



EMPOWERED PERFORMANCE

ZAWORY KULOWE PRO-CHEMIE 60



CERTYFIKATY

CERTIFICATIONS

TÜV SDD Chemie Service GmbH
TÜV SDD
Chimie Service
Industriepark Pöchlarn
39100 Pöchlarn, Österreich

Numéro: 18-02200
Vorgang-Nr.: TCS-PM-SD/14 Rev.1 und TCS-PM-100/14 Rev.1
Eingangsdatum: 10.04.2015
Auftragsgenese: Musterprüfung von Kupfer/Nickellegierungen und Nonferrolegierungen nach IQR-Güteklasse Technisch 12-2043-1 und ISO Formnummer 10021, 10022, 10023 und 10024
Zielvorgabennummer: Y-4278 und Y-4279
Hersteller: Fg. Omal SpA
Via Ponte Nuovo 11
25050 Rodengo Saiano (BS)
Italia
Überwachungszeitraum: 30.04.2015 bis 29.04.2016
Beitragdatum: 25.04.2015

Beschreibung:
Die genannten Musterprüfungen mit der IQR-Formnummer 10021 und 10022 erfüllen die gestellten Anforderungen.
Die genannten Prüfberichte erfüllen die gestellten Anforderungen von ISO-Formnummer 10001, 10002, 10003 und 10004.

Anlagen:
* Komplettdokumentation DMS und DIN 90 (Seite 2 bis 4)
* Gehäuse DMS PM40, DM100, PM16, DM100, PM40 (Seite 2 bis 13)
* SBK Dokumentation (Seite 14 bis 16)

Prüfung: 21.04.2015, Produktion, 21.04.2015, 11.04.2015, 11.04.2015
Zustimmung: Prof. Dr. Ingrid Schmitt, Prof. Dr. Ingrid Schmitt

Prüfung: 21.04.2015, Produktion, 21.04.2015, 11.04.2015, 11.04.2015
Zustimmung: Prof. Dr. Ingrid Schmitt, Prof. Dr. Ingrid Schmitt

Standort: TÜV SDD Chemie Service GmbH, Industriepark Pöchlarn, 39100 Pöchlarn, Österreich
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Standort: TÜV SDD Chemie Service GmbH, Industriepark Pöchlarn, 39100 Pöchlarn, Österreich
Standort: TÜV SDD Chemie Service GmbH, Industriepark Pöchlarn, 39100 Pöchlarn, Österreich

ICIM
www.icim.it
CERTIFICATO n. 00417
CERTIFICATE No. 00417

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITÀ DI
WE HEREBY CERTIFY THAT THE QUALITY MANAGEMENT SYSTEM OPERATES BY

OMAL S.p.A.
Sede e Unità Operativa
Via Ponte Nuovo, 11/1 - 25050 Rodengo-Saiano (BS)
Unità Operativa
Via San Lorenzo, 70 - 25069 Villa Carcina (BS)
Italia

È CONFORME ALLA NORMA
IS IN CONFORMANCE WITH THE STANDARD
UNI EN ISO 9001:2008

PER LE SEGUENTI ATTIVITÀ
FOR THE FOLLOWING ACTIVITIES

EA: 17
Progettazione e produzione di attuatori pneumatici, attuatori elettrici, valvole a sfera 2 vie e 3 vie, valvole a farfalla, valvole a sede inclinata, valvole coaxiali ad azionamento pneumatico, e loro assemblati pronti per l'installazione in linea.
Design and production of: pneumatic actuators, electric actuators, 2 and 3 way ball valves, butterfly valves, angle seat valves, pneumatic axial valves, and their assemblies ready for in-line installation.

Il presente certificato è valido per il periodo di validità indicato. After is valid for the period of validity indicated.
The validity of this certificate is subject to periodic audits every 6, 9 or 12 months and to complete implementation of the system every three years.

ICIM S.p.A.
Piazza Don Carlo Magli, 10 - 35030 San Cesario (PD)

ACCREDIA
Ente Nazionale di Certificazione
Via Salaria, 459 - 00198 Roma (RM) - Italia
Tel. +39 06 574911 - Fax +39 06 574912
www.accredia.it

CISQ
Certification Institute
Via Salaria, 459 - 00198 Roma (RM) - Italia
Tel. +39 06 574911 - Fax +39 06 574912
www.cisq.it

Industry & Facilities Division
FUGITIVE EMISSION AND TA LUFT TESTCERTIFICATE

Page: 1/1
 Conformity
 Priority

BY Job ref: IT FILE 18/7, 1998187,128 **Civiano No. P000615FA/9**

Manufacturer: OMAL S.p.A. **Specification:** UNI EN ISO 15848-1 : 2006
V01 2440 / NOV 2002
Address: Via Ponte Nuovo, 11 - 25050 Rodengo Saiano (BS) ITALY **Ref. No.:** Y_3082

P.O. ITEM	SUPPLY / SUBJECT OF INSPECTION	ITEM / TAG No.	Q.TY
1	Valve Type: 2"1/2 BODY BALL VALVE Model: IQR (PROTOTYPE) Size: 2" FULL BORE Class/Fn.: PN 40 Bore Extension: 13 mm O.D. of seating element: 30 mm Design Pressure: TWO PHASES Body: 1.4408 Drawing: Y_3082 Material Size: Body/Connector: 1.4408 Nut: 1.4408/303 Sealant: 1.4404/192.5 Test Condition: Pressure: 40bar +/- 0.2 Bar Temperature: Room Temp at 100°C (193.2°F)	V_3082	1

CONCLUSIONS / REMARKS:
Here with is stated that a conformity test according to the above mentioned standard has been carried out with satisfactory results.
The maximum allowed leakage rates according to the standard have not been exceeded by the tested valve.
The valve above mentioned is certified under the reference normative by:
ISO 9001:2008 (REV. 03/2007)
TA LUFT TEST V01 2440 / NOV 2002
ISO 9001:2008 (REV. 03/2007)
TA LUFT TEST V01 2440 / NOV 2002

This note is issued further to an inspection where duration and scope were limited by the terms and conditions of the contract with BY project. This note is NOT an indication that the item(s) is (are) fit for any specific purpose and does not release the manufacturer, supplier and any party from their respective duty, guarantee, obligation and/or indemnity relating to, without limitation, patents, workmanship, materials, safety, performance in operation and/or reliability.

Inspected by:
Name: Mr. Fabio Alline
Signature: 
Date of issue: 18.2.2015
Inspection centre: BY Pavia - North Area - ITALY

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DNV
DET NORSKE VERITAS
ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Certificato No. / Certificate No. 109786-2012-AE-ITA-ACCREDIA

Si attesta che / This certifies that
il sistema gestione ambientale di / the environmental management system of
OMAL S.p.A.

Via Ponte Nuovo, 11/1 - 25050 Rodengo Saiano (BS) - Italy

È conforme ai requisiti della normativa
Conforms to the environmental management system standard
UNI EN ISO 14001:2004 (ISO 14001:2004)

Certificazione rilasciata in conformità al Regolamento Tecnico ACCREDIA RT - 09
Certification has been granted in conformity with the ACCREDIA Technical Regulation RT - 09
Questo certificato è valido per il seguente campo applicativo:
This certificate is valid for the following products or services:

Progettazione e produzione di attuatori pneumatici, elettrici, valvole pneumatiche coaxiali ad a flusso sovrato, valvole a sfera ed a farfalla manuali ed automatizzate attraverso processi di assemblaggio
Design and production of pneumatic actuators, electric actuators, ball valves 2-way and 3-way, butterfly valves, Angle seat valves, pneumatic valves coaxial through assembly

ACCREDIA
Ente Nazionale di Certificazione
Via Salaria, 459 - 00198 Roma (RM) - Italia
Tel. +39 06 574911 - Fax +39 06 574912
www.accredia.it

DET NORSKE VERITAS ITALIA S.R.L.
Via Salaria, 459 - 00198 Roma (RM) - Italia
Tel. +39 06 574911 - Fax +39 06 574912
www.dnv.it

Luogo e data
Place and date
Agrate Brianza, (MB) 2012-01-23

Settore EA 18
Sistemi di gestione ambientale
Environmental Management Systems

Sistemo Amici
Lead Auditor

Zeno Beltrami
Management Representative

La validità del presente certificato è subordinata al verificarsi periodico (ogni 6, 9 o 12 mesi) e al risultato positivo del sistema con periodicità triennale.
The validity of this certificate is subject to periodic audits every 6, 9 or 12 months and to complete implementation of the system every three years.
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CERTYFIKATY

CERTIFICATIONS



Appareil non électrique destiné à être utilisé en atmosphères explosibles
Directive 94/9/CE
Non electrical equipment intended for use in potentially explosive atmospheres
Directive 94/9/EC
Apparecchi destinati ad essere utilizzati in atmosfere potenzialmente esplosive
Direttiva 94/9/CE

Appareil/Equipment/Apparatochestr: VALVOLE

Typo/Type / Tipi: VALVOLE A SPERA

Manufacturer / Marché / Marchio: OMAL S.p.A.

Address / Adresse / Indirizzo: Via Ponte Nuovo, 11
I - 25050 RODENGO SAIANO (BS) - ITALY

INERIS notified body certifies that the product is in conformity with article 9 of Council Directive 94/9/CE of the 23rd March 1994, acknowledging receipt of the technical documentation of the product in accordance with the provisions of article 10 of the Directive.

INERIS organismo notificato certifica che il prodotto è in conformità con l'articolo 9 della Direttiva del Consiglio 94/9/CE del 23 marzo 1994, accorrendo al ricevimento della documentazione tecnica del prodotto in conformità con le disposizioni dell'articolo 10 della Direttiva.

INERIS organismo notificado e certificado que el producto es conforme con el artículo 9 de la Directiva 94/9/CE del 23 de marzo de 1994, confirmando el cumplimiento del fabricante de la documentación técnica de acuerdo con lo establecido en el artículo 10 de la Directiva.

Technical documentation reference: VS. 14 dated 2014-02-05

It is certified under the reference: N° INERIS-EQ04 002390/14

Validity completion date: 2024.03.18

Technical documentation reference: VS. 14 dated 2014-02-05

It is certified under the reference: N° INERIS-EQ04 002390/14

Validity completion date: 2024.03.18

Technical documentation reference: VS. 14 dated 2014-02-05

It is certified under the reference: N° INERIS-EQ04 002390/14

Validity completion date: 2024.03.18

Yverdon-le-Fort, le 2014.03.18

Le Directeur Général de INERIS, Par délégation T. HODER, Directeur Certification ATEX

The Chief Executive Officer, by delegation T. HODER, Ex-Certification Officer

Il Direttore generale del INERIS, Per Delega T. HODER, Responsabile della Certification ATEX



ATTESTATO APPROVAZIONE SISTEMA GARANZIA QUALITÀ - TOTALE
Total Quality System Approval Certificate (Module H)
N° 22 - 97/23/CE - H Rev. 2
Foglio 1 / 2

PASCAL ORGANISMO NOTIFICATO N. 1115
Notified Body n. 1115

Pascal, in base alle verifiche condotte in conformità dell'articolo 11 della Direttiva 97/23/CE, modulo H, attesta che il sistema qualità applicato dal fabbricante per la progettazione, la fabbricazione, l'ispezione finale e la prova delle attrezzature a pressione di seguito elencate soddisfa le richieste della direttiva stessa.

Pascal, on the basis of the assessment performed in accordance to the annex II of the directive 97/23/CE, Module H, attests that the Quality Management System operated by the Manufacturer for design, manufacturing, final inspection and tests of the under listed pressure equipment satisfies the applicable directive provisions.

Fabbricante / Manufacturer: OMAL S.p.A., Via Ponte Nuovo 11, 25050 Rodengo Sariano (BS)

Per i seguenti prodotti / For the following products: VALVOLE A SPERA, VALVOLE A FARFALLA, VALVOLE AD AZIONAMENTO PNEUMATICO

Vedere l' allegato I per l'elenco di dettaglio dei prodotti.
 See Annex I for details of the products.

Il presente attestato è valido in forza della valutazione di parte PASCAL, negli ambiti di competenza in merito all' allegato II modulo H della Direttiva 97/23/CE. (The approval certificate is valid within competence areas to be defined in the Annex I module H part II of Directive 97/23/CE.)

Prima emissione / First issue: 18/08/2007

Ultima emissione / Last issue: 18/08/2013

Valida sino al / Valid until: 17/09/2019




CERTIFICATE

The company: OMAL S.p.A., Via Ponte Nuovo 11, I - 25050 Rodengo Sariano (BS), Via S. Lorenzo 70, I - 25069 Villa Carolina (BS)

has been audited according to: AD 2000-Merkblatt HP 0 / HP100R and A 4

The company has proved to dispose of the prerequisites for the manufacture of pressure equipment as defined by **Pressure Equipment Directive 97/23/EC**

Independently to this conformation the procedures appertaining to the chosen modules have to be observed.

The company:

- has facilities permitting manufacturing and inspection in compliance with the current technical standards,
- operates a quality system which guarantees that manufacturing and inspection of the products stated in our report are in conformity with the technical rules and standards,
- employs qualified supervisory and inspection personnel.

The scope of the audit is detailed in our report no. 234227 / 1578044.

The certificate expires in September 2016.

Munich, November 28th, 2015

TUV SÜD Industrie Service GmbH, Zertifizierungsstelle für Druckgeräte

Il. Schmitt
 Notified body, id. n. 002

TUV SÜD Industrie Service GmbH, Department Safety and Quality Technology, Rosenstraße 100, D-85089 Giech






FIRE SAFE CERTIFICATE

CERTIFICATE NUMBER: FS-80376-006

CLIENT / ADDRESS: OMAL, Via Ponte Nuovo, 11 25050 Rodengo Sariano (BS) - Italy

REPORT NUMBER: 22

SCOPE OF REPORT: Fire Safe test carried out according to ISO 15407 Third Edition February 2010 and API 607 Sixth Edition September 2010

max BAR: 48,0 Bar

max °C: +994°C

QUALIFIED VALVE: Size: DN 50, Rating Class: PN 40, Drawing N°: "E_4112, Type: 72-DATING-BALL VALVE SPLIT BODY

RANGE AND TYPE OF BALL VALVE CONNECTION: DN 50 and below 95, 60, 100 (NPS 2" and below 2", 1 1/2", 1", 3/4") PN 40, 60, 100 (Class 300, 400, 600)

TUV INSPECTOR: Hermann Steiner

CERTIFICATION DATE: 12/03/2015

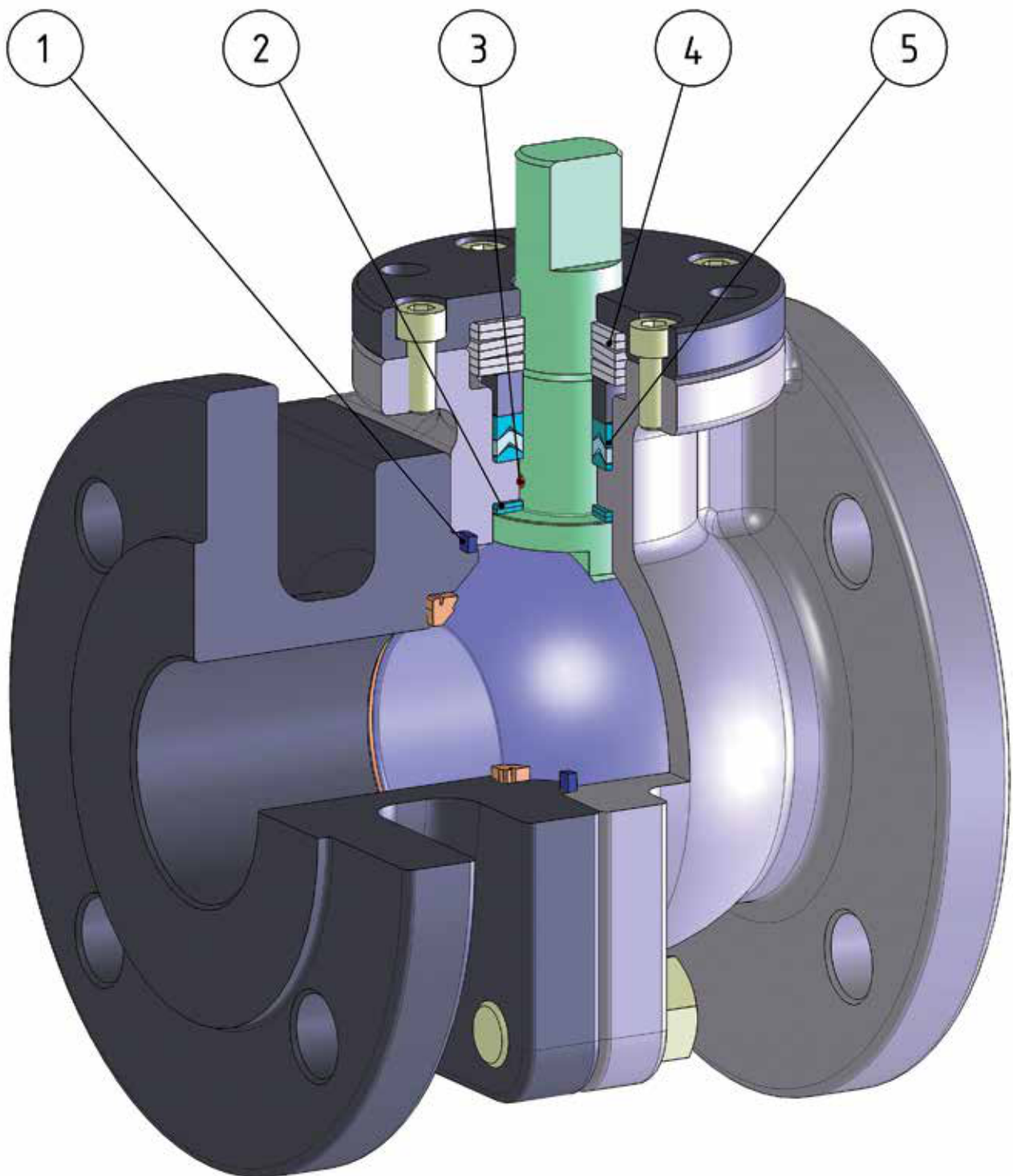
MANAGEMENT INSPECTION OFFICER: Prof. Dr. G. Müller






PRO-CHEMIE 60: ZAWORY KULOWE KOŁNIERZOWE DO PRZEMYSŁU CHEMICZNEGO

PRO-CHEMIE 60: BALL VALVES FOR CHEMICAL INDUSTRY





CECHY I ZALETY

FEATURES & BENEFITS

1	Elastyczne uszczelnienie grafitowe <i>Stretch Graphite seal</i>	Szczelność zapewniona niezależnie od zmian temperatury. <i>Tightness towards outside is granted, independently by the thermal excursions to which the valve is subjected.</i>
2	Podwójna podkładka <i>Double antifriction washer</i>	Mniejszy moment obrotowy. <i>Less Break Away Torque is granted.</i>
		Lepsze dopasowanie w porównaniu z pojedynczą podkładką. <i>Less wear comparing with the execution with the single washer.</i>
3	Mechanizm antystatyczny (przewodność elektryczna pomiędzy kulą, trzpieniem a korpusem) <i>Antistatic device (electrical continuity between ball, stem and body)</i>	Ładunki statyczne mogą powodować iskrzenie. nie powstaje środowisko potencjalnie wybuchowe. <i>Static electricity which can cause sparks and fire in an inflammable/explosive environment is avoided.</i>
		Bezpieczeństwo. <i>Contact safety throughout the entire life of the valve.</i>
4	Podkładki sprężynujące <i>Spring washers with independent preload</i>	Samodopasowanie podkładki zapewnia mniejsze zużycie uszczelnień typu „V”. <i>Preload of spring washer is independent from shaft rotation. In this way the weariness of V-sealing is avoided and the high ciclicity of the valve is granted.</i>
		Pozwalają utrzymać szczelność uszczelnień typu „V” przy dużych skokach temperatury. <i>Allow to maintain energized the “chevron” seals (V), thus avoiding any leakage to the outside, against huge temperature excursions.</i>
5	Trzy uszczelnienia typ „V” <i>“V” seals pack; 3 seals</i>	Doskonała szczelność nawet przy dużej ilości cykli. <i>It ensures a perfect tightness even after a high number of cycles.</i>
6	Większa precyzja dopasowania elementów zaworu dzięki unikalnej metodzie obróbki. <i>Greater precision in the alignment of axes due to a unique positioning in the process machining from raw material to finished valve</i>	Przedłużona żywotność zaworu. <i>Longer lifetime of the valve.</i>
		Mniejszy moment obrotowy. <i>Less break away torque.</i>
7	Łatwa konserwacja na instalacji <i>Easy maintainance directly on site</i>	Zredukowane koszty obsługi. <i>Reduced maintainance costs.</i>
8	Certyfikat „Fres Safe” <i>“Fire safe” Certificate</i>	Zagwarantowana szczelność zaworu także w przypadku pożaru. <i>Guarantees the tightness of the valve also in case of fire.</i>
9	Certyfikat ATEX <i>ATEX Certificate</i>	Możliwość zamontowania w strefie zagrożonej wybuchem. <i>Installation is possible in a potential explosive environment.</i>
10	Certyfikat TA LUFT i Fugitive emission <i>TA LUFT fugitive emission Certificate</i>	Gwarancja szczelności. <i>High level of safety of the tightness towards the outside is granted.</i>
11	Certyfikat PED <i>PED Certificate</i>	Pełna zgodność z europejskimi standardami PED. <i>Full compliance with European Safety Standards for Pressure Equipment.</i>
12	Certyfikat AD2000 <i>Certificazione AD2000</i>	Zgodność z niemieckimi standardami. <i>Compliance for German Standard.</i>

ZAWORY KULOWE ZE STALI NIERDZEWNEJ PRO-CHEMIE 60 SPLIT-BODY PN16-40

STAINLESS STEEL PRO-CHEMIE 60 SPLIT BODY PN16-40



Parametry podstawowe

Zawór przeznaczony do przemysłu chemicznego
Kula pływająca, pełny przelot
Uszczelnienia RPTFE
Przyłącza kołnierzowe: EN 1092-1
Klasa ciśnieniowa: PN 16-40
Długość zabudowy: długa i krótka
Wykonanie antystatyczne: EN 12662-2
Uszczelnienie trzpienia: zestaw uszczelnień typu „V”
Trzpień z systemem przeciw wypychaniu
Przyłącze pod napęd według ISO 5211
Kąt zamknięcia >7°

Na zapytanie

W przypadku innych parametrów proszę o kontakt z naszym działem sprzedaży

Certyfikaty

PED EC 97/23;
Fugitive Emission UNI EN ISO 15848, (ISO-FE-AH-C03-SSA);
TA-LUFT (60000 cykli);
FIRE SAFE; ISO 10497 / API 607; Certyfikat ATEX na zapytanie.

Standardy inżynierskie

Szczelność korpusu: według ASME B16.34, ASME VIII div. 1, EN 12516; PAS 1085

Standard features

Valve specifically designed for chemical industry
Floating ball, full bore.
Soft-seat seal RPTFE
Standard for connecting flanges: EN 1092-1
Pressure class: PN16-40
Face-to-face dimension: short and long pattern
Antistatic device EN12662-2
Stem seal: V-ring packing
Anti Blow-out stem
Actuator connection as per standard ISO 5211
Closing angle >7°

Features on request

For other execution type please contact our sales department

Certifications

In compliance with European Directive 97/23 EC PED; AD2000 HP0;
Fugitive Emission UNI EN ISO 15848, (ISO-FE-AH-C03-SSA); TA-LUFT (60000 cycles) VDI 2440;
FIRE SAFE: ISO 10497 / API 607
In compliance with ATEX 94/9/CE Directive, ATEX certificate ON REQUEST.

Engineering standard

Body thickness in compliance with: ASME B16.34, ASME VIII div.1, EN 12516; PAS 1085

ZAWORY PRO-CHEMIE 60 - WYMIARY

DIMENSIONS

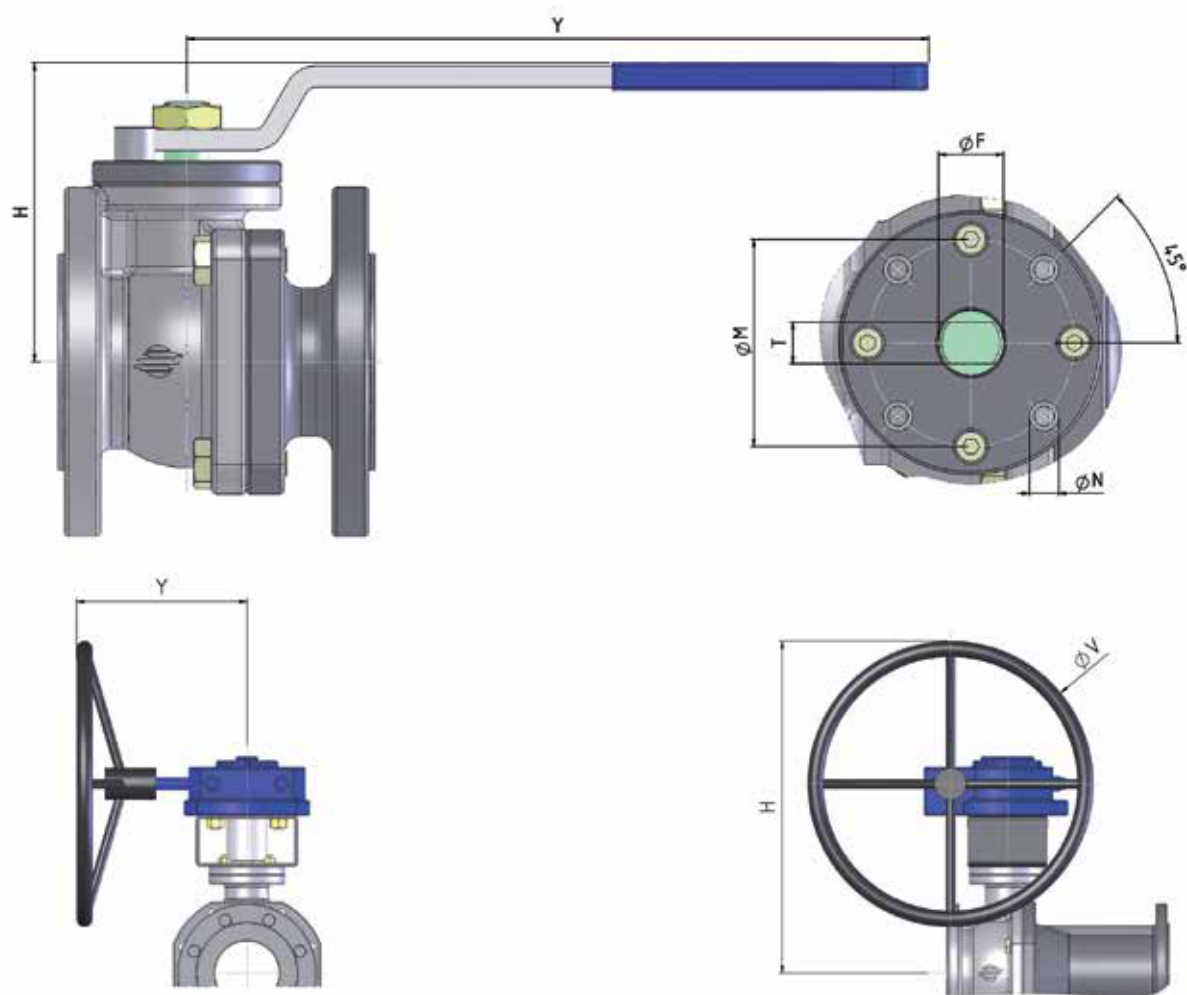


TABELA WYMIARÓW *DIMENSIONS TABLE*

ROZMIAR <i>SIZE</i>	H	Y	ØM	ØN	ØF/T	ISO 5211
DN 15	82	152	42	M5	12/8	F04
DN 20	85	152	42	M5	12/8	F04
DN 25	102	277	50	M6	16/10	F05
DN 32	107	277	50	M6	16/10	F05
DN 40	132	352	70	M8	22/14	F07
DN 50	142	352	70	M8	22/14	F07
DN 65	195	452	102	M10	30/18	F10
DN 80	203	452	102	M10	30/18	F10
DN 100	233	452	102	M10	30/18	F10
DN 150	540	320	165	M16	45/30	F14

ZAWORY PRO-CHEMIE 60 - WYMIARY

DIMENSIONS

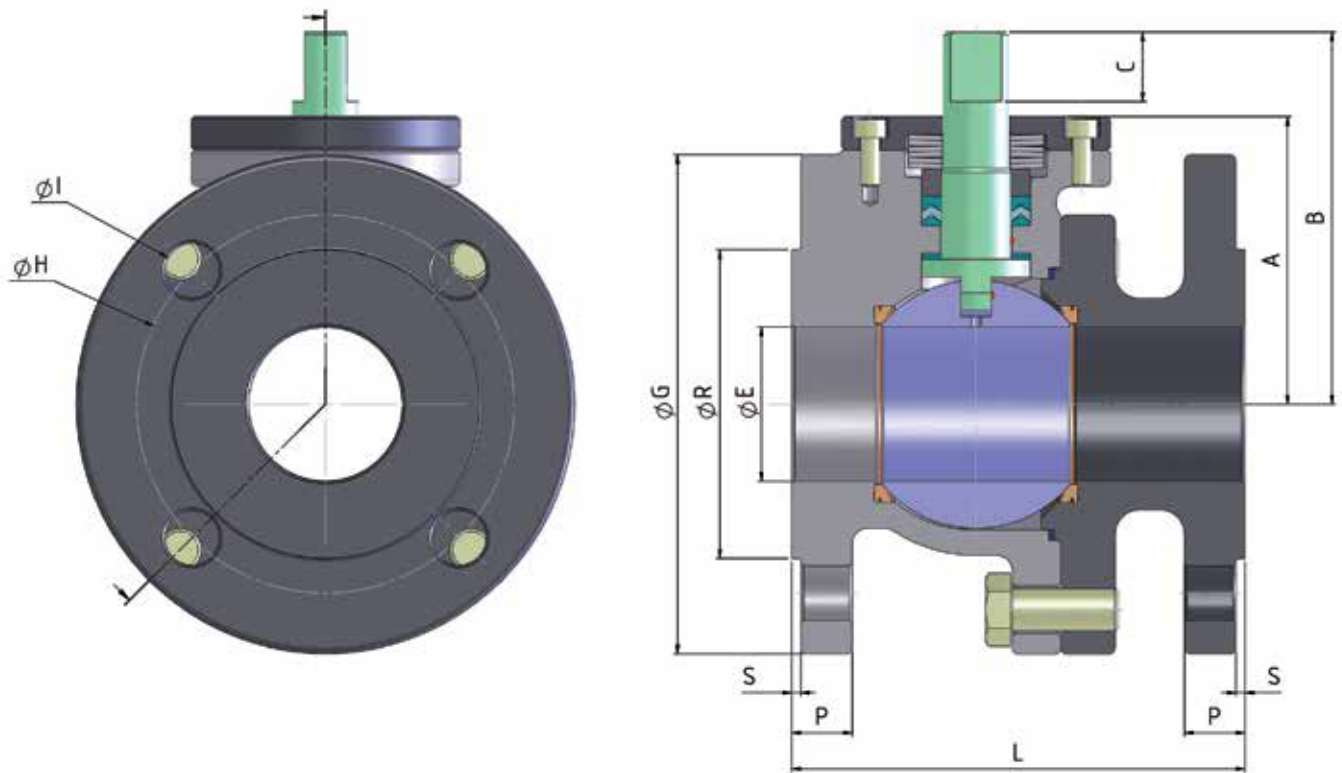
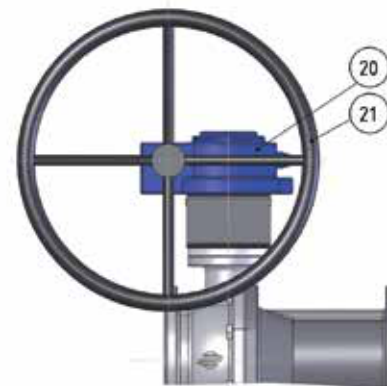
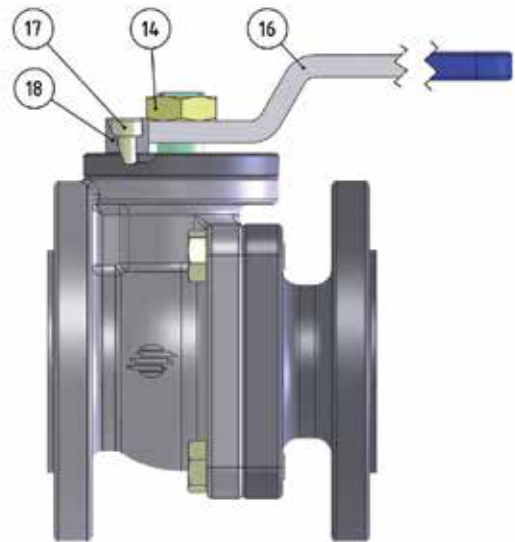
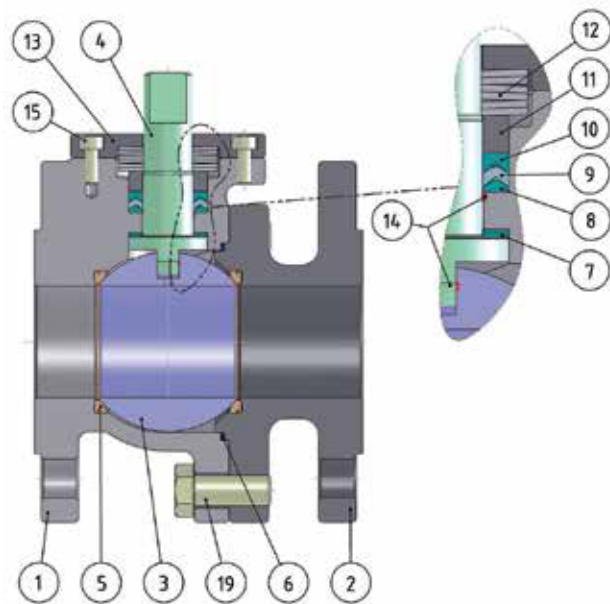


TABELA WYMIARÓW DIMENSIONS TABLE

ROZMIAR SIZE	ϕE	PN	A	B	C	ϕG	ϕR	S	P	ϕH	IL. ŚRUB N° HOLES	ϕI	L (F1)	L (F4)
DN 15	13	16-40	46	57	10	95	45	2	16	65	4	14	130	115
DN 20	19	16-40	49	60	10	105	58	2	18	75	4	14	150	120
DN 25	25	16-40	62	80	16	115	68	2	18	85	4	14	160	125
DN 32	32	16-40	67	85	16	140	78	2	18	100	4	18	180	130
DN 40	38	16-40	86	114	23	150	88	3	18	110	4	18	200	140
DN 50	51	16-40	95	123	23	165	102	3	20	125	4	18	230	150
DN 65	64	16	130	163	30	185	122	3	18	145	4	18	290	170
DN 65	64	25-40	130	163	30	185	122	3	22	145	8	18	290	170
DN 80	76	16-40	138	171	30	200	138	3	24	160	8	18	310	180
DN 100	102	16	168	201	30	220	158	3	20	180	8	18	350	190
DN 100	102	25-40	168	201	30	235	162	3	24	190	8	22	350	190
DN 150	152	16	190	230	30	285	212	3	22	240	8	22	480	190

ZAWORY PRO-CHEMIE 60 - WYKAZ MATERIAŁÓW

MATERIALS



WYKAZ MATERIAŁÓW MATERIALS TABLE

N°	Opis Description	Stal nierdzewna Stainless steel
1	Korpus Body	1.4408
2	Przyłącze Connector	1.4408
3	Kula Ball	1.4408/CF8M
4	Trzpień Stem	1.4404/316 S.S.
5	Uszczelnienie Seat	RPTFE
6	Uszczelka korpusu Body gasket	Graphite
7	Uszczelnienie górne Bottom sealing	TFM1600
8	Uszczelnienia Chevron Chevron packing	Peek (*)
9	Uszczelnienia Chevron Chevron packing	Devlon (*)
10	Uszczelnienia Chevron Chevron packing	Peek (*)
11	Nakrętka dławika Gland nut ring	1.4404/304 S.S.
12	Sprężyny Springs	1.4310/301 S.S.
13	Pokrywa górna Upper cover	1.4404/316 S.S.
14	Nakrętka trzpienia Stem nut	A4-70
15	Nakrętka pokrywy Cover screw	A4-70
16	Dźwignia Lever	1.4301/304 s.s.
17	Blokada dźwigni Lever Stopper	1.4404/316 S.S.
18	Śruba blokady dźwigni Lever Stopper screw	A4-70
19	Śruba korpusu Body closure screw	A4-70
20	Przekładnia Gear box	Gusseisen (lackiert) Cast iron (painted)
21	Koło ręczne Handweel	Fe 42 UNI 7091

(*): Na zapytanie dostępne również uszczelnienie TFM 1600 (PTFE)

TFM 1600 (PTFE) also available. Please contact our Sales Department



ZAWORY PRO-CHEMIE 60 - WERSJA Z NAPĘDEM PNEUMATYCZNYM

ACTUATED VERSIONS



ZAWÓR KULOWY PRO-CHEMIE 60 Z NAPĘDEM ALUMINIOWYM DWUSTRONNEGO I JEDNOSTRONNEGO DZIAŁANIA

PRO-CHEMIE 60 BALL VALVE WITH ALLUMINIUM DOUBLE ACTING AND SPRING RETURN ACTUATOR



ZAWÓR KULOWY PRO-CHEMIE 60 Z NAPĘDEM ZE STALI NIERDZEWNEJ DWUSTRONNEGO I JEDNOSTRONNEGO DZIAŁANIA

PRO-CHEMIE 60 BALL VALVE WITH STAINLESS STEEL DOUBLE ACTING AND SPRING RETURN ACTUATOR

Zdjęcia są tylko poglądowe i nie są wiążące dla dostaw.

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