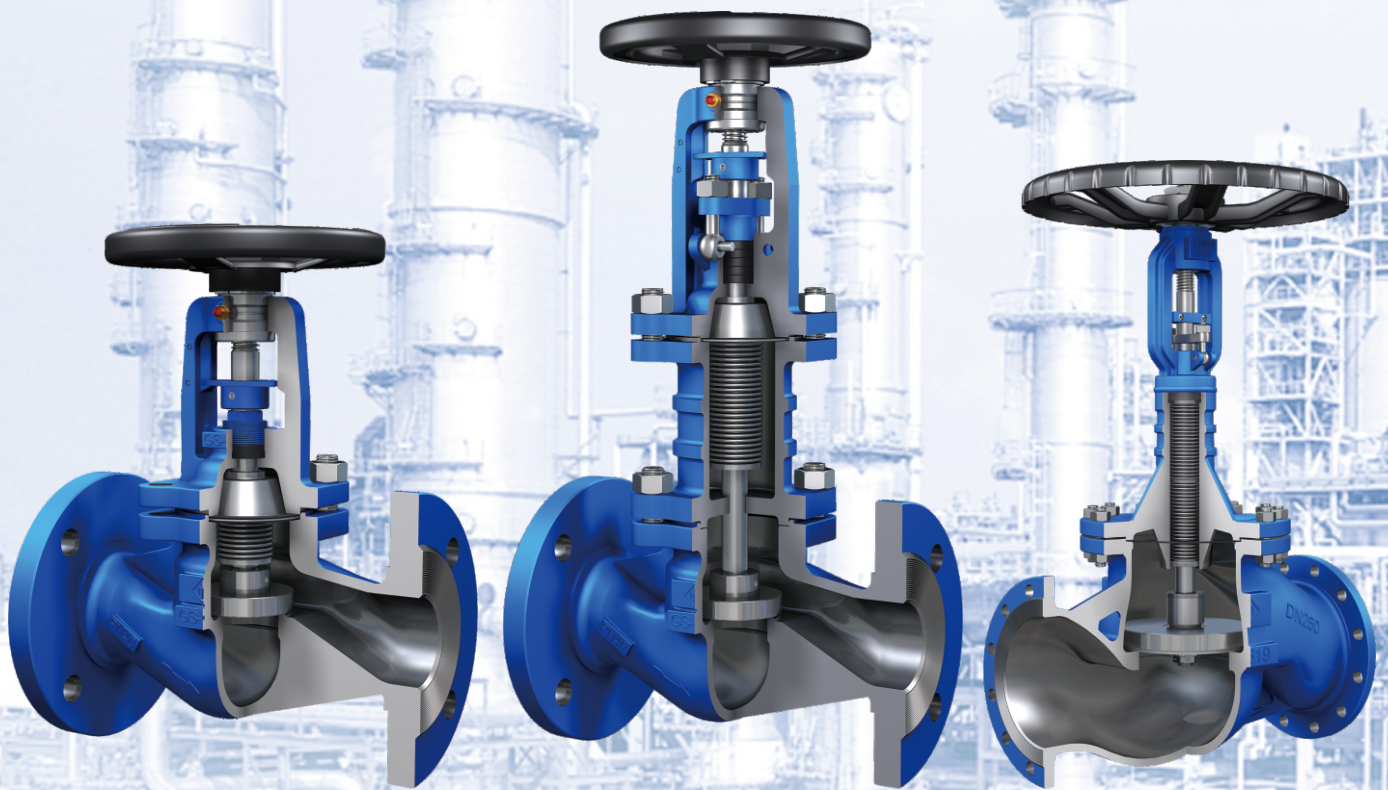


Europe Technology Manufacturer



ETMVAL
ETM ARMATUREN

The Bellows Sealed Valve



Straight-through-flanged Straight-through-butt weld ends Angle pattern-flanged Y-pattern-flanged Y-pattern-butt weld ends

ETMVAL PLUS

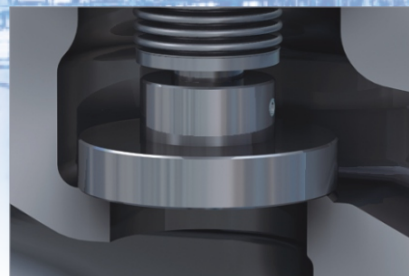
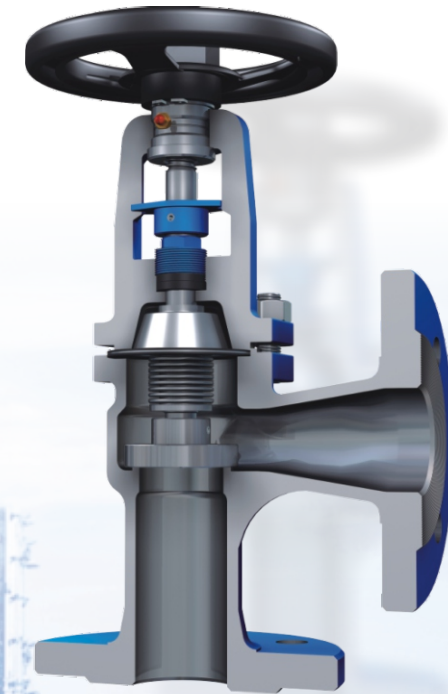


Products:

ETM-PLUS-BS/EN Standard bellows sealed stop valve PN 16 Bar with Flanges According to DIN EN 1092-1
 ETM-PLUS-BS/EN Standard bellows sealed stop valve PN 25 Bar with Flanges According to DIN EN 1092-1
 ETM-PLUS-BS/EN Standard bellows sealed stop valve PN 40 Bar with Flanges According to DIN EN 1092-1
 ETM-PLUS-BS/EN Standard bellows sealed stop valve PN 16 Bar with Butt Weld Ends According to DIN EN 12627
 ETM-PLUS-BS/EN Standard bellows sealed stop valve PN 25 Bar with Butt Weld Ends According to DIN EN 12627
 ETM-PLUS-BS/EN Standard bellows sealed stop valve PN 40 Bar with Butt Weld Ends According to DIN EN 12627

Material Equivalence:

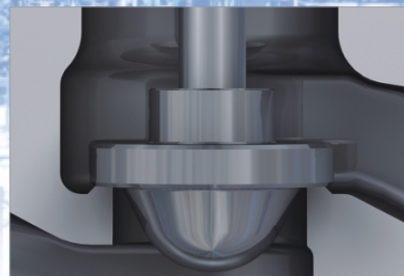
EN Material Name	EN Number	Forgings	ASTM Material	Forgings
EN 10213 GP240GH	1.0619	1.0460	ASTM A216 WCB	A105
EN 10213 G20Mo5	1.6220	1.0437	ASTM A352 LCB	A352 LF2
EN 10213 G17CrMo5-5	1.7357	1.7335	ASTM A217 WC6	A182 F11
EN 10213 G17CrMo9-1	1.7379	1.7380	ASTM A217 WC9	A182 F22
EN 10213 GX5CrNi19-10	1.4308	1.4301	ASTM A351 CF8	A182 F304
EN 10213 GX5CrNi19-11-2	1.4408	1.4401	ASTM A351 CF8M	A182 F316



Flat Disc Design



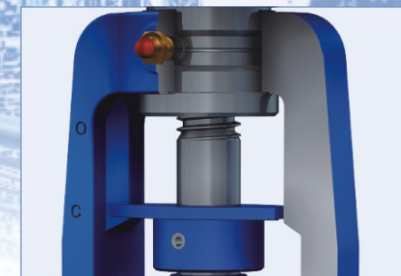
Cone Disc Design



Parabolic & Regulation Disc Design



Heat dissipating bonnet design



Storage of oil device



Double wall bellows design SS304

Quality from the proven power of our europe technology!

Features:

Cast steel PN10, PN16, PN25, PN40-DN15 to DN500
 Straight-through and angle type.
 Easy operating handwheel with safe operation at all working temperatures
 Energy-saving bell of chrome nickel steel with air cushion between bell and housing
 Bellows of chrome-nickel steel
 Internals (stem, disk and seat of stainless steel)
 Disk flexibly attached to stem for easy replacement and to prevent vibration transfer to bellows
 Flat Disc, Parabolic & Regulation disc , PTFE Soft Seated Disc, Cone Disc, Stop Check Disc, Double Stage Disc & Balance Disc
 Storage of oil device
 Position indicator as standard
 Heat dissipating bonnet design.
 Locking Device / Stroke Limiter

Mediums:

Standard: Steam, gases, hot water, thermal fluids, process water, vacuum facilities, ammonia etc.
 Stainless Steel: Process water, aggressive media, etc.

Requirements and testing:

The test are carried out according to DIN EN12266-1
 Shell test : nominal pressure (PN)X1.5
 Tightness of seat :nominal pressure (PN)X1.1
 Certificate of conformity in according to with PN-EN10204
 Design according to PN-EN12516-2
 Valves have been submitted for appraisal of conformity according to the directive pressure equipment directive 97/23/EC.

Installation:

They can be installed on pipelines in a vertical or horizontal and operation only
 Direction of flow see body mark

Connection:

Butt-Welded according to DIN EN12627; Flanged according to EN1092-1 or to customer request
 Face to face dimensions according to EN558-1 1 Series (DIN3202 F1 Series)

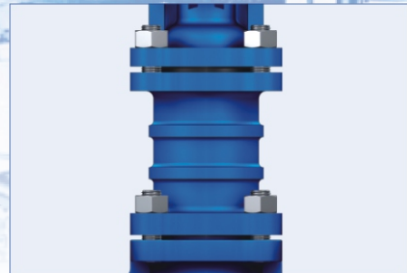


Products:

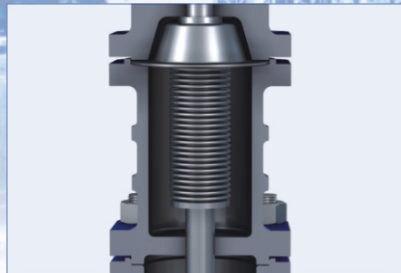
ETM-ALSE-BS/EN Standard long life bellows sealed stop valve PN 16 Bar with Flanges According to DIN EN 1092-1
 ETM-ALSE-BS/EN Standard long life bellows sealed stop valve PN 25 Bar with Flanges According to DIN EN 1092-1
 ETM-ALSE-BS/EN Standard long life bellows sealed stop valve PN 40 Bar with Flanges According to DIN EN 1092-1
 ETM-ALSE-BS/EN Standard long life bellows sealed stop valve PN 16 Bar with Butt Weld Ends According to DIN EN 12627
 ETM-ALSE-BS/EN Standard long life bellows sealed stop valve PN 25 Bar with Butt Weld Ends According to DIN EN 12627
 ETM-ALSE-BS/EN Standard long life bellows sealed stop valve PN 40 Bar with Butt Weld Ends According to DIN EN 12627

Material Equivalence:

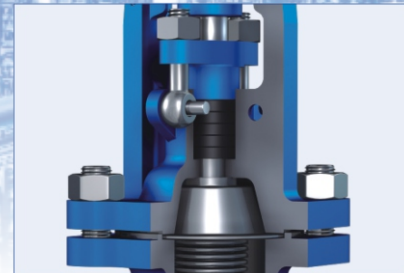
EN Material Name	EN Number	Forgings	ASTM Material	Forgings
EN 10213 GP240GH	1.0619	1.0460	ASTMA216 WCB	A105
EN 10213 G20Mo5	1.6220	1.0437	ASTMA352 LCB	A352 LF2
EN 10213 G17CrMo5-5	1.7357	1.7335	ASTMA217 WC6	A182 F11
EN 10213 G17CrMo9-10	1.7379	1.7380	ASTMA217 WC9	A182 F22
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EN 10213 GX5CrNi19-11-2	1.4408	1.4401	ASTMA351 CF8M	A182 F316



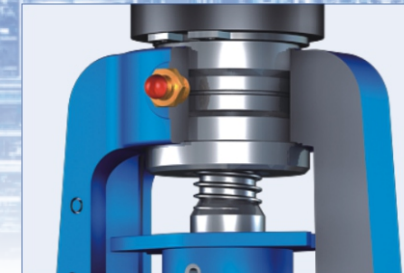
Double bellows cover for increased resistance to heat dissipating design.



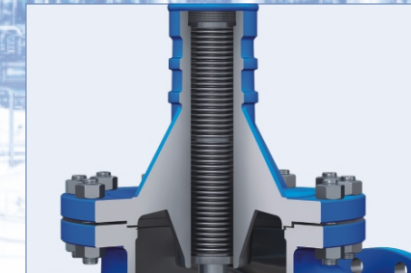
The bonnet is combined with a bellows protective chamber to isolate the bellows assembly from the medium and therefore improve the assembly's life.



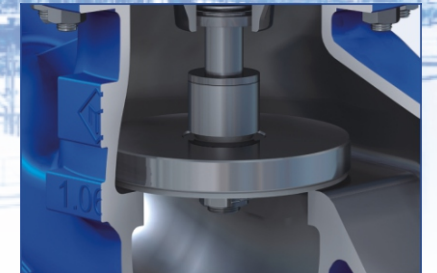
Gland packing / gland seal stuffing box provides an additional stem seal



Storage of oil device and Position indicator



Standard reinforced bellows SS316L from DN250 with triple wall design.



Double Stage Disc & Balance Disc from DN125 with balance disc

Features:

Cast steel PN10, PN16, PN25, PN40-DN15 to DN400

Straight-through or angle type

Easy operating handwheel with safe operation at all working temperatures

Energy-saving bell of chrome nickel steel with air cushion between bell and housing

Bellows of chrome-nickel steel (Long bellows SS316L design)

Internals (stem, disk and seat of stainless steel)

Disk flexibly attached to stem for easy replacement and to prevent vibration transfer to bellows

Flat Disc, Parabolic & Regulation disc, Soft Seated Disc, Cone Disc, Stop Check Disc, Double Stage Disc & Balance Disc

Storage of oil device

Position indicator as standard

Long bonnet design.

Gland flange design.

Mediums:

Standard: Steam, gases, hot water, thermal fluids, hot oil, process water, vacuum facilities, ammonia etc.

Stainless Steel: Process water, aggressive media, etc.

Requirements and testing:

The test are carried out according to DIN EN12266-1

Shell test : nominal pressure (PN)X1.5

Tightness of seat :nominal pressure (PN)X1.1

Certificate of conformity in according to with PN-EN10204

Design according to PN-EN12516-2

Valves have been submitted for appraisal of conformity according to the directive pressure equipment directive 97/23/EC.

Installation:

They can be installed on pipelines in a vertical or horizontal and operation only

Direction of flow see body mark

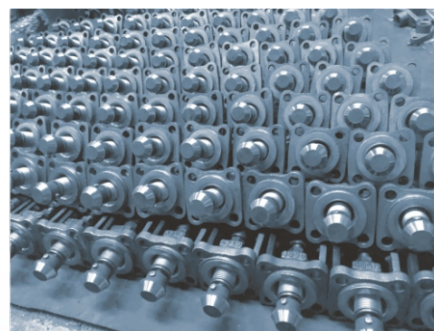
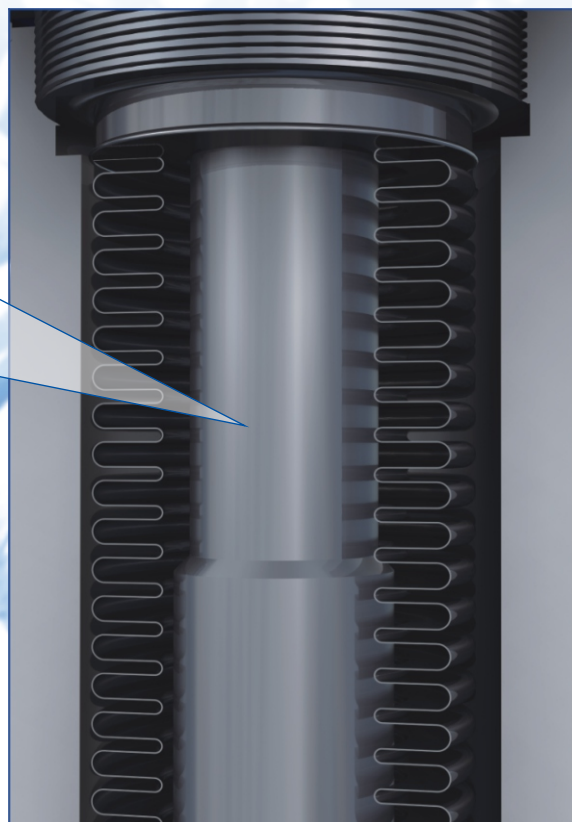
Connection:

Butt-Welded according to DIN EN12627; Flanged according to EN1092-1 or to customer request

Face to face dimensions according to EN558-1 1 Series (DIN3202 F1 Series)



ETMVAL PLUS,ALSE Series bellows sealed valves With 100% bellows test,multi-ply bellows!






HPI Verification Services

Certificate of Quality System Approval

This is to certify that the product listed below conforms to the requirements of the
Pressure Equipment Directive
97/23/EC Annex III Module H

Certificate Number	HPVS/P1001-176-Q-02	Date of Expiry	05-Dec-2017
Date of Issue	12-Feb-2016		Surveillance due Jan 2017
Manufacturer	ETM Valve Co., Ltd. Baihui Village, Jiangbei Street Yongjia County, Wenzhou City Zhejiang Province China		
Description of Pressure Equipment	Gate valves, Globe valves, Check valves and Strainers - NPS-16 (DN 25-400) - Class 150-300. Group 1-2 fluids		
Equipment Identification	CE data plate		
Other Certification Standards Applied	ISO 9001 Quality Management Certificate no 10114Q16922R0S issued by ZLTR BS EN 1984, BS EN 13709, GB/T 14382		
Report Reference	HPVS/P1001-176-2		

This Certificate is valid in any European Economic Area Member State.
This Report has been issued by HPI Verification Services Ltd which is a body notified to the European Commission according to the provisions of the Pressure Equipment Directive (Notified Body number 1521).
This Report is issued following the assessment of the documentation and implementation of the Quality System in accordance with the provisions of the quoted Conformity Assessment Module of the above directive. The CE Mark may be affixed to the Pressure Equipment within the scope of approval as described above once the EC 'declaration of conformity' has been signed by the responsible person. The number '1521', being HPI Verification Services Notified Body number should also be placed on the equipment dataplate.



Check the certificate is genuine

Managing Director



Technical Manager





EU Notified Body No. 1521
Company registered in England #7217086
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OX10 8BA, United Kingdom

PED 97/23/EC



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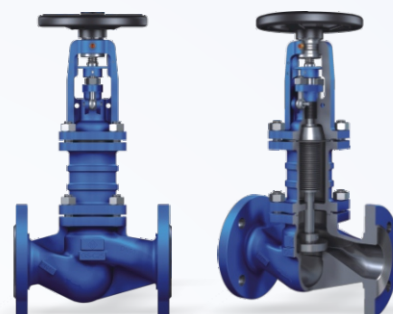
ETM product range



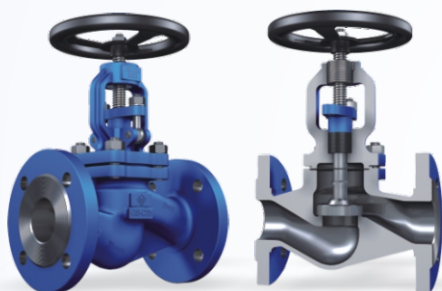
ETMVAL PLUS SERIES BELLOWS SEALED VALVE
ETM FIG.P.061/ ETM FIG.P.062/ ETM FIG.P.063



ETMVAL PLUS SERIES BELLOWS SEALED VALVE
ETM FIG.B.051/ ETM FIG.B.052/ ETM FIG.B.053



ETMVAL ALSE SERIES BELLOWS SEALED VALVE
ETM FIG.L.061/ ETM FIG.L.062/ ETM FIG.L.063



ETMVAL "S" SERIES STOP VALVE WITH GLAND SEAL
ETM FIG.S.150/ ETM FIG.S.151/ ETM FIG.S.152



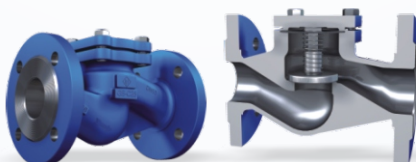
ETMVAL "S" SERIES STOP VALVE WITH GLAND SEAL
ETM FIG.S.140/ETM FIG.S.141/ETM FIG.S.142



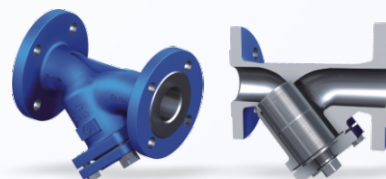
ETMVAL "F" SERIES GATE VALVE WITH GLAND SEAL
ETM FIG.F.160/ETM FIG.F.161/ETM FIG.F.162/ETM FIG.F.163



ETMVAL "C" SERIES SWING CHECK VALVE
ETM FIG.C.260/ETM FIG.C.261/ETM FIG.C.262/ETM FIG.C.263



ETMVAL "C" SERIES LIFT CHECK VALVE WITH SPRING
ETM FIG.C.360/ETM FIG.C.361/ETM FIG.C.362



ETMVAL "T" SERIES Y TYPE STRAINER
ETM FIG.T.830/ETM FIG.T.831