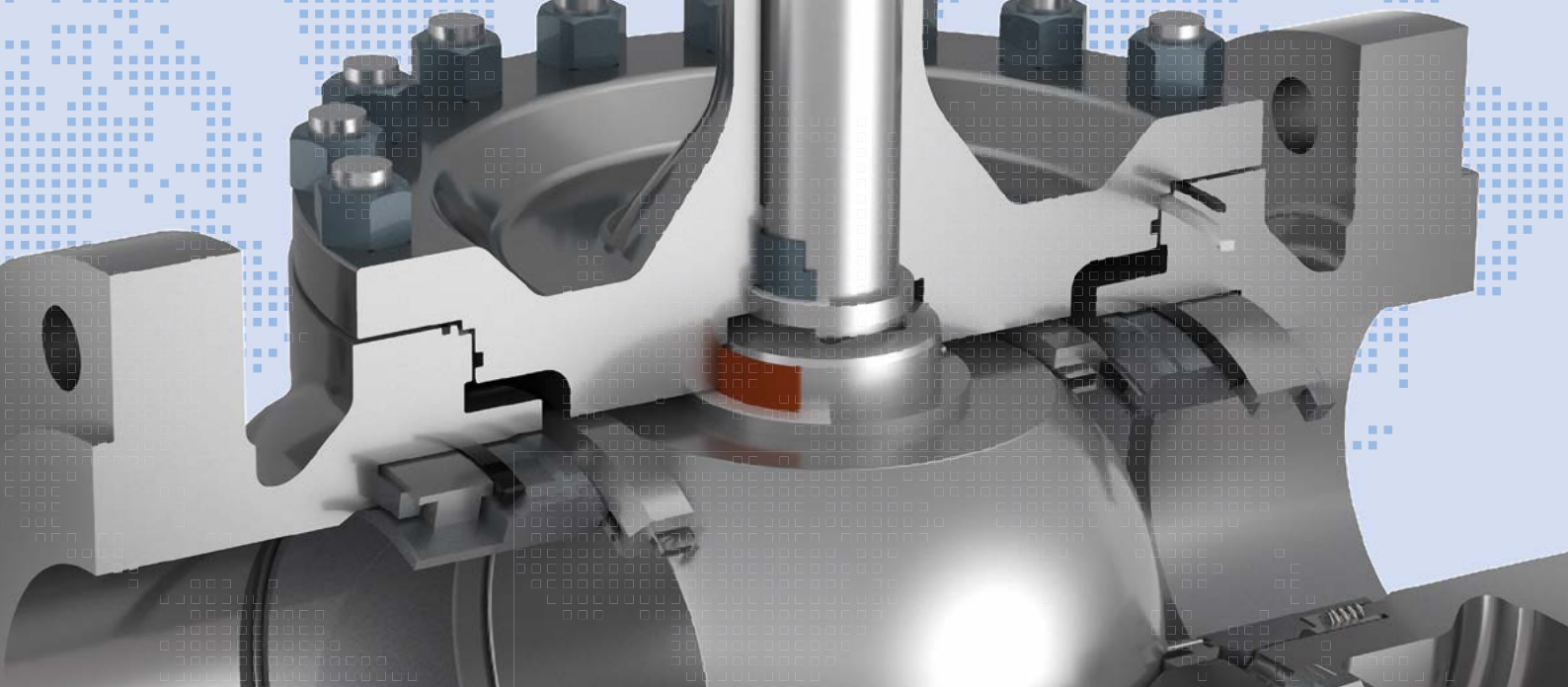


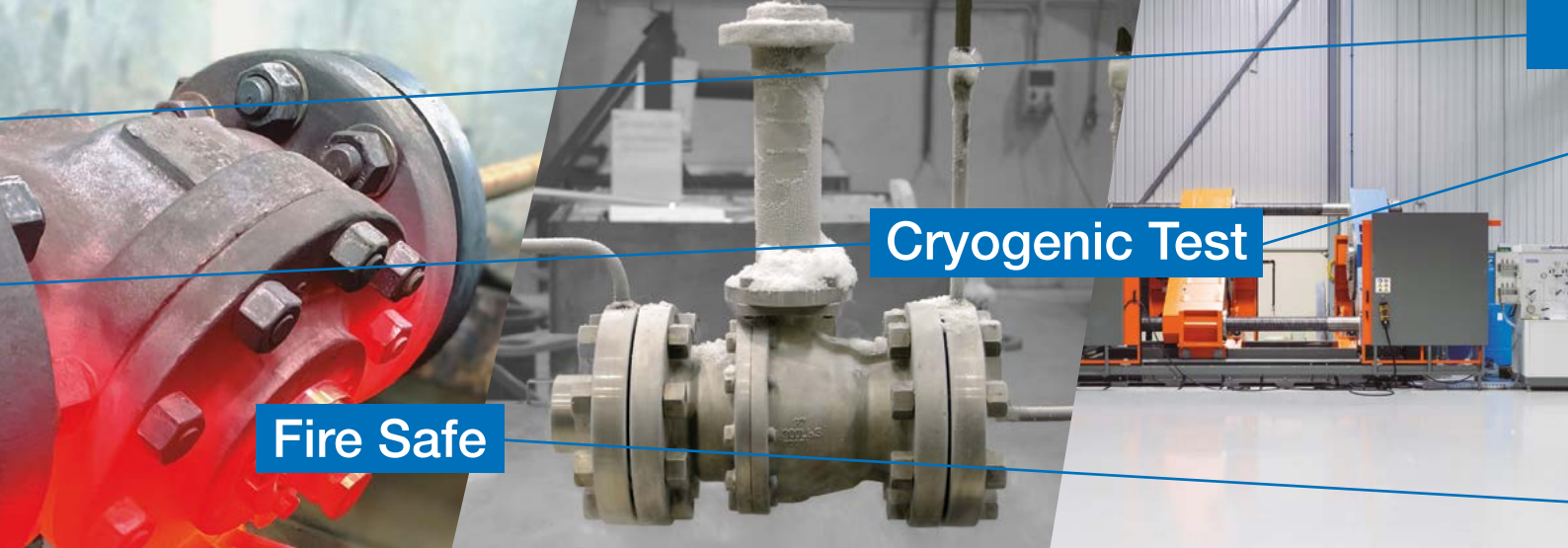


Ball valves
DIN ANSI

Cryogenic



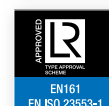
 **Pekos**
V A L V E S



Cryogenic Test

Fire Safe

Certifications and tests



Certificates of the company

ISO 14001	Enviromental Management System
ISO 9001	Quality Management system
API Monogram	API Q1 & API-6D
ISO 45001:2018	Design, assembly and management of manufacturing of ball valves

Certificates of the product

DNV	Type approval
Lloyd's Register	Fire Safe & Type Approval
TÜV A352.09 AD Merkblatt A4	Design of the valves
TA - Luft ISO 15848-1 + VDI 2440	Stem tightness for gas emissions
Helium -40 °C	Leeds University test
Directive 2014/68/EU	Pressure equipment directive (CE marking)
Directive 2014/34/EU	ATEX- directive - (II2GD c T-)
BS 6364	Valves for Cryogenic Service
EN 161 / EN 23553 / EN 16678	Automatic shut-off valves for Gas / Oil burners and equipment
EAC	TR CU 010 - TR CU 012 - TR CU 032
Sanitary approval (Russian)	Food processing and Pharmaceutical industry
IEC 61508	SIL3 CAPABLE
UKR SEPRO	Ukraine Certificate
DVGW-EN 13774	Valves for gas distribution with MOP 16 bar
API 6D Monogram	Certificate N° 6D-0363
NSF International	ANSI 372

Some Company Approvals

- Repsol-YPF (Spain)
- Al Furat Petroleum (Syria)
- Sasol Technology (South Africa)
- EGPC (Egypt)
- China Petroleum (China)
- OMV / Petrom
- Borealis
- Solvay
- Qatar Petroleum (Qatar)
- Petroleum Development Oman (PDO)
- KUWAIT Oil Co. (KOC)
- Zadco (UAE)
- National Iranian Oil Engineering & Construction Co (Irán)
- ADNOC
- INOVYN / INEOS
- Neste Oil

General features

- Floating / Full Trunnion
- Split Body / Top entry
- Full bore / Reduced bore
- Soft seat / Metal seat
- Unidirectional / Bidirectional
- Anti blow out proof stem
- Anti static device
- Self cavity pressure relief
- Degreased
- Security stem extension
- Auto adjustable packing

Standards

- Top flange ISO 5211
- Face to face ANSI B16.10 / EN 558
- Flanges ANSI B16.5, B16.11, B16.25, B1.20.1, / EN 1092-1, ISO 228
- Design API 6D, B16.34 / EN 12516, ISO 17292
- Testing API 598, API 6D, BS 6755-1 / EN 12266, ISO 5208
- Materials according to NACE MR0175



↓ -196°C



IN - HOUSE CRYOGENIC TEST

In-house Cryogenic Test to ensure our product performance in most extreme conditions.

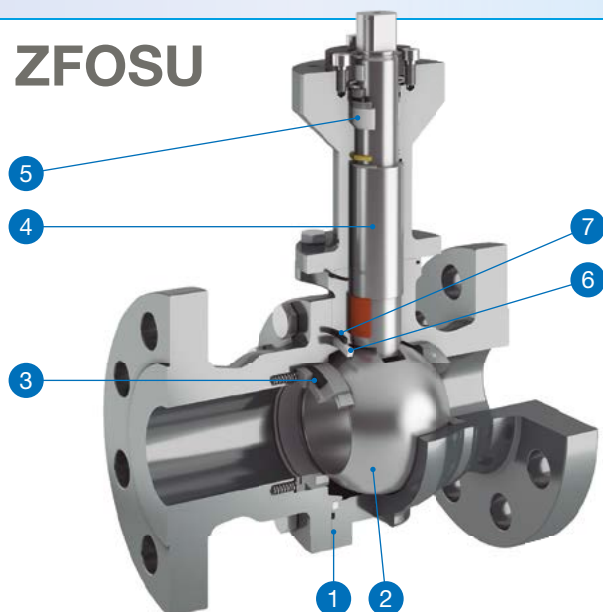
Cryogenic test according to BS6364, or MESC 77/306.



FLOATING 2PC

-196 °C 

ZFOSU



SIZE	RATING
1/2" - 8"	CLASS 150
1/2" - 4"	CLASS 300
1/2" - 2"	CLASS 600
DN 15-200	PN 10-16
DN 15-125	PN 25-40
DN 15-100	PN 63-100

Standard Materials

Item	Description	Materials	
		ANSI	DIN
1	BODY	A351 CF8M/A182 F316	S.S 1.4408
2	BALL	vA351 CF8M	S.S 1.4408
3	SEAT	PCTFE	PCTFE
4	STEM	XM-19	XM-19
5	STEM PACKING 2	PTFE + Graphite	PTFE + Graphite
6	Body seal 1	PTFE(Modified)	PTFE(Modified)
7	Body seal 2	Graphite	Graphite

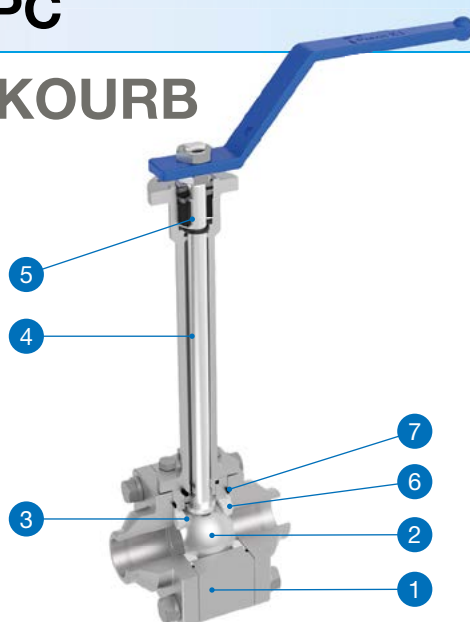
GENERAL FEATURES

- Floating
- Split Body
- Full bore
- Soft seat / Metal seat
- Unidirectional / Bidirectional
- Anti blow out proof stem
- Anti static device
- Self-cavity pressure relief
- Degreased
- Cryogenic stem extension
- Auto adjustable packing
- Spring loaded seat system

FLOATING 3PC

-196 °C 

ZFKOU / ZFKOURB



SIZE	RATING
2 1/2" - 3"	CL 400
2" - 2 1/2"	CL 600
1/4" - 1 1/2"	CL 800

Standard Materials

Item	Description	Materials
		DIN
1	BODY	A182 F316/316L
2	BALL	A182 F316/316L
3	SEAT	PCTFE
4	STEM	XM-19
5	STEM PACKING 2	PTFE+Graphite
6	Body seal 1	PTFE
7	Body seal 2	Graphite

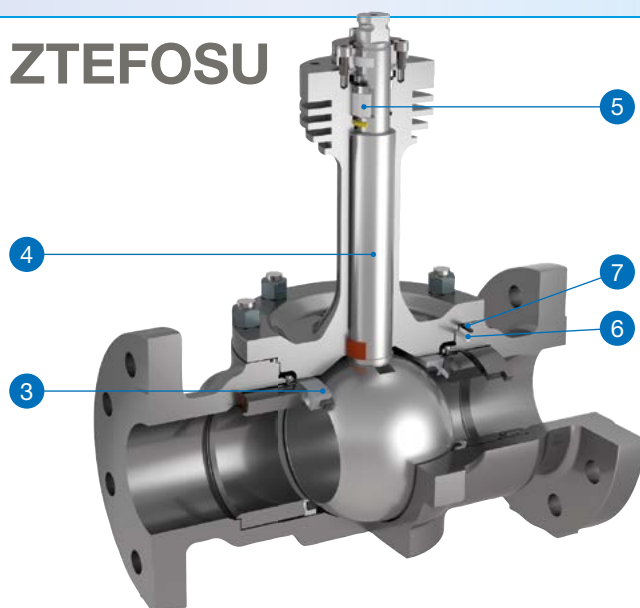
GENERAL FEATURES

- Floating
- Split Body
- Full bore / Reduced bore
- Soft seat
- Unidirectional / Bidirectional
- Anti blow out proof stem
- Anti static device
- Self-cavity pressure relief
- Degreased
- Cryogenic stem extension
- Allows in-line maintenance
- Auto adjustable packing

FLOATING TOP ENTRY

-196 °C 

ZTEFOSU



SIZE	RATING
1/2" - 4"	Class 150-300
1/2" - 2"	Class 600
DN 15-100	PN 10-40
DN 15-50	PN 63-40

Standard Materials

Item	Description	Materials	
		ANSI	DIN
1	BODY	A351 CF8M/A182 F316	1.4408/1.4401
2	BALL	A351 CF8M/A182 F316	1.4408/1.4401
3	SEAT	PCTFE	PCTFE
4	STEM	XM-19	XM-19
5	STEM PACKING 2	PTFE + Graphite	PTFE + Graphite
14	Body seal 1	PTFE	PTFE
34	Body seal 2	Graphite	Graphite

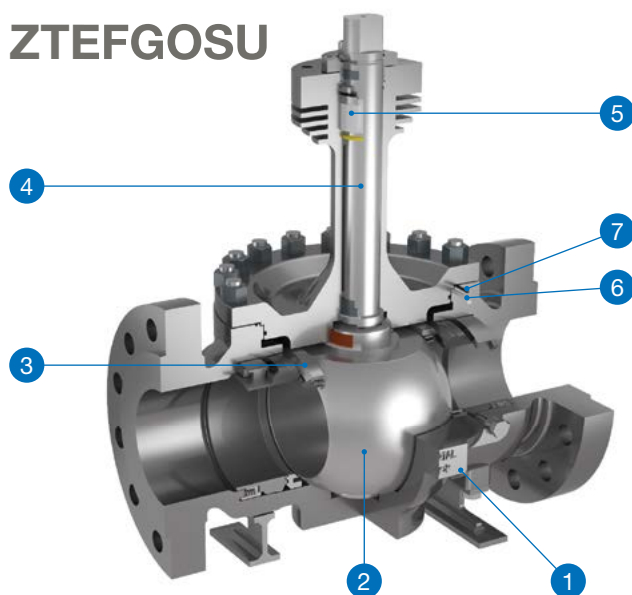
GENERAL FEATURES

- Floating
- Top entry
- Full bore
- Soft seat / Metal seat
- Unidirectional / Bidirectional
- Anti blow out proof stem
- Anti static device
- Degreased
- Cryogenic stem extension
- Auto adjustable packing
- Self-cavity pressure relief
- Spring loaded seat system
- Allows in-line maintenance

TRUNNION TOP ENTRY

-196 °C 

ZTEFGOSU



SIZE	RATING	SIZE	RATING
3" - 42"	Class 150-600	DN 80-1050	PN 10-100
3" - 20"	Class 900-1500	DN 80-500	PN 16-250
3" - 12"	Class 2500	DN 80-300	PN 420

Standard Materials

Item	Description	Materials	
		ANSI	DIN
1	BODY	A351 CF8M	1.4408
2	BALL	A351 CF8M	1.4408/1
3	SEAT	PCTFE	PCTFE
4	STEM	XM-19	XM-19
5	STEM PACKING 2	PTFE + Graphite	PTFE + Graphite
6	Body seal 1	PTFE	PTFE
7	Body seal 2	Graphite	Graphite

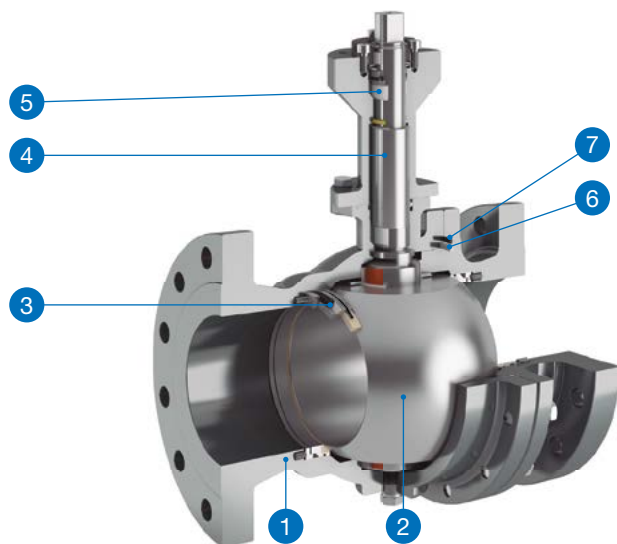
GENERAL FEATURES

- Full Trunnion
- Top entry
- Full bore
- Soft seat / Metal seat
- Unidirectional / Bidirectional
- Anti blow out proof stem
- Anti static device
- Self-cavity pressure relief
- Degreased
- Auto adjustable packing
- Spring loaded seat system
- Allows in-line maintenance
- Cryogenic stem extension

TRUNNION 2PC

-196 °C 

ZFGOSU / ZFGOSURB



SIZE	RATING
2" - 12"	CL 150
2" - 12"	CL 300
DN 50-300	PN 10-16
DN 50-300	PN 25-40

Standard Materials

Item	Description	Materials	
		ANSI	DIN
1	BODY	A351 CF8M	1.4408
2	BALL	A351 CF8M	1.4408
3	SEAT	PCTFE	PCTFE
4	STEM	XM-19	XM-19
5	STEM PACKING 2	PTFE+Graphite	PTFE+Graphite
6	Body seal 1	PTFE	PTFE
7	Body seal 2	Graphite	Graphite

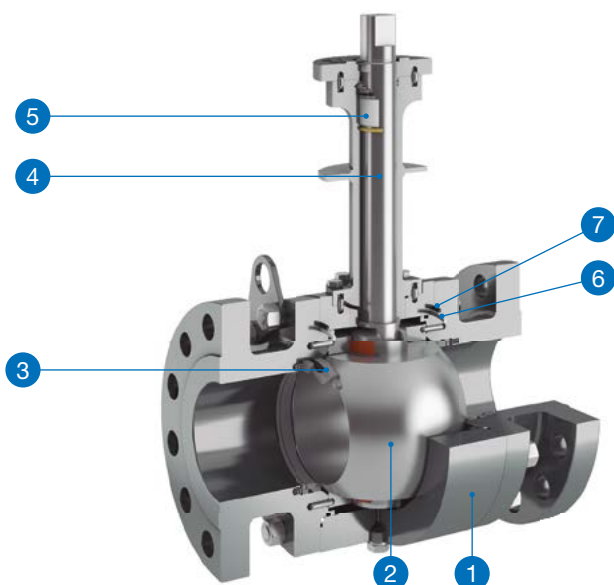
GENERAL FEATURES

- Full Trunnion
- Split Body
- Full bore
- Soft seat / Metal seat
- Unidirectional / Bidirectional
- Anti blow out proof stem
- Anti static device
- Self-cavity pressure relief
- Degreased
- Cryogenic stem extension
- Auto adjustable packing
- Spring loaded seat system

TRUNNION 3PC

-196 °C 

ZFGKOSU / ZFGKOSURB



SIZE	RATING	SIZE	RATING
½ - 42"	CL 600	DN15-1050	PN10-100
½" - 20"	CL 900	DN15-500	PN160
½" - 16"	CL 1500	DN15-400	PN250
½" - 8"	CL 2500	DN15-300	PN420

Standard Materials

Item	Description	Materials	
		ANSI	DIN
1	BODY	A182 F316	1.4401
2	BALL	A182 F316	1.4401
3	SEAT	PCTFE	PCTFE
4	STEM	XM-19	XM-19
5	STEM PACKING 2	PTFE + Graphite	PTFE + Graphite
14	Body seal 1	PTFE	PTFE
34	Body seal 2	Graphite	Graphite

GENERAL FEATURES

- Full Trunnion
- Split Body
- Full bore / Reduced bore
- Soft seat / Metal seat
- Unidirectional / Bidirectional
- Anti blow out proof stem
- Anti static device
- Self-cavity pressure relief
- Degreased
- Cryogenic stem extension
- Auto adjustable packing
- Spring loaded seat system

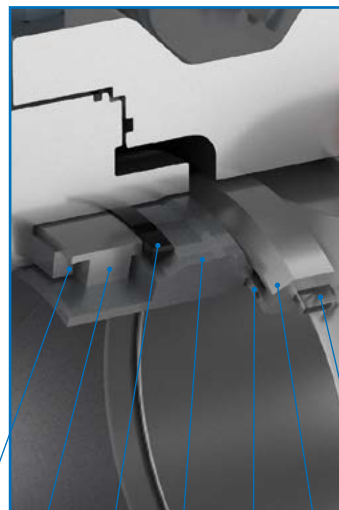
SEATS MODELS



Floating / Trunnion

Item	Description
04	Seat
44a	Ring Seat 1
44b	Ring Seal 2
45	Spring
46	Seat Seal

45 44b 46 44a 04



Top Entry

Item	Description
04	Seat
43a	Seat Seal
44a	Seat Ring 1
44b	Seat Ring 2
44c	Loaded Ring
45	Spring
46	Seat Seal

45 44c 46 44b 43a 44a 4

CRYOGENIC STEM EXTENSION

Cryogenic stem extension with packing on top, avoiding direct contact with flow medium

- Length ≥ 250 mm
- With ISO 5211 allows to assemble it on any type of manual (lever, gearbox) and actuated valve.
- Gasket between valve

Floating



Trunnion



Top Entry





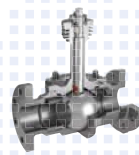
CRYOGENIC



**FLOATING
ZFOSU**



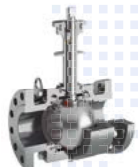
**FULL TRUNNION
2PCS ZFGOSU**



**TOP ENTRY
FLOATING ZTEFOSU**



**FLOATING
ZFKOU**



**FULL TRUNNION
3PCS ZFGKOSU**



**TOP ENTRY FULL
TRUNNION ZTEFGOSU**



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