

MARKET FORECAST OF INDUSTRIAL VALVE SHIPMENTS IN THE U.S. FOR 2020

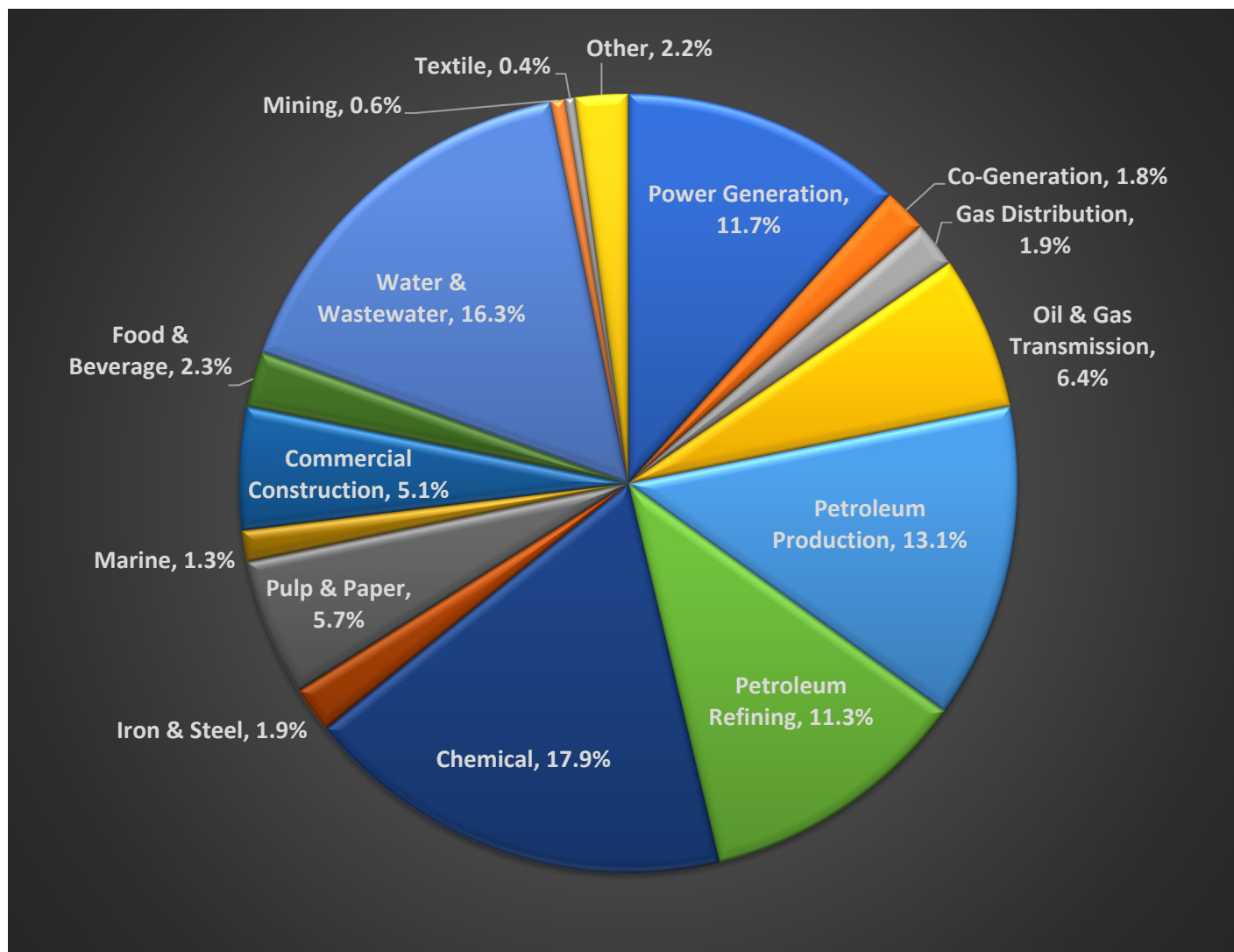
ALL DOLLARS ARE EXPRESSED IN MILLIONS (BASED ON ACTUAL SHIPMENTS IN CURRENT DOLLARS)

	a.		b.		c.		d.		e.		f.		g.		h.		i.		j.		k.		l.		2020		2020	
	GATE, GLOBE, ANGLE, CHECK		IRON		STEEL		CORROSION		BALL		INDUSTRIAL		AWWA		WATER		PLUG		PRESSURE-		DIAPHRAGM		ALL OTHER		SUB-TOTAL		TOTAL*	
	BRONZE		except		except		RESISTANT		VALVES		BUTTERFLY		BUTTERFLY		WORKS		VALVES		RELIEF		& PINCH		AUTOMATED					
			AWWA		col "d"						VALVES		VALVES		(exc. hyd.)				VALVES		VALVES		VALVES					
1. POWER GENERATION																												
Dollar Shipments	\$	1.3	\$	3.5	\$	45.6	\$	7.8	\$	29.1	\$	48.3	\$	3.5	\$	2.8	\$	8.2	\$	69.2	\$	1.1	\$	181.1	\$	401.5	\$	446.1
Percent of Total		2.2%		4.6%		15.2%		17.1%		4.5%		13.9%		4.4%		0.9%		3.1%		31.9%		1.1%		26.1%		12.7%		11.7%
2. CO-GENERATION																												
Dollar Shipments	\$	-	\$	-	\$	13.3	\$	0.7	\$	3.6	\$	3.6	\$	0.9	\$	-	\$	5.1	\$	21.4	\$	-	\$	13.8	\$	62.4	\$	69.4
Percent of Total		0.0%		0.0%		4.4%		1.5%		0.6%		1.0%		1.1%		0.0%		1.9%		9.9%		0.0%		2.0%		2.0%		1.8%
3. GAS DISTRIBUTION																												
Dollar Shipments	\$	1.0	\$	2.9	\$	6.5	\$	-	\$	19.8	\$	2.6	\$	-	\$	-	\$	15.1	\$	7.0	\$	0.5	\$	7.9	\$	63.3	\$	70.3
Percent of Total		1.7%		3.8%		2.2%		0.0%		3.1%		0.8%		0.0%		0.0%		5.7%		3.2%		0.5%		1.1%		2.0%		1.9%
4. OIL & GAS TRANSMISSION																												
Dollar Shipments	\$	1.6	\$	0.5	\$	11.8	\$	-	\$	101.8	\$	5.9	\$	-	\$	-	\$	38.9	\$	12.0	\$	4.6	\$	42.3	\$	219.4	\$	243.9
Percent of Total		2.7%		0.7%		3.9%		0.0%		15.8%		1.7%		0.0%		0.0%		14.7%		5.5%		4.5%		6.1%		7.0%		6.4%
5. PETROLEUM PRODUCTION																												
Dollar Shipments	\$	1.6	\$	3.5	\$	61.9	\$	1.4	\$	88.2	\$	36.3	\$	-	\$	-	\$	39.8	\$	11.2	\$	7.3	\$	36.1	\$	287.3	\$	499.3
Percent of Total		2.7%		4.6%		20.6%		3.1%		13.7%		10.5%		0.0%		0.0%		15.0%		5.2%		7.2%		5.2%		9.1%		13.1%
6. PETROLEUM REFINING																												
Dollar Shipments	\$	2.8	\$	8.1	\$	61.4	\$	8.6	\$	80.6	\$	39.2	\$	-	\$	-	\$	46.6	\$	27.8	\$	11.0	\$	101.3	\$	387.4	\$	430.5
Percent of Total		4.8%		10.6%		20.5%		18.9%		12.5%		11.3%		0.0%		0.0%		17.6%		12.8%		10.8%		14.6%		12.3%		11.3%
7. CHEMICAL																												
Dollar Shipments	\$	10.5	\$	10.0	\$	50.7	\$	20.6	\$	168.3	\$	69.2	\$	0.4	\$	-	\$	68.7	\$	30.4	\$	29.5	\$	153.0	\$	611.3	\$	679.3
Percent of Total		17.9%		13.1%		16.9%		45.2%		26.1%		20.0%		0.5%		0.0%		25.9%		14.0%		29.1%		22.1%		19.4%		17.9%
8. IRON & STEEL																												
Dollar Shipments	\$	4.2	\$	7.0	\$	3.8	\$	-	\$	11.8	\$	5.1	\$	0.5	\$	-	\$	3.3	\$	2.5	\$	5.1	\$	20.4	\$	63.7	\$	70.7
Percent of Total		7.2%		9.2%		1.3%		0.0%		1.8%		1.5%		0.6%		0.0%		1.2%		1.2%		5.0%		2.9%		2.0%		1.9%
9. PULP & PAPER																												
Dollar Shipments	\$	6.0	\$	7.5	\$	20.6	\$	2.0	\$	49.9	\$	28.6	\$	2.7	\$	2.4	\$	7.8	\$	4.9	\$	5.8	\$	56.0	\$	194.2	\$	215.9
Percent of Total		10.2%		9.8%		6.9%		4.4%		7.7%		8.3%		3.4%		0.7%		2.9%		2.3%		5.7%		8.1%		6.2%		5.7%
10. MARINE																												
Dollar Shipments	\$	6.1	\$	5.1	\$	4.0	\$	0.6	\$	10.8	\$	4.7	\$	-	\$	-	\$	1.2	\$	3.3	\$	3.0	\$	6.6	\$	45.4	\$	50.3
Percent of Total		10.4%		6.7%		1.3%		1.3%		1.7%		1.4%		0.0%		0.0%		0.5%		1.5%		3.0%		1.0%		1.4%		1.3%
11. COMMERCIAL CONSTRUCTION																												
Dollar Shipments	\$	14.6	\$	17.0	\$	3.6	\$	-	\$	19.8	\$	34.0	\$	3.0	\$	41.2	\$	5.3	\$	12.9	\$	6.7	\$	17.0	\$	175.1	\$	194.7
Percent of Total		24.9%		22.3%		1.2%		0.0%		3.1%		9.8%		3.8%		12.8%		2.0%		5.9%		6.6%		2.5%		5.6%		5.1%
12. FOOD & BEVERAGE																												
Dollar Shipments	\$	2.8	\$	2.0	\$	4.6	\$	3.3	\$	14.3	\$	12.1	\$	-	\$	-	\$	2.0	\$	2.2	\$	15.7	\$	20.1	\$	79.1	\$	87.9
Percent of Total		4.8%		2.6%		1.5%		7.2%		2.2%		3.5%		0.0%		0.0%		0.8%		1.0%		15.5%		2.9%		2.5%		2.3%
13. WATER & WASTEWATER																												
Dollar Shipments	\$	2.7	\$	5.8	\$	3.3	\$	-	\$	19.2	\$	44.5	\$	66.0	\$	271.7	\$	17.4	\$	5.3	\$	1.9	\$	11.5	\$	449.3	\$	618.3
Percent of Total		4.6%		7.6%		1.1%		0.0%		3.0%		12.8%		82.6%		84.6%		6.6%		2.4%		1.9%		1.7%		14.3%		16.3%
14. MINING																												
Dollar Shipments	\$	0.4	\$	0.4	\$	1.2	\$	-	\$	3.7	\$	3.1	\$	-	\$	-	\$	1.2	\$	2.2	\$	1.8	\$	7.3	\$	21.3	\$	23.8
Percent of Total		0.7%		0.5%		0.4%		0.0%		0.6%		0.9%		0.0%		0.0%		0.5%		1.0%		1.8%		1.1%		0.7%		0.6%
15. TEXTILE																												
Dollar Shipments	\$	0.1	\$	-	\$	0.8	\$	-	\$	2.3	\$	0.6	\$	-	\$	-	\$	1.0	\$	1.8	\$	1.2	\$	4.6	\$	12.4	\$	13.8
Percent of Total		0.2%		0.0%		0.3%		0.0%		0.4%		0.2%		0.0%		0.0%		0.4%		0.8%		1.2%		0.7%		0.4%		0.4%
16. OTHER																												
Dollar Shipments	\$	2.9	\$	3.1	\$	7.1	\$	0.6	\$	21.6	\$	8.8	\$	2.9	\$	3.0	\$	3.6	\$	2.9	\$	6.3	\$	13.7	\$	76.5	\$	84.8
Percent of Total		4.9%		4.1%		2.4%		1.3%		3.3%		2.5%		3.6%		0.9%		1.4%		1.3%		6.2%		2.0%		2.4%		2.2%
DOMESTIC TOTAL	\$	58.6	\$	76.4	\$	300.2	\$	45.6	\$	644.8	\$	346.6	\$	79.9	\$	321.1	\$	265.2	\$	217.0	\$	101.5	\$	692.7	\$	3,149.6	\$	3,799.0
17. EXPORTS	\$	21.6	\$	41.5	\$	144.5	\$	9.0	\$	228.6	\$	95.0	\$	7.4	\$	14.8	\$	50.3	\$	58.9	\$	9.9	\$	271.3	\$	952.8	\$	960.0
GRAND TOTAL 2020	\$	80.2	\$	117.9	\$	444.7	\$	54.6	\$	873.4	\$	441.6	\$	87.3	\$	335.9	\$	315.5	\$	275.9	\$	111.4	\$	964.0	\$	4,102.4	\$	4,759.0
TOTAL 2019	\$	79.8	\$	117.1	\$	440.0	\$	54.2	\$	865.5	\$	440.2	\$	90.2	\$	348.4	\$	313.8	\$	270.2	\$	110.6	\$	953.7	\$		\$	4,730.0
TOTAL 2018	\$	78.0	\$	114.8	\$	430.9	\$	53.8	\$	847.6	\$	435.2	\$	91.2	\$	352.1	\$	307.4	\$	266.2	\$	108.9	\$	941.4	\$		\$	4,615.0

*Adjusted to reflect end-user industry breakdown for hydrants, gates thru conduit and miscellaneous valves

ADD:	Hydrants	\$	118.9
	Gates thru Conduit	\$	180.1
	Miscellaneous	\$	357.6
		\$	4,759.0

2020 U.S. Valve Shipments by End-User Markets



Source: Valve Manufacturers Association (www.vma.org)