

**23 05 23 01 VALVE SERVICE INDEX**

**DATE: 1-Aug-21**

GENERAL (1)				COMPLIANCE		PIPING (6, 7)			VALVES (REFERENCE SECTION 23 05 23)					
CATEGORY	LABEL INFO	SERVICE INFORMATION	LABEL COLOR (2)	CODE (4)	FLUID (5)	SIZE RANGE	SECTION	PIPING MATERIAL	ISOLATION (3)				THROTTLE	FLOW DIRECTION
									BALL - BA-XX	B'FLY - BF-XX	GATE - GA-XX	PLUG - PL-XX	GLOBE - GL-XX	CHECK - CK-XX
DRAIN	COND	A/C COIL CONDENSATE	B ON Y	PLUM CODE	-	4" & LESS	23 21 13	CT-01						
DRAIN	PUMPED DISCHARGE	PUMPED SANITARY WASTE, ABOVE GR ONLY	B ON Y	PLUM CODE	-	1-1/2" - 6"	23 21 13	CS-04						
DRAIN	SANITARY SEWER	SANITARY, WASTE, AND DRAIN SYSTEM, (BELOW GRADE)	B ON Y	PLUM CODE	-	1-1/2" - 6"	23 21 13	CI-01						CK-6
		SANITARY, WASTE, AND DRAIN SYSTEM, (ABOVE GRADE)		PLUM CODE	-	1-1/2" - 6"	23 21 13	CI-01						CK-6
DRAIN	RAINWATER	STORM DRAIN	B ON Y	PLUM CODE	-	1-1/2" - 10"	23 21 13	CI-01						
		STORM DRAIN (BELOW GRADE)		PLUM CODE	-	1-1/2" - 12"	23 21 13	CI-01						
DRAIN	RAINWATER PUMPED	STORM DRAIN, PUMPED	W ON G	PLUM CODE	-	1-1/2" - 6"	23 21 13	CS-04						
GAS	COMPRESSED AIR	COMPRESSED AIR (CLEAN LAB AIR)	W ON B	B31.3	D	4" & LESS	23 21 13	CT01	BA-6					
GAS	COMPRESSED AIR	COMPRESSED AIR (MEDICAL AIR)	W ON B	B31.3	D	4" & LESS	23 21 13	CT01	BA-5					
GAS	NG	NATURAL GAS - ABOVE GRADE	B ON Y	IFC /B31.3	N	3" & LESS	23 21 13	CS01	BA-4			PL-1		
OTHER	FOR/S	FUEL OIL RETURN/SUPPLY	B ON Y	B31.3	N	3" & LESS	23 21 13	CS01	BA-4			PL-2		
OTHER	VACUUM	VACUUM PROCESS SYSTEM	W ON B	B31.3	D	4" & LESS	23 21 13	CT01	BA-5					
WATER	CHWR/S	CHILLED WATER RETURN/SUPPLY	W ON G	B31.3	D	2" & LESS	23 21 13	CS01	BA-2					
						2-1/2" - 24"	23 21 13	CS01		BF-3				
						2" & LESS	23 21 13	CT01 & CT02	BA-2					

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CATEGORY	LABEL INFO	SERVICE INFORMATION	LABEL COLOR (2)	CODE (4)	FLUID (5)	SIZE RANGE	SECTION	PIPING MATERIAL	ISOLATION (3)				THROTTLE	FLOW DIRECTION
									BALL - BA-XX	B'FLY - BF-XX	GATE - GA-XX	PLUG - PL-XX	GLOBE - GL-XX	CHECK - CK-XX
WATER	CW	CITY SERVICE POTABLE WATER	W ON G	PLUMB CODE	-	2-1/2" & LESS	23 21 13	Note 11	Note 10	Note 10	Note 10	Note 10	Note 10	
						3" & UP	23 21 13	Note 11	Note 10	Note 10	Note 10	Note 10	Note 10	
WATER	LPR	LOW PRESSURE CONDENSATE RETURN	W ON G	B31.3	-	2" & LESS	23 21 13	CS03	BA-1		GA-1		GL-1	CK-1
						2-1/2" & UP	23 21 13	CS03		BF-1, 2	GA-2,3			
WATER	MPR	MED. PRESSURE CONDENSATE RETURN	W ON G	B31.3	-	2" & LESS	23 21 13	CS03	BA-1		GA-1		GL-1	CK-1
						2-1/2" & UP	23 21 13	CS03		BF-1, 2	GA-2,3			
WATER	HPR	HIGH PRESSURE CONDENSATE RETURN	W ON G	B31.3	-	2" & LESS	23 21 13	CS03	BA-1		GA-1		GL-1	CK-1
						2-1/2" & UP	23 21 13	CS03		BF-1, 2	GA-2,3			
WATER	HPC, MPC, LPC	PUMPED CONDENSATE	W ON G	B31.3	-	2" & LESS	23 21 13	CS03	BA-1		GA-1		GL-1	CK-1
						2-1/2" & UP	23 21 13	CS03		BF-1, 2	GA-2,3			
WATER	COND R/S	CONDENSER WATER RETURN/SUPPLY	W ON G	B31.3	-	2" & LESS	23 21 13	CS01	BA-2					
						2-1/2" - 24"	23 21 13	CS01		BF-3	GA-4 (8)			
						2" & LESS	23 21 13	CT01 & CT02	BA-2					
WATER	COLD WATER	COLD WATER SUPPLY/MAKE-UP	W ON G	PLUM CODE	-	4" & LESS	23 21 13	CT01 & CT02	BA-3					
							23 21 13							
WATER	GS, GR	GLYCOL SUPPLY GLYCOL RETURN	W ON G	B31.3	-	2" & LESS	23 21 13	CS01	BA-2					
						2-1/2" - 24"	23 21 13	CS01		BF-3	GA-4 (8)			
						2" & LESS	23 21 13	CT01 & CT02	BA-2					
WATER	HWS/R	HEATING HOT WATER SUPPLY/RETURN	W ON G	B31.3	-	2" & LESS	23 21 13	CS01	BA-2					
						2-1/2" - 24"	23 21 13	CS01		BF-3	GA-4 (8)			
						2" & LESS	23 21 13	CT01 & CT02	BA-2					
WATER	FPCWS/R	PROCESS COOLING WATER SUPPLY/RETURN	W ON G	B31.3	-	2" & LESS	23 21 13	CT01 & CT02	BA-2					
						2-1/2" - 24"	23 21 13	CT01		BF-3				
WATER	LPCWS/R	LAB PROCESS COOLING WATER SUPPLY/RETURN	W ON G	B31.3	-	2" & LESS	23 21 13	CT01 & CT02	BA-2					
						2-1/2" - 24"	23 21 13	CT01		BF-3				

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CATEGORY	LABEL INFO	SERVICE INFORMATION	LABEL COLOR (2)	CODE (4)	FLUID (5)	SIZE RANGE	SECTION	PIPING MATERIAL	ISOLATION (3)				THROTTLE	FLOW DIRECTION
									BALL - BA-XX	B'FLY - BF-XX	GATE - GA-XX	PLUG - PL-XX	GLOBE - GL-XX	CHECK - CK-XX
WATER	POTABLE COLD / HOT WATER	POTABLE WATER	W ON G	PLUM CODE	-	4" & LESS	23 21 13	CT01 & CT02	BA-3		GA-5			
WATER	NON-POTABLE COLD / HOT WATER	NON-POTABLE WATER	W ON G	PLUM CODE	-	4" & LESS	23 21 13	CT01 & CT02	BA-3		GA-5			
WATER	TEMPERED WATER	TEMPERED WATER		PLUM CODE	-	4" & LESS	23 21 13	CT01 & CT02	BA-3		GA-5			
WATER	WW	WELL WATER	W ON G	B31.3	-	4" & LESS	23 21 13		BA-3					
STEAM	LPS	LOW-PRESSURE STEAM (LPS)	W ON G	B31.3	-	2" & LESS	23 21 13	CS02	BA-1		GA-1		GL-1	
						2-1/2" & UP	23 21 13	CS02		BF-1, 2	GA-2,3			
STEAM	MPS	MEDIUM-PRESSURE STEAM (MPS)	W ON G	B31.3	-	2" & LESS	23 21 13	CS02	BA-1		GA-1		GL-1	
						2-1/2" & UP	23 21 13	CS02		BF-1, 2	GA-2,3			
STEAM	HPS	HIGH-PRESSURE STEAM (HPS)	W ON G	B31.3	-	2" & LESS	23 21 13	CS02	BA-1		GA-1		GL-1	
						2-1/2" & UP	23 21 13	CS02		BF-1, 2	GA-2,3			
VENT	VENT	VENT, LOW PRESSURE STEAM		B31.3	-	2-1/2" & LESS	23 21 13	CS02						
						3" & UP	23 21 13	CS02						

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									ISOLATION (3)				THROTTLE	FLOW DIRECTION
CATEGORY	LABEL INFO	SERVICE INFORMATION	LABEL COLOR (2)	CODE (4)	FLUID (5)	SIZE RANGE	SECTION	PIPING MATERIAL	BALL - BA-XX	B'FLY - BF-XX	GATE - GA-XX	PLUG - PL-XX	GLOBE - GL-XX	CHECK - CK-XX

**NOTES**

(1) SYSTEMS SHOWN REPRESENT TYPICAL SYSTEM SIZES AND MATERIALS, FOR ANY SYSTEMS NOT SHOWN OR FOR DEVIATION FROM DATA ABOVE, CONTACT FACILITY ENGINEERING FOR GUIDANCE AND APPROVAL.

(2) LABEL COLOR LEGEND:

- W ON B = WHITE TEXT ON BLUE BACKGROUND
- W ON G = WHITE TEXT ON GREEN BACKGROUND
- W ON R = WHITE TEXT ON RED BACKGROUND
- B ON Y = BLACK TEXT ON YELLOW BACKGROUND
- COMPLY WITH SECTION 01080, IDENTIFICATION SYSTEMS FOR LABEL INFORMATION AND PAINTING REQUIREMENTS

(3) EOR IS RESPONSIBLE FOR SPECIFYING THE APPROPRIATE PRESSURE CLASS. FOR EXAMPLE, GA-2=150 PSIG, AND GA-3=300 PSIG

(4) CODE IS ANSI / ASME UNLESS OTHERWISE INDICATED

PLUMBING CODE IS: OFFICIAL COMPILATION OF CODES, RULES & REGULATIONS OF THE STATE OF CONNECTICUT

(5) FLUID CATEGORY AS PER ASME B31.3

- N = NORMAL FLUID SERVICE
- D = CATEGORY D FLUID SERVICE
- M = CATEGORY M FLUID SERVICE
- H = HIGH PRESSURE FLUID SERVICE
- NA = NOT APPLICABLE

(6) "NO REFERENCED NOTE APPLIES"

(7) "NO REFERENCED NOTE APPLIES"

(8) GATE VALVES ARE ONLY ALLOWED FOR REPLACING EXISTING GATE TYPE VALVES IN KIND. NEW DESIGNS SHALL INCORPORATE BUTTERFLY AND OR BALL TYPE VALVES.

(9) CHECK VALVE FOR DISCHARGE OF PUMP, FOR PARALLEL PUMP APPLICATIONS

(10) SERVICE VALVES FOR CITY WATER SHALL CONFORM TO RWA REQUIREMENTS, SEE RWA "RULES AND REGULATIONS FOR WATER SERVICE" DOCUMENT.

(11) PIPE AND FITTINGS SHALL CONFORM TO RWA REQUIREMENTS, PLASTIC PIPE FOR WATER SERVICE IS PROHIBITED.