



OAK VALVES

quality & service

ISO 9001
CERTIFIED



FORGED STEEL VALVES

FORGED GATE/GLOBE VALVES

Designed to API 602 and ASME B 16.34; Outside Screw and Yoke (OS&Y); Handwheel operated

- Body/Bonnet connection: Bolted Bonnet (BB) with SS/graphoil gasket or metallic Ring-Joint; Welded Bonnet (WB) by seal or full-penetration welding
 - Full Port (FB) or Conventional Port (RB)
 - Ends: Socket Weld (SW), Threaded (NPT) or Butt-Welding (BW)
 - Size: from 1/4" to 2"
 - Ratings: Class 800-1500-2500 Lb
 - Trim: All API trim (see table)
 - Materials: All ASTM forging materials (see table)
- Globe valves available also in Y-Pattern execution.
Gate valves available also in extended-body execution.



FORGED CHECK VALVES

Designed to API 602 and ASME B 16.34; Ball, Piston and Swing type

- Body/Cap connection: Bolted Cap (BC) with SS/graphoil gasket or metallic Ring-Joint; Welded Cap by seal or full-penetration welding
 - Full Port (FB) or Conventional Port (RB)
 - Ends: Socket Weld (SW), Threaded (NPT) or Butt-Welding (BW)
 - Size: from 1/4" to 2"
 - Ratings: Class 800-1500-2500 Lb
 - Trim: All API trim (see table).
 - Materials: All ASTM forging materials (see table)
- Ball and Piston type available also in Y-Pattern execution.



FORGED FLANGED GATE/GLOBE/CHECK VALVES

Designed to API 602 and ASME B 16.34 with integral body flanges; OS&Y; Full Port or Conventional Port; Handwheel operated

- Body/Bonnet connection: Bolted Bonnet with SS/graphoil gasket or metallic Ring-Joint; Welded Bonnet by seal or full-penetration welding
 - Ends: Flanged to ASME B16.5 or BW to ASME B16.25
 - Face to Face according to ASME B16.10
 - Size: from 1/2" to 3"
 - Ratings: Class 150-300-600-900-1500-2500 Lb
 - Trim: All API trim (see table)
 - Materials: All ASTM forging materials (see table)
- Globe, Check ball and piston valves available also in Y-Pattern execution.



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BALL VALVES



TRUNNION MOUNTED BALL VALVES

Designed to API 608/API 6D; Cast or Forged; Full Bore or Reduced Bore; Bolted body or Fully welded; Fire safe construction to API 607; Antistatic device; Blow-out proof stem; Double block and bleed; Single or double piston effect seats; Soft or metal seated for abrasive media

- Operation: Lever, Gear, Hydraulic, Pneumatic or Electric actuator
- Construction: Top entry or Side entry; Two or three pieces
- Ends: Flanged to ASME B16.5 or BW to ASME B16.25; Hub
- Size: from 2" to 56" (24" for forged steel)
- Ratings: Class 150-300-600-900-1500-2500 Lb
- Materials: All ASTM casting and forging materials (see table)

Trunnion valves are also available in Cryogenic execution for temperature from -196 °C up 150 °C



FLOATING BALL VALVES

Designed to API 608/API 6D; Cast or Forged; Full Bore or Reduced Bore; Bolted body or Fully welded; Fire safe construction to API 607; Antistatic device; Blow-out proof stem; Soft or metal seated for abrasive media

- Operation: Lever, Gear, Hydraulic, Pneumatic or Electric actuator
- Construction: Monobloc, Two or three pieces
- Ends: SW, NPT, Flanged to ASME B16.5 or BW to ASME B16.25
- Size: from 1/2" to 12"
- Ratings: Class 150-300-600-900-1500-2500 Lb
- Materials: All ASTM casting and forging materials (see table)

Floating valves are also available in Cryogenic execution for temperature from -196 °C up 150 °C.



THREE PIECES FORGED BALL VALVES

Designed to API 608/API 6D and MSS SP-118; Full Bore; Bolted body; Fire safe to API 607; Blow-out proof stem; Soft and metal seated for abrasive media; Lever operated

- Ends: SW, NPT, Flanged to ASME B16.5 or with nipples
- Size: from 1/4" to 2"
- Ratings: Class 150-300-600-900-1500-2500 Lb
- Materials: All ASTM forging materials (see table)

DOUBLE BLOCK AND BLEED VALVES

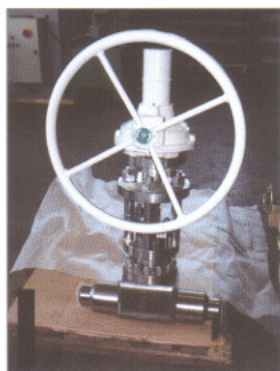
Combination of two ball valves with in addition needle bleed to ASME 16.34

- Ball valves: Bolted body; Trunnion or Floating; Side entry; Soft or metallic seat; Fire safe to API 607
- Needle: Inside screw, Integral seat, NPT or GAS port
- Ends: SW, NPT, Flanged to ASME B16.5 or BW to ASME B16.25
- Size: from 1/2" to 4"
- Ratings: Class 150-300-600-900-1500-2500 Lb.
- Materials: All ASTM forging materials (see table)



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PRESSURE SEAL VALVES



Forged and Cast Gate/Globe/Check pressure seal valves designed to API 600/602 and ASME B 16.34; OY&S; Pressure seal Bonnet (PSB); Forged or Cast Body/Bonnet; Handwheel or gear operated;

- Model available: Gate; Globe straight, angle or "Y" type; Swing check
- Ends: Flanged to ASME B16.5 or BW to ASME B16.25
- Face to Face according to ASME B16.10
- Size: Cast from 2" to 16"; Forged from 1/2" to 12"
- Ratings: Class 900-1500-2500-4500 Lb
- Main materials: Cast: WCB, WC9, C12A (other on request)
Forged: A105N, F22, F91 (other on request)

STRAINERS

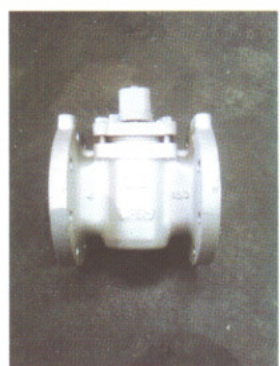


Strainers are available both cast and forged

::: Cast steel "Y" or "T" Type designed to ASME B16.34;

Bolted Cap with drain plug and perforated SS screen

- Ends: Flanged to ASME B16.5 or BW to ASME B16.25
- Size: from 2" to 12"
- Ratings: Class 150-300-600 Lb
- Main materials: WCB, CF8M, LCB (other on request)
::: Forged steel "Y" Type, designed to BS 5352 and MSS SP-118
- Executions: Bolted cap or Welded cap
- Ends: SW, NPT, BW or Flanged
- Size: from 1/4" to 2"
- Ratings: Class 150-300-600-800-1500-2500 Lb
- Materials: All ASTM forging materials (see table)



PLUG VALVES

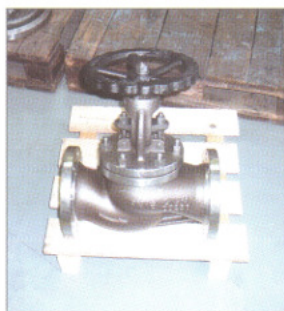
Designed to API 599/ API 6D; Bolted Bonnet; PTFE sleeved; Tapered plug; Fire-safe construction to API 607; Anti-static device; Non lubricated; Lever or gear operated

- Ends: Flanged to ASME B16.5 or BW to ASME B16.25
- Size: from 2" to 20"
- Rating: Class 150-300-600-900 Lb
- Main materials: WCB, LCB, CF3, CF3M, CF8, CF8M

API TRIM DESIGNATIONS

Nº	SEAT FACE	WEDGE FACE	STEM
1	13 Chrome	13 Chrome	13 Chrome
2	304	304	A276 304
5	Stellite 6 facing	Stellite 6 facing	A276 410
8	13 chrome against Stellite 6 facing	Stellite 6 facing	A276 410
9	Monel	Monel	Monel
10	316	316	A276 316
11	Monel against Stellite 6 facing		Monel
12	316 against Stellite 6 facing		A276 316
13	Alloy 20	Alloy 20	B473
14	Alloy 20 against Stellite 6 facing		B473
16	Stellite 6 facing	Stellite 6 facing	A276 316
-	347	347	347

DIN VALVES



- Forged and Cast Gate, Globe and Check Piston designed to DIN 3840; (OS&Y); Handwheel or gear operated; Full Port
- Body/Bonnet connection: Bolted Bonnet with spiral wound gasket retained type
- Ends: Flanged to DIN 2635-2636-2637 or Butt-welding to DIN 3239
- Flanges finish to DIN 2526 form "C", "D" and "E"
- Face to face to DIN 3202
- Size: DN 15-20-25-40-50 (forged); from DN 50 to DN 600 (cast)
- Rating: PN 16-25-40-63-100-160
- Main materials: C22.8, TSTE 355, 13Cr Mo44, 1.4571, 1.4541 (forged)
EN 1.0619-1.6220-1.7357-1.4408-1.4552 (cast)

WAFER CHECK VALVES



- Designed to API 594/API 6D; One piece body; Wafer, wafer-lug or flanged ends. Available in the following versions:
- Disc check with return spring, metal or soft disc
- Swing disc check; metal or soft seat
- Dual-plate check
- Tilting disc check
- Size: from 2" to 36" for swing, dual-plate and tilting check
from 1/2" to 4" for disc check
- Rating: Class 150-300-600-900 Lb
- Main materials: WCB, LCB, WC6, WC9, CF3, CF3M, CF8, CF8M

BUTTERFLY VALVES



- Designed to API 609 and MSS SP-67 /MSS SP-68
- Executions: Centered seal, Double or Triple eccentric seal
- Disc actuation: Lever, Gear, Pneumatic or Electric actuator
- Body connection: Wafer, Lug-wafer, Flanged, Butt-welding
- Sealing: Soft, Soft fire-proof, Metal hard
- Size: from 2" to 62"
- Rating: Class 150-300 Lb
- Main materials: WCB, LCB, WC6, WC9, CF3, CF3M, CF8, CF8M

ASTM EQUIVALENT MATERIAL GRADES

COMMON NAME	FORGING	CASTING	COMMON NAME	FORGING	CASTING
Carbon steel	A105	A216 WCB	321	A182 F321	N/A
Low Temp. carbon	A350 LF2	A352 LCB	347	A182 F347	A351 CF8C
1 ¼ Chrome, ½Moly	A182 F11	A217 WC6	Alloy 20	A182 F20	A351 CN7M
2 ¼ Chrome, 1Moly	A182 F22	A217 WC9	254-SMO	A182 F44	A351 CK3MCuN
5 Chrome, ½Moly	A182 F5	A217 C5	Duplex 2205	A182 F51	A890 Gr.4A
9 Chrome, 1Moly	A182 F9	A217 C12	Super Duplex 2507	A182 F53	A890 Gr.5A
9 Chrome, 1Moly	A182 F91	A217 C12A	Super Duplex Zeron	A182 F55	A890 Gr.6A
304	A182 F304	A351 CF8	904L	B625 N08904	N/A
304L	A182 F304L	A351 CF3	Hastelloy C 276	B564-N10276	A494 CW-12MW
316	A182 F316	A351 CF8M	Inconel 625	B564-N06625	A494 CW6MC
316L	A182 316L	A351 CF3M	Monel 400	B564-N04400	A494 M35-1
317	A182 F317	A351 CG8M	Titanium	B381 Gr. F-3	B367 Gr.C-3

CERTIFICATE

EN ISO 9001:2008
no. 73 100 2565

EN ISO 10014:2007
no. 101004-1

Directive n° 97/23/EC
no. 5251/1/2008

CERTIFIED BY

TÜV Hessen

ISOENCertifications s.r.l.

TECHNICKÁ INŠPEKCIA, a.s.

CRYOGENIC VALVES



Cryogenic valves are available both cast and forged for temp. down to -196 °C
::: Forged steel Gate and Globe designed to API 602 and ASME B16.34

Executions available: BB or WB; RB or FB ■

Ends: SW, NPT, BW or Flanged ■

Size: from 1/2" to 2" ■

Ratings: Class 150-300-600-800-1500 Lb ■

Main materials: LF2, 304(L), 316(L), F51 ■

::: Cast steel Gate and Globe designed to API 600 and ASME B16.34

Ends: Flanged to ASME B16.5 or BW to ASME B16.25 ■

Size: from 2" to 24" ■

Ratings: Class 150-300-600-900-1500 Lb ■

Main materials: LCB, CF8, CF3, CF8M, CF3M ■

BELLOW VALVES



Bellow seal valves are available both cast and forged; Bellow materials:

304, 321, 316, Inconel 625, Hastelloy C276, Monel

::: Forged steel Bellow Gate and Globe designed to API 602 and MSS SP-117

Executions available: BB or WB; RB or FB ■

Ends: SW, NPT, BW or Flanged ■

Size: from 1/2" to 2" ■

Ratings: Class 150-300-600-800-1500 Lb ■

Main materials: A105, 304(L), 316(L), 347, 321, F20 ■

::: Cast steel Bellow Gate and Globe designed to API 600 and MSS SP-117

Ends: Flanged to ASME B16.5 or BW to ASME B16.25 ■

Size: from 2" to 24" ■

Ratings: Class 150-300-600 Lb ■

Main materials: WCB, CF8, CF3, CF8M, CF3M, CF8C, CN7M ■

CERTIFICATES



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CAST STEEL VALVES



CAST GATE VALVES

Designed to API 600 /API 6D and ASME B16.34; OS&Y; Handwheel, gear or electric actuator operated; Full Port

Body/Bonnet connection: Bolted Bonnet (BB) with SS/graphoil gasket or metallic Ring-Joint; Pressure Seal Bonnet (PSB) ■

Ends: Flanged to ASME B16.5 or BW to ASME B16.25 ■

Wedge: Flexible or split design ■

Size: from 2" to 48" ■

Ratings: Class 150-300-600-900-1500-2500 Lb ■

Trim: Forged T- head stem. All API trim (see table) ■

Materials: All ASTM casting materials (see table) ■

Gate valves available also according to API 603 Std – Corrosion resistant.



CAST GLOBE VALVES

Designed to API 600 /API 6D and ASME B16.34; OS&Y; Handwheel, gear or electric actuator operated; Full Port

Body/Bonnet connection: Bolted Bonnet (BB) with SS/graphoil gasket or metallic Ring-Joint; Pressure Seal Bonnet (PSB) ■

Ends: Flanged to ASME B16.5 or BW to ASME B16.25 ■

Size: from 2" to 48" ■

Ratings: Class 150-300-600-900-1500-2500 Lb ■

Trim: Forged T- head stem. All API trim (see table) ■

Materials: All ASTM casting materials (see table) ■

Globe valves available also according to API 603 Std – Corrosion resistant.



CAST CHECK VALVES

Designed to API 6D and ASME B16.34; Lift and Swing type; Horizontal or vertical service; Full Port

Body/Cover connection: Bolted Cover (BC) with SS/graphoil gasket or metallic Ring-Joint; Pressure Seal Bonnet (PSB) ■

Ends: Flanged to ASME B16.5 or BW to ASME B16.25 ■

Size: from 2" to 48" ■

Ratings: Class 150-300-600-900-1500-2500 Lb ■

Trim: All API trim (see table) ■

Materials: All ASTM casting materials (see table) ■

Check valves available also according to API 603 Std – Corrosion resistant.



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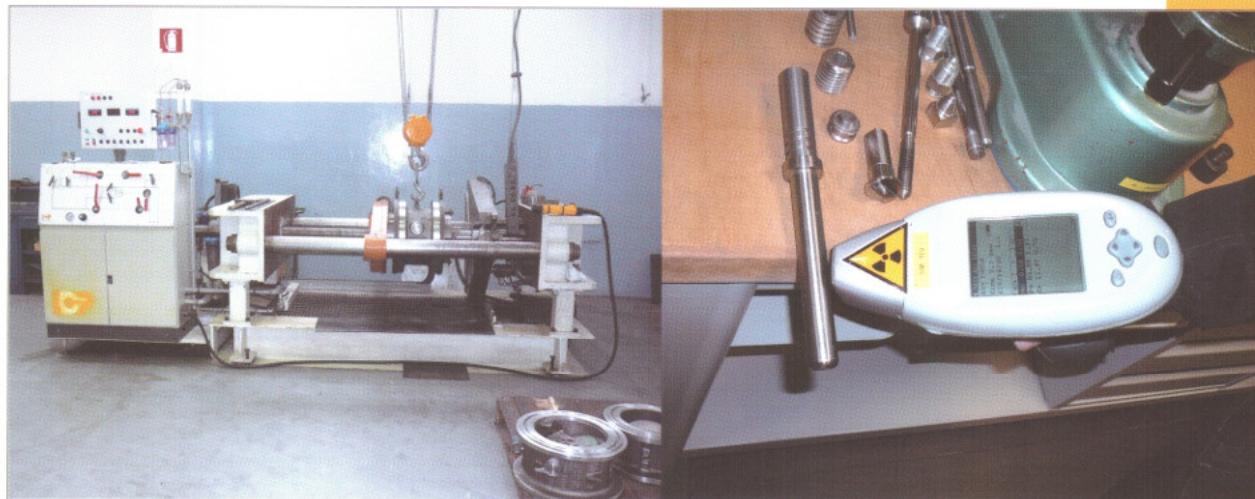
OAK VALVES is a brand of LUNA

OAK Valves is a brand owned by LUNA s.r.l., an Italian Company well known as global supplier of Valves manufactured in Italy.

The Quality System of LUNA complies with EN ISO 9001-2008 specification certified and regularly audited by TUV. LUNA is authorized to apply the marking on the valves with his own brand OAK according to European Directives PED 97/23 EC.

The OAK valves conform to Standard ISO, API, ASME, BS and DIN. In particular the hydraulic and pneumatic tests are performed according to API 598. All valves are supplied with a test certificate in accordance with EN 10204 standard. A reliable equipment to perform Positive Material Identification (PMI) tests on body, bonnets and trim of any valve is available.

The aim of LUNA is to improve continually the design, the quality and the performance of OAK valves.



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