

PRATT

Henry Pratt Company

Fire Protection Products



**Engineering Creative Solutions
for Fluid Systems Since 1901**

A Tradition of Excellence

With the development of the first rubber seated butterfly valve more than 70 years ago, the Henry Pratt Company became a trusted name in the flow control industry, setting the standard for product quality and customer service. Today Pratt provides the following range of superior products to the water, wastewater and power generation industries.

Butterfly Valves: from 3" to 162"

Rectangular Valves: 1' x 1' to 14' x 16'

Ball Valves –

Rubber Seated: from 4" to 60"

Metal Seated: from 6" to 48"

Plug Valves: from 1/2" to 72", 100% port available up to 48", 3 ways

Air Valves for Water and Wastewater: from 1/2" to 20"

Hydraulic Control Systems

Valve Controls

Energy Dissipating Valves and Fixed Energy Dissipaters

Cone Valves

Check Valves

Plunger Valves

A Commitment to Meeting The Customers' Needs

Henry Pratt valves represent a long-term commitment to both the customer and to a tradition of product excellence. This commitment is evident in the number of innovations we have brought to the industries we serve. In fact, the Henry Pratt Company was the first to introduce many of the flow control products in use today, including the first rubber seated butterfly valve, one of the first nuclear N-Stamp valves, and the bonded seat butterfly valve.

Innovative Products For Unique Applications

Though many of the standard valves we produce are used in water filtration and distribution applications, Pratt has built a reputation on the ability to develop specialized products that help customers to meet their individual operational challenges.

Creative Engineering for Fluid Systems

Pratt's ability to provide practical solutions to complex issues is demonstrated by the following case histories.

Earthquake Proof Valves

Pratt designed and manufactured hydraulically actuated valves for a water storage application so that the valves would automatically operate in the event of earthquakes. This led to the development of a valve that will withstand acceleration forces of up to 6gs.

Custom Actuation/Isolation Valves

Pratt has designed and manufactured nuclear quality quarter-turn valves and parts since the first nuclear-powered generating plants were built. Our custom valves are able to close in a millisecond, using specially designed Pratt electro-pneumatic actuators.

Valves Designed for Harsh Environments

Pratt designed and manufactured a 144" diameter butterfly valve for the emergency cooling system at a jet engine test facility. The valve was designed to supply water to help dissipate the tremendous heat generated by the engines during testing.



PRATT
Henry Pratt Company

Through experience, commitment and creative engineering, Pratt is uniquely suited to provide superior products for our customers' special needs. For more information, contact our corporate headquarters in Aurora, Illinois.

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FEATURES AND BENEFITS OF PRATT FIRE PROTECTION PRODUCTS

When Pratt designed the first Post Indicating Valve Assembly (PIVA) with the help of Factory Mutual more than thirty years ago, special emphasis was placed on providing a product that exceeds industry standards. The PIVA has been further refined since its introduction and the product line has been expanded to include the Pratt UL Groundhog and Indicating Butterfly Valve (IBV).

While other manufacturers sell industrial fire protection valves at lower costs, no product comes close to meeting the quality of design, materials and workmanship that Pratt fire protection products provide or surpass the features and benefits discussed below.

Features	Benefits
<ul style="list-style-type: none">■ The PIVA, UL Groundhog and IBV conform to AWWA C504 standards.■ The PIVA has asymmetrical construction.■ The PIVA is furnished as a complete assembly. ■ The PIVA includes a torque spring. ■ The PIVA target is visible from 300 feet away.■ The PIVA design includes sequential shear pins. ■ The PIVA FM-5 design includes a break flange. ■ The IBV and PIVA come equipped with a weather proof actuator.■ The UL Groundhog, PIVA and IBV do not require exercising.	<ul style="list-style-type: none">■ Meeting AWWA Standards ensures higher quality.■ Cannot be assembled improperly.■ No job site assembly or adjustment is required. Contractor performs installation only, thus alleviating the possibility of problems in the field. ■ If the post is sheared, the torque spring will maintain the valve in the open position thus assuring a continued supply of water. This feature is unique to the Pratt PIVA.■ Provides positive assurance of valve position.■ Pins will fracture before enough force can be applied to the target drive train to cause false indication. ■ Break flange minimizes the need to excavate the entire assembly if a vehicle damages the post. The post can be replaced without valve removal. ■ The IBV is well suited for a wide variety of severe applications including pit service. ■ Allows for trouble-free upkeep and lower maintenance costs.

PIVA® POST INDICATING VALVE ASSEMBLY

20"- 24" PIVA® FM-4

4"- 18" PIVA® FM-5



Foolproof Valve Position Indication

Orientation of valve disc to target mechanism is foolproof. Valve disc position indication is always 100 percent accurate and can be relied upon without manual testing. Protected against damage by sequential shear pin failure, valve "disc target" connection remains intact, even though operator is abused.

Simplified Operation

A detachable crank opens the valve in a counter-clockwise direction. The largest size PIVA® valve can be easily opened or closed by one person – even after many years in one position. Depending on valve size, the crank requires between 28 to 44 turns to swing the valve disc through the full 90 degrees required. This assures sufficient mechanical advantage for all operating conditions.

New Breakflange (4" - 18" Valves only)

The FM-5 PIVA® valve contains a breakflange to minimize the need to excavate the entire assembly if a vehicle were to damage the assembly, as the breakflange will separate. Reassembly of the top works can be accomplished without removing the valve from the line.

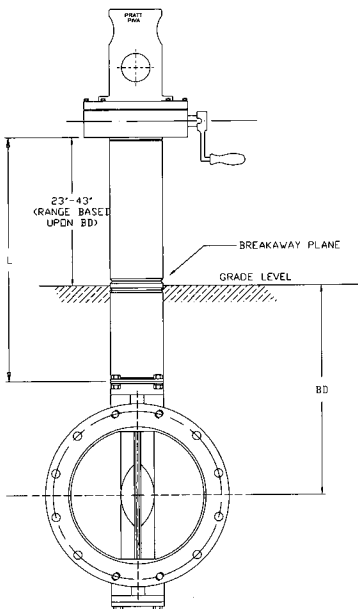
Torque Spring

The Pratt PIVA® valve contains a unique feature: the torque spring. If the valve operator fails, or if the operator and extension tube are damaged or severed by a fire truck or other emergency vehicle, the torque spring will maintain the valve in the open position.



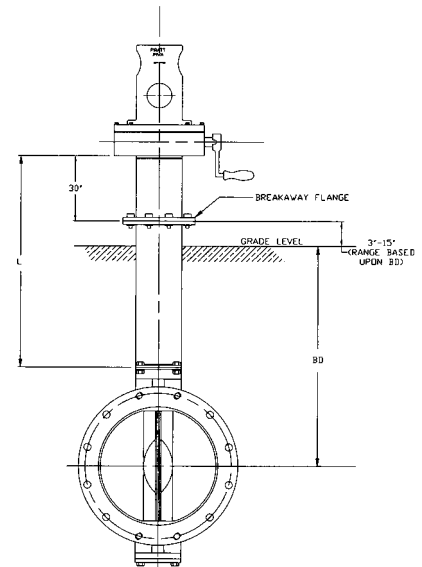
DETERMINING PIVA® BONNET LENGTH

20"- 24"



BD (Buried Depth)	20 & 24 Inch Valve Sizes	L 20" Size	L 24" Size
	2'6" to 3'3"	49"	48"
3'3" to 4'9"	67"	62"	
4'9" to 6'3"	85"	80"	
6'3" to 7'9"	103"	98"	
7'9" to 9'3"	121"	116"	

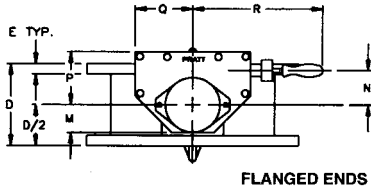
4"- 18"



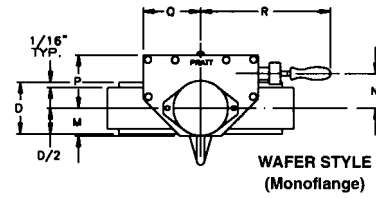
PIVA BURIAL DEFINED

BD (Buried Depth)	Valve Size								L
	4	6	8	10	12	14	16	18	4" to 18"
1'3" to 2'3"	1'4" to 2'4"	1'5" to 2'5"	1'6" to 2'6"	1'8" to 2'8"	1'9" to 2'9"	1'10" to 2'10"	1'11" to 2'11"	54"	
2'3" to 3'3"	2'4" to 3'4"	2'5" to 3'5"	2'6" to 3'6"	2'8" to 3'8"	2'9" to 3'9"	2'10" to 3'10"	2'11" to 3'11"	66"	
3'3" to 4'3"	3'4" to 4'4"	3'5" to 4'5"	3'6" to 4'6"	3'8" to 4'8"	3'9" to 4'9"	3'10" to 4'10"	3'11" to 4'11"	78"	
4'3" to 5'3"	4'4" to 5'4"	4'5" to 5'5"	4'6" to 5'6"	4'8" to 5'8"	4'9" to 5'9"	4'10" to 5'10"	4'11" to 5'11"	90"	
5'3" to 6'3"	5'4" to 6'4"	5'5" to 6'5"	5'6" to 6'6"	5'8" to 6'8"	5'9" to 6'9"	5'10" to 6'10"	5'11" to 6'11"	102"	
6'3" to 7'3"	6'4" to 7'4"	6'5" to 7'5"	6'6" to 7'6"	6'8" to 7'8"	6'9" to 7'9"	6'10" to 7'10"	6'11" to 7'11"	114"	
7'3" to 8'3"	7'4" to 8'4"	7'5" to 8'5"	7'6" to 8'6"	7'8" to 8'8"	7'9" to 8'9"	7'10" to 8'10"	7'11" to 8'11"	126"	

PIVA® DIMENSIONAL DATA



FLANGED ENDS



WAFER STYLE (Monoflange)

PIVA VALVE – FLANGED ENDS

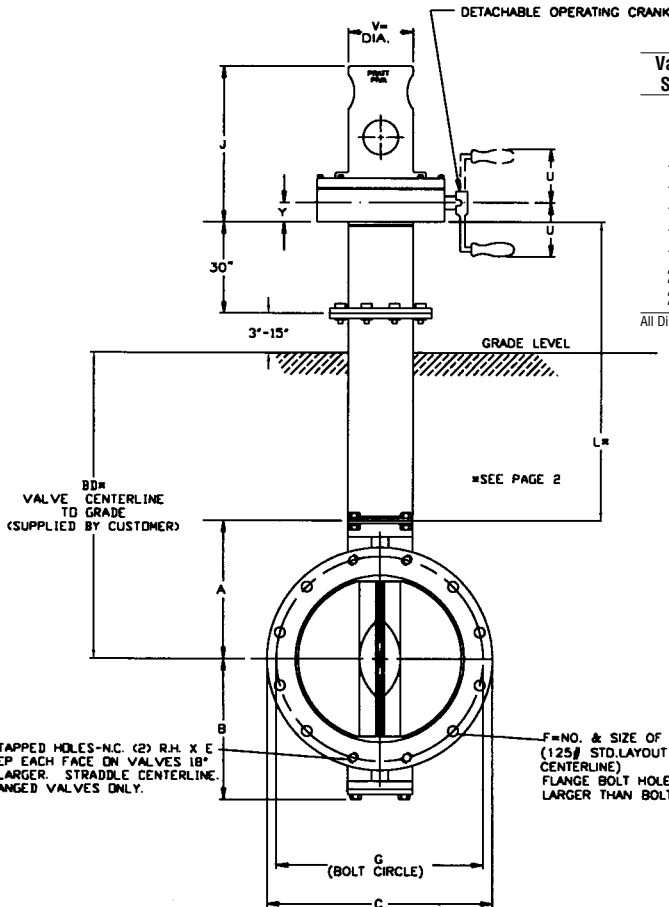
Valve Size	A	B	C	D	E	F	G
4	5½	4½	9	5	1	4¾	7½
6	6½	5½	11	5	1½	8--¾	9½
8	8½	6½	13½	6	1¾	8--¾	11½
10	9½	9½	16	8	1½	12--¾	14¾
12	11	11½	19	8	1¾	12--¾	17
14	12½	12½	21	8	1¾	12--1	18¾
16	14	14½	23½	8	1½	16--1	21½
18	14½	15½	25	8	1½	16--1½	23¾
20	16½	17	27½	8	1½	20--1½	25
24	19½	18½	32	8	1½	20--1½	29½

All Dimensions Shown in Inches

PIVA VALVE – MONOFLANGE

Valve Size	A	B	C	D
4	5½	3½	6¾	2½
6	6½	5½	8¾	2½
8	8½	6½	10¾	3½
10	9½	9½	13¾	3½
12	11	11½	16	3½
14	12½	12½	17¾	3½
16	14	14½	20¾	4½
18	14½	15½	21¾	4½
20	16½	16½	23¾	5½

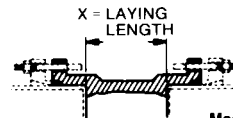
All Dimensions Shown in Inches



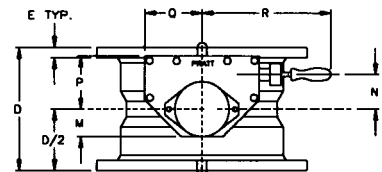
PIVA VALVE – MECHANICAL JOINT ENDS

Valve Size	A	B	C	D	E	F	G	X
4	5½	4½	9	8½	1	4--¾	7½	3½
6	6½	5½	11	8½	1½	6--¾	9½	3½
8	8½	6½	13¾	8¾	1½	6--¾	11¾	3½
10	9½	9½	15¾	10	1½	8--¾	14	5
12	11	11½	17¾	10½	1¾	8--¾	16½	5½
14	12½	12½	20¾	11½	1¾	10--¾	18¾	4½
16	14	14½	22¾	12	1¾	12--¾	21	5
18	14½	15½	24¾	12½	1¾	12--¾	23¾	5½
20	16½	17	27¾	12½	1¾	14--¾	25½	5½
24	19½	18½	31¾	13¾	1¾	16--¾	30	6½

All Dimensions Shown in Inches



Mechanical Joint
 INSTALLATION DIAGRAM NOTE: BOLTS, NUTS, GLANDS, AND GASKETS FURNISHED BY OTHERS UNLESS OTHERWISE SPECIFIED IN CONTRACT.



MECHANICAL JOINT ENDS

Actuator Size	J	M	N	P	Q	R	U	V	Y	No. of Turns
MDT-2S	12	2½	2	4½	4¾	11	8¾	4½	2	32
MDT-3S	12½	3¼	3½	5½	5¾	12½	8¾	4½	2½	30
MDT-4S	13½	3¾	4	7¾	6¾	18¾	12¾	4½	2¾	40
MDT-5	14½	4¾	5½	8¾	10	23¾	12¾	4½	5	44

The following actuator sizes are furnished:

Valve Size	Actuator Size
4" thru 10"	MDT-2S
12" thru 14"	MDT-3S
16" thru 20"	MDT-4S
24"	MDT-5

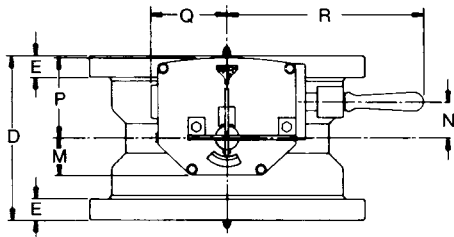
Pratt PIVA® valve bodies are available with wafer, flanged or mechanical joint ends, in sizes 4" through 24". PIVA® valves are available in a variety of post lengths to accommodate varying buried depths. All valves 4" through 24" have a Factory Mutual 175-psi rating. Underwriters Laboratories standards rate sizes 4" through 24" as 250 psi.

IBV INDICATING BUTTERFLY VALVE

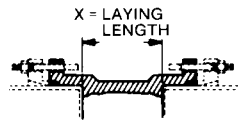
Model A

6" - 24" Flanged & Mechanical Joint Ends,
250 psi rating; UL Approved

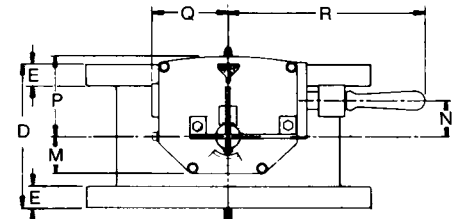
The Pratt IBV® valve is a manually operated rubber seat butterfly valve with a high visibility target. The IBV® valve is designed for indoor or vault service in fire protection sprinkler systems.



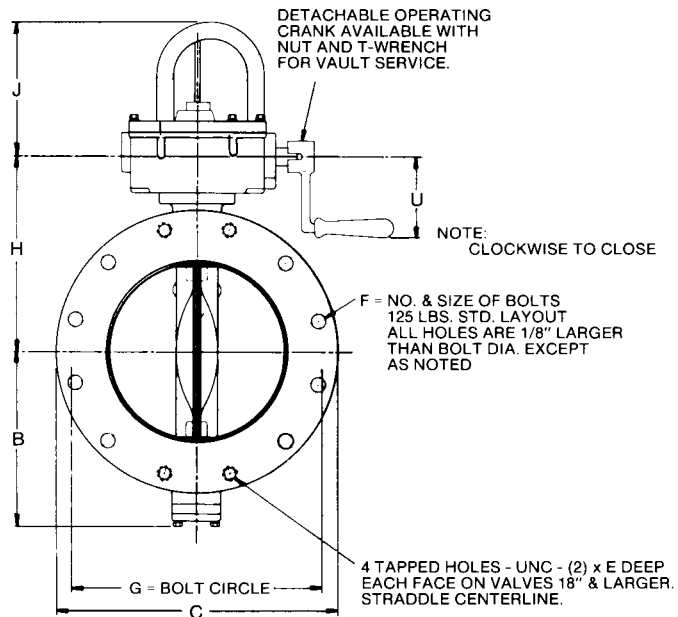
Mechanical Joint Ends



Mechanical Joint
INSTALLATION DIAGRAM
NOTE: BOLTS, NUTS, GLANDS,
AND GASKETS FURNISHED BY
OTHERS UNLESS OTHERWISE
SPECIFIED IN CONTRACT.



Flanged Ends



MECHANICAL JOINT ENDS

FLANGED ENDS

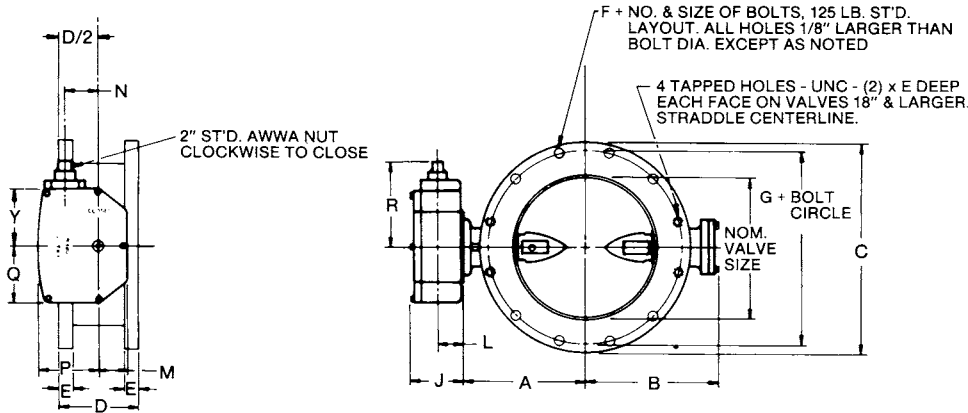
Nom. Valve Size	MECHANICAL JOINT ENDS														FLANGED ENDS					
	B	C	D	E	F	G	H	J	M	N	P	Q	R	U	X	C	D	E	F	G
4	4 1/4	9	8 1/2	1	4 1/4	7 1/2	7 1/2	7 1/2	2 1/2	2	4 1/2	4 1/2	11	4 1/2	3 1/2	9	5	1	4 1/4	7 1/2
6	5 1/2	11	8 1/2	1 1/4	6 - 3/4	9 1/2	8 1/2	7 1/2	2 1/2	2	4 1/2	4 1/2	11	4 1/2	3 1/2	11	5	1 1/4	6 - 3/4	9 1/2
8	6 1/2	13 1/4	8 1/2	1 1/2	6 - 3/4	11 1/4	9 1/2	7 1/2	2 1/2	2	4 1/2	4 1/2	13 1/4	8 1/2	3 1/2	13 1/2	6	1 1/2	8 - 3/4	11 1/4
10	9 1/2	15 1/4	10	1 3/4	8 - 3/4	14	11 1/4	7 1/2	3 1/4	3 1/2	5 1/2	5 1/2	15 1/4	8 1/2	5	16	8	1 3/4	12 - 1/4	14 1/4
12	11 1/2	17 1/4	10 1/2	1 1/2	8 - 3/4	16 1/4	12 1/4	7 1/2	3 1/2	3 1/2	5 1/2	5 1/2	15 1/4	8 1/2	5 1/2	19	8	1 1/2	12 - 1/4	17
14	12 1/2	20 1/4	11 1/2	1 3/4	10 - 3/4	18 1/4	14 1/4	7 1/2	3 1/2	3 1/2	5 1/2	5 1/2	15 1/4	8 1/2	4 1/2	21	8	1 3/4	12 - 1/4	18 1/4
16	14 1/2	22 1/4	12	1 3/4	12 - 3/4	21	16 1/2	9 1/2	3 3/4	4	7 1/2	6 1/2	18 1/4	12 1/2	5	23 1/2	8	1 3/4	16 - 1	21 1/4
18	15 1/2	24 1/4	12 1/2	1 3/4	12 - 3/4	23 1/4	17 1/2	9 1/2	3 3/4	4	7 1/2	6 1/2	18 1/4	12 1/2	5 1/2	25	8	1 3/4	16 - 1 1/2	22 1/4
20	17	27 1/4	12 1/2	1 3/4	14 - 3/4	25 1/4	19 1/2	11 1/2	4 1/2	5 1/2	8 1/2	10 1/2	24	12 1/2	5 1/2	27 1/2	8	1 3/4	20 - 1 1/2	25
24	18 1/2	31 1/4	13 1/4	1 3/4	16 1/4	30	23 1/4	12 1/2	5 1/2	7	10 1/2	15 1/2	26 1/4	12 1/2	6 1/2	32	8	1 3/4	20 - 1 1/4	19 1/2

NOTE: All dimensions shown in inches.
±1/16" through 10" valves.
±1/8" for 12" and larger valves

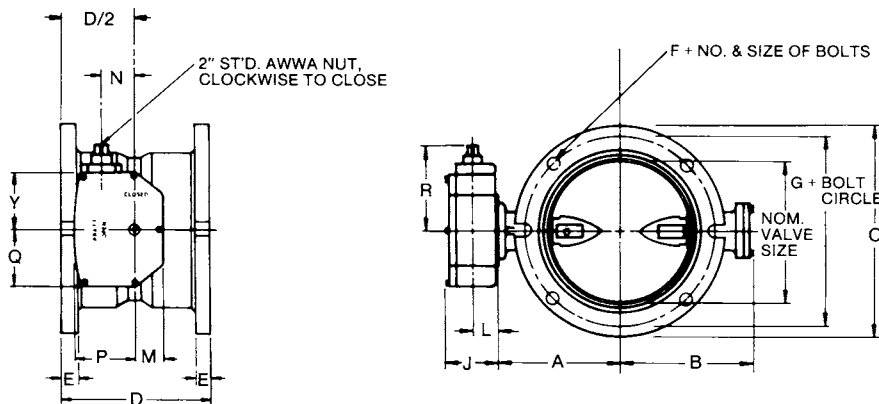
UL LISTED GROUNDHOG® VALVES



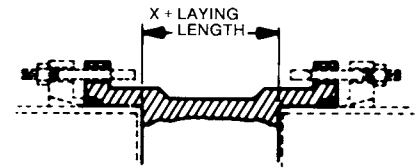
Groundhog Valve with Mechanical Joint Ends



Flanged Ends



Mechanical Joint Ends



Mechanical Joint Installation Diagram

Note: Bolts, nuts, glands, and gaskets furnished by others unless otherwise specified in contract.

Both Ends		FLANGED ENDS						MECHANICAL JOINT ENDS						MDT OPERATOR TABLE										
Valve Size	A	B	C	D	E	F	G	B	C	D	E	F	G	X	Oper. Size	Oper. Size	J	L	M	N	P	Q	R	Y
4	5½	3½	9	5	¾	8-¾	7½	3½	9	8½	1	4-¾	7½	3½	2S	MDT-2S	4½	2	2½	2	4½	4½	4½	32
6	6½	5½	11	5	1	8-¾	9½	5½	11	8½	1½	6-¾	9½	3½	2S	MDT-3S	5½	2½	3¼	3½	5½	5½	6½	30
8	7¾	6½	13½	6	1½	8-¾	11½	6½	13¼	8½	1½	6-¾	11½	3½	2S	MDT-4S	5½	2¾	3¾	4	7½	6½	7½	40
10	9	10	16	8	1½	12-¾	14¼	9½	15½	10	1½	8-¾	14	5	2S	MDT-5	7½	3½	4½	5½	8½	10½	13½	44
12	10½	11½	19	8	1½	12-¾	17	11½	17¾	10½	1½	8-¾	16½	5½	2S	MDT-5S	8½	3¾	5½	7	10½	15½	15½	136
14	11½	13	21	8	1½	12-1	18¾	12½	20¾	11½	1½	10-¾	18¾	4½	3S	MDT-6S	11	5½	7	8½	12½	26½	22½	215
16	13½	14½	23½	8	1½	16-1	21¼	14½	22½	12	1½	12-¾	21	5	3S									
18	14½	15½	25	8	1½	16-1½	22¾	15½	24¼	12½	1½	12-¾	23¼	5½	4S									
20	16	17½	27½	8	1½	20-1½	25	17	27¾	12½	1½	14-¾	25½	5½	5									
24	18½	18½	32	8	1½	20-1½	29¾	18½	31¾	13¼	1½	16-¾	30	5½	5									
30	21½	24¼	38¾	12	2½	28-1½	36	24¾	39	18	1½	20-1	36½	10	5									
36	25½	28¼	46	12	2½	32-1½	42¼	28¾	45½	22	2	24-1	43½	14	5S									
42	29½	32¼	53	12	2½	36-1½	49¾	32¾	53	22	2	28-1½	50½	14	6S									
48	34½	36½	59½	15	2½	44-1½	56	37¾	59½	24	2	32-1½	57½	16	6S									

NOTES:

- All dimensions shown in inches.
- D +/- 1/16" through 10" valves, +/- 1/8" for 12" and larger valves.
- Operator mounted in position as shown.
- For use with butterfly valve indicator post, Style G.
- Valves manufactured in accordance with Underwriters Laboratories Standard UL-1091, latest edition.
- Rotation open left.
- The Pratt UL listed Groundhog Butterfly Valve is suitable for use with the Pratt UL listed Style G Indicator Post or can be installed separately.

Rated Working Pressure:
 4"-12" - 175 psi
 14"-48" - 150 psi

UL LISTED BUTTERFLY VALVE AND ADJUSTABLE INDICATOR POST – STYLE G

The Pratt UL listed butterfly valve and Style G indicator post provides an economical and reliable assembly for use in buried service fire protection lines. It provides easy to see valve position indication from 300 feet away and tight shut off in the service line when required.

Also makes an excellent yard valve for water treatment plant applications.

- Meets AWWA Standard C504 for rubber seated butterfly valves.
- Bubble-tight shut off.
- No exercising required.
- Seat on body design.
- Compact Size.

Wrench Handle Shear Pin Construction

Specially designed with shear pin construction to eliminate over torquing.

Secure from Tampering and Inclement Weather

With a padlock in place, the top cover cannot be opened, thus securing the inner workings against tampering and the elements.

Easy Installation

Install the valve, cut the inner barrel and shaft extension to desired length, position over the 2" square operator nut and backfill.

Rugged Operators

Pratt traveling nut operators can be relied upon to maintain exact valve position under specified design flow conditions. Stop-limiting devices are capable of withstanding 450 ft/lbs. of input torque.

Optimal Butterfly Valve Design

The Pratt® butterfly valve is the heart of our fire protection product line. It's UL listed, and built to AWWA standards. Invented by Pratt, the resilient seated butterfly valve is widely used in water distribution where its intrinsic design benefits and superior performance have long been recognized.

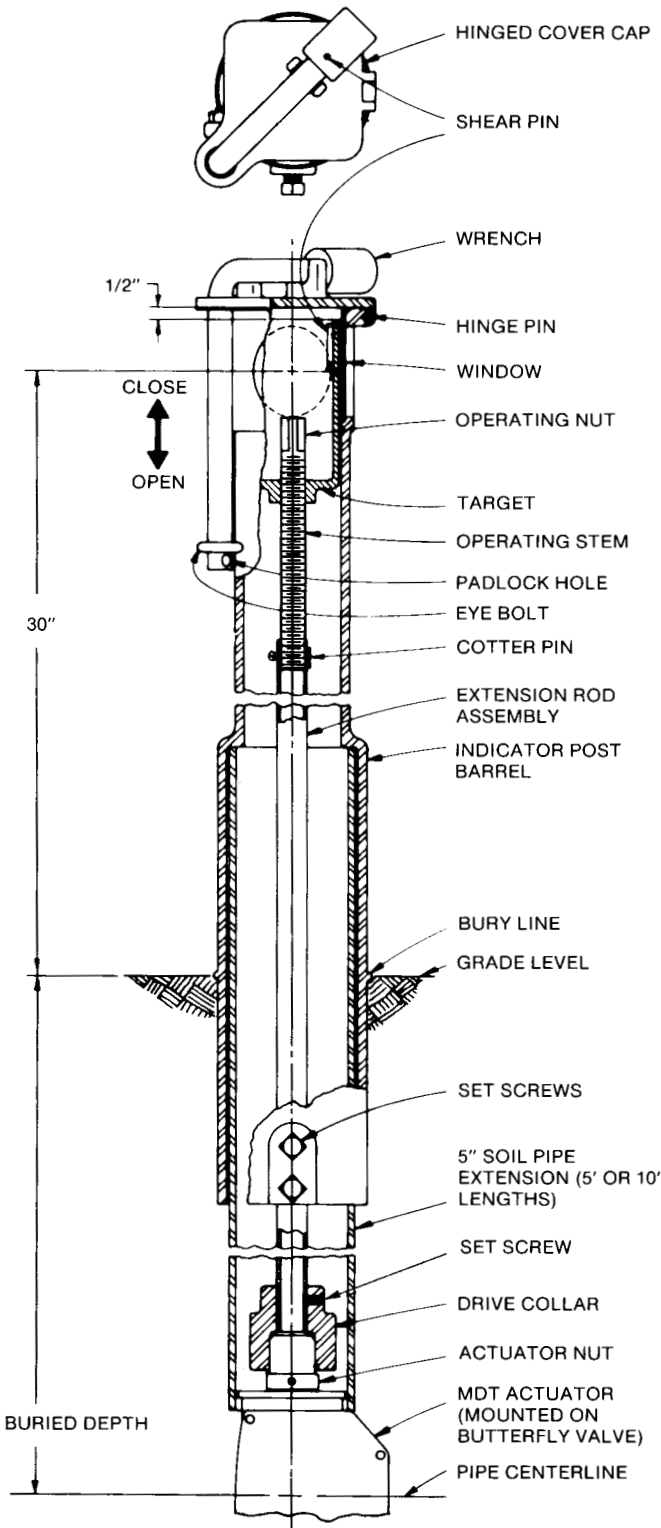
Rated Working Pressure

- 4" – 12" – 175 PSI
- 14" – 48" – 150 PSI

Pratt has been a leader in valve technology for the better part of a century.



UL LISTED ADJUSTABLE INDICATOR POST – STYLE G



Principle of Operation

1. Padlock is removed to gain access to wrench.
2. Top cover is lifted and wrench inserted over operating nut.
3. Operating nut is rotated counter-clockwise through multiple revolutions to open valve.
4. Target lowers with the turning of the operating nut.
5. Round openings in the post are revealed as the target lowers.
6. Cap is closed, wrench is replaced and the padlock replaced to lock the butterfly valve in the open position.
7. The post will then indicate valve position from a distance at a glance. When the round post windows are open, the butterfly valve is open. When the windows are blocked by the red target, the butterfly valve is closed. Reflective white stripes on the target allow easy checking of the valve position at night with a flashlight.

NOTES:

1. The Pratt Style G indicator post is intended for use with only Pratt 4" – 48" Groundhog® valves.
2. Indicator post available in 5' and 10' standard extensions. Refer to table below.
3. Installer to provide padlock for insertion in the wrench assembly to lock the valve open.
4. Indicator post designed and tested in accordance with Underwriters Laboratories Test Guide UL-1091.
5. Paint: Bright Red

BURIED DEPTHS and SOIL PIPE APPLICATIONS

Valve Size	5' Soil Pipe	10' Soil Pipe	Valve Size	5' Soil Pipe	10' Soil Pipe
4	14-49	14-109	14	17-51	17-111
6	14-49	14-109	16	17-51	17-111
8	14-49	14-109	18	18-52	18-112
10	15-49	15-109	20	23-59	23-119
12	15-49	15-109	24	23-59	23-119
			30	23-59	23-119
			36	26-59	26-119
			42	32-59	32-119
			48	32-59	32-119

All dimensions shown in inches.

SUGGESTED SPECIFICATIONS

PIVA – Post Indicating Valve Assembly (Underwriters Laboratories Listed and FM Approved)

Post indicating valve assembly shall consist of a buried butterfly valve and above grade indicator actuator of the traveling nut type. The actuator shall have a rating of 450 ft.lbs. of torque against the input stops. The target mechanism shall consist of an internal rotating member that contains a 2-3/4" hole on four sides. The outer member is stationary and shall contain similar holes. A fail-safe spring shall be included on the post to preclude accidental closing. The butterfly valve and post assembly shall be the PIVA as manufactured by Pratt, Underwriters Laboratories listed and Factory Mutual approved or approved equal. Valves shall be manufactured in accordance with AWWA C-504 (latest revision), Class 150B.

UL Listed Groundhog and Style G Indicator Post (Underwriters Laboratories Listed)

Each buried butterfly valve shall be equipped with a UL listed indicator post to display valve position above ground. The post target shall consist of a minimum 2-3/4" hole on four sides and be designed to accept a padlock to prevent tampering. The indicator post shall be a Pratt Style G type suitable for use with 4" – 48" Pratt UL listed Groundhog butterfly valves or approved equal. Valves shall be manufactured in accordance with AWWA C-504 (latest revision), Class 150B.

IBV Indicating Butterfly Valve (Underwriters Laboratories Listed and FM Approved)

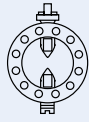
Butterfly valves for above ground use shall be of the indicating type with a highly visible yellow flag on the valve actuator that indicates whether the valve is open or closed. The valve actuator shall be a traveling nut type and have an input rating of 450 ft.lbs. of torque against the input stops. Externally, the actuator shall be driven by a crank or 2" nut that is affixed to the input shaft by a shear pin. Butterfly valves shall be Pratt Indicating Butterfly Valves Underwriters Laboratories listed and Factory Mutual approved (up to 12") or approved equal. Valves shall be manufactured in accordance with AWWA C-504 (latest revision), Class 150B.

“The Pratt Edge”

The Pratt PIVA valve contains a torque spring, a unique safety feature that no other fire protection valve, butterfly or gate valve has.

Continued water supply is assured by the PIVA torque spring that maintains the valve in the open position even if the extension tube is severed by fire trucks or other vehicles.

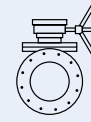
PRATT PRODUCT GUIDE



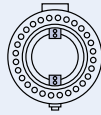
**Model
2FI**



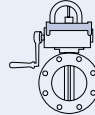
**Monoflange
MKII**



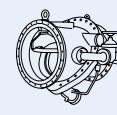
**Plug
Valve**



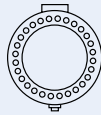
**Triton®
XR70**



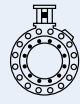
**Indicating Butterfly Valve
UL & FM approved**



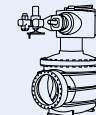
**Tilting Disc
Check Valve**



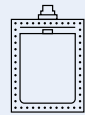
**Triton®
XL**



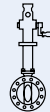
**N-Stamp Nuclear
Butterfly Valve**



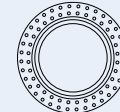
**Cone
Valve**



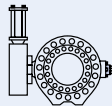
Rectangular



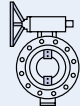
**PIVA Post Indicating Valve Assembly
UL & FM approved**



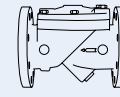
**Sleeve
Valve**



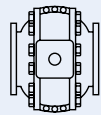
**Rubber Seated
Ball Valve**



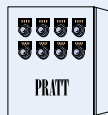
**Triton®
HP250**



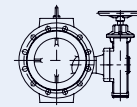
**Check
Valve**



**Metal Seated
Ball Valve**

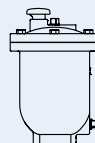


**Control
Systems**



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PRATT



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