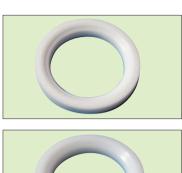


VARIETY OF BALL SEAT AND THEIR FEATURES



PURE PTFE (W) Suitable MODEL: HF5 (Body Material Cast Iron, Ductile Iron)
HS5 (Body Material Ductile Iron)

Property of sealing and chemical resistance are high.



MAXTITE
PTFE
(MT)

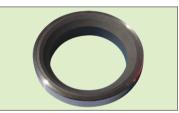
Suitable MODEL: HF5 (Body Material Stainless steel, Carbon steel) HF5ST (for 1MPa Steam) HS5 (Body Material Stainless steel), HS5ST

Next Generation PTFE

This material has high creeping property for high temperature, and it has higher performance for high temperature and pressure compare with reinforced PTFE (R.PTFE).

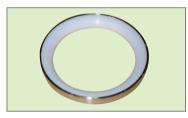


CARBON FILLED R. PTFE (R4) Reinforced PTFE that filled Carbon fiber into the PTFE is available to use for more severe condition than Maxtite PTFE. It has high abrasion resistance and available to use slurry service.



CARBON SEAT Suitable MODEL: HF5(CAM), HF5(CAH)

It has good performance for high temperature service. (Max. 400degree C) Carbon material has enough strength, but this carbon seat is attached support ring (stainless steel), and increased safety performance.



PTFE with Retainer (RW, RMT, RR) This PTFE seat is attached outer ring outside diameter of PTFE seat (stainless steel). It can be protected creeping for high temperature and high pressure service, and protect to transform the seat shape for valve operation against fluid flow. This is usable for wider operation range. As the above, operation life time becomes long.



BR SEAT

Suitable for powder and pellet fluid by attached back seat behind of the ball seat. It can be reduced the operation torque in case of powder service by cushion of back seat. Material of Seat: PTFE + Silicon



LP SEAT

There are not many of void in LP seat Material. Therefore the penetration rate is lower and can be protected polymerization in case of using for Monomer service. The result of it, operation life time will be extended. Characteristic of Fluoroplastics material are good sealing, light weight, stability torque and high chemical resistance.



METAL SEAT Metal seat is suitable for Powder, Slurry, High Viscosity, High Temperature fluid service by using together with Metal ball. At the fluid touched part of ball and seat are treated hard facing treatment. **Please refer the back page!

VARIETY OF BALL(HF5)

| | DESIGN | | | | | | |
|-------|---------------|-------------------------------|-------------------------|-------------------------------|-------------------------|------------------------|--|
| TYPE | | SOLID | | CORE CAVITY | | HOLLOW | |
| STYLE | | THROUGH CONDUIT | | THROUGH CONDUIT | | HOLLOW | |
| SUIT | BODY MATERIAL | Stainless steel, Carbon steel | Cast Iron, Ductile Iron | Stainless steel, Carbon steel | Cast Iron, Ductile Iron | Cast Iron、Ductile Iron | |
| | SIZE | ~100A | 15A~40A | 125A~300A | 250A | 50A~200A | |

TYPE OF HARD FACING AND THEIR FEATURES

| | Treatment | Details | Hardness (HV) | Features |
|------|----------------------------|--|---------------|---|
| BALL | ISONITE | Salt Bath Nitriding | 1200 | Usable for steam and powder line by hard material. It has some black colored carbide. Standard treatment of HF5(M1R), HF5(M1M). |
| | HARD CHROME PLATING | Galvanization | 800~1000 | High Hardness & High Corrosion Resistance. |
| | NEW KANUC | Vacuum Evaporation Gas Nitriding | 1200~1400 | High Hardness. It has no black colored carbide(below 350℃). Usable for steam and powder service. |
| | METCO -16C | Self-Fluxing Alloy Spraying (Ni basis) | 655~738 | Effective for Heatproof and Enduring Erosion(Max. 600°C). Suitable for steam and powder service. Standard of HF5(M1H) |
| | COLMONOY No.5 | Self-Fluxing Alloy Spraying (Ni basis) | 446~513 | Effective for Heatproof and Corrosion Resistance (Max. 600°C). |
| | TUNGSTEN CARBIDE (LW-5) | Self-Fluxing Alloy Spraying (W basis) | 1000 | Effective for Enduring Errosion. High Hardness. |
| | STELLITE No.12 | Welding (Co basis) | 471 | Effective for Enduring Erosion and Corrosion. |
| SEAT | STELLITE No. 6 | Welding (Co basis) | 435 | Effective for Enduring Erosion. |
| | STELLITE No. 1 | Welding (Co basis) | 580 | Effective for Enduring Erosion. High Hardness. |

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 SISO 9001 CERTIFIED FACT

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