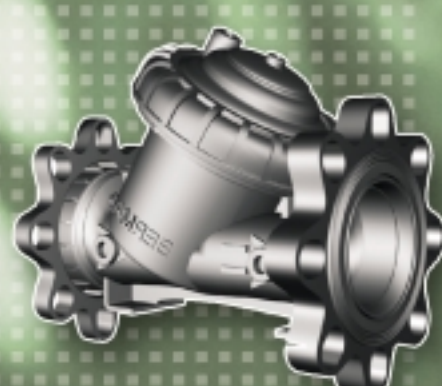


Irrigation

100 Series



Responding to the latest water system designs and requirements, BERMAD proudly presents an ultra-high flow, energy efficient new plastic valve 100 series.

BERMAD

Hi Performance Plastic Valves

100 Series

International Patent Pending

Available now in 3" (80 mm) and 4" (100 mm)

- **Ultra-high flow capacity** with minimal pressure loss.
- **Excellent service on a wide range of pressure and flow conditions**, from drip to wide-open maximum flow. No minimum "low-flow" limitations.
- Positively guided valve plug assembly provides **accurate motion** and **smooth regulation**, without causing "water hammer".
- Simple design with few parts guarantees, **easy and simple service**.
- Durable **industrial grade** valve design and construction, uses glass-filled (GF) Nylon material to meet **rough service conditions**.
- **Versatile end-connections**, for various system designs.
- **BERMAD's** accumulated experience and know-how.



100 Series

High Performance Plastic Valves

For Agriculture, Commercial Turf and Golf Course flow-control applications

Special Features and Benefits

Optional plastic bracket (1)

Cover Ring (2)

Stiffens and strengthens the valve body.
Enables simple maintenance.

Cover (3)

GF Nylon

Spring (4)

Stainless steel, for immediate and positive response.

Nut (5)

O-ring (6)

Diaphragm holder (7)

Diaphragm (8)

NBR, Nylon fabric reinforced semi-roll type provides constant force output throughout the entire valve travel.

Valve Plug (9)

GF Nylon, positively guided with smooth and accurate motion.
Simple design, simple service.

Valve Seal (10)

NBR rubber, provides drip tight sealing, starting as low as 3 psi (0.2 bar).

Plug stem (11)

Valve Body (12)

GF Nylon, end-to-end "look-through" design enables ultra high flow capacity with minimal pressure loss (Cv 230, Kv 200).

Valve Legs (13)

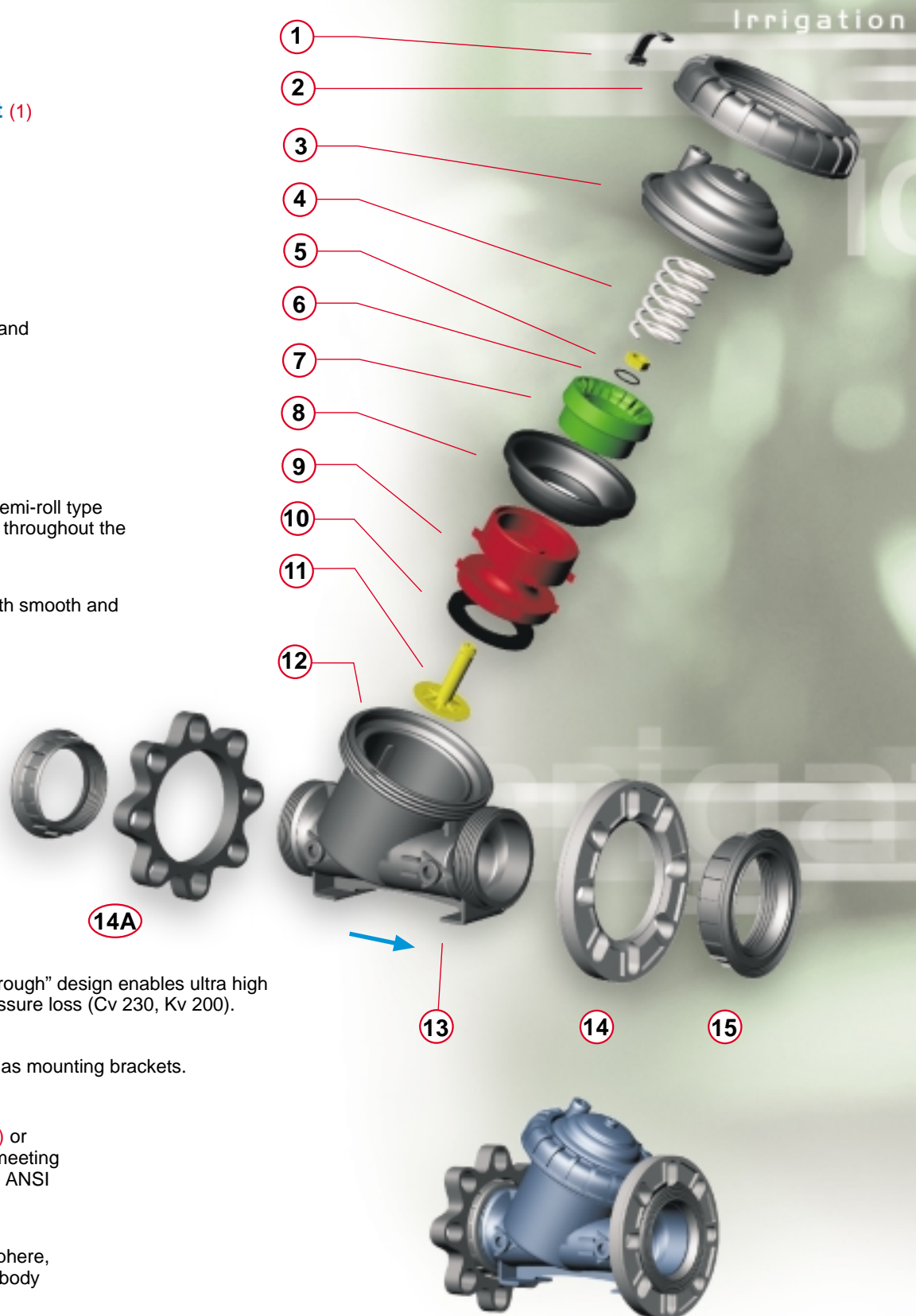
Stabilize the valve, serve also as mounting brackets.

Flanges

GF Nylon, elongated slots (14) or metal (14A) "Corona" enable meeting diverse flange standards, ISO, ANSI and JIS.

Flange Adapter (15)

GF Nylon, flange floats on a sphere, isolating and freeing the valve body



100 Series

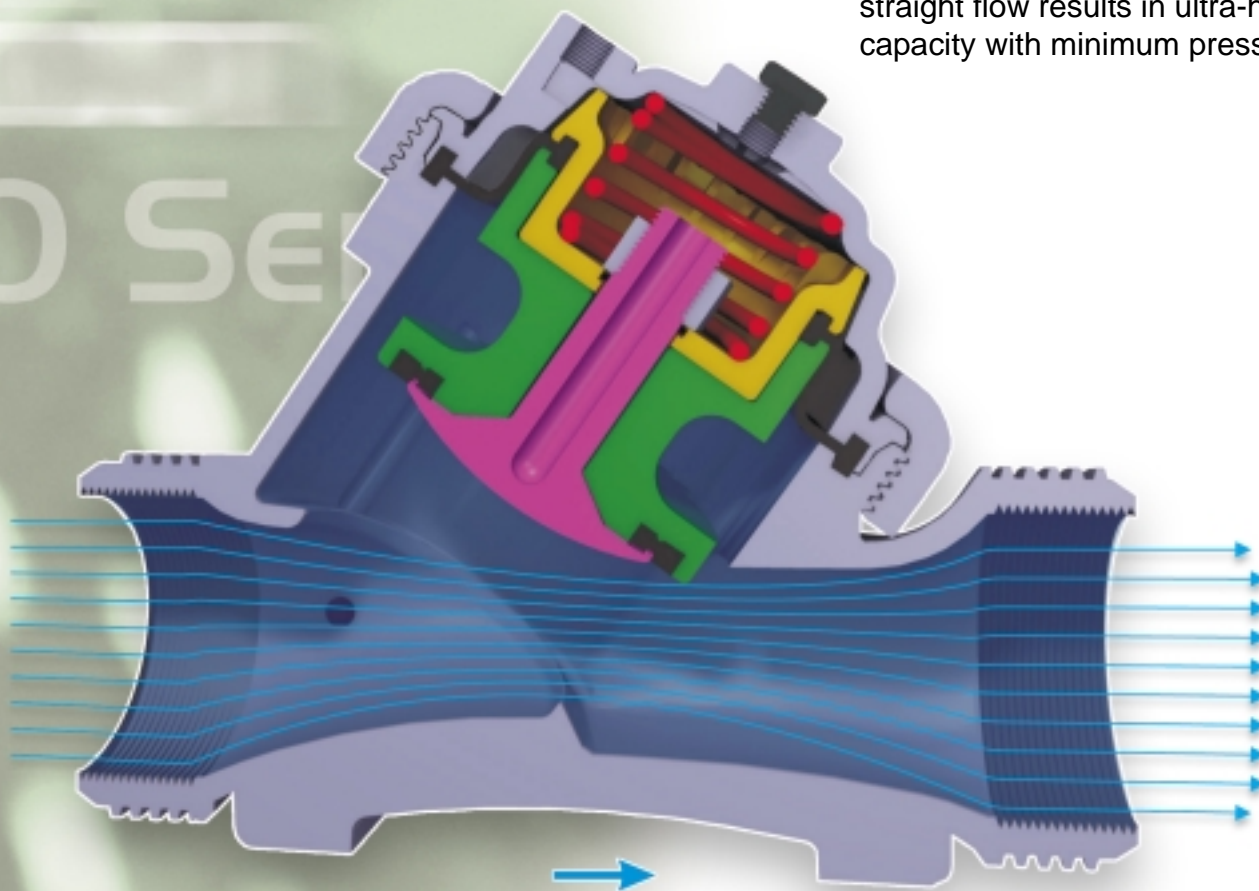
High Performance Plastic Valves

For Agriculture, Commercial Turf and Golf Course flow-control applications

BERMAD Irrigation

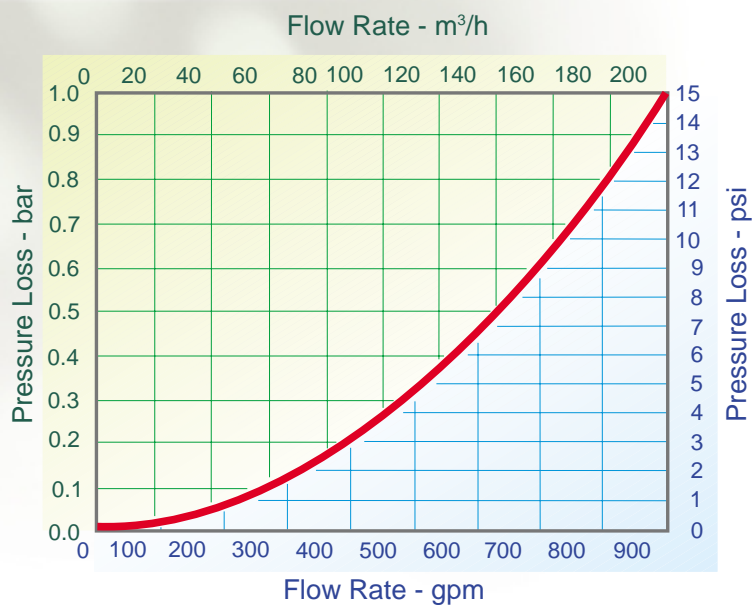
“Look-through”

straight flow results in ultra-high flow capacity with minimum pressure loss.



Flow Chart - 3" (80 mm) and 4" (100 mm)

Cv 230, Kv 200



Main Models

- Basic valve
- Electrically-controlled valves
- Pressure-reducing valves
- Pressure-sustaining valves
- Combination of any of the above functions and more

100 Series

High Performance Plastic Valves

For Agriculture, Commercial Turf and Golf Course flow-control applications

Optional End Connections



3" Threaded



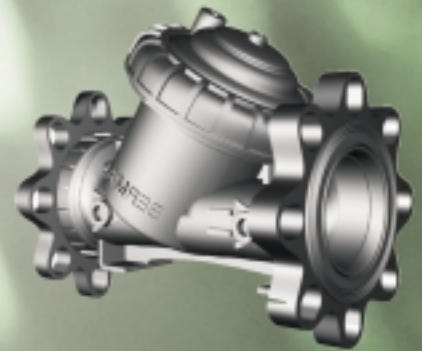
PVC Pipe Adapters



3" or 4" plastic flanges



Combinations end connections



3" or 4" metal "Corona" type flanges

Technical Data

Sizes:

3" (80 mm), 4" (100 mm)

End Connections:

3" Threaded female: NPT, BSPT

3"&4" Flanges: Metal "Corona" or plastic
ISO PN 10, ANSI 125, JIS 10K

PVC Pipe Adapters: 3" (90 mm), 4" (110 mm)

Working Pressure Range:

7 - 150 psi (0.5 - 10 bar)

Temperature: Water up to 180°F (80°C)

Materials:

Body, Cover, Valve Plug: Glass-filled (GF) Nylon

Diaphragm: NBR rubber, Nylon fabric reinforced

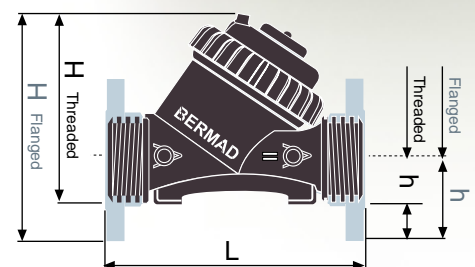
Seals: NBR rubber

Spring: Stainless steel

Size	3"		3"		4"	
End Connections	Threaded		Flanged		Flanged*	
	mm	inch	mm	inch	mm	inch
L - Length	300	11 ¹³ / ₁₆	310	12 ³ / ₁₆	350	13 ³ / ₄
H - Height	240	9 ⁷ / ₁₆	280	11	290	11 ⁷ / ₁₆
h - Center to bottom	60	2 ³ / ₈	100	3 ¹⁵ / ₁₆	110	4 ⁵ / ₁₆
Weights	2.9 kg	6.4 lb	3.8 kg	8.4 lb	4.5 kg	9.9 lb

PVC pipe adapters available for 3" & 4" and for 90 & 110 mm OD pipes.

*Plastic flanges



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• PCDXE01 English