

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 (Lead Free¹ Brass Available)

End Connections: Brass – NPT 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

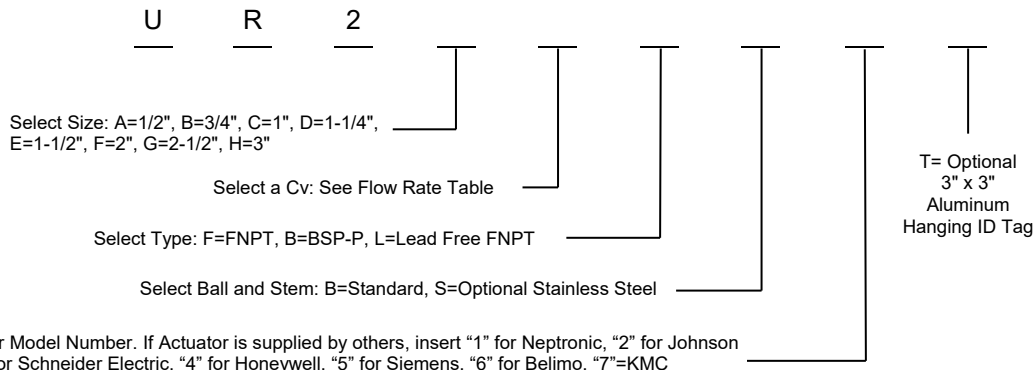
Ball Seals: Teflon Seals with EPDM O-Rings

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 ²		D:DEPTH (NOT SHOWN)	E:HANDLE	F:HEIGHT	WEIGHT
			FNPT	BSP		FNPT	BSP				
1/2"	UR2A__	0.38, 0.68 ,1.3, 2.6, 4.7, 8.0, 11.7	2.37	2.37	3.78	6.65	6.65	3.00	2.02	8.32	1.0
3/4"	UR2B__	0.31, 0.63, 1.2, 2.5, 4.3, 7.0,14.7	2.41	2.41	3.78	6.65	6.65	3.00	2.02	8.62	1.2
		10.1, 28.6	2.76	2.76	4.05	6.65	6.65			8.62	
1"	UR2C__	9.0, 28.4	2.76	2.76	4.10	6.65	6.65	3.00	2.02	8.64	1.2
		4.4, 15.3, 26.1, 43.9, 54.2	3.04	3.04	4.39	6.73	6.73			8.96	1.5
1-1/4"	UR2D__	4.4, 8.3, 14.9, 25.0, 41.1	3.01	3.01	4.49	6.71	6.71	3.00	2.02	9.02	1.5
		36.5, 102.3	3.62	3.62	4.87	7.05	7.05			9.45	2.6
1-1/2"	UR2E__	22.8, 30.0, 73.9	3.43	3.43	4.87	6.96	6.96	3.00	2.02	9.45	2.6
		41.3, 171.7	4.06	4.06	5.44	7.27	7.27			10.02	3.2
2"	UR2F__	41.7, 108.0	3.98	3.98	5.44	7.21	7.21	3.50	2.02	10.02	3.2
		57.0, 71.1, 100.0, 210, 266	4.90	4.90	6.06	7.69	7.69			10.65	5.0
2-1/2"	UR2G__	45.0, 55.0, 72.3, 101,162, 202	5.35	5.35	6.06	7.91	7.91	3.50	2.02	10.65	5.5
3"	UR2H__	49.0, 63.0, 82.0, 124, 145	5.73	5.73	6.38	8.10	8.10	4.00	2.02	10.91	6.4

MODEL NUMBER SELECTION



NOTES

¹ Contains less than 0.25% lead content on wetted surfaces, is certified to meet current legislation, and is compliant with NSF-61G standards.
² Dimension "C" is maximum length, which is measured from end fitting or mounting plate, whichever extends farther.

Replaces form F-4206

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Cv SELECTION AND FLOW RATE TABLE (GPM)

LINE SIZE	MODEL NO.	FULL ³ PORT	CLOSE OFF Δ P ⁴	FLOWRATE (GPM) @ DIFFERENTIAL PRESSURE (PSI) ACROSS VALVE											
				2-Position HVAC Apps		HVAC Modulating Apps									
				Cv ⁵	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	7.0
1/2"	UR A1		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
	UR A2			0.5	0.68	0.8	1.0	1.1	1.2	1.3	1.4	1.4	1.5	1.8	2.2
	UR A3			0.9	1.3	1.6	1.8	2.1	2.3	2.4	2.6	2.8	2.9	3.4	4.1
	UR A4			1.8	2.6	3.2	3.7	4.1	4.5	4.9	5.2	5.5	5.8	6.9	8.2
	UR A5			3.3	4.7	5.8	6.6	7.4	8.1	8.8	9.4	10.0	10.5	12.4	14.9
	UR A6	•		8.3	11.7	14.3	16.5	18.5	20.3	21.9	23.4	24.8	26.2	31.0	37.0
	UR A7			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"	UR B6		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
	UR B7			0.4	0.63	0.8	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.7	2.0
	UR B8			0.8	1.2	1.5	1.7	1.9	2.1	2.2	2.4	2.5	2.7	3.2	3.8
	UR B1			1.8	2.5	3.1	3.5	4.0	4.3	4.7	5.0	5.3	5.6	6.6	7.9
	UR B2			3.0	4.3	5.3	6.1	6.8	7.4	8.0	8.6	9.1	9.6	11.4	13.6
	UR B9			4.9	7.0	8.6	9.9	11.1	12.1	13.1	14.0	14.8	15.7	18.5	22.1
	UR B3	•		10.4	14.7	18.0	20.8	23.2	25.5	27.5	29.4	31.2	32.9	38.9	46.5
1"	UR C1		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
	UR C2	•		20.1	28.4	34.8	40.2	44.9	49.2	53.1	56.8	60.2	63.5	75.1	89.8
	UR C7			3.1	4.4	5.4	6.2	7.0	7.6	8.2	8.8	9.3	9.8	11.6	13.9
	UR C3			10.8	15.3	18.7	21.6	24.2	26.5	28.6	30.6	32.5	34.2	40.5	48.4
	UR C4	•		38.3	54.2	66.4	76.7	85.7	93.9	101.4	108.4	115.0	121.2	143.4	171.4
	UR C5			18.5	26.1	32.0	36.9	41.3	45.2	48.8	52.2	55.4	58.4	69.1	82.5
	UR C6			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"	UR D5		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
	UR D6			5.9	8.3	10.2	11.7	13.1	14.4	15.5	16.6	17.6	18.6	22.0	26.4
	UR D1			10.5	14.9	18.2	21.1	23.6	25.8	27.9	29.8	31.6	33.3	39.4	47.1
	UR D7			17.7	25.0	30.6	35.4	39.5	43.3	46.8	50.0	53.0	55.9	66.1	79.1
	UR D2	•		29.1	41.1	50.3	58.1	65.0	71.2	76.9	82.2	87.2	91.9	108.7	130.0
	UR D3			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"	UR E1		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
	UR E5			21.2	30.0	36.7	42.4	47.4	52.0	56.1	60.0	63.6	67.1	79.4	94.9
	UR E2	•		52.3	73.9	90.5	104.5	116.8	128.0	138.3	147.8	156.8	165.2	195.5	234
	UR E3			29.2	41.3	50.6	58.4	65.3	71.5	77.3	82.6	87.6	92.3	109.3	130.6
	UR E4	•		121.4	171.7	210	243	272	297	321	343	364	384	454	543
2"	UR F1		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
	UR F2	•		76.4	108.0	132.3	152.7	170.8	187.1	202	216	229	242	286	342
	UR F5			40.3	57.0	69.8	80.6	90.1	98.7	106.6	114.0	120.9	127.5	150.8	180.2
	UR F3			50.3	71.1	87.1	100.6	112.4	123.1	133.0	142.2	150.8	159.0	188.1	225
	UR F6			70.7	100.0	122.5	141.4	158.1	173.2	187.1	200	212	224	265	316
	UR F7			148.5	210	257	297	332	364	393	420	445	470	556	664
	UR F4	•		188.1	266	326	376	421	461	498	532	564	595	704	841
2-1/2"	UR G2		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
	UR G3			38.9	55.0	67.4	77.8	87.0	95.3	102.9	110.0	116.7	123.0	145.5	173.9
	UR G4			50.9	72.0	88.2	101.8	113.8	124.7	134.7	144.0	152.7	161.0	190.5	228
	UR G5			71.4	101.0	123.7	142.8	159.7	174.9	189.0	202.0	214.3	225.8	267.2	319
	UR G6			114.6	162.0	198.4	229	256	281	303.1	324	344	362	429	512
	UR G7	•		142.8	202	247	286	319	350	378	404	429	452	534	639
	3"	UR H1			100PSI	34.6	49.0	60.0	69.3	77.5	84.9	91.7	98.0	103.9	109.6
UR H2			44.5	63.0		77.2	89.1	99.6	109.1	117.9	126.0	133.6	140.9	166.7	199.2
UR H3			58.0	82.0		100.4	116.0	129.7	142.0	153.4	164.0	173.9	183.4	217	259
UR H4			87.7	124.0		151.9	175.4	196.1	215	232	248	263	277	328	392
UR H5		•	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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