

## Technische Dokumentation Technical Documentation



### **TUFLIN®-Sleeved Plug Valve Type 127-3D**

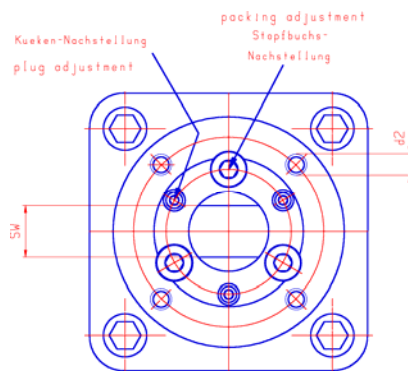
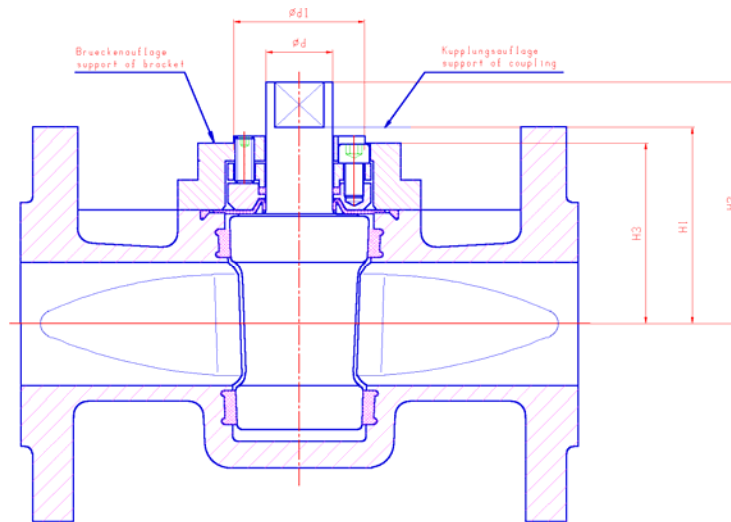
## Design Features

- **Three independent seals guarantee optimal seal performance and an extended service life.**
- **If the internal seals are damaged, the backup packed gland ensures seal integrity to atmosphere**
- **All actuation parts centered to plug shaft ensure that lateral forces don't influence the atmospheric sealing.**
- **Packing easily adjustable**
- **Actuator mounting in acc. to ISO 5211** enables simple and economical quarter-turn valve operation
- Other shaft sealing systems available
  - FM27-FIS: fire tested
  - FM27 (FIS) - 3DL: with leak detection
- Multiport configurations for more flexible and compact applications

## Design Benefits

- Positive shut off and throttling service
- Tight shut-off for liquids, gases and slurries (Leakage rate < 10<sup>-8</sup> mbar l/sec)
- Superior, longer lasting in-line and stem sealing system
- Virtually maintenance- and cavity-free, no costly lubrication or maintenance
  - No accumulation of process media
  - No contamination of process media
- No internal and external leakage
- No body cavities even for adhering and crystallizing process media
- Extended life time over time combined with high reliability
- Cost efficient solution for various applications
- Reduced cost of valve ownership over time

## Dimensional Chart



DN	H1	H2	H3	d	SW	F	d1	d2
15 / 20	50	62	45	14	11	F04	30	M5
25	60	72	56	16	14	F05	35	M6
40	71,5	87,5	66	22	14	F07	55	M8
50	80	99	74,5	28	19	F07	55	M8
80	94	113	88,5	28	19	F10	55	M8
100	124	149	118	32	22,2	F10	70	M10
150	160,5	186	156	51	35,5	F12	85	M12
200	210,5	236	206	51	35,5	F14	100	M16
250	249,5	275	242	63,5	42,5	F14	100	M16
300	274,5	300	266	76	50	F16	130	M20

## Sealing systems

Primary seal  
Teflon®- sleeve

Secondary seals

Standard	3D	3D-FIS (Fire tested)
Formed diaphragm PTFE	Formed diaphragm PTFE+ PTFE cover seal	Formed diaphragm PTFE+ graphite cover seal
	+ adjustable Safety packing PTFE	+ adjustable Safety packing (graphite)

Registered patent no. 299 03 320  
Applied for European and international patents

## Scope of Supply

Available for following standard plug valves:

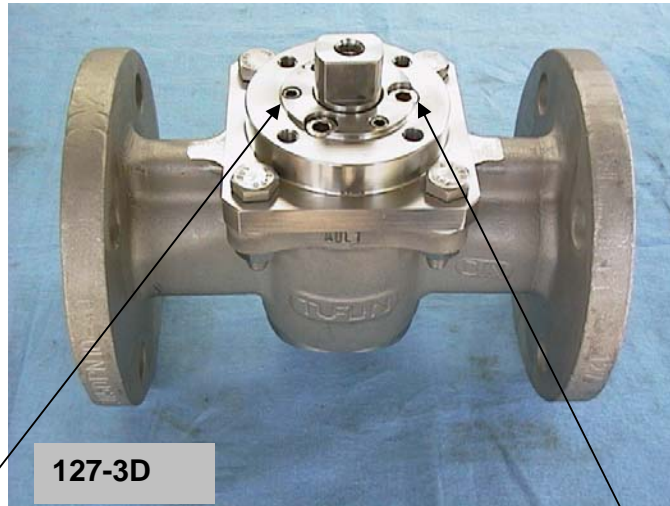
Lined - - -  
Sleeved 067, 0367, 127, 037, 137...

Temperature Pressure Torque Weight Materials	See standard- Plug valve type 127.... Dok. No. tdb_127_gb
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## Field of application

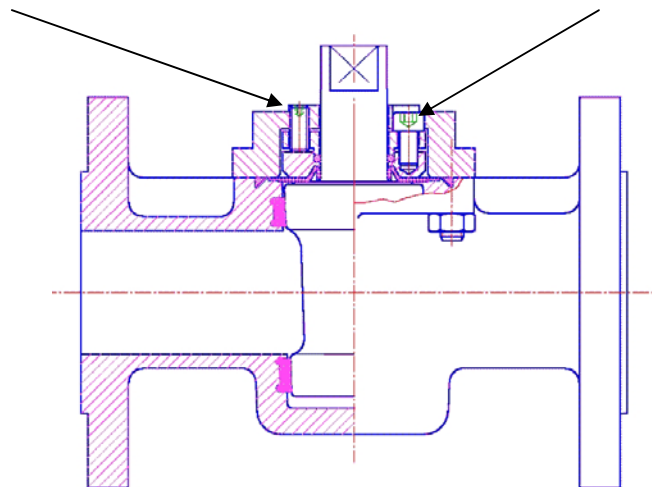
See standard- Plug valve type 127.... Dok. No. tdb\_127\_gb

More technical details on request  
More types and sizes on request



**Plug Adjustment**

**Packing Adjustment**



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