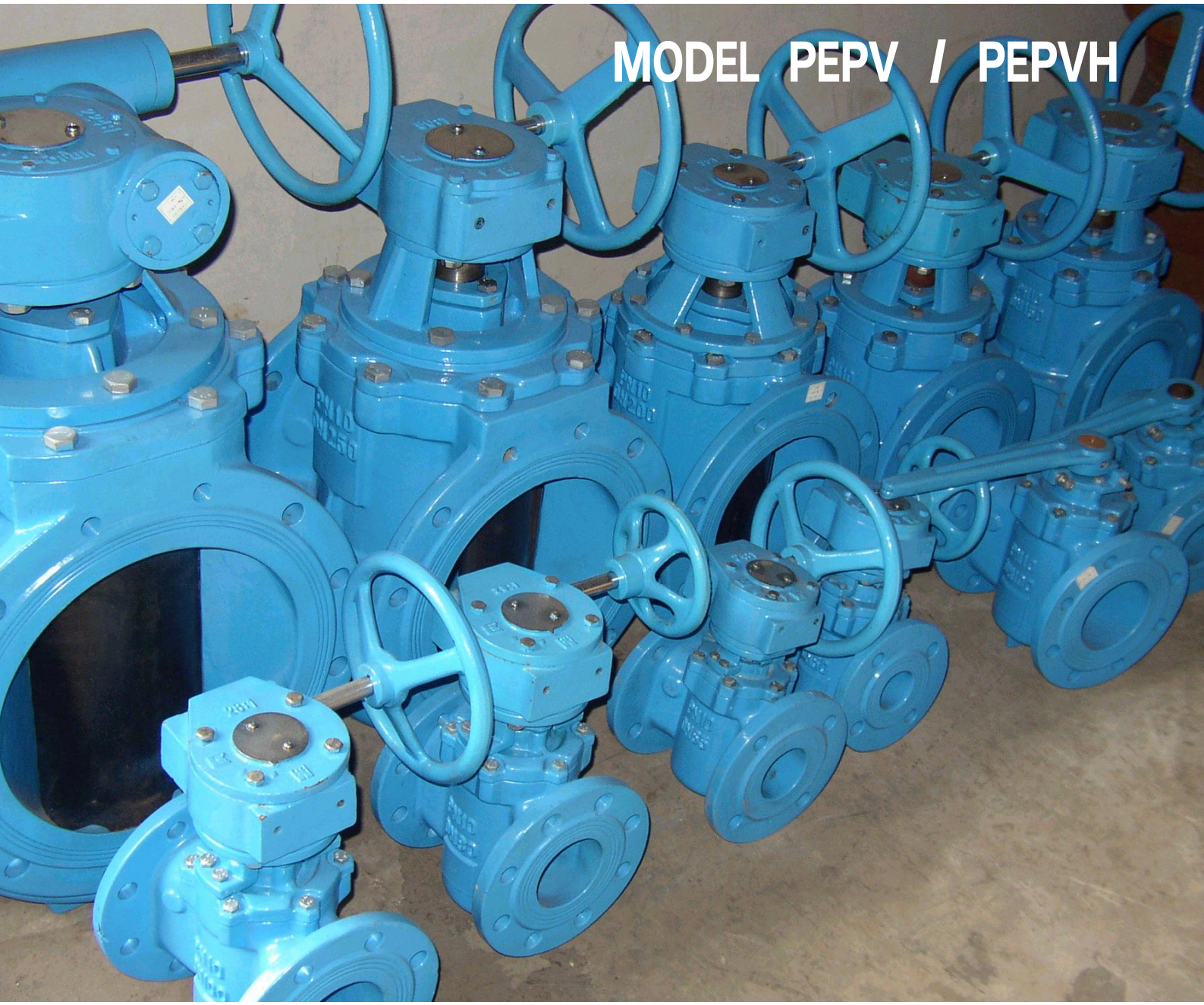
Progressive

Eccentric Plug Valve



Progressive Environmental Co.

Water and Wastewater Treatment Systems

Progressive — Eccentric Plug Valve

Eccentric Plug Valves shall be of the tight closing, resilient faced, non-lubricating variety and shall be of eccentric design such that the valves pressure member（plug）rises off the body seat contact area immediately upon shaft rotation during the opening movement. Valves shall be satisfactory for applications involving throttling service as well as frequent or infrequent on-off service. Progressive — Eccentric Plug Valve is available in size 2” through 36” with cast iron or ductile iron body.

INSTALLATION

The Progressive - Eccentric Plug Valve is suitable for flow and shut-off in either direction. Seat end downstream is the preferred orientation and any reverse flow requirement should be stated at the time of order. For use on fluids with suspended solids, installation with the seat upstream and the valve stem horizontal may be preferable; plug rotation to the top of the valve will ensure smooth operation. For measurement accuracy, the Progressive sensing element must be correctly positioned. The location of this element can be installed in the vertical or horizontal position and should have as much straight run of pipe upstream as possible. It is important because disturbance in flow produced by pipe layout may affect the accuracy of your readings. Generally, the installation should be located allowing a minimum of ten（10）diameters of straight pipe upstream and three（3）downstream.

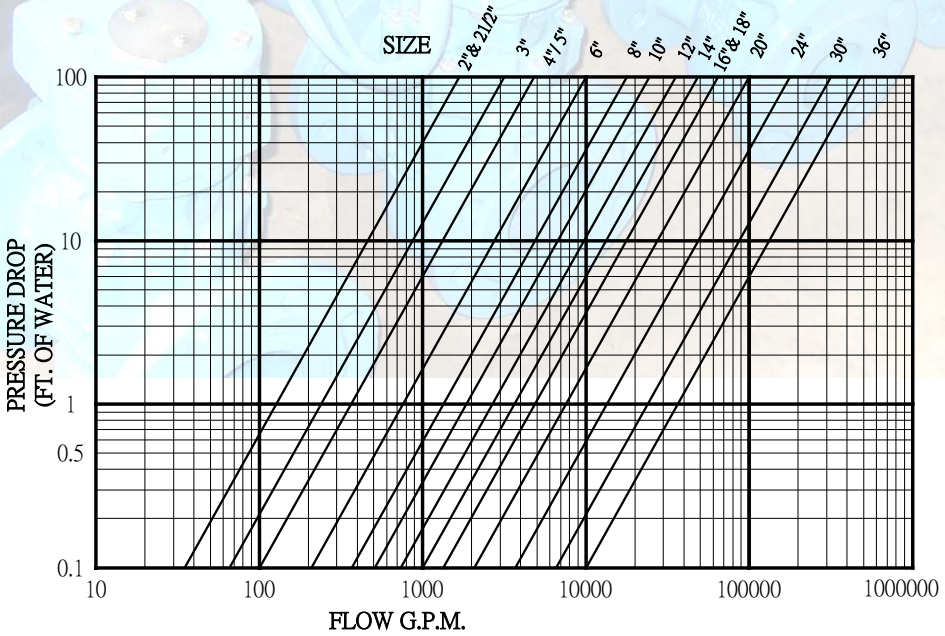
POWER OPERATION

Pneumatic, electric or hydraulic operation is available, complete with accessories such as limit switches, solenoid valve and positioners when required.

Specifications

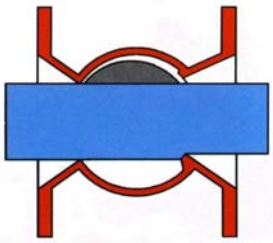
Applications：Fresh water, industrial water, cold or warm water, sewage, brine, etc.
Working Pressure：175psi（PEPV：Cast Iron/ANSI 125）/ 250psi（PEPVH：Ductile Iron/ANSI 150）
Working Temperature：-20℉~225℉

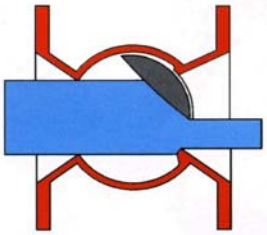
Pressure Drop Curve

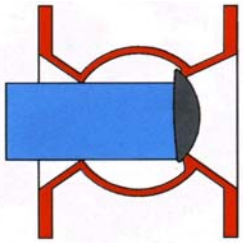


Indicates pressure drop in feet of water versus flow in gallons per minute at valve full open.

Principal of operation

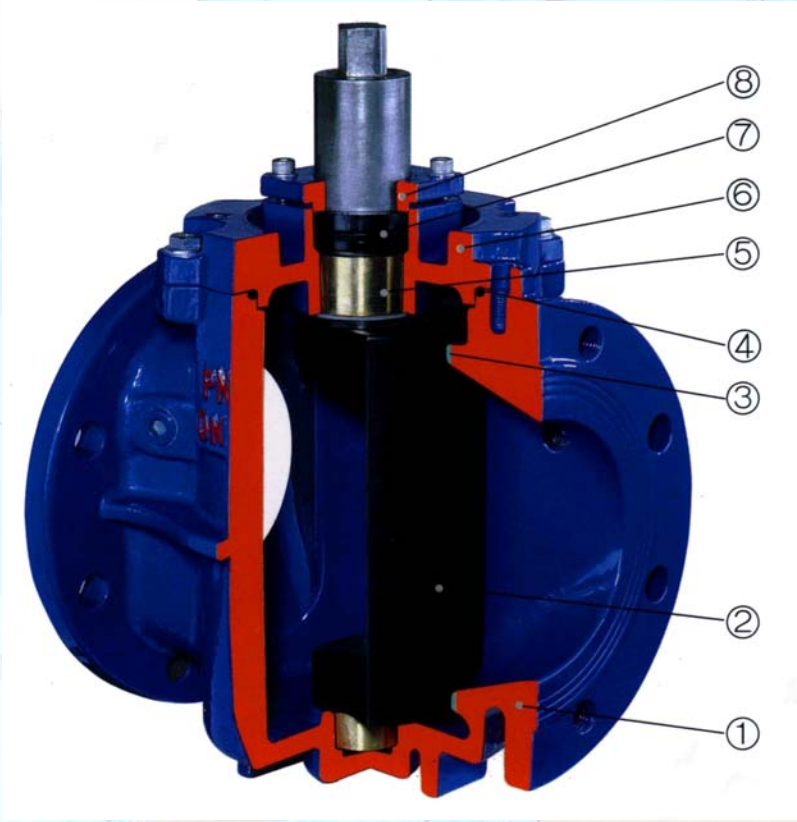






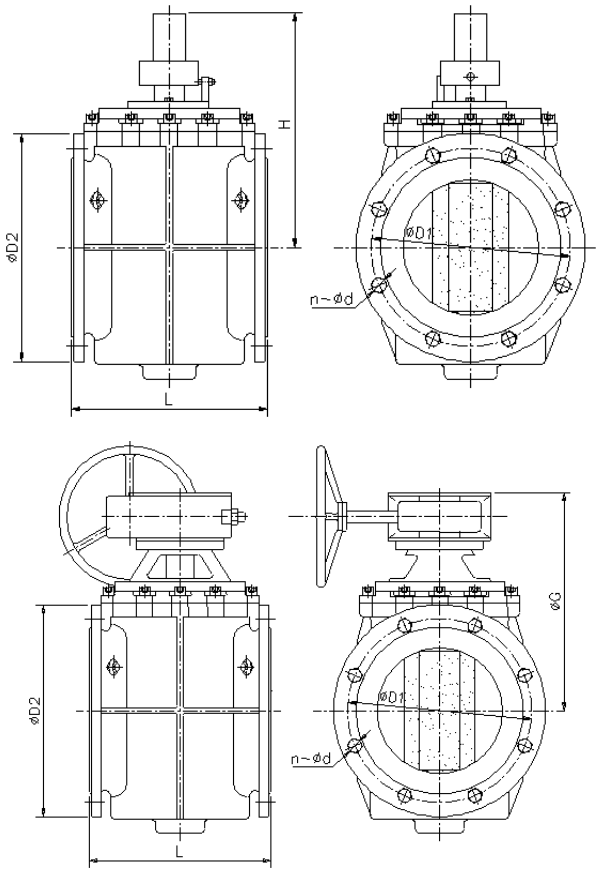
FULL OPEN	CLOSING	FULL CLOSE
The segmented plug is out of the flow path. Flow is straight through, flow capacity is high.	As the plug closes, it moves toward the seat without scraping the seat or body walls so there is no plug binding or wear. Flow is still straight through, making the throttling characteristic of this valve ideal for liquids and slurries.	In the closed position, the plug makes contact with the seat. When furnished with resilient facing, the plug is pressed firmly into the seat for dead-tight shutoff. Eccentric plug and seat design ensures lasting shutoff because the plug continues to be pressed against the seat until firm contact is made.

Materials of construction



Item	Component	Material	Item	Component	Material
1	BODY	Cast Iron / Ductile Iron	5	BEARING	Stainless Steel
2	PLUG	Ductile Iron + Buna-N	6	BONNET	Cast Iron / Ductile Iron
3	SEAT	Welded Nickel	7	V-CUP SEAL	Buna-N
4	“O”RING	Buna-N	8	GLAND	Cast Iron / Ductile Iron

Dimension



Worm Gear

Unit ：

	D1	D2	L	G	H
2”	4 3/4”	6”	7”	-----	5”
2 1/2”	5 1/2”	7”	8”	-----	7”
3”	6”	7 1/2”	8”	-----	9”
4”	7 1/2”	9”	9”	13”	10”
5”	8 1/2”	10”	10”	14 3/8”	13 3/4”
6”	9 1/2”	11”	10 1/2”	14 3/8”	13 3/4”
8”	11 3/4”	13 1/2”	11 1/2”	14 3/4”	15 3/8”
10”	14 1/4”	16”	13”	17 3/4”	-----
12”	17”	19”	14”	19 1/4”	-----
14”	18 3/4”	21”	17”	22 1/2”	-----
16”	21 1/4”	23 1/2”	17 3/4”	25 5/8”	-----
18”	22 3/4”	25”	17 3/4”	25 5/8”	-----
20”	25”	27 1/2”	26”	26 3/4”	-----
24”	29 1/2”	32”	42”	29”	-----
30”	36”	38 3/4”	51”	34 1/2”	-----
36”	42 3/4”	46”	60”	39 3/4”	-----

NOTE：Contact factory for further information.

Operation Options

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Water and Wastewater Treatment Systems

MEMBER Water Quality ASSOCIATION

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