Valve and Damper Schedule for Building 420

JOHNSON CONTROLS

DAMPER SCHEDULE

PROJECT/ADDRESS: The Argonne National Labs, Advanced Photon Source Campus, 9700 Cass Avenue South, Argonne, IL 60439

BUILDING DESIGNATION: BLDG 420 RF/EXTRACTION

MECHANICAL CONTRACTOR:

SHEET METAL CONTRACTOR:

SHEET: 4
CONTRACT: 1390-0009
PREPARED BY: SF
DATE: 01/06/92
BRANCH: ARLINGTON HGTS

TAG			DAMPER INFORMATION-BY OTHERS					DUCT INFORMATION		ACTUATOR INFORMATION					
SYSTEM	SERVICE	SECT. LABEL	QTY	FAIL POS.	DAMPER TYPE	DAMPER SIZE WIDTH	DAMPER SIZE HEIGHT	REF DET	DUCT SIZE WIDTH	DUCT SIZE HEIGHT	QTY	CODE NUMBER	PILOT	SPRING RANGE	MTG	REMARK
HV-302	O.A.	I	1	N.C.	OTHERS	36	66		108	252	12	D-3153-2	N	8-13#	F	2 POS
HV-302	O.A.	II	1	N.C.	OTHERS	36	66		108	252						
HV-302	O.A.	III	1	N.C.	OTHERS	36	66		108	252						
HV-302	O.A.	IV	1	N.C.	OTHERS	36	66		108	252						
HV-302	O.A.	V	1	N.C.	OTHERS	36	66		108	252						
HV-302	O.A.	VI	1	N.C.	OTHERS	36	66		108	252						
HV-302	O.A.	VII	1	N.C.	OTHERS	36	66		108	252						
HV-302	O.A.	VIII	1	N.C.	OTHERS	36	66		108	252						
HV-302	O.A.	IX	1	N.C.	OTHERS	36	66		108	252						
HV-302	O.A.	X	1	N.C.	OTHERS	36	54		108	252						
HV-302	O.A.	XI	1	N.C.	OTHERS	36	54		108	252						
HV-302	O.A.	XII	1	N.C.	OTHERS	36	54		108	252						
HV-901	O.A.	I	1	N.C.	OTHERS	42	54		---	---	6	D-3153-2	Y	5-15#	F	NOTE 1
HV-901	O.A.	II	1	N.C.	OTHERS	42	54		---	---						
HV-901	O.A.	III	1	N.C.	OTHERS	42	54		---	---						
HV-901	O.A.	IV	1	N.C.	OTHERS	42	54		---	---						
HV-901	O.A.	V	1	N.C.	OTHERS	42	54		---	---						
HV-901	O.A.	VI	1	N.C.	OTHERS	42	54		---	---						
RO-1	O.A.	-	4	N.O.	OTHERS	60	60		120	120	4	D-3153-2	Y	8-13#	V	NOTE 1
RO-2	O.A.	-	8	N.O.	OTHERS	60	60		120	120	8	D-3153-2	N	8-13#	V	NOTE 1
RO-3	O.A.	-	8	N.O.	OTHERS	60	60		120	120	8	D-3153-2	N	8-13#	V	NOTE 1
RO-4	O.A.	-	8	N.O.	OTHERS	60	60		120	120	8	D-3153-2	N	8-13#	V	NOTE 1

Notes:

1. Please provide duct dimension information.
2. Field verify sizes.
3. ALL DAMPERS ARE BY OTHERS

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JOHNSON CONTROLS

VALVE SCHEDULE

PROJECT/ADDRESS: The Argonne National Labs, Advanced Photon Source Campus, 9700 Cass Avenue South, Argonne, IL 60439

BUILDING DESIGNATION: BUILDING 420

MECHANICAL ENGINEER: ARGONNE NATIONAL LABS

MECHANICAL CONTRACTOR:

SHEET: 6
CONTRACT: 1390-0009
PREPARED BY: SF
DATE: 12/20/91
BRANCH: ARLINGTON HGTS

TAG				VALVE INFORMATION								ACTUATOR INFORMATION	
ITEM	SYSTEM	SERVICE	REF DRWG#	QTY	FAIL POS.	VALVE CODE NUMBER	BODY STYLE	SIZE	Cv	(GPM) CAPACITY	DIFF PRES	*	ACTUATOR TYPE	RANGE
I1	HV-901	V-1	H950	1	NO	V-5252-5	NO-SCR	2	41.0	65.9	2.6		4R W/PILOT	5-15#
I1.5	HV-901	V-2	H950	1	NC	V-5464-2	NC-SCR	2	27.5	50.0	3.3		4R W/PILOT	5-15#
I2	HV-302	V-1	H950	1	NO	V-5252-13	NO-FLG	3	83.0	131.8	2.5		SR W/PILOT	5-15#
SYNCHROTRON TUNNEL NORTH														
I3	420 PW-STN	V-4-1	H951	1	NO	3CPT5166U150A60	NO-FLG	3	125.0	460.0	13.5		SERIES 39	3-15#
I4	420 PW-STN	V-3-1AB	H951	2	NC	31-110	NO-FLG	6					SERIES 91	2 POS
I5	420 PW-STN	V-2-1	H951	1	NC	31-110	NO-FLG	6					SERIES 91	2 POS
I6	420 PW-STN	V-1-1	H951	1	BYP BRDG	4D5166U150V1	MIX-BYP	6	240.0	460.0	3.7		SERIES 39	3-15#
RF/EXTRACTION WING K2														
I7	420 PW-K2	V-4-2	H951	1	NO	3CPT5166U150A60	NO-FLG	3	125.0	460.0	13.5		SERIES 39	3-15#
I8	420 PW-K2	V-3-2AB	H951	1	NC	31-110	NO-FLG	6					SERIES 91	2 POS
I9	420 PW-K2	V-2-2	H951	1	NC	31-110	NO-FLG	6					SERIES 91	2 POS
I10	420 PW-K2	V-1-2	H951	1	BYP BRDG	4D5166U150V1	MIX-BYP	6	240.0	460.0	3.7		SERIES 39	3-15#
RF/EXTRACTION WING K1														
I11	420 PW-K1	V-4-3	H951	1	NO	3CPT5166U150A60	NO-FLG	3	125.0	415.0	11.0		SERIES 39	3-15#
I12	420 PW-K1	V-3-3AB	H951	1	NC	31-110	NO-FLG	6					SERIES 91	2 POS
I13	420 PW-K1	V-2-3	H951	1	NC	31-110	NO-FLG	6					SERIES 91	2 POS
I14	420 PW-K1	V-1-3	H951	1	BYP BRDG	4D5166U150V1	MIX-BYP	6	240.0	415.0	3.0		SERIES 39	3-15#
RF/EXTRACTION WING K4														
I15	420 PW-K4	V-4-1	H951	1	NO	3CPT5166U150A60	NO-FLG	3	125.0	415.0	11.0		SERIES 39	3-15#
I16	420 PW-K4	V-3-1AB	H951	1	NC	31-110	NO-FLG	6					SERIES 91	2 POS
I17	420 PW-K4	V-2-1	H951	1	NC	31-110	NO-FLG	6					SERIES 91	2 POS
I18	420 PW-K4	V-1-1	H951	1	BYP BRDG	4D5166U150V1	MIX-BYP	6	240.0	415.0	3.0		SERIES 39	3-15#
RF/EXTRACTION WING K3														
I19	420 PW-K3	V-4-1	H951	1	NO	3CPT5166U150A60	NO-FLG	3	125.0	415.0	11.0		SERIES 39	3-15#
I20	420 PW-K3	V-3-1AB	H951	1	NC	31-110	NO-FLG	6					SERIES 91	2 POS
I21	420 PW-K3	V-2-1	H951	1	NC	31-110	NO-FLG	6					SERIES 91	2 POS
I22	420 PW-K3	V-1-1	H951	1	BYP BRDG	4D5166U150V1	MIX-BYP	6	240.0	415.0	3.0		SERIES 39	3-15#
RF/EXTRACTION WING K5														
I19	420 PW-K5	V-4-3	H951	1	NO	3CPT5166U150A60	NO-FLG	3	125.0	345.0	7.6		SERIES 39	3-15#
I20	420 PW-K5	V-3-3AB	H951	1	NC	31-110	NO-FLG	6					SERIES 91	2 POS
I21	420 PW-K5	V-2-3	H951	1	NC	31-110	NO-FLG	6					SERIES 91	2 POS
I22	420 PW-K5	V-1-3	H951	1	BYP BRDG	4D5166U150V1	MIX-BYP	6	240.0	345.0	2.1		SERIES 39	3-15#
I23	OMITTED													
I24	LTV-901	V-1	H950	2	NO	VTM-TN047-313	NO-SCR	1/2	4.7	10.0	4.7		V-3000	4-8#

VALVE MODEL 4D5166U150V1 IS MANUFACTURED BY WORCESTER CONTROLS-CONSTRUCTED WITH 316 S.S.
VALVE MODEL 3 3CPT5166U150A60 IS MANUFACTURED BY WORCESTER CONTROLS-CONSTRUCTED WITH 316 S.S.
VALVE MODEL 31-110 IS MANUFACTURED BY BRAY

* - PIPING DETAIL - SEE ATTACHED PIPING DETAIL SHEET

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ALL EQUIPMENT SCHEDULED SHALL COMPLY WITH THE MATERIAL PERFORMANCE DESCRIPTION IN THE SPECIFICATIONS. SUBSTITUTION OF EQUIVALENT, APPROVED MATERIAL IS ACCEPTABLE.

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DRAWING TITLE: Building 420, RF/Extraction Control Valve and Damper Schedules

NO.	REVISION-LOCATION	ECN	DATE	BY
	RECORD		05/20/94	SF
8	GENERAL		01/08/93	SF
7	DMPRS BY OTHERS		11/30/92	SF

REFERENCE DRAWING

SALES ENGR	PROJECT MGR	APPL. ENGR	DRAWN	APPROVED
JP	SF	DCS	BY SF DATE 02/26/92	BY DATE

PROJECT: The Argonne National Labs, Advanced Photon Source Campus, 9700 Cass Avenue South, Argonne, IL 60439

JOHNSON CONTROLS Systems & Services Division

3007 MALMO ROAD, ARLINGTON HEIGHTS, ILLINOIS 60005, 708/364-1500 Main, 708/808-4438 Eng

CONTRACT NUMBER: 91390-0009

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