



Skanska USA Building
 201 East Fifth Street
 Suite 2020
 Cincinnati, Ohio 45202
 P: (513) 421-0028
 F: (513) 421-0053

Project: 2721001.02 IHMS Indian Hill New Middle
 School
 6845 Drake Road
 Cincinnati, Ohio 45243

Submittal #22 11 19-2.0 - IHMS-221119-Dom Water Piping Specialties-Balancing Valves

22 11 19 - Domestic Water Piping Specialties

Revision	0	Submittal Manager	Trey Stautberg (Skanska USA Building Inc. (OH))
Status	Open	Date Created	Oct 10, 2022
Issue Date	Oct 10, 2022	Spec Section	22 11 19 - Domestic Water Piping Specialties
Responsible Contractor	Feldkamp Enterprises, Inc.	Received From	Heather Wyatt (Feldkamp Enterprises, Inc.)
Received Date		Submit By	
Final Due Date	Oct 24, 2022	Lead Time	
Sub Job			
Location		Type	Product Data
Approvers	Trey Stautberg (Skanska USA Building Inc. (OH)), Sarah Lubell (Motz Engineering), Alex Powell (MSA Design), Tanya Tedesco (Motz Engineering), Matthew Zix (MSA Design)		
Ball in Court	Sarah Lubell (Motz Engineering), Alex Powell (MSA Design), Tanya Tedesco (Motz Engineering), Matthew Zix (MSA Design)		
Distribution	Ken Weston (Skanska USA Building Inc. (OH)), Matt Thompson (Skanska USA Building Inc. (OH)), Christopher Soto (Skanska USA Building Inc. (OH)), Jeff Smoker II (Skanska USA Building Inc. (OH))		
Description	IHMS-221119-Dom Water Piping Specialties-Balancing Valves		

ADDITIONAL SUBMITTAL DETAILS

Delivered Via		Priority	
LEED	No	Tracking Number	
Track for Expediting	No		

Submittal Workflow

Name	Sent Date	Due Date	Returned Date	Response	Attachments
General Information Attachments					
Heather Wyatt		Oct 10, 2022	Oct 10, 2022	Submitted	
Trey Stautberg		Oct 10, 2022	Oct 10, 2022	Approved	IHMS-221119-Dom Water Piping Specialties-Balancing Valves.pdf (Current)
Sarah Lubell	Oct 10, 2022	Oct 24, 2022		Pending	
Alex Powell	Oct 10, 2022	Oct 24, 2022		Pending	
Tanya Tedesco	Oct 10, 2022	Oct 24, 2022		Pending	

Name	Sent Date	Due Date	Returned Date	Response	Attachments
Matthew Zix	Oct 10, 2022	Oct 24, 2022		Pending	

SHOP DRAWINGS	
<input checked="" type="checkbox"/> Reviewed	<input type="checkbox"/> Furnish as Corrected
<input type="checkbox"/> Rejected	<input type="checkbox"/> Revise and Resubmit
<p><small>This review is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with the requirements of the plans and specifications. Approval of a specific item shall not include approval of an assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and correlated at the job site; information that pertains solely to the fabrication process or to the means, methods, techniques, sequences and procedures of construction; coordination of the work of all trades; and for performing all work in a safe and satisfactory manner.</small></p> <p><small>Note: Errors in shop drawings or undue delays in making corrections are not an acceptable excuse for changing delivery dates from imperfect fabrication.</small></p>	
MOTZ CONSULTING ENGINEERS, INC.	
By: Frank Pauly	Date: <u>10/10/2022</u>



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Submittal #22 11 19-2.0 - IHMS-221119-Dom Water Piping Specialties-Balancing Valves

22 11 19 - Domestic Water Piping Specialties

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Distribution	Ken Weston (Skanska USA Building Inc. (OH)), Matt Thompson (Skanska USA Building Inc. (OH)), Christopher Soto (Skanska USA Building Inc. (OH)), Jeff Smoker II (Skanska USA Building Inc. (OH))		
Description	IHMS-221119-Dom Water Piping Specialties-Balancing Valves		

ADDITIONAL SUBMITTAL DETAILS

Delivered Via

LEED No

Track for Expediting No

Skanska Review Verification

Reviewed X
 Reviewed as Noted _____
 Revise & Resubmit _____
 Rejected _____

The undersigned hereby certifies our review of the referenced submittal to be in compliance with the Contract Documents. Correctness of details, measurements, quantities, conformity with documents, techniques of construction and contract coordination with other trades shall remain the complete responsibility of the Subcontractor/Supplier.

CHECKED BY: Trey Stautberg
DATE: 10/10/22
SPECIFICATIONS: See Above
SUBMITTAL NO.: See Above

Submittal Workflow

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General Information Attachments					
Heather Wyatt		Oct 10, 2022	Oct 10, 2022	Submitted	
Trey Stautberg		Oct 10, 2022		Pending	
Sarah Lubell		Oct 24, 2022		Pending	
Alex Powell		Oct 24, 2022		Pending	
Tanya Tedesco		Oct 24, 2022		Pending	
Matthew Zix		Oct 24, 2022		Pending	



Feldkamp Enterprises, Inc.
 3642 Muddy Creek Rd
 Cincinnati, Ohio 45238
 P: 513-347-4500

Project: 1338 Indian Hill New Middle School
 6845 Drake Road
 Cincinnati, Ohio 45243

Submittal #22 11 19-4.0 - Balancing Valves 22 11 19 - DOMESTIC WATER PIPING SPECIALTIES

Revision	0	Submittal Manager	Heather Wyatt (Feldkamp Enterprises, Inc.)
Status	Open	Date Created	Aug 9, 2022
Issue Date	Sep 30, 2022	Spec Section	22 11 19 - DOMESTIC WATER PIPING SPECIALTIES
Responsible Contractor	Ferguson Enterprises, Inc.	Received From	Adam Napier (Ferguson Enterprises, Inc.)
Received Date		Submit By	Sep 30, 2022
Final Due Date	Oct 14, 2022	Lead Time	
		Cost Code	
Location		Type	Product Information
Manufacturer	Oventrop		
Approvers	Heather Wyatt (Feldkamp Enterprises, Inc.), Trey Stautberg (Skanska USA Building)		
Ball in Court	Heather Wyatt (Feldkamp Enterprises, Inc.)		
Distribution	Jack Rahn (Feldkamp Enterprises, Inc.)		
Description	2.5 BALANCING VALVES A. Copper-Alloy Calibrated Balancing Valves : 1. Type: Ball valve with two readout ports and memory-setting indicator. 2. Body: Brass. 3. Size: Same as connected piping, but not larger than NPS 2. 4. Accessories: Meter hoses, fittings, valves, differential pressure meter, and carrying case. B. Cast-Iron Calibrated Balancing Valves: 1. Type: Adjustable with Y-pattern globe valve, two readout ports, and memory-setting indicator. 2. Size: Same as connected piping, but not smaller than NPS 2-1/2. C. Accessories: Meter hoses, fittings, valves, differential pressure meter, and carrying case. D. Memory-Stop Balancing Valves: 1. Standard: MSS SP-110 for two-piece, copper-alloy ball valves. 2. Pressure Rating: 400-psigminimum CWP. 3. Size: NPS 2or smaller. 4. Body: Copper alloy.		

Submittal Workflow

Name	Sent Date	Due Date	Returned Date	Response	Attachments
General Information Attachments					
Adam Napier		Sep 30, 2022	Sep 30, 2022	Submitted	
Gary Riley		Sep 30, 2022		Pending	
Heather Wyatt	Sep 30, 2022	Sep 30, 2022		Pending	
Trey Stautberg		Oct 14, 2022		Pending	

SUBMITTAL

INDIAN HILL MIDDLE SCHOOL
CIRCUIT SETTER

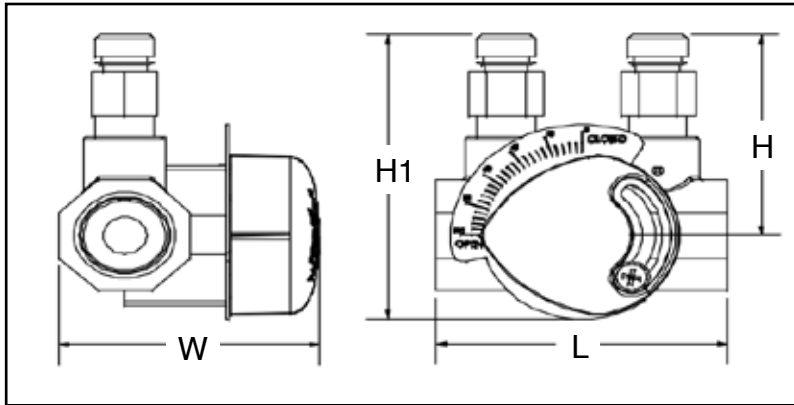


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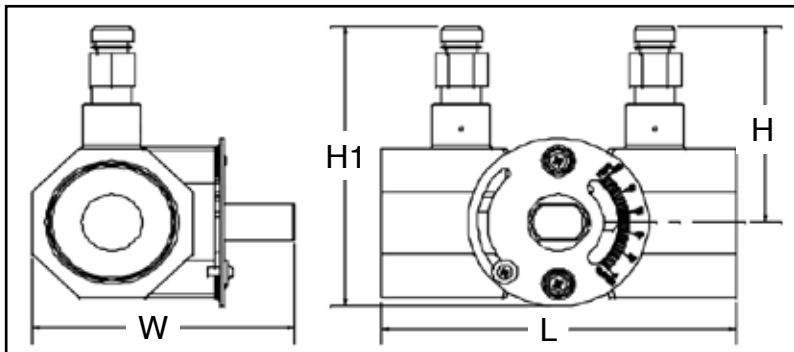
FELDKAMP ENT



Job Name:	Submitted by:	Date:
	Spec Section:	
Job Location:	Engineer/Architect:	
	Approval:	Date:



1/2" - 1"



1 1/4" - 2"



Specification

The Lead free CS balancing valve is a ball valve style valve made of a low lead brass body and a nickel plated brass ball. It is available in sizes from 1/2" to 2" with either FNPT or solder connections. The valve comes standard with two pressure test ports. These valves are compliant with ANSI/NSF 372.

Maximum working temperature: 250°F
Maximum working pressure: 400 psi

Item:

1/2" FNPT	1660904
3/4" FNPT	1660906
1" FNPT	1660908
1-1/4" FNPT	1660910
1-1/2" FNPT	1660912
2" FNPT	1660916
1/2" SWT	1660951
3/4" SWT	1660952
1" SWT	1660953
1-1/4" SWT	1660954
1-1/2" SWT	1660955
2" SWT	1660956

Coil Kit Dimensions in Inches

Dimension	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
L - FNPT	2.9	3.1	3.8	4.4	4.4	5.1
L - SWT	2.9	3.5	4.3	4.9	5.2	6.3
H	2.0	2.1	2.2	2.4	2.5	2.8
H1	2.9	3.0	3.0	3.5	3.6	4.2
W	2.3	2.3	2.8	3.3	3.5	4.1
Cv	1.6	3.1	8.1	17.0	27.0	40.0

Installation Notes

When installing the balancing valve, it is to be observed that the direction of flow conforms with the arrow on the valve body and that the valve is installed with a minimum of 3 D (3 x nominal pipe diameter) of straight pipe at the valve inlet and of 1 D (1 x nominal pipe diameter) of straight pipe at the valve outlet.



*Contains less than 0.25% lead content by weight on wetted surfaces. IAPMO R&T certified: AB1953; Vermont S152; Maryland House Bill 372 (Statue 12-605). ANSI/NSF-61 Annex G Compliant.

Recommended flow range

“Low lead CS” Manual Balancing Valve		
Size	Recommended Flow range [GPM]	Connection ends
1/2”	0.7 - 3.0	FNPT x FNPT Sweat x Sweat
3/4”	1.3 - 5.9	
1”	3.4 - 15.4	
1 1/4”	7.2 - 32.3	
1 1/2”	11.5 - 51.3	
2”	17.0 - 76.0	



Cv table for various settings

Percent open	1/2”	3/4”	1”	1 1/4”	1 1/2”	2”
20	-	-	-	1.4	2.0	1.8
30	-	0.6	1.0	3.7	6.9	9
40	0.7	1.4	1.7	7.4	11	17
50	1.2	2.3	4.4	12	18	27
60	1.7	3.2	6.2	17	28	44
70	2.5	4.7	9.2	25	40	64
80	-	-	-	37	61	90
100	5.4	10.5	28	58	90	140



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SUBMITTAL

INDIAN HILL MIDDLE SCHOOL
CIRCUIT SETTER

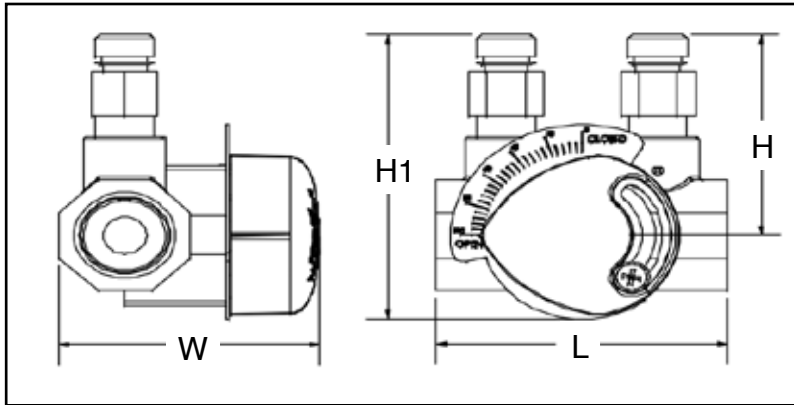


PREPARED FOR:

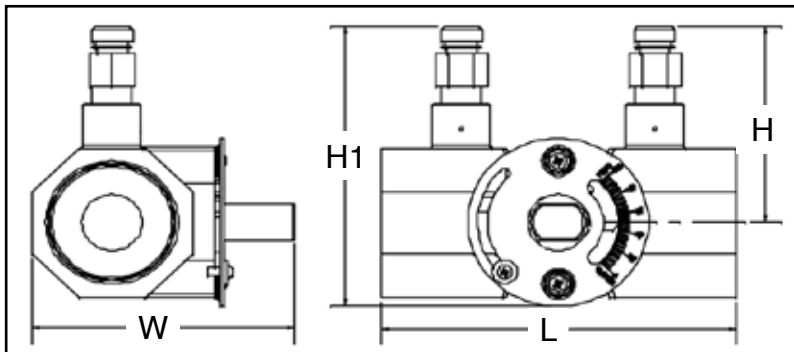
FELDKAMP ENT



Job Name:	Submitted by:	Date:
	Spec Section:	
Job Location:	Engineer/Architect:	
	Approval:	Date:



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