration power plant
- > Biomass power plant
- > Co-generation power plant (combined heat and power)

Product drawings and dimensions

Size	A	B	C	D	F	G	M/N	*Weight(kg)
2	180	220	400	130	165	85	3/4" SW	250
3	240	280	520	165	225	120	3/4" SW	360
4	300	370	670	220	280	150	1" SW	510
5	350	430	780	270	330	180	1-1/2" SW	860
6	430	500	930	310	390	220	2" SW	1190
8	530	600	1130	370	485	270	2" SW	1620

* Weights are based on rough estimation (2500 rating and actuator with handle)

Size	A	B	C	D	F	G	*Weight(kg)
2	190-200	250	440-450	130	300	225	300
3	260-280	300	560-580	165	360	280	460
4	320-340	380	700-720	220	415	330	680
5	380-420	460	840-880	270	465	375	1150
6	440-490	540	980-1030	310	525	400	1610
8	540-600	660	1200-1260	370	620	450	2290

* Weights are based on rough estimation (2500 rating and actuator with handle)

Size	MSD-III			SP
	370	480	550	113/200
2	745-760	885-900	-	-
3	790-825	930-965	-	-
4	-	980-1010	1050-1080	1170-1200
5	-	1015-1060	1085-1130	1205-1250
6	-	1065-1115	1135-1185	1255-1305
8	-	-	1200-1260	1320-1380

Size	MSD-III			SP
	370	480	550	113/200
2	960-975	1175-1190	-	-
3	1005-1040	1220-1255	-	-
4	-	1270-1300	1395-1425	1820-1850
5	-	1305-1350	1430-1475	1855-1900
6	-	1355-1405	1480-1530	1905-1955
8	-	-	1545-1605	1970-2030

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