



PR valves are available in a wide range of variants as described in the valve standards.

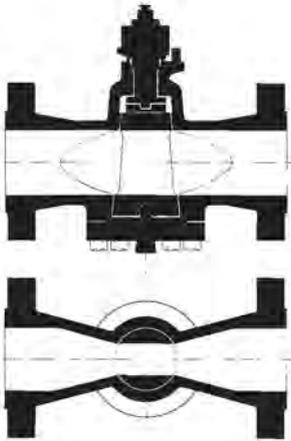
In API 6D, API 599 and BS 5353, the variants are defined as Short Pattern, Regular Pattern, Venturi Pattern and Full Bore Pattern, respectively.

The different variants refer to face to face dimension, plug port and shape.

### Venturi Pattern

These valves have face-to-face dimensions in accordance with the appropriate British and American standards where applicable, in order to ensure the maximum interchangeability between different valves.

The plug ports of these valves are of reduced area, but the change of section through the body throat is so designed as to produce a Venturi effect to restore a large percentage of the velocity head losses through the valve, thus resulting in a relatively low pressure drop. These valves are ideally suited for all normal pipeline applications, particularly in the larger sizes where there is a considerable saving in cost.

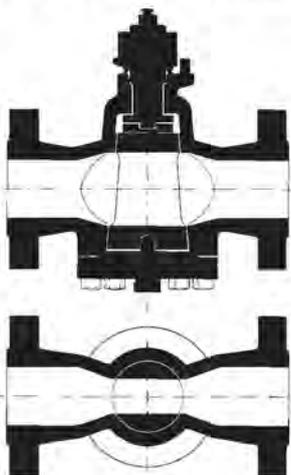


### Regular Full Bore Pattern.

These valves have face-to-face dimensions in accordance with the appropriate British and American standards where applicable.

This ensures the maximum interchangeability between valves of different types and end connections.

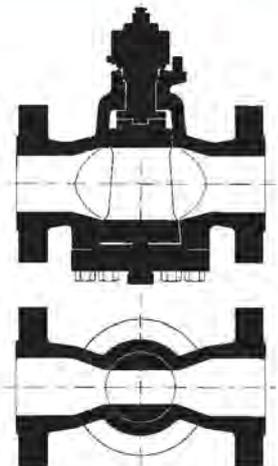
The plug ports of these valves are approximately rectangular in section and have an area corresponding to the round end connection of the valve, furthermore they have an extremely low pressure drop. The transition from the round body end ports to the rectangular seat ports is smooth, and entails no sudden alterations in shape or section which might cause excessive changes in velocity or direction of the fluid flowing in the pipeline.



### Short Pattern

These valves have the same face-to-face dimension as gate valves according to ANSI B 16.10 in class 125, 150, 250 and 300.

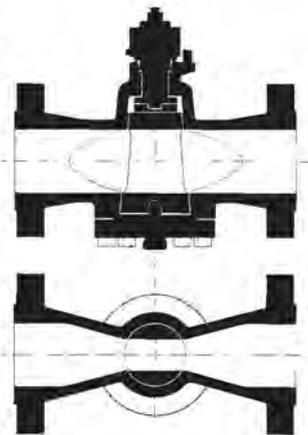
In order to obtain the relatively short face-to-face dimension, the plug port is reduced and has a rectangular slightly tapered-shape.



### Regular Pattern

These valves have face-to-face dimensions in accordance with the appropriate British and American standards where applicable.

This ensures the maximum interchangeability between valves of different types and end connections. The plug ports of these valves have a rectangular - slightly tapered shape in section and have an area larger than Venturi Pattern. The transition from the round body end ports to the rectangular seat ports is smooth, and entails no sudden alterations in shape or section which might cause excessive changes in velocity or direction of the fluid flowing in the pipeline.



### Regular Round Full Bore Pattern

These have circular ports, the diameter of which, unless otherwise stated, is equal to, or greater than, the inside diameter of the corresponding pipe. The valves are intended for use when it is necessary to pass a scraper or other tool through the valve body, or for other special applications.

The face-to-face dimension are greater than for the corresponding Regular Pattern valve but comply with British and American Standards where applicable. This type valve is particularly suited for raw sludge application in sewage treatment plants, hot taps for pipe line etc.

