



## API Jacket Plug Valve



### Overview

A jacketed plug valve is a specially designed industrial valve that incorporates an insulation/cooling jacket layer around the body of a standard plug valve. This jacket forms a sealed cavity through which steam, hot oil, hot water (for heating), or coolant (for cooling) can be circulated.

Its core purpose is to maintain or control the temperature of the fluid within the pipeline, preventing it from solidifying, crystallizing, or becoming excessively viscous at the valve section due to ambient temperature influences. This ensures the continuity, stability, and safety of the process flow.

### Feature

1. Temperature Control – Prevents media solidification or crystallization.
2. Compact & Low Resistance – Straight-through flow with minimal pressure drop.
3. Quick Operation – 90° turn for full open/close.
4. Reliable Seal – Tapered plug design ensures tight shut-off.
5. Versatile – Suitable for viscous, heating, or cooling media.

### Application

Used to handle fluids that must stay warm or cool to flow properly. Common in:

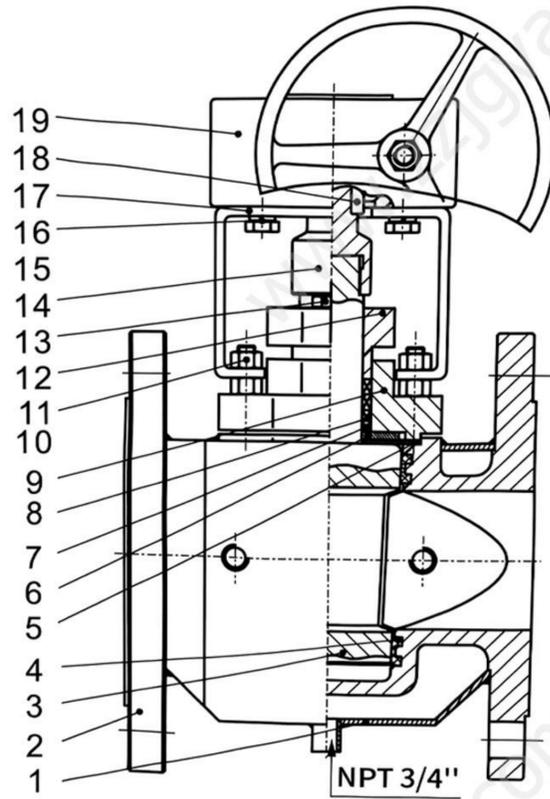
- Chemical/Petrochemical: asphalt, heavy oil, wax
- Food/Pharma: chocolate, syrup, fats
- Coatings & Adhesives: paint, resin, glue
- Slurry Systems: e.g., in environmental scrubbing

Suitable for any pipeline where temperature control prevents clogging.





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### Main Parts Material

NO.	Part name	Material
1	Jacket	ASTM A283Gr D, SS304, SS316
2	Body	A216 WCB, A351 CF8, A351 CF8M, A351CF3M, A351 CN7M, 904L
3	Plug	A351CF8, A351 CF8M, A351 CF3M, A351 CN7M, 904L
4	Seat	PTFE, RPTFE, PPL, NyLon, PEEK
5	Gasket	PTFE, RPTFE, PPL, SS304+Graphite
6	Packing pad	SS304, SS316, SS316L
7	Packing pad	SS304, SS316, SS316L
8	Packing	Graphite, PTFE, RPTFE, PPL
9	Bonnet	A216WCB, A351 CF8, A351 CF8M, A351 CF3M, A351CN7M, 904L
10	Bolt	A193 B7M, A193 B8M, A193 B8, A193 B7
11	Nut	A194 2HM, A194 8M, A194 8, A194 2H
12	Gland flange	A216 WCB, A351 CF8
13	Bolt	A193 B7M, A193 B8M, A193 B8, A193 B7
14	Connecting sleeve	AISI 1045
15	Bolt	A193 B7M, A193 B8M, A193 B8, A193 B7
16	Gasket	AISI 1566
17	Yoke	ASTM A283 GRD, SS304
18	Key	AISI 1045
19	Worm	A53660-40-18, WCB

