

## HYDRANTPRO™ DIFFUSERS

Always wear Personal Protective Equipment like Safety Glasses, Gloves, and Work Boots.

### HYDRANTPRO™ OVERVIEW

Pollardwater's HydrantPro™ diffusers are designed to diffuse a fire hydrant's discharge during routine flushing and flow testing maintenance operations. The unique bell design was lab tested to determine the optimum size and placement of the diffusing bar and disc minimizing backflow turbulence to provide a more reliable Pitot Gauge reading.

The Dual Read gauge shows Pressure (PSI) and Flow (GPM) while flushing so the operator can benchmark the Hydrant's performance for comparison to future tests. The gauge is protected with a KEMX Socket Saver to prevent freezing, clogging, and corrosion while not in use, and the Pitot Tube assembly includes a three way ball valve to isolate the gauge and/or release entrapped air during a flow test reading.

Constructed of light weight aluminum with an aluminum adapter to reduce strain on the fire hydrant's hose nozzles during use. Our swivel adapter allows the HydrantPro™ to be rotated to aim the discharge away from traffic and landscaping. Note that this device is **not** intended for high-rise building sprinkler system certification. Contact us for our flow testing certification devices.



### FEATURES AND BENEFITS FOR HYDRANTPRO™

- 2-1/2" FNST Connection (*other thread patterns available upon request*)
- Diffuses and Swivels to aim flow preventing Property Damage and Traffic Disruption
- Lightweight Aluminum Body
- Dual Read Gauge with KEMX Socket

## HydrantPro™

### HYDRANTPRO™ PRODUCTS

- **PPHYDPROKIT** - HydrantPro™ all-in-one Flow Test Kit  
Includes: 2-1/2" FNST HYDRPO160 Flow Device (*reads up to 160 psi, 2120 gpm*) 2-1/2" FNST Cap, 3-1/2" 100 PSI and 200 PSI Pressure Gauges, Remote Reader and Spare Inner Tube, all assembled in a Case
- **PHYDPRO100** - Diffuser with Dual Read Gauge, 1680 GPM / 100 PSI
- **PHYDPRO160** - Diffuser with Dual Read Gauge, 2120 GPM / 160 PSI
- **PHYDPROFLUSH** - Diffuser less Gauge

### HYDRANTPRO™ REPLACEMENT ITEMS AND ACCESSORIES

- **P190140075525** - Carrying Case
- **T6106990** - Liquid Filled Gauge with KEMX; 4", 1680 GPM, 100 PSI
- **T6107134** - Liquid Filled Gauge with KEMX; 4", 2120 GPM, 160 PSI
- **DHGV250F** - Hydrant Swivel Gate Valve; 2-1/2" FNST x MNST
- **PP67512** - HydrantPro™ Replacement Pitot Assembly
- **WBW42** - Gauge Snubber Only
- **PP675013** - Inner Tube Only
- **PP675012** - 3-Way Ball Valve Only



SEE NEXT PAGE FOR HYDRANTPRO™ INSTRUCTIONS

## HYDRANTPRO™ DIFFUSER OPERATING INSTRUCTIONS

- Always wear Personal Protective Equipment like Safety Glasses, Gloves, and Work Boots
- Be aware of where you are flushing, note drainage, and make sure warning signs are in place
- Open and Close Hydrants Slowly to prevent Water Hammer
- Make sure the Nozzle to HydrantPro connection is tight before Flushing
- NEVER stand in front of the HydrantPro in case debris is ejected under pressure
- NEVER use the HydrantPro if your Hydrant does not have NST Threads (*comes Standard*)

(other thread patterns available upon request)

### HYDRANTPRO™ INSTRUCTIONS

The HydrantPro is designed to Diffuse and Divert Flow during Hydrant Flushing and Flow Testing.

1. Carefully inspect area around the Hydrant and remove any potential trip hazards, then locate the Valve Box Cover for access to the Shut-Off Gate Valve. It is recommended that you remove the Box Cover and have a PP545 Heavy Duty Gate Valve Key in case there is a need to shut off the hydrant's flow.



NOTE: Many operators actually use the Shut-Off Gate Valve to conduct the flow procedure to avoid water hammer during throttling down of the flow. This reduces wear on the hydrant and allows you to fully open the hydrant's main valve and reduce the chance of debris infiltration. Note in some cases putting a Hydrant Slow close Gate Valve in front of the HydrantPro can cause turbulence and prevent accurate readings on the flow gauge.

2. Remove Hydrant's 2-1/2" Nozzle Cap and clean Nozzle to remove debris from Threads and Face.
3. Attach HydrantPro to Hydrant by turning the Swivel Adapter clockwise on to the Nozzle.
4. Rotate HydrantPro Body to aim Discharge Flow away from Landscaping or Traffic, and tighten the Swivel Adapter to secure the Diffuser's orientation.
5. Turn the Handle on the 3-Way Ball Valve to point at the Hydrant to Bleed-off entrapped air and to Flush debris from the Pitot Tube.
6. Slowly open the Hydrant to Full Flow, and turn the 3-Way Ball Valve Handle to point at the Gauge. This Dual Face Gauge provides water Pressure (psi) and Flow (gpm) measurements.
7. Slowly shut off the Hydrant Flow, turn the 3-Way Ball to point at the Hydrant to leave the Pitot Assembly and Gauge to air dry, and remove all components from the hydrant.

NOTE: If Dechlorination is required during Flow, ask about our LPD-250 Dechlorinating Diffuser.

### RELATED POLLARDWATER PRODUCTS

- **SHYDRANTSOFTEXL** - Hydrant Flow Testing Software
- **PP545** - Tee Handle 6' Gate Valve Key
- **APFR618** - Hydrant Flushing Sign

**HydrantSoftXL**

Test Date & Time	Nozzle Size	Coeff	Stat.	Res.	Pitot	Flow	Flow 20 Time	Test Used	Water	Report?
2018-08-17 5:38:53	1.88	0.9900	55	32	20	0	0	0	0	<input type="checkbox"/>
2018-08-17 5:37:59	1.88	0.9900	85	72	36	626	1493	10	6260	<input type="checkbox"/>
2018-08-13 10:19:01	2.50	0.9000	100	75	35	993	1861	1	1390	<input type="checkbox"/>
2018-08-10 3:08:27	2.50	0.9000	100	70	36	1007	1710	1	1007	<input type="checkbox"/>

