

# PIVA – Post Indicator Valve Assembly



## PRODUCT FEATURES

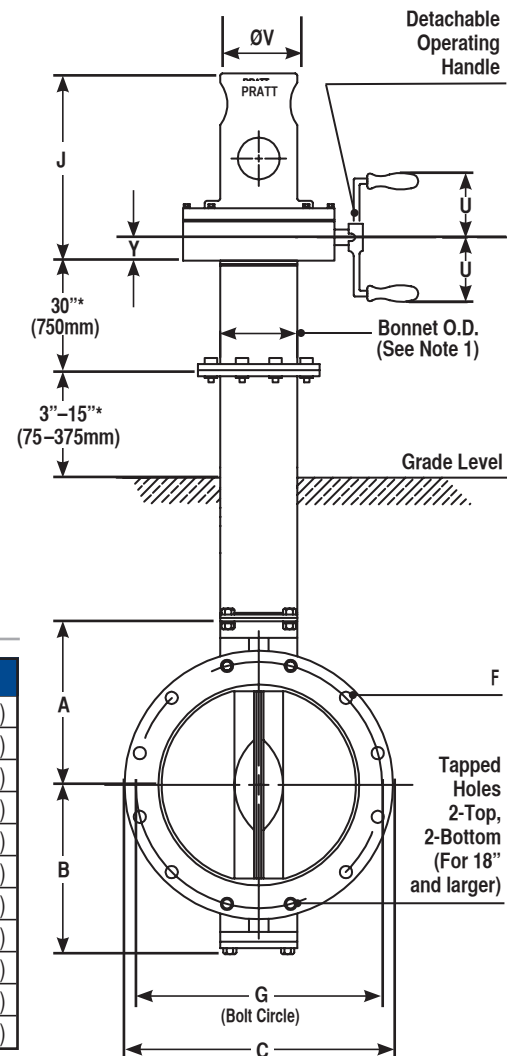
The Pratt® Post Indicator Valve Assembly (PIVA) is a manually operated, buried Butterfly Valve with a high visibility target. The PIVA includes a Torque Spring feature, if the Valve Indicator is damaged, the Torque Spring maintains the Valve in an open position.

- 3"/DN75 – 24"/DN600, UL Listed to 250psig/17barg.
- Wafer Style PIVA also available (lower pressure ratings apply).
- Torque Spring feature.
- Valve position visible from 300'/100m away.

- Ease of operation. Can be easily opened or closed by one person.
- Design includes a Safety/Traffic Break feature.
- Equipped with a weather proof Actuator.
- Does not require exercising.

## MATERIALS OF CONSTRUCTION

Body	Ductile Iron ASTM A536
Disc	Ductile Iron (3" & 4"/DN80 & DN100 CF8M)
Seat	EPDM or NBR
Shaft	Stainless Steel 17-4
Post & Spindle	Carbon Steel



## FLANGED END DIMENSIONS – inches (mm)

Valve Size	A	B	C-Flanged	C-Wafer	F=Qty-Ø Bolt -ØHole	G
3"/DN75	5 1/8 (130)	3 3/4 (95)	7 1/2 (191)	4 1/4 (108)	4 - 5/8 (16) - 3/4 (19)	6 (152)
4"/DN100	5 7/8 (149)	4 1/2 (114)	9 (229)	6 3/4 (171)	8 - 5/8 (16) - 3/4 (19)	7 1/2 (190)
6"/DN150	6 7/8 (175)	5 1/2 (140)	11 (279)	8 5/8 (219)	8 - 3/4 (19) - 7/8 (22)	9 1/2 (241)
8"/DN200	8 1/8 (206)	6 3/4 (172)	13 1/2 (343)	10 7/8 (276)	8 - 3/4 (19) - 7/8 (22)	11 3/4 (298)
10"/DN250	9 3/8 (238)	9 7/8 (251)	16 (406)	13 1/4 (337)	12 - 7/8 (22) - 1 (25)	14 1/4 (362)
12"/DN300	11 (279)	11 3/8 (289)	19 (483)	16 (406)	12 - 7/8 (22) - 1 (25)	17 (432)
14"/DN350	12 3/8 (314)	12 5/8 (321)	21 (533)	17 5/8 (448)	12 - 1 (25) - 1 1/8 (28)	18 3/4 (476)
16"/DN400	14 (356)	14 1/2 (368)	23 1/2 (597)	20 1/8 (511)	16 - 1 (25) - 1 1/8 (28)	21 1/4 (540)
18"/DN450	14 7/8 (378)	15 1/4 (387)	25 (635)	21 1/2 (546)	16 - 1 1/8 (28) - 1 1/4 (32)	22 3/4 (578)
20"/DN500	16 1/2 (419)	17 (432)	27 1/2 (698)	23 3/4 (603)	20 - 1 1/8 (28) - 1 1/4 (32)	25 (635)
24"/DN600	19 3/8 (492)	18 1/2 (470)	32 (813)	—	20 - 1 1/4 (32) - 1 1/2 (38)	29 1/2 (749)

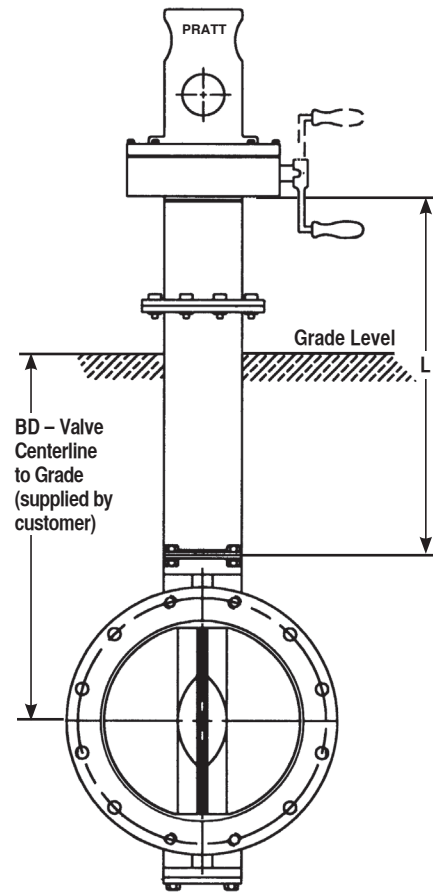
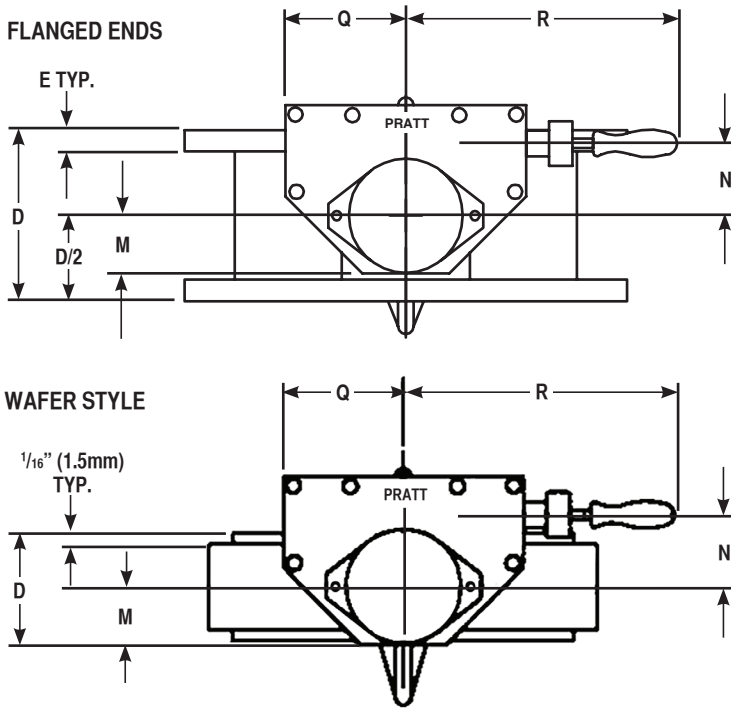
Actuator Size	Valve Size	J	U	ØV	Y	No. of Turns
MDT-2S	3"/DN75 – 8"/DN200	12 (304)	8 5/8 (219)	4 1/2 (114)	2 (51)	32
MDT-3S	10"/DN250 – 14"/DN350	12 7/8 (327)	8 5/8 (219)	4 1/2 (114)	2 7/16 (62)	30
MDT-4S	16"/DN400 – 18"/DN450	13 1/2 (343)	12 9/16 (319)	4 1/2 (114)	2 27/32 (72)	40
MDT-5	20"/DN500	14 3/4 (375)	12 9/16 (319)	4 1/2 (114)	3 1/2 (89)	44
MDT-5S	24"/DN600	17 1/4 (438)	12 9/16 (319)	4 1/2 (114)	4 (102)	136

**NOTES:**  
 1. Outer Tube O.D. is 4 1/2" (114mm) on sizes 8"/DN200 and smaller, 5 9/16" (141mm) on Valve sizes 10"/DN250 – 14"/DN350, 6 5/8" (168mm) on Valve sizes 16"/DN400 and 18"/DN450, 8 5/8" (219mm) on 20"/DN500) – 24"/DN600.

\*For sizes 20"/DN500 & 24"/DN600, grade to Gear dimension 23" (585mm) – 45" (1145mm), based on Bury Depth (BD).



# PIVA – Post Indicator Valve Assembly



## DIMENSIONS – inches (mm)

Valve Size	3"/DN75	4"/DN100	6"/DN150	8"/DN200	10"/DN250	12"/DN300	14"/DN350	16"/DN400	18"/DN450	20"/DN500	24"/DN600
D – Wafer	2 <sup>1</sup> / <sub>16</sub> (53)	2 <sup>5</sup> / <sub>16</sub> (59)	2 <sup>15</sup> / <sub>16</sub> (75)	3 <sup>1</sup> / <sub>16</sub> (78)	3 <sup>3</sup> / <sub>16</sub> (81)	3 <sup>7</sup> / <sub>16</sub> (87)	3 <sup>11</sup> / <sub>16</sub> (93)	4 <sup>3</sup> / <sub>16</sub> (106)	4 <sup>11</sup> / <sub>16</sub> (119)	5 <sup>3</sup> / <sub>16</sub> (132)	--
D – Flanged Ends	5 (127)	5 (127)	5 (127)	6 (152)	8 (203)	8 (203)	8 (203)	8 (203)	8 (203)	8 (203)	8 (203)
E – Flanged Ends	1 <sup>3</sup> / <sub>16</sub> (21)	1 (25)	1 <sup>1</sup> / <sub>16</sub> (27)	1 <sup>3</sup> / <sub>16</sub> (30)	1 <sup>1</sup> / <sub>8</sub> (27)	1 <sup>5</sup> / <sub>16</sub> (33)	1 <sup>7</sup> / <sub>16</sub> (37)	1 <sup>1</sup> / <sub>2</sub> (38)	1 <sup>5</sup> / <sub>8</sub> (41)	1 <sup>3</sup> / <sub>4</sub> (44)	1 <sup>15</sup> / <sub>16</sub> (49)

## BD (Buried Depth)

		Valve Size								
		3"/DN75	4"/DN100	6"/DN150	8"/DN200	10"/DN250	12"/DN300	14"/DN350	16"/DN400	18"/DN450
BURIED DEPTH –	BD	1'2 <sup>1</sup> / <sub>4</sub> "–2'2 <sup>1</sup> / <sub>4</sub> " (362–667)	1'3"–2'3" (381–686)	1'4"–2'4" (406–711)	1'5"–2'5" (432–737)	1'6"–2'6" (457–762)	1'8"–2'8" (508–813)	1'9"–2'9" (533–838)	1'10"–2'10" (559–867)	1'11"–2'11" (584–889)
		2'2 <sup>1</sup> / <sub>4</sub> "–3'2 <sup>1</sup> / <sub>4</sub> " (667–971)	2'3"–3'3" (686–991)	2'4"–3'4" (711–1016)	2'5"–3'5" (737–1041)	2'6"–3'6" (762–1067)	2'8"–3'8" (813–1118)	2'9"–3'9" (838–1143)	2'10"–3'10" (867–1168)	2'11"–3'11" (889–1194)
		3'2 <sup>1</sup> / <sub>4</sub> "–4'2 <sup>1</sup> / <sub>4</sub> " (971–1276)	3'3"–4'3" (991–1295)	3'4"–4'4" (1016–1321)	3'5"–4'5" (1041–1346)	3'6"–4'6" (1067–1372)	3'8"–4'8" (1118–1422)	3'9"–4'9" (1143–1448)	3'10"–4'10" (1168–1473)	3'11"–4'11" (1194–1499)
		4'2 <sup>1</sup> / <sub>4</sub> "–5'2 <sup>1</sup> / <sub>4</sub> " (1276–1581)	4'3"–5'3" (1295–1600)	4'4"–5'4" (1321–1626)	4'5"–5'5" (1346–1651)	4'6"–5'6" (1372–1676)	4'8"–5'8" (1422–1727)	4'9"–5'9" (1448–1753)	4'10"–5'10" (1473–1778)	4'11"–5'11" (1499–1803)
		5'2 <sup>1</sup> / <sub>4</sub> "–6'2 <sup>1</sup> / <sub>4</sub> " (1581–1886)	5'3"–6'3" (1600–1855)	5'4"–6'4" (1626–1930)	5'5"–6'5" (1651–1956)	5'6"–6'6" (1676–1981)	5'8"–6'8" (1727–2032)	5'9"–6'9" (1753–2057)	5'10"–6'10" (1778–2083)	5'11"–6'11" (1803–2108)
		6'2 <sup>1</sup> / <sub>4</sub> "–7'2 <sup>1</sup> / <sub>4</sub> " (1886–2191)	6'3"–7'3" (1855–2210)	6'4"–7'4" (1930–2235)	6'5"–7'5" (1956–2261)	6'6"–7'6" (1981–2286)	6'8"–7'8" (2032–2337)	6'9"–7'9" (2057–2362)	6'10"–7'10" (2083–2388)	6'11"–7'11" (2108–2413)
		7'2 <sup>1</sup> / <sub>4</sub> "–8'2 <sup>1</sup> / <sub>4</sub> " (2191–2495)	7'3"–8'3" (2210–2515)	7'4"–8'4" (2235–2540)	7'5"–8'5" (2261–2565)	7'6"–8'6" (2286–2591)	7'8"–8'8" (2337–2642)	7'9"–8'9" (2362–2667)	7'10"–8'10" (2388–2692)	7'11"–8'11" (2413–2718)

		L			
		Valve Size	3"/DN75–18"/DN450	20"/DN500	24"/DN600
BURIED DEPTH –	BD	2'6"–3'3" (762–990)	54 (1372)	49 (1245)	48 (1219)
		3'3"–4'9" (990–1448)	66 (1676)	67 (1701)	62 (1575)
		4'9"–6'3" (1448–1855)	78 (1981)	85 (2159)	80 (2032)
		6'3"–7'9" (1855–2362)	90 (2286)	103 (2616)	98 (2489)
		7'9"–9'3" (2362–2820)	102 (2591)	121 (3073)	116 (2946)
		--	114 (2896)	--	--
		126 (3200)	--	--	

Actuator Size	Valve Size	M	N	Q	R
MDT-2S	3"/DN75 – 8"/DN200	2 <sup>1</sup> / <sub>8</sub> (54)	2 (51)	4 <sup>1</sup> / <sub>2</sub> (114)	13 <sup>5</sup> / <sub>16</sub> (287)
MDT-3S	10"/DN250 – 14"/DN350	3 <sup>1</sup> / <sub>4</sub> (83)	3 <sup>5</sup> / <sub>32</sub> (80)	5 <sup>3</sup> / <sub>8</sub> (136)	15 <sup>7</sup> / <sub>16</sub> (392)
MDT-4S	16"/DN400 – 18"/DN450	3 <sup>3</sup> / <sub>8</sub> (86)	4 (102)	6 <sup>3</sup> / <sub>4</sub> (171)	18 <sup>3</sup> / <sub>4</sub> (476)
MDT-5	20"/DN500	4 <sup>1</sup> / <sub>2</sub> (114)	5 <sup>1</sup> / <sub>2</sub> (140)	10 <sup>1</sup> / <sub>8</sub> (257)	24 (610)
MDT-5S	24"/DN600	5 <sup>1</sup> / <sub>2</sub> (140)	3 <sup>5</sup> / <sub>8</sub> (92)	15 <sup>15</sup> / <sub>16</sub> (405)	26 <sup>19</sup> / <sub>32</sub> (498)

Pratt® PIVA® Valve bodies are available with Wafer or Flanged connections in sizes 3"/DN75 – 24"/DN600 in a variety of Post Lengths to accommodate varying bury depths. Each Valve Assembly is tested for five minutes with air pressure against a closed disc covered in a pool of water at the pressure above rated pressure required by UL rules. Mechanical Joint end connections are also available, please contact us for details.



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