

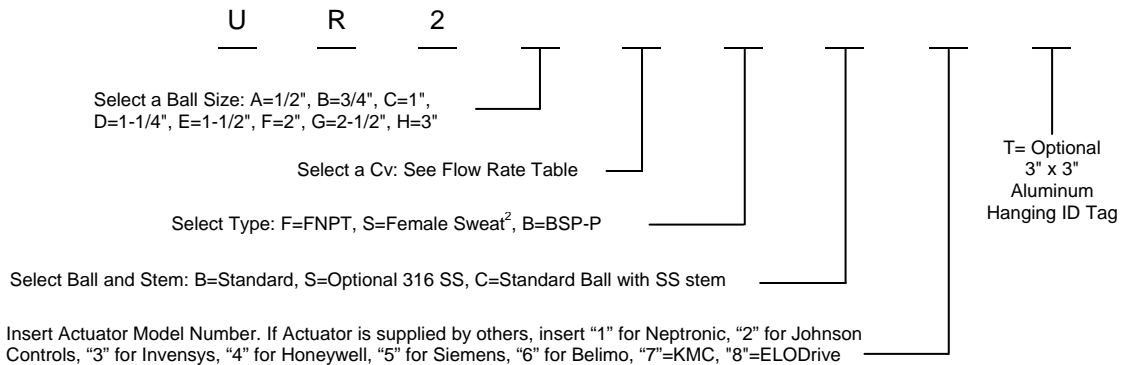
SPECIFICATIONS

- Static Pressure/Temp Service:** 360 PSI / 250°F (600 WOG)
Chilled water, hot water, up to 50% Glycol, or contact factory for additional fluids.
- Flow Optimizer:** Glass Filled Polymer
- Body Material:** Forged Brass ASTM B283-06
- End Connections:** Brass – NPT, Sweat or BSP
- Field Repairable Stem:** Dual Teflon seals and EPDM O-ring
- Stem Seals:** EPDM O-Rings
- Ball Valve:** Nickel-plated brass ball
Optional: Stainless Steel ball
- Ball Seals:** Teflon Seals with EPDM O-Rings
- Angle of Rotation:** 0–90°

DIMENSIONS & WEIGHTS (NOMINAL) (measured in inches and lbs unless noted)

SIZE	MODEL NO.	Cv	A: LENGTH		B: HEIGHT	C: LENGTH ¹		D: DEPTH (NOT SHOWN)	E: HANDLE	F: HEIGHT	WEIGHT	
			FNPT	SWT		FNPT	SWT					
1/2"	UR2A__	0.38, 0.68, 1.3, 2.6, 4.7, 11.7	2.37	2.28	3.57	6.65	6.65	3.00	2.02	8.23	1.0	
		8.0	2.64	3.03		6.52	6.73			8.43		
3/4"	UR2B__	0.31, 0.63, 1.2, 2.5, 4.3, 14.7	2.37	2.70	3.57	6.41	6.54	3.00	2.02	8.23	1.0	
		10.1, 28.6	2.64	2.90		6.52	6.65			8.43		
1"	UR2C__	9.0, 28.4	3.73	3.94	3.83	7.08	6.65	3.00	2.02	8.43	1.0	
		4.4, 15.3, 54.2	3.05	3.43		4.08	6.73			7.10		8.80
		26.1, 43.9	4.40	4.43		4.58	7.40			7.42		9.00
1-1/4"	UR2D__	4.4, 8.3, 14.9, 41.1	3.01	3.43	4.08	6.71	7.10	3.00	2.02	8.80	1.4	
		36.5, 102.3	3.60	3.85		4.58	7.00			7.13		9.22
1-1/2"	UR2E__	22.8, 73.9	3.43	4.92	4.08	6.92	7.66	3.00	2.02	9.22	2.4	
		41.3, 171.7	3.70	4.53		5.31	7.06			7.50		9.00
2"	UR2F__	41.7, 108.0	3.98	5.04	5.31	7.19	7.72	3.00	2.02	9.00	3.2	
		57.0, 71.1, 100.0, 210, 266	4.41	5.59		5.89	7.41			8.00		10.62
2-1/2"	UR2G__	45.0, 55.0, 72.3, 101, 162, 202	4.70	N/A ²	5.89	7.56	N/A	3.00	2.02	10.62	5.5	
3"	UR2H__	49.0, 63.0, 82.0, 124, 145	5.02	N/A ²	6.03	7.71	N/A	4.00	2.02	10.83	5.9	

MODEL NUMBER SELECTION



NOTES

¹ Dimension "C" is maximum length, which is measured from end fitting or mounting plate, whichever extends farther.
² Sweat ends are not available on 2-1/2" and 3" valves.

Replaces form F-4206

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Cv SELECTION AND FLOW RATE TABLE (GPM)

LINE SIZE	MODEL NO.	FULL ³ PORT	CLOSE OFF ΔP ⁴	FLOWRATE (GPM) @ DIFFERENTIAL PRESSURE (PSI) ACROSS VALVE											
				2-Position HVAC Apps					HVAC Modulating Apps						
				Cv ⁵		1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	7.0	10.0
0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	7.0	10.0				
1/2"	UR2A1		130PSI	0.3	0.38	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.8	1.0	1.2
	UR2A2			0.5	0.68	0.8	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.8	2.2
	UR2A3			0.9	1.3	1.6	1.8	2.1	2.3	2.4	2.6	2.8	2.9	3.4	4.1
	UR2A4			1.8	2.6	3.2	3.7	4.1	4.5	4.9	5.2	5.5	5.8	6.9	8.2
	UR2A5			3.3	4.7	5.8	6.6	7.4	8.1	8.8	9.4	10.0	10.5	12.4	14.9
	UR2A6	•		8.3	11.7	14.3	16.5	18.5	20.3	21.9	23.4	24.8	26.2	31.0	37.0
UR2A7		5.7	8.0	9.8	11.3	12.6	13.9	15.0	16.0	17.0	17.9	21.2	25.3		
3/4"	UR2B6		130PSI	0.2	0.31	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	1.0
	UR2B7			0.4	0.63	0.8	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.7	2.0
	UR2B8			0.8	1.2	1.5	1.7	1.9	2.1	2.2	2.4	2.5	2.7	3.2	3.8
	UR2B1			1.8	2.5	3.1	3.5	4.0	4.3	4.7	5.0	5.3	5.6	6.6	7.9
	UR2B2			3.0	4.3	5.3	6.1	6.8	7.4	8.0	8.6	9.1	9.6	11.4	13.6
	UR2B3	•		10.4	14.7	18.0	20.8	23.2	25.5	27.5	29.4	31.2	32.9	38.9	46.5
	UR2B4			7.1	10.1	12.4	14.3	16.0	17.5	18.9	20.2	21.4	22.6	26.7	31.9
UR2B5	•	20.2	28.6	35.0	40.4	45.2	49.5	53.5	57.2	60.7	64.0	75.7	90.4		
1"	UR2C1		100PSI	6.4	9.0	11.0	12.7	14.2	15.6	16.8	18.0	19.1	20.1	23.8	28.5
	UR2C2	•		20.1	28.4	34.8	40.2	44.9	49.2	53.1	56.8	60.2	63.5	75.1	89.8
	UR2C7			3.1	4.4	5.4	6.2	7.0	7.6	8.2	8.8	9.3	9.8	11.6	13.9
	UR2C3			10.8	15.3	18.7	21.6	24.2	26.5	28.6	30.6	32.5	34.2	40.5	48.4
	UR2C4	•		38.3	54.2	66.4	76.7	85.7	93.9	101.4	108.4	115.0	121.2	143.4	171.4
	UR2C5			18.5	26.1	32.0	36.9	41.3	45.2	48.8	52.2	55.4	58.4	69.1	82.5
UR2C6	•	31.0	43.9	53.8	62.1	69.4	76.0	82.1	87.8	93.1	98.2	116.1	138.8		
1-1/4"	UR2D5		100PSI	3.1	4.4	5.4	6.2	7.0	7.6	8.2	8.8	9.3	9.8	11.6	13.9
	UR2D6			5.9	8.3	10.2	11.7	13.1	14.4	15.5	16.6	17.6	18.6	22.0	26.4
	UR2D1			10.5	14.9	18.2	21.1	23.6	25.8	27.9	29.8	31.6	33.3	39.4	47.1
	UR2D2	•		29.1	41.1	50.3	58.1	65.0	71.2	76.9	82.2	87.2	91.9	108.7	130.0
	UR2D3			25.8	36.5	44.7	51.6	57.7	63.2	68.3	73.0	77.4	81.6	96.6	115.4
UR2D4	•	72.3	102.3	125.3	144.7	161.8	177.2	191.4	205	217	229	271	324		
1-1/2"	UR2E1		100PSI	16.1	22.8	27.9	32.2	36.0	39.5	42.7	45.6	48.4	51.0	60.3	72.1
	UR2E2	•		52.3	73.9	90.5	104.5	116.8	128.0	138.3	147.8	156.8	165.2	195.5	234
	UR2E3			29.2	41.3	50.6	58.4	65.3	71.5	77.3	82.6	87.6	92.3	109.3	130.6
	UR2E4	•		121.4	171.7	210	243	272	297	321	343	364	384	454	543
2"	UR2F1		100PSI	29.5	41.7	51.1	59.0	65.9	72.2	78.0	83.4	88.5	93.2	110.3	131.9
	UR2F2	•		76.4	108.0	132.3	152.7	170.8	187.1	202	216	229	242	286	342
	UR2F5			40.3	57.0	69.8	80.6	90.1	98.7	106.6	114.0	120.9	127.5	150.8	180.2
	UR2F3			50.3	71.1	87.1	100.6	112.4	123.1	133.0	142.2	150.8	159.0	188.1	225
	UR2F6			70.7	100.0	122.5	141.4	158.1	173.2	187.1	200	212	224	265	316
	UR2F7			148.5	210	257	297	332	364	393	420	445	470	556	664
UR2F4	•	188.1	266	326	376	421	461	498	532	564	595	704	841		
2-1/2"	UR2G2		100PSI	31.8	45.0	55.1	63.6	71.2	77.9	84.2	90.0	95.5	100.6	119.1	142.3
	UR2G3			38.9	55.0	67.4	77.8	87.0	95.3	102.9	110.0	116.7	123.0	145.5	173.9
	UR2G4			50.9	72.0	88.2	101.8	113.8	124.7	134.7	144.0	152.7	161.0	190.5	228
	UR2G5			71.4	101.0	123.7	142.8	159.7	174.9	189.0	202.0	214.3	225.8	267.2	319
	UR2G6			114.6	162.0	198.4	229	256	281	303.1	324	344	362	429	512
	UR2G7	•		142.8	202	247	286	319	350	378	404	429	452	534	639
3"	UR2H1		100PSI	34.6	49.0	60.0	69.3	77.5	84.9	91.7	98.0	103.9	109.6	129.6	155.0
	UR2H2			44.5	63.0	77.2	89.1	99.6	109.1	117.9	126.0	133.6	140.9	166.7	199.2
	UR2H3			58.0	82.0	100.4	116.0	129.7	142.0	153.4	164.0	173.9	183.4	217	259
	UR2H4			87.7	124.0	151.9	175.4	196.1	215	232	248	263	277	328	392
	UR2H5	•		102.5	145.0	177.6	205	229	251	271	290	308	324	384	459

NOTES

³ These valves are full port and do not have the Optimizer insert.

⁴ Close-Off Pressures measured with 35 in-lb. actuator. The "Close Off Pressure" is the maximum allowable pressure drop across the valve body when the valve is fully closed. (Do not use actuators with torques higher than 90 in-lbs)

⁵ Cv is defined as the quantity of water in GPM at 60°F that will flow through a given valve with a pressure drop of 1PSI. Hence the 1.0 PSI pressure differential column in the table above is equivalent to the Cv value.

Replaces form F-4206

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