

## TYPE HM

Plugvalve with heating jacket (cast design)

DN 15 - 600 / PN 10 - 100

NPS ½" - 24" / class 150 - 600

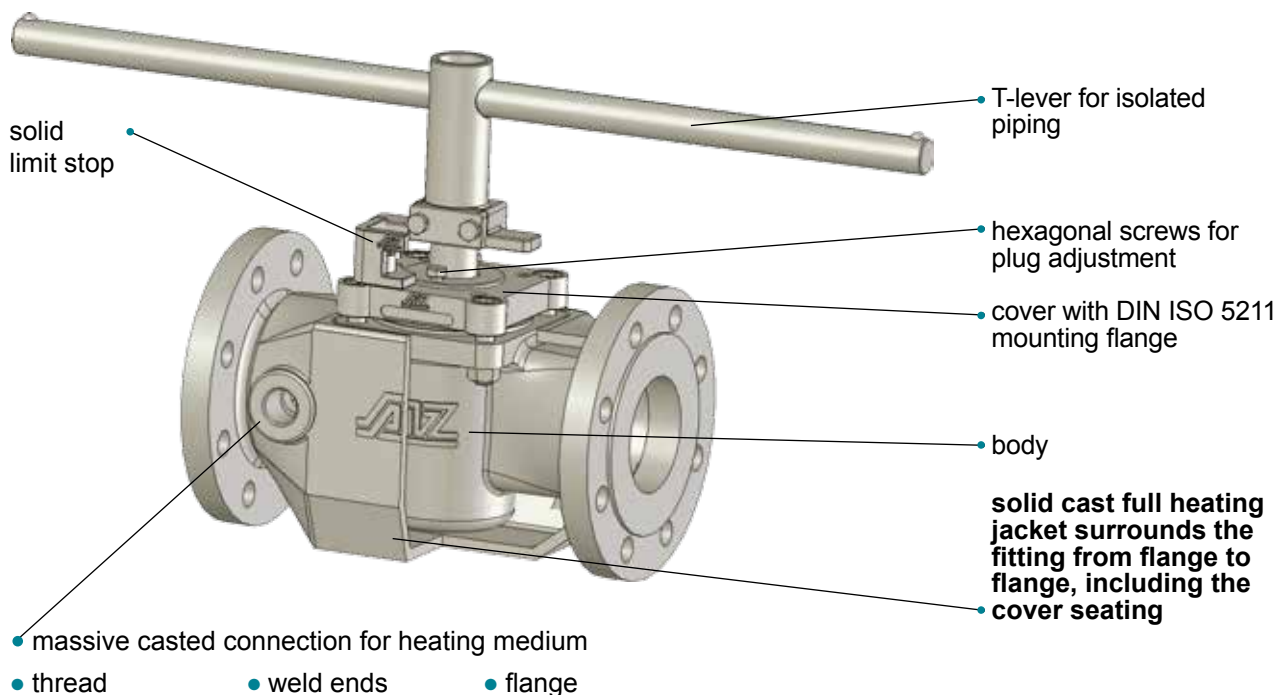


1.7

- Free of cavity and maintenance
- Tight chambering of the PTFE - sleeve
- Heating from flange to flange to cover seat
- Solid cast heating jacket
- Solid cast connections for heating medium
- Bespoke heating jacket connections
- OVERSIZE - version (optional)
- Face-to-face dimensions according to DIN and ASME

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## Design characteristics



### Advantages and design of full jacketed Plug Valves (cast design)

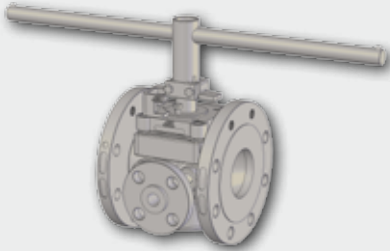
(see also leaflet "technical information" 1.0 ):

- **Cavity free**  
PTFE sleeve encloses the entire plug.
- **Maintenance-free**  
Broad contact area sealing strips ensure robust continuous operation.
- **Self-lubricating**  
No seizing of the valve plug. Even after a longer standstill period switchable thanks to anti-adhesive PTFE sleeve without damaging the plug.
- **Tight chambering of all PTFE parts**  
No cold-flow. Expansion chambers accommodate volume enlargement due to temperature increase.
- **Non-twisting PTFE sleeve**  
Collar-shaped ribs around the passages. Stripping effects for media with solid fractions.
- **No stuffing box**  
Sealing sleeve on the plug perimeter. No movement of the plug sealing surface. Additional seal to the outside with PTFE and stainless steel membrane.  
(Also see brochure 10.5)
- **Materials:**  
1.4408, as well as GS-C25  
(Special materials on request)
- **Cast heating medium connection**  
Solid and no cracking due to vibration
- **Easy plug adjustment**  
Special tools not required, even under the most extreme implementation conditions. Hexagonal screws are easily accessible on the adjustment ring, even when the actuator is mounted.
- **cast limit-stops**  
solid design
- **Vacuum-compatible**
- **Hand lever made of stainless steel**  
Even in aggressive ambient atmospheres no corrosion
- **Simple mounting of**  
e.g. plug shaft extension with T-lever (insulated pipelines)  
Mounting of rotary actuators
- **Face-to-face dimensions and flanges in accordance with DIN, ANSI & JIS** Separate model series for the entire DIN ranges to PN100 or CLASS 600
- **TRD 801 no. 45 TÜV type-approved**  
**Component approval mark TÜ.AGG.105-90**
- **Also all multi-directional valves, as well as special valves are available fully heated.**
- **Jacket connections:**  
See last page of this brochure.
- **Maximum temperature 280°C;**  
Depending on the medium and pressurisation

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### Type examples

#### F-2-ISO-STD-OS-HM-KSV OVERSIZE



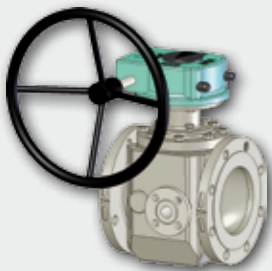
- 2-Way-ISO-STANDARD plug valve
- Oversize flange connection (in accordance with ASME/DIN EN)
- mounting-flange for actuators acc. to DIN ISO 5211
- massive casted heating jackets
- connection type 5: flange connection
- Plug-stem-extension for pipe isolation

#### F-3-S-ISO-STD-HM



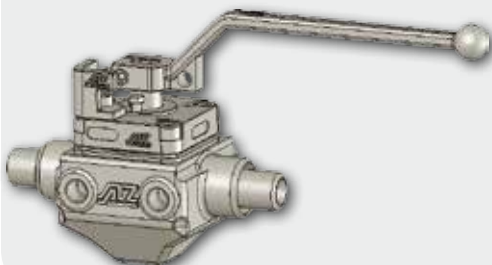
- 3-Way-ISO-STANDARD-Plugvalve
- vertical design
- mounting-flange for actuators acc. to DIN ISO 5211
- massive casted heating jackets
- connection type 1: thread connection

#### F-2-ISO-STD-HM



- 2-Way-ISO-STANDARD-Plugvalve
- mounting-flange for actuators acc. to DIN ISO 5211
- with handwheel and gear
- massive casted heating jackets
- connection type 1A: flange connection

#### BW-2-ISO-STD-HM



- Butt welding ends-2-Way-ISO-STANDARD-Plugvalve
- mounting-flange for actuators acc. to DIN ISO 5211
- massive casted heating jackets
- connection type 5: thread connection

**Order example: F-3-W-DN50-PN40-HM-KSV-10-DN20**  
F = flange, 3 = three-way, W = side entry, DN50 = size, PN40 = rating, HM = heating jacket, KSV = stem extension 10 = jacket connection ( s.R. ), DN20 = flange size.

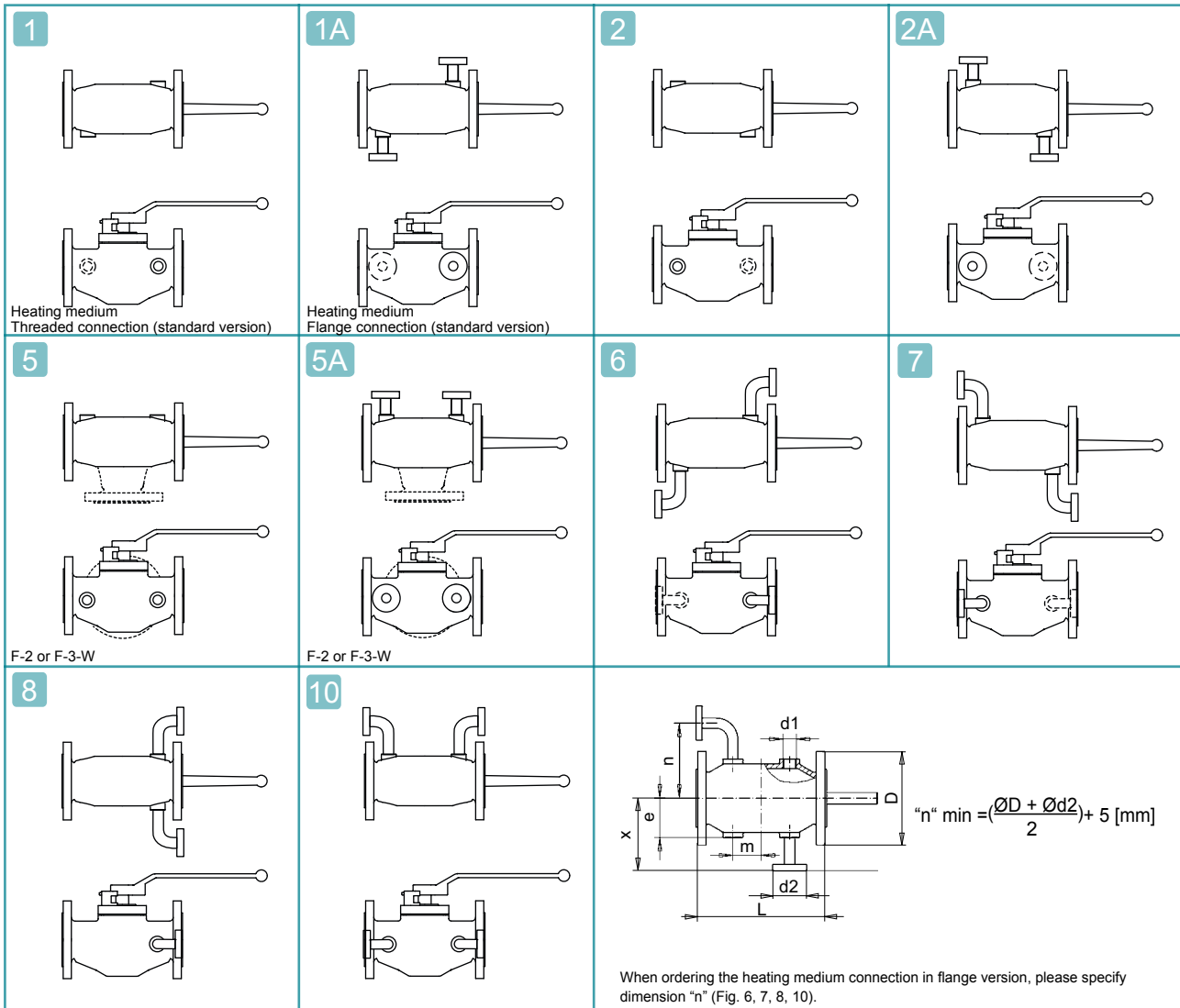
#### By enquiries / orders:

Please state materials for body, plug and heating jacket.



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Dimensions in accordance with DIN / ASME



	DN	15	15E	20E	25 **	25E	32	40	50	65	80	100	100S	125	150	200	250	300	
DIN	x	100	*	*	140	*	140	150	160	170	170	175	185	200	200	255	*	290	
	m	25	*	*	30	*	32,5	45	50	87,5	90	110	110	75	86	90	*	90	
	e	41	*	*	45	*	50	51	62	75	74	77	87,5	108	113	156	*	168	
	d1	G 3/8"				G 1/2"				G 3/4"				G 1"					
	d2	DN 15																	
	Override	40	40	40	50	50	50	65	80	80	100	150	150	150	150	200	250	*	350
L	130/200	130/200	150/200	160/230	160/230	180/230	200/290	230/310	290/310	310/350	350	350	325/350	350/400	400/450	*	500/550		
ANSI 150	NPS	1/2"	3/4"	1" **	1 1/2"	2"	3"	4"	4"S	6"	8"	10"	12"	14"	16"	18"	20"	24"	
	x	90	90	90	100	110	125	125	140	185	205	215	*	*	*	*	*	*	
	m	0	0	15	30	35	40	45	40	50	45	65	*	*	*	*	*	*	
	e	40	40	45	53	60	74	72	93	106	128	165	*	*	*	*	*	*	
	d1	G 3/8"				G 1/2"				G 3/4"				G 1"					
	d2	NPS 1/2"																	
ANSI 300	Override	1 1/2"	1 1/2"	2"	3"	3"	4"	6"	6"	8"	10"	12"	*	*	*	*	*	*	
	L Class 150	108/165	117/165	127/178	165/203	178/203	203/229	229/267	229/267	267/292	292/330	330/356	*	*	*	*	*	*	
	L Class 300	140/190	152/190	165/216	190/282	216/282	282/305	305/403	305/403	403/419	419/457	457/502	*	*	*	*	*	*	

Override: For flange oversizes, specify the desired face-to-face length "L", the values in bold are standard face-to-face lengths.

\* Other nominal widths and pressure levels on request

\*\* heating medium connection DIN / ANSI 10 / 18 mm below valve centre.



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