ISO-FSN-HF

Two way plug valve with safety stuffingbox packing, special design for HF alkylation, Monel materials

Type ISO-FS-HF with Fire Safe sealing
Type ISO FSN-HF with triple safety sealing for
fluctuating temperatures

ASME: NPS ½" - 24" / class 300 PT range: -29 < T < 220°C



Design Features

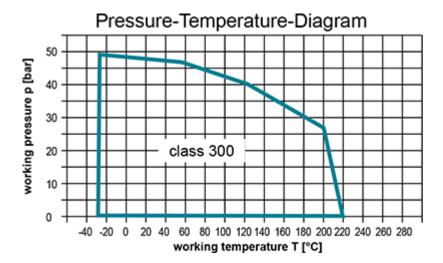
Design Characteristics

- safety stem packing
- easily accessible plug adjustment
- UOP approved design for HF Alkylation
- free of cavities
- maintenance free / self lubricating
- HF detection coat for leakage indentification
- actuator mounting flange acc. to DIN ISO 5211

Approved for the highest HF Alkylation UOP Process Specifications

- AZ HF plug valves are specially designed for the use in any HF Alkylation processe and hydrofluoric acid applications
- design and material requirements as well as manufacturing and testing procedures are in accordance to the UOP process and piping specifications HF1, HF10, HF2 and HF20

PT-Diagram



Operating temperatures < -29°C and > 220 °C have to be checked and approved by AZ according to the operating conditions.

Materials

Standard body material

• Monel, ASTM A494 M35.1

Standard plug material

• Monel, ASTM A494 M35.1

Standard cover material

ASTM A216 / WCB (Monel, ASTM A494 M35.1 on request)

Sealing Systems

Firesafe sealing (API 607) with graphite packing for additional stem sealing; Tmax 220°C

Type FS-HF

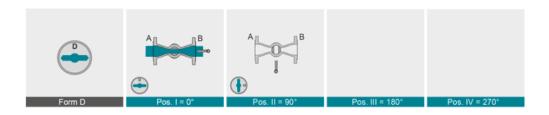
read more [...]

Firesafe safety sealing (API 607) for fluctuating temperatures with 3x graphite packing (adjustable) for additional stem sealing, Tmax 220°C

Type FSN-HF

read more [...]

Plug Forms

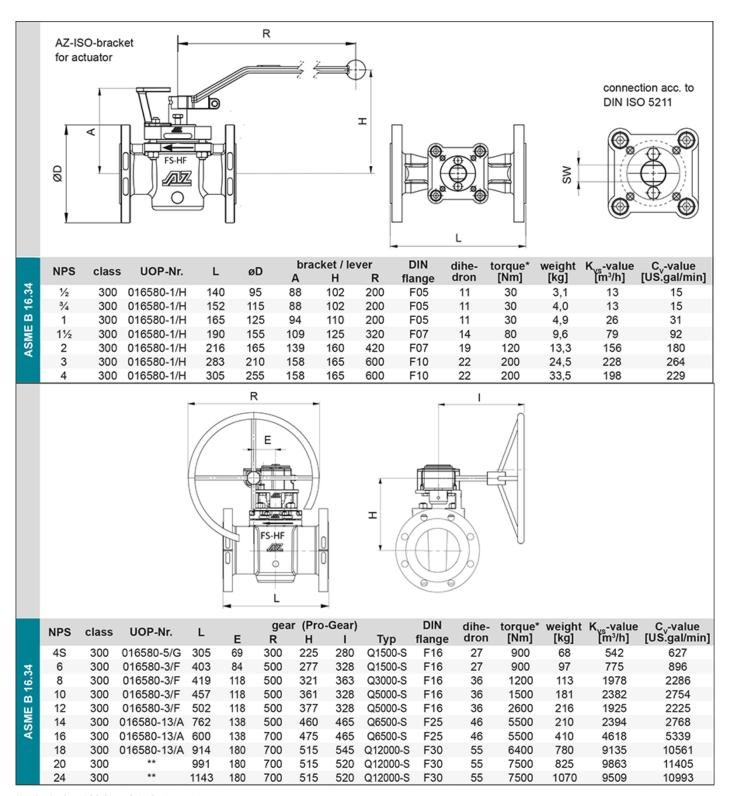


Fully vented Plug (FVP) prevent possibility of pressure build-up due to thermal expansion

- vented plug buttom
- vented plug side

Dimensions

Type ISO-FS-HF



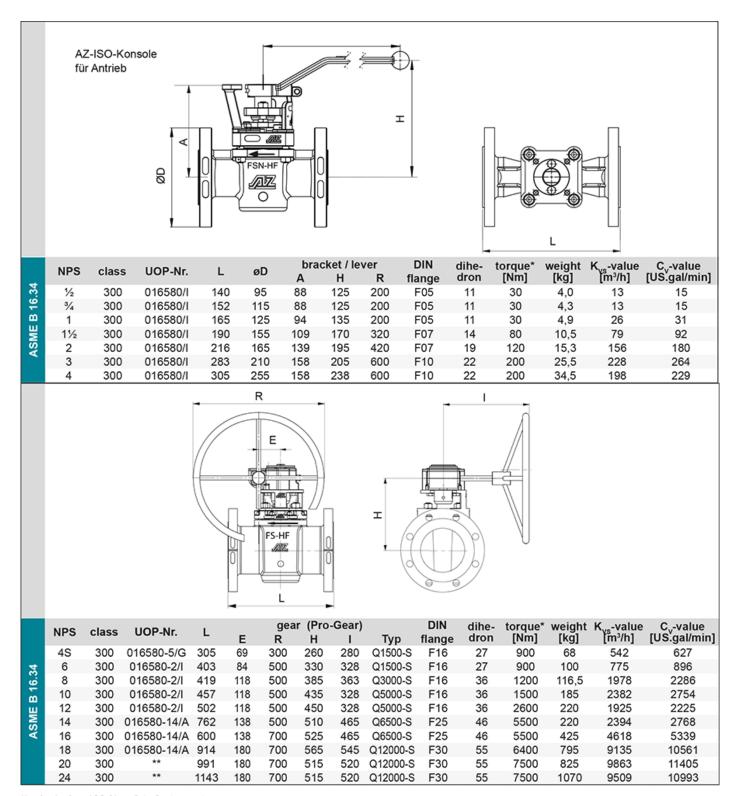
^{*)} inclusive 100 % safety factor on torques

Geometric reasons partly threaded holes in flange drilling

Temperature range: T_{min} -29°C / T_{max} 220°C

Type ISO-FSN-HF

^{**)} in preparation for UOP certification

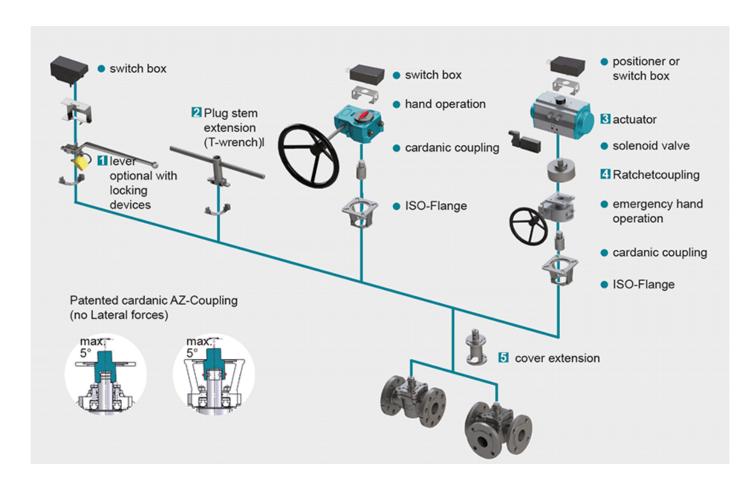


^{*)} inclusive 100 % safety factor on torques

Geometric reasons nartly threaded holes in flance drilling

Actuation

^{**)} in preparation for UOP certification



1 Locking Devices

Pilot valve combinations, pad lock eyelets, linear key conception, indexing plunger arrestor. read more [...]

2 Plug stem extension

Solid construction in stainless steel with T-wrench, Standard extension 100 mm or 150 mm, non standard lengths are available on request

read more [...]

3 Actuators

Actuators for mounting-flange acc. to DIN ISO 5211 read more [...]

NEW: Pneumatic actuator AIR GEAR for plug valves with high torque =150.000 Nm read more [...]

4 Ratched coupling

To usw on multiport valves with standard 90° actuator for bigger switchpositions than 90° read more [...]

5 Cover extension

Solid construction in stainless steel, Standard extension 100 mm or 150 mm high, non standard lengths are available on request . Hexagonal bolts on adjustment ring freely accessible. Note: Don't use with sealing FSN/FSN-SL and CASN/CASN-SL

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