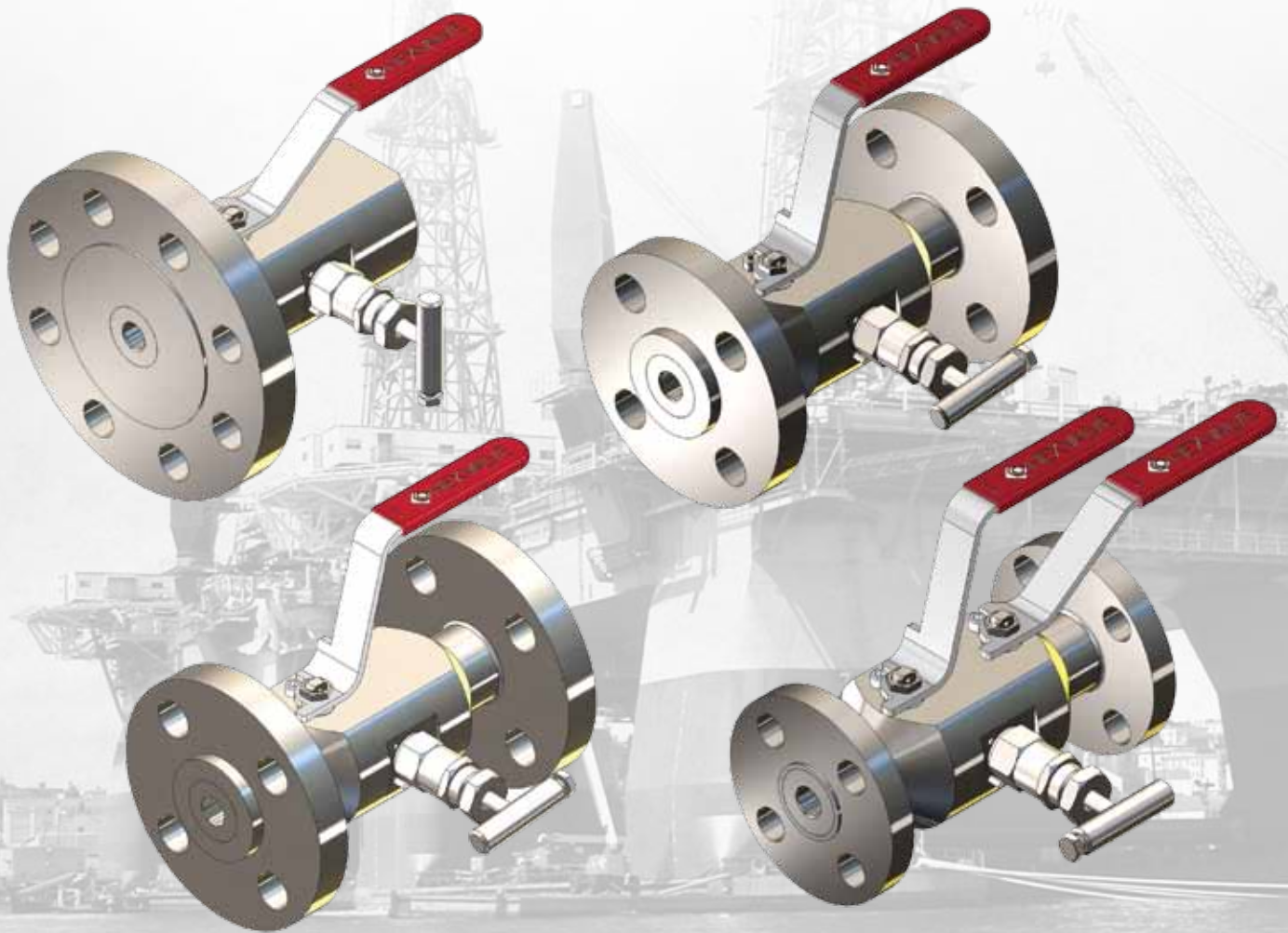




# HexBlok Ball Valve Products

10MM Ball Valve Style  
Single Block, Block and Bleed, and Double Block and Bleed  
Flanged Instrument Isolation Valves



## HexBlock. . .

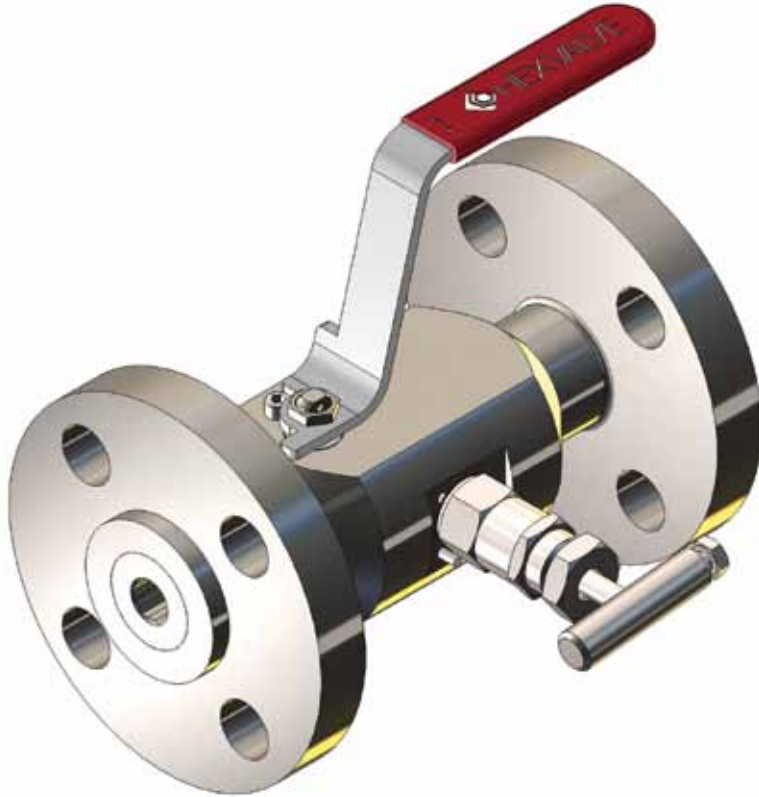
Built Hex tough for a lifetime of use.  
See how inside . . .

## HEXVALVE

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**HEXBLOK 10MM BALL VALVES****HEXBLOK**

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HEXBLOK: Designed and manufactured by the company that produced the Oil and Gas industries first primary gauge and orifice valves. Hex is proud to manufacture the most rugged and dependable Double Block and Bleed design used today. See for yourself, Hex builds tough valves.

**APPLICATIONS**

HEXBLOKS are used primarily on Upstream Offshore/Onshore Oil production and initial processing installations. Typically used on liquid hydrocarbon applications to minimize the size and weight of the pipe-valve assemblies associated with gauge pressure or analytical instrumentation. Used specifically for primary and/or secondary isolation, vent and calibration access, or sampling or injection applications.

Also used in downstream Oil Refining and Petrochemical production on flanged process piping.

## **SPECIFICATIONS: 10MM BALL VALVES**

### **WORKING PRESSURE**

In accordance to ASME B16.5 for class 150 to 2500

### **WORKING TEMPERATURES**

450°F (232°C) for Teflon seals and packing

450°F (232°C) for PEEK seals and Graphite packing (fire safe)

### **CERTIFICATIONS**

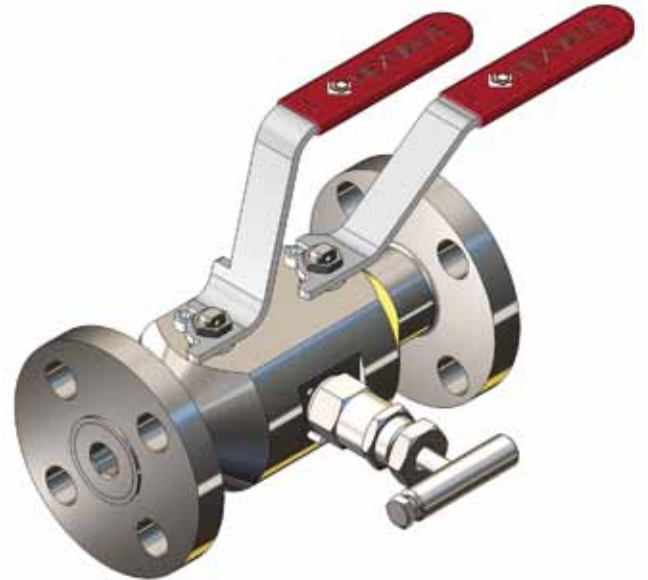
API 607 5th Edition (Fire Test)

ASME VIII (pressure boundaries)

PED

ANSI B16.5 (flange dimensions)

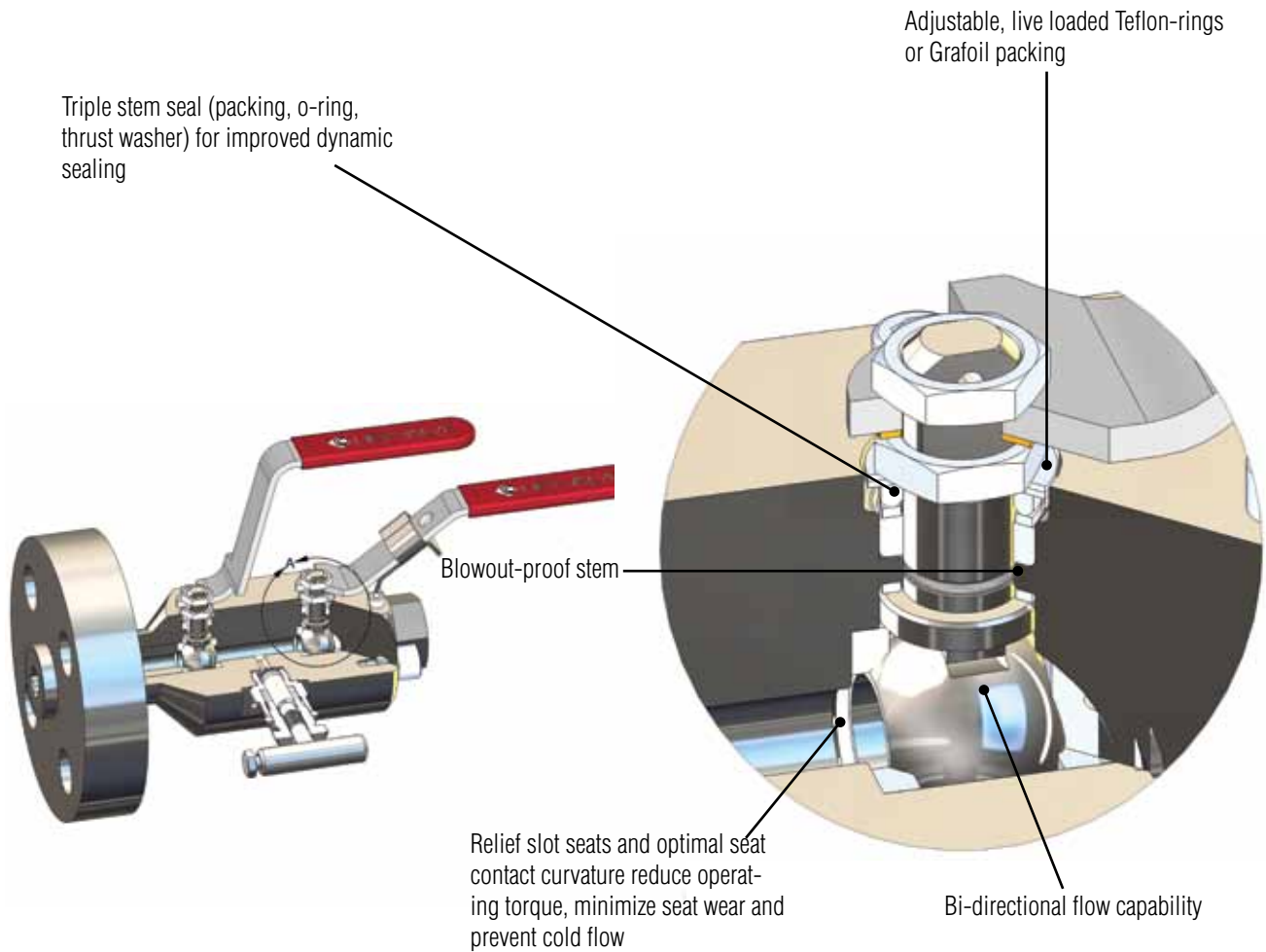
EN 10204.3.1 (material traceability)



### **HEXBLOK ADVANTAGES & CUSTOMER BENEFITS**

- Large, 10mm (3/8") standard orifice and porting, resulting in a lower probability of plugging.
- Integral back seat on stem prevents stem blow out.
- Relief slot seats and optimal seat contact curvature reduce operating torque, minimize seat wear and prevent cold flow
- Large, robust bonnet and NRT stem design on vent valve means higher probability of long life, and less break risk than competitive designs.
  - Hex was the first in the industry to utilize Non-Rotating Stem Tip (NRT) technology. When the stem tip contacts the seat, it stops rotating, preventing the cross scoring and eventual leaks that can occur with ball type stems.
- Adjustable, live loaded Teflon or Grafoil packing on ball valves insures zero external leakage.
- 4 rings Teflon Chevron style packing, or multi-ring set of grafoil surrounded by braided graphite standard on vent valve. Verified to exceed US EPA 40 CFR 60 emission standards by more than 5 times. Less probability of leaks means less risk.
- Single and double flanged versions available as standard.
- API 607 5th Edition (fire test) Standard (Graphite packed models only).
- Large variety of standard and optional forged or bar materials and outlet options, means you can select the style and material you need immediately from catalog, instead of having to contact the factory.
- Special built-to-order design inquiries welcome.

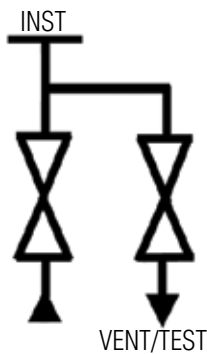
## HEXBLOK VALVES: 10MM BALL VALVES



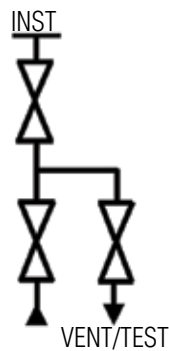
## FLOW SCHEMATIC



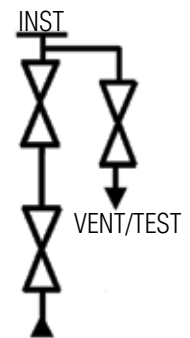
For Models: **HK12**



**HK22**



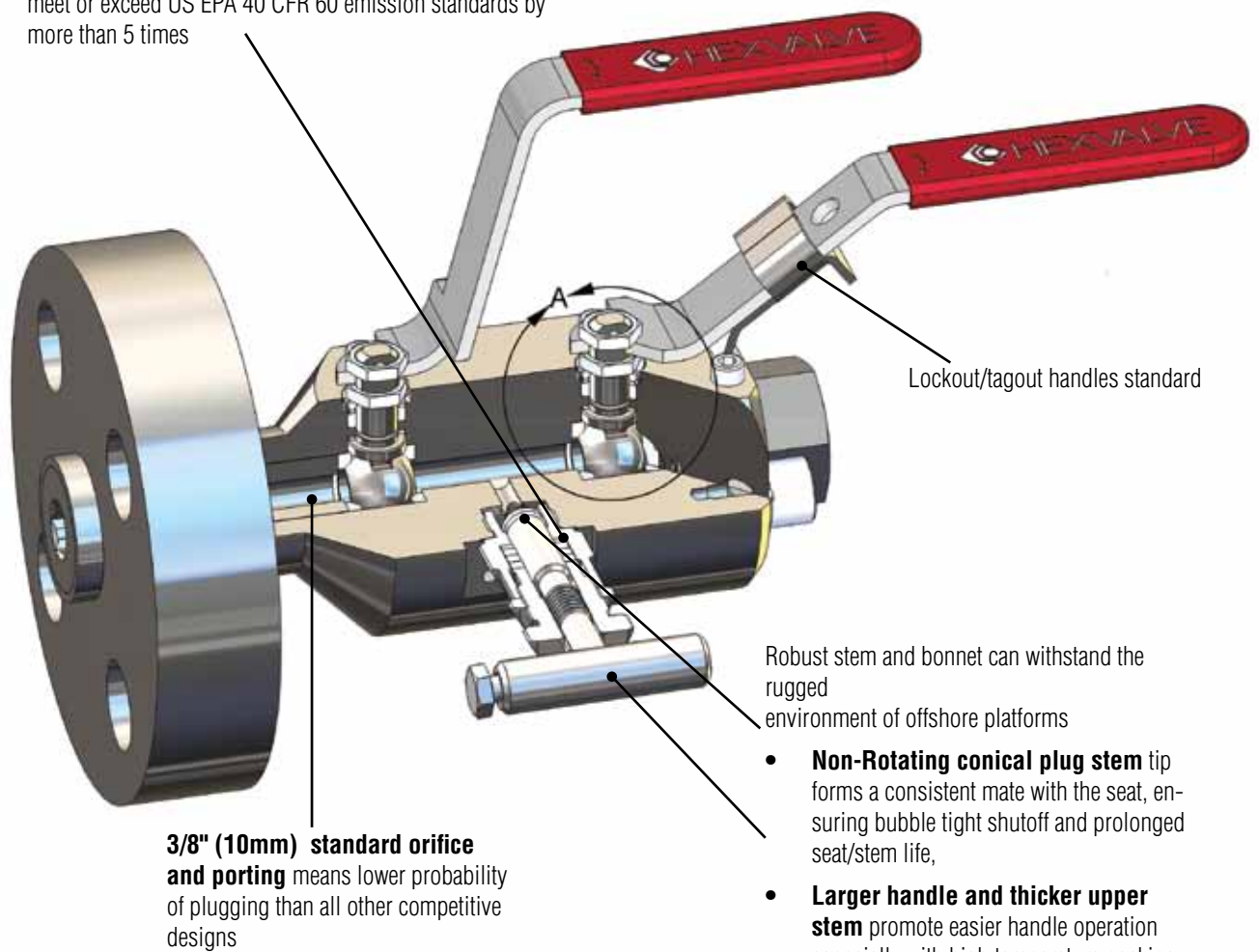
**HK32**



**HK42**

## HEXBLOK VALVES: 10MM BALL VALVES

4 rings Teflon Chevron style packing, or multi-ring set of grafoil surrounded by braided graphite standard. **These standard packing sets are third party verified** to meet or exceed US EPA 40 CFR 60 emission standards by more than 5 times



**3/8" (10mm) standard orifice and porting** means lower probability of plugging than all other competitive designs

Lockout/tagout handles standard

Robust stem and bonnet can withstand the rugged environment of offshore platforms

- **Non-Rotating conical plug stem tip** forms a consistent mate with the seat, ensuring bubble tight shutoff and prolonged seat/stem life,
- **Larger handle and thicker upper stem** promote easier handle operation especially with high temperature packing sets. Lower probability of stem breaks or damage than other designs on the market.

Note: Bonnet stop pin standard on screwed bonnets. Competitor's hollow spring steel pins can corrode and crack in salt water or corrosive ambient environments.

- 1/2" - 14 NPT, FSW, Tube Socket, Flanged, and Multiport Gauge Outlet options are standard selections (note: vent is 1/2" FNPT)
- Standard materials of construction: A182F 316L (forged), Hastelloy C, Incoloy 800, Inconel 600, Low Temp CS A350 LF2 (forged), Monel 400 (forged), Carbon Steel, A105 NACE, Carbon Steel A105, A182F 316L NACE (forged), Duplex A182 F51 (forged), Inconel (625), Super Duplex A182FS3 (forged)
- Raised face (RF) and Ring Type Joint (RTJ) flange styles standard



# ORDERING SCHEMATIC

## HEXBLOK VALVES: 10MM BALL VALVES

MODEL	BODY CONFIG.	BODY MAT'L	INLET SIZE	INLET TYPE	OUTLET SIZE	OUTLET TYPE	BALL & STEM/TIP	BALL SEAT MAT'L	PACKING	OPTION	OPTION
HK22	2	6	3	C	3	1	4	2	3	A	9

MODEL	TYPE
HK12	Single Block Ball
HK22	Single Block Ball & Bleed (vent)
HK32	* Double Block Ball & Bleed (vent)
HK42	** Double Block Ball & Bleed (vent)

\* Block > Bleed > Block configuration

\*\* Block > Block > Bleed configuration

BODY CONFIGURATION	
2	Soft Seat Primary & Secondary Block Valves, with Hard Seat Vent Valve

BODY MATERIAL	
2	A182F 316L (forged)
H	Hastelloy C
I	Incoloy 800
J	Inconel 600
K	Low Temp CS A350 LF2 (forged)
M	Monel 400 (forged)
N	Carbon Steel, A105 NACE
P	Carbon Steel A105
3	A182F 316L NACE (forged)
6	Duplex A182 F51 (forged)
7	Inconel 625 (forged)
4	Super Duplex A182FS3 (forged)

INLET SIZE	
3	1/2" (DN15)
4	3/4" (DN20)
5	1" (DN25)
6	1-1/2" (DN40)
7	2" (DN50)

INLET TYPE	
C	150# RF
D	300# RF
G	600# RF
H	900/1500# RF
K	2500# RF

OUTLET SIZE	
3	1/2" (DN15)
9	Flanged (Same as Inlet)

OUTLET TYPE	
1	FNPT Outlet
2	FSW Connection
W	Tube Socket Connection
N	HB521 with two plug**
9	Flanged (Same as Inlet)

\*\* Three outlet "T" adaptor to allow for alternate upright gauge mount on horizontal pipe, or multiple instrument take-offs.

BALL & STEM / NRT (VENT VALVE)	
3	316/316 NACE Stem w/NRT tip
4	316/316 Stem w/NRT tip
5	316/Stellite Stem w/NRT tip
B	Monel/Monel Stem w/NRT tip
D	Hast C/Hast C Stem w/NRT tip
K	316/MonelStem w/NRT tip

Note: For different NRT tip material, contact factory

BALL SEAT MATERIAL	
3	PEEK (standard)
2	Teflon
4	C-PEEK

Contact factory for other seat materials

PACKING	
2	Teflon Packing
3	Graphite Packing (fire safe selection)

OPTION	
A	RTJ Ring Joint
C	Plugged vent option (same material as body)

OPTION	
9	Tamper proof/lockout handle - vent valve



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