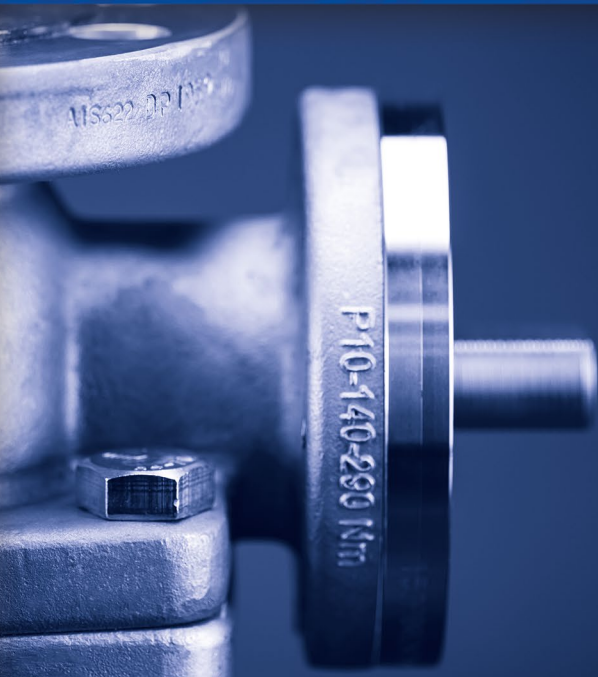




EMPOWERED PERFORMANCE

PROCHEMIE 60

CATALOGUE



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VALVOLE A SFERA • INDICE 2/3

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BALL VALVES • INDEX 2/3

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- PROCHEMIE 60 SPLIT-BODY PN16-40 - acciaio inox

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1.2.1

- Certificati PROCHEMIE 60 

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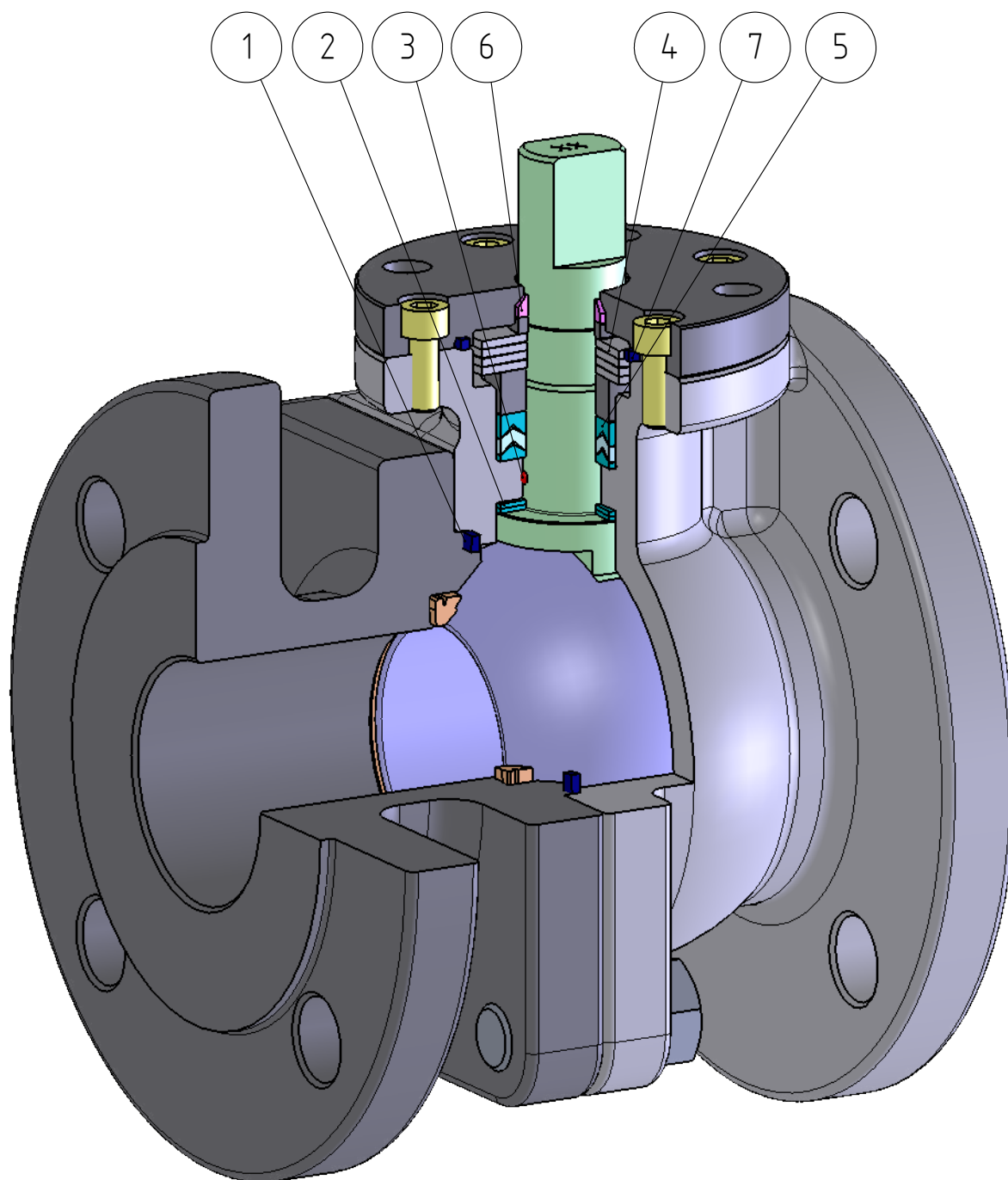
1.2

PROCHEMIE 60



PROCHEMIE 60

VALVOLE A SFERA PER L'INDUSTRIA CHIMICA
BALL VALVES FOR CHEMICAL INDUSTRY





FEATURES & BENEFITS

1	Tenuta elasticizzata in grafite <i>Stretch Graphite seal</i>	Garantisce una tenuta indipendente dalle escursioni termiche a cui è sottoposta la valvola. <i>Tightness towards outside is granted, independently by the thermal excursions to which the valve is subjected.</i>
2	Doppio anello antifrizione <i>Double antifriction washer</i>	Garantisce una minor coppia di azionamento della valvola. <i>Minor Break Away Torque.</i> Minor usura rispetto all'esecuzione con singolo anello. <i>Minor wear comparing with the execution with the single washer.</i>
3	Antistatic device (continuità elettrica tra sfera, stelo e corpo) <i>Antistatic device (electrical continuity between ball, stem and body)</i>	Si evita l'elettricità statica che può causare scintille in un ambiente esplosivo o infiammabile. <i>Static electricity which can cause sparks and fire in an inflammable/explosive environment is avoided.</i> Sicurezza garantita del contatto durante tutta la vita della valvola. <i>Contact safety throughout the entire life of the valve.</i>
4	Molle a tazza con precarico indipendente <i>Spring washers with independent preload</i>	Il precarico delle molle a tazza è indipendente dalla rotazione dell'albero: l'abrasione del pacco-guarnizioni a "V" è quindi ulteriormente ridotta, garantendo un'elevata ciclicità alla valvola. <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 guaranteed.</i> Consentono di mantenere energizzate le guarnizioni tipo "chevron" (a V), evitando perdite verso l'esterno, a fronte di notevoli escursioni termiche. <i>Allows to maintain the "chevron" seals (V) energized, avoiding any leakage to the outside, against huge temperature excursions.</i>
5	Pacco guarnizioni a "V" con tre guarnizioni più o-ring <i>"V" seals pack; 3 seals</i>	Si garantisce una perfetta tenuta anche dopo un numero elevato di cicli. <i>It ensures a perfect tightness even after a high number of cycles.</i>
6	Boccola a stelo <i>Stem bushing</i>	Ulteriore guida a stelo <i>Additional stem guide</i>
6/7	Guarnizione coperchio + boccola stelo <i>Cover Sealing + Stem bushing</i>	Camera di tenuta secondaria indipendente dal pacco Chevron <i>Secondary sealing independent from Chevron packing</i>
	Maggior precisione nell'allineamento degli assi grazie alla lavorazione dal grezzo al finito con un unico posizionamento. <i>Greater precision in the alignment of axes due to a unique positioning in the process machining from raw material to finished valve</i>	Maggior vita della valvola stessa. <i>Longer lifetime of the valve.</i> Minor coppia in azionamento. <i>Minor break away torque.</i>
	Facile manutenibilità direttamente sull'impianto <i>Easy maintainance directly on site</i>	Contenimento dei costi durante la fase di manutenzione. <i>Reduced maintainance costs.</i>
	Certificato "Fire safe" <i>"Fire safe" Certificate</i>	Garantisce la tenuta della valvola anche in caso di incendio. <i>Guarantees the tightness of the valve also in case of fire.</i>
	Certificato ATEX <i>ATEX Certificate</i>	Ne consente l'installazione in presenza di ambiente potenzialmente esplosivo. <i>Installation is possible in a potential explosive environment.</i>
	Certificazione TA LUFT fugitive emission <i>TA LUFT fugitive emission Certificate</i>	Garantisce un elevato grado di sicurezza della tenuta verso l'esterno. <i>High tightness safety level to the outside granted by the seals.</i>
	Certificato PED <i>PED Certificate</i>	Piena conformità alle norme di sicurezza europee per i dispositivi in pressione. <i>Full compliance with European Safety Standards for Pressure Equipment.</i>
	Certificazione AD2000 <i>AD2000 Certificate</i>	In accordo con gli standard tedeschi. <i>Compliance for German Standard.</i>
	Certificato fino a SIL 3 <i>UP to SIL 3 certified</i>	Elevato livello di sicurezza funzionale. <i>Guarantee of the high level of functional safety.</i>



PROCHEMIE 60 SPLIT-BODY PN16-40

ACCIAIO INOX STAINLESS STEEL



CARATTERISTICHE GENERALI

- Valvole specificamente progettate per l'industria della chimica;
- Sfera flottante, passaggio totale;
- Tenuta soft-seat RPTFE;
- Norme per flange d'attacco: EN 1092-1;
- Classe di pressione: PN16-40;
- Scartamento: short and long pattern;
- Antistatic device EN12662-2;
- Tenuta stelo: pacco a V;
- Stelo anti espulsione;
- Foratura piano per attuatore a norma ISO 5211;
- Angolo di chiusura >7°;
- Temperatura di applicazione: -40°C +150°C;

ESECUZIONI A RICHIESTA

- PROCHEMIE con seggi in PTFE+25% C.F. (Temperatura di applicazione: -40°C +200°C);
- PROCHEMIE con seggi in TFM1600 (Temperatura di applicazione: -40°C +150°C);
- Leva con lucchettaggio e Prolunga stelo;
- Per altri tipi di esecuzione contattare il nostro ufficio commerciale;

CERTIFICAZIONI

- Conforme alle direttive europee PED 2014/68/EU; AD2000 HP0/A4;
- Fugitive Emission UNI EN ISO 15848, (ISO-FE-AH-C03-SSA); TA-LUFT (60000 cicli) VDI 2440;
- FIRE SAFE: ISO 10497 Third ed. 2010 / API 607 Sixth ed. 2010 (DN150 SOLO FIRE SAFE DESIGN);
- Fino a SIL 3 - IEC 61508;
- Conforme alla direttiva ATEX 2014/34/UE, certificato ATEX A RICHIESTA; EAC;

NORME DI PROGETTAZIONE

- Spessori corpo in accordo a: 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 ISO 5211 standard;
- Closing angle >7°;
- Application temperature: -40°C +150°C;

FEATURES ON REQUEST

- PROCHEMIE with PTFE+Carbon filled seats (Application temperature: -40°C +200°C);
- PROCHEMIE with TFM1600 seats (Application temperature: -40°C +150°C);
- Lever with Locking Device and Stem extension;
- For further executions please contact our Sales Department;

CERTIFICATIONS

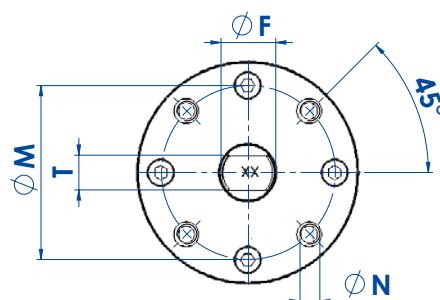
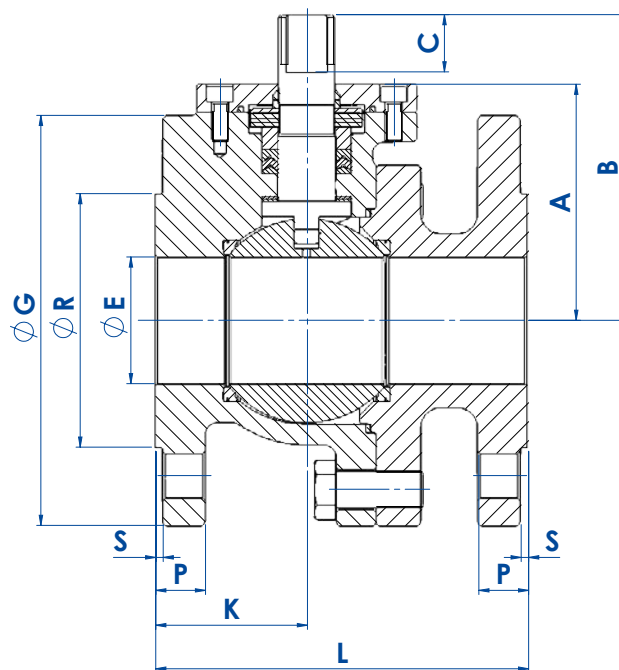
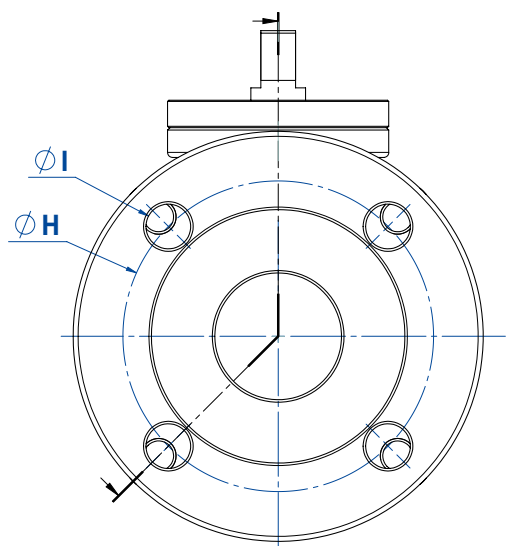
- In compliance with the European Directive PED 2014/68/EU; AD2000 HP0/A4;
- Fugitive Emission UNI EN ISO 15848, (ISO-FE-AH-C03-SSA); TA-LUFT (60000 cycles) VDI 2440;
- FIRE SAFE: ISO 10497 Third ed. 2010 / API 607 Sixth ed. 2010 (DN150 ONLY FIRE SAFE DESIGN);
- Up to SIL 3 - IEC 61508;
- In compliance with the 2014/34/EU ATEX Directive, ATEX certificate ON REQUEST;
- EAC;

ENGINEERING STANDARD

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



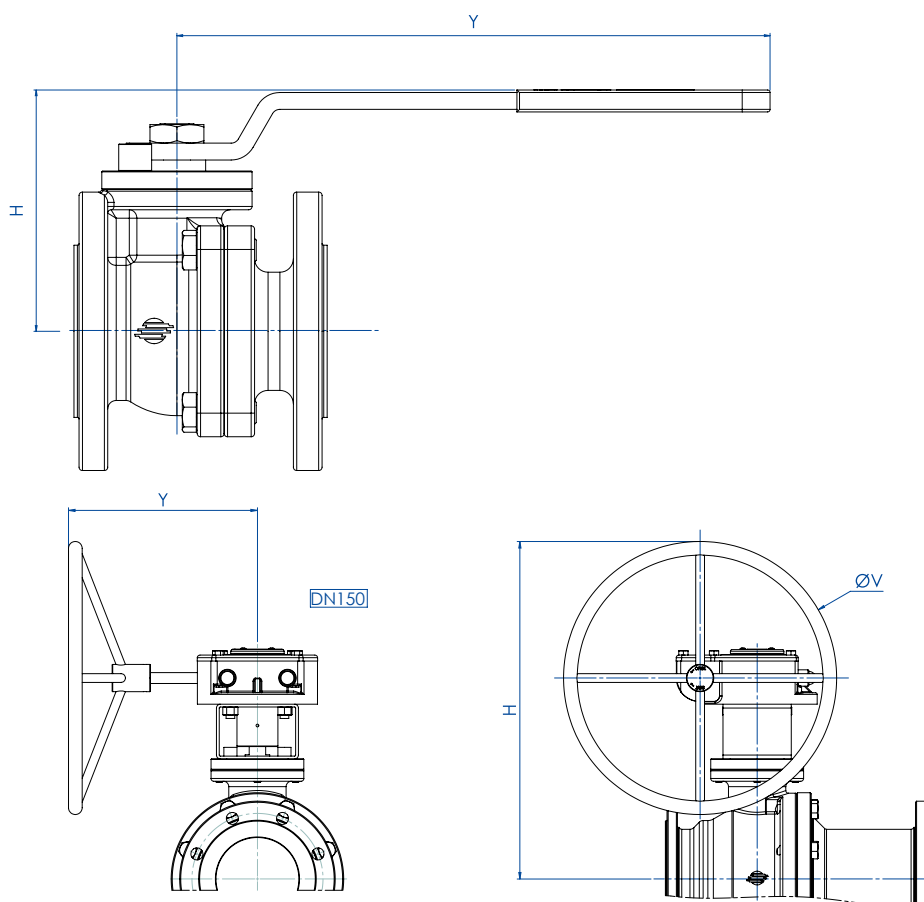
PROCHEMIE 60 SPLIT-BODY PN16-40



MISURA SIZE		DIMENSIONI DIMENSIONS																				
DN [mm]	[inch]	PN	ØE	A	B	C	ØG	ØR	S	P	ØH	FORI HOLES	ØI	ISO 5211	ØM	ØN	ØF/T	K	L (F1)	L (F4)	PESO WEIGHT Kg (F1)	PESO WEIGHT Kg (F4)
DN 15	1/2"	16-40	13	47	61	12	95	45	2	16	65	4	14	F04	42	M5	12/8	48	130	115	2,93	2,86
DN 20	3/4"	16-40	19	50	64	12	105	58	2	18	75	4	14	F04	42	M5	12/8	51	150	120	3,62	3,56
DN 25	1"	16-40	25	62	79	15	115	68	2	18	85	4	14	F05	50	M6	16/10	49	160	125	4,73	4,63
DN 32	1" 1/4	16-40	32	67	84	15	140	78	2	18	100	4	18	F05	50	M6	16/10	52	180	130	7,13	6,55
DN 40	1" 1/2	16-40	38	85,5	113,5	23	150	88	3	18	110	4	18	F07	70	M8	22/14	55	200	140	11,5	10,9
DN 50	2"	16-40	51	95	123	23	165	102	3	20	125	4	18	F07	70	M8	22/14	61	230	150	13,6	12,6
DN 65	2" 1/2	16	64	131	164	30	185	122	3	18	145	4	18	F10	102	M10	30/18	71	290	170	22,2	18,7
		25-40								22		8	18								24,3	20,5
DN 80	3"	16-40	76	138	171	30	200	138	3	24	160	8	18	F10	102	M10	30/18	78	310	180	29	26
DN 100	4"	16	102	168	201	30	220	158	3	20	180	8	18	F10	102	M10	30/18	96	350	190	38,1	32,6
		25-40					235	162		24	190	8	22					94			43,8	37,8
DN 150	6"	16	152	220	262,5	35	285	212	3	22	240	8	22	F14	140	M16	45/30	168	480	350 (F5)	98,5	91 (F5)



PROCHEMIE 60 SPLIT-BODY PN16-40

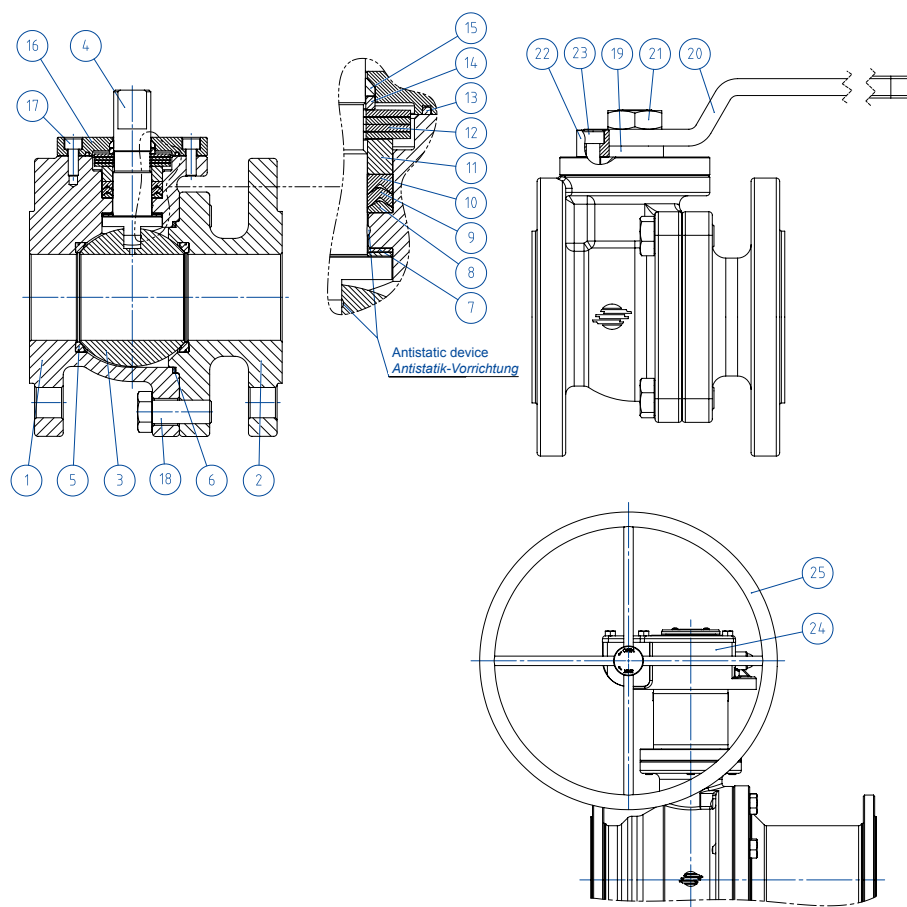


DIMENSIONI DIMENSIONS								
MISURE SIZE		PN	SCARTAMENTO FACE TO FACE	CODICE ARTICOLO ITEM CODE	H	Y	ØV	KIT LEVA LEVER KIT
DN [mm]	[inch]							
DN 15	1/2"	16/40	F4	LP004F000A0000N000	82	152	---	KLVVP004
			F1	LP004F100A0000N000				
DN 20	3/4"	16/40	F4	LP005F000A0000N000	85	152	---	KLVVP004
			F1	LP005F100A0000N000				
DN 25	1"	16/40	F4	LP006F000A0000N000	102	277	---	KLVVP006
			F1	LP006F100A0000N000				
DN 32	1" 1/4	16/40	F4	LP007F000A0000N000	107	277	---	KLVVP006
			F1	LP007F100A0000N000				
DN 40	1" 1/2	16/40	F4	LP008F000A0000N000	132	352	---	KLVVP008
			F1	LP008F100A0000N000				
DN 50	2"	16/40	F4	LP009F000A0000N000	142	352	---	KLVVP008
			F1	LP009F100A0000N000				
DN 65	2" 1/2	16	F4	LP010E000A0000N000	195	452	---	KLVVP010
			F1	LP010E100A0000N000				
		25/40	F4	LP010I000A0000N000	195	452	---	KLVVP010
			F1	LP010I100A0000N000				
DN 80	3"	16/40	F4	LP011F000A0000N000	203	452	---	KLVVP010
			F1	LP011F100A0000N000				
DN 100	4"	16	F4	LP012E000A0000N000	233	452	---	KLVVP010
			F1	LP012E100A0000N000				
		25/40	F4	LP012I000A0000N000	233	452	---	KLVVP010
			F1	LP012I100A0000N000				
DN 150	6"	16	F5	RP014E000A0000N000	618	346	500	*RRM011G00Q36001004 + SG500 Kit: KCF145596
			F1	RP014E100A0000N000				

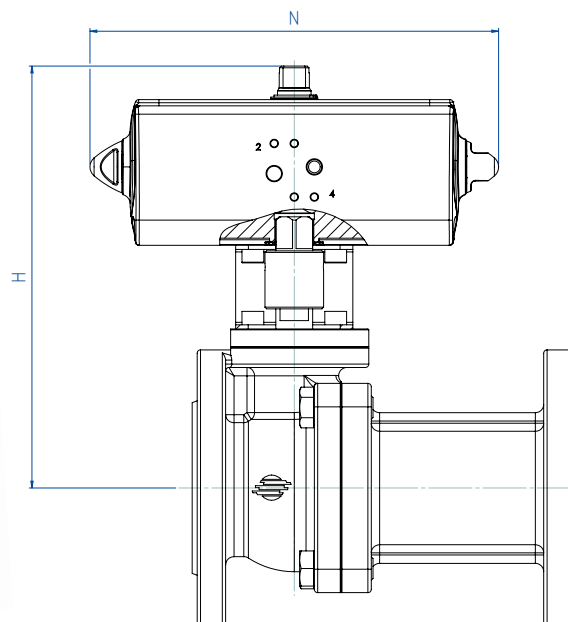
* Riduttore Gearbox



PROCHEMIE 60 SPLIT-BODY PN16-40



MATERIALI		MATERIALS
N°	DESCRIZIONE DESCRIPTION	MATERIALE MATERIAL
1	Corpo Body	1.4408
2	Terminale Connector	1.4408
3	Sfera Ball	1.4408/CF8M
4	Stelo Stem	1.4404/316 S.S.
5	Seggi Seat	PTFE+15% Glass Filled
6	Guarnizione Corpo-Terminale Body Gasket	Graphite
7	Anelli antifrizione Bottom sealing	TFM1600
8	Pacco a V Chevron Chevron packing	TFM1600
9	Pacco a V Chevron Chevron packing	TFM1600
10	Pacco a V Chevron Chevron packing	TFM1600
11	Anello premi guarnizione Gland nut ring	1.4404/316 S.S.
12	molle a tazza Springs	1.4310/301 S.S.
13	Guarnizione Corpo-Coperchio Superiore Body-Cover gasket	Graphite
14	Anello premi molle a tazza Fixing ring	1.4404/316 S.S.
15	Boccola stelo Stem bushing	Devlon
16	Coperchio superiore Upper cover	1.4404/316 S.S.
17	Viti coperchio superiore Cover screw	A4-70
18	Viti Corpo-Terminale Body closure screw	A4-70
19	Anello distanziale Spacer ring	PTFE+25% Carbon Filled
20	Leva Lever	1.4301/304 S.S.
21	Dado Stelo Stem nut	A4-70
22	Fermo leva Lever Stopper	1.4404/316 S.S.
23	Vite fermo leva Lever Stopper screw	A4-70
24	Riduttore Gear box	Ghisa (verniciato) Cast iron (painted)
25	Volantino Handwheel	Acciaio Carbonio (verniciato) Carbon Steel (Painted)

**PROCHEMIE 60 SPLIT-BODY PN16-40****ACCIAIO INOX STAINLESS STEEL****CON ATTUATORE PNEUMATICO DA WITH DA PNEUMATIC ACTUATOR**

KIT di connessione 304ss/1.4301
Connection Kit in 304ss/1.4301

DIMENSIONI DIMENSIONS									
MISURE SIZE		PN	SCARTAMENTO FACE TO FACE	CODICE ARTICOLO ITEM CODE	ATTUATORE ACTUATOR	KIT DI MONTAGGIO MOUNTING KIT	H [mm]	N [mm]	PESO WEIGHT [Kg]
DN [mm]	[inch]								
DN 15	1/2"	16/40	F4	DP004F000A0000N000CFCA0	DAN0030411S	KCF045046	176,2	174,3	4,2
			F1	DP004F100A0000N000CFCA0					4,3
DN 20	3/4"	16/40	F4	DP005F000A0000N000CFCA0	DAN0030411S	KCF045046	179,2	174,3	5,0
			F1	DP005F100A0000N000CFCA0					5,1
DN 25	1"	16/40	F4	DP006F000A0000N000CFDA0	DAN0045412S	KCF045044	196,5	188,5	6,2
			F1	DP006F100A0000N000CFDA0					6,3
DN 32	1" 1/4	16/40	F4	DP007F000A0000N000CFDA0	DAN0045412S	KCF045044	201,5	188,5	8,1
			F1	DP007F100A0000N000CFDA0					8,7
DN 40	1" 1/2	16/40	F4	DP008F000A0000N000CFEA0	DAN0060412S	KCF055047	225,9	198,1	13,3
			F1	DP008F100A0000N000CFEA0					13,9
DN 50	2"	16/40	F4	DP009F000A0000N000CFHA0	DAN0120411S	KCF075051	252,0	257,4	15,8
			F1	DP009F100A0000N000CFHA0					16,8
DN 65	2" 1/2	16	F4	DP010E000A0000N000CFIA0	DAN0180411S	KCF105052	338,5	289,9	24,8
			F1	DP010E100A0000N000CFIA0					28,3
		25/40	F4	DP010I000A0000N000CFIA0	DAN0180411S	KCF105052	338,5	289,9	26,6
			F1	DP010I100A0000N000CFIA0					30,4
DN 80	3"	16/40	F4	DP011F000A0000N000CFJA0	DAN0240411S	KCF105052	349,1	313,6	32,9
			F1	DP011F100A0000N000CFJA0					35,9
DN100	4"	16	F4	DP012E000A0000N000CFLA0	DAN0480411S	KCF125054	402,9	387,7	44,1
			F1	DP012E100A0000N000CFLA0					49,6
		25/40	F4	DP012I000A0000N000CFLA0	DAN0480411S	KCF125054	402,9	387,7	49,3
			F1	DP012I100A0000N000CFLA0					55,3
DN150	6"	16	F5	DP014E000A0000N000CFQA0	DAN1440411S	KCF145596	536,0	567,0	119,5
			F1	DP014E100A0000N000CFQA0					127,0

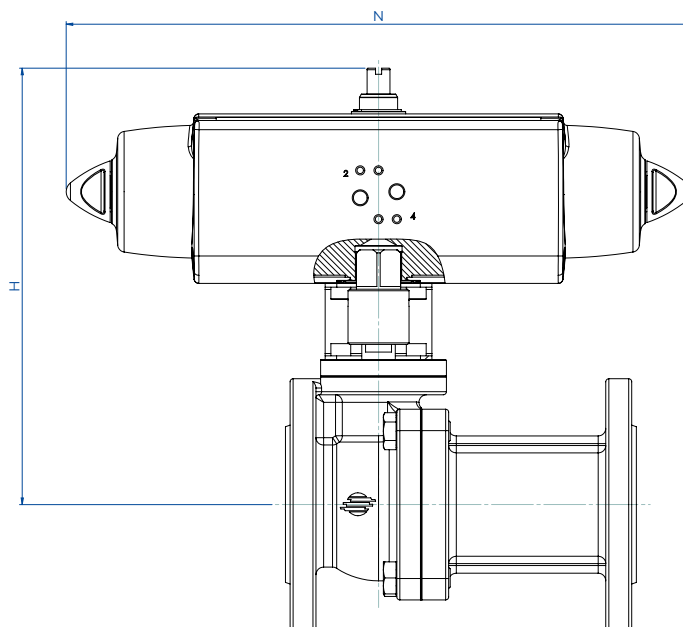
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PROCHEMIE 60 SPLIT-BODY PN16-40

ACCIAIO INOX STAINLESS STEEL

CON ATTUATORE PNEUMATICO SR WITH SR PNEUMATIC ACTUATOR



KIT di connessione 304ss/1.4301
Connection Kit in 304ss/1.4301

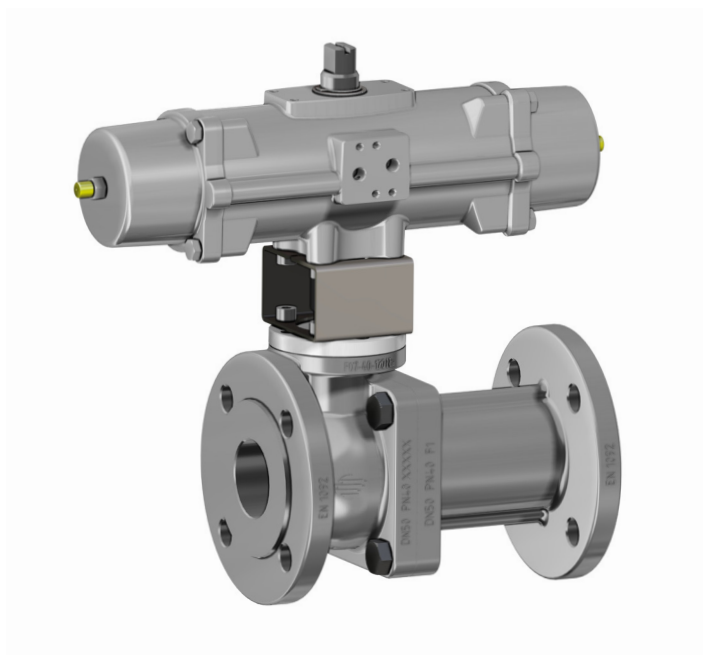
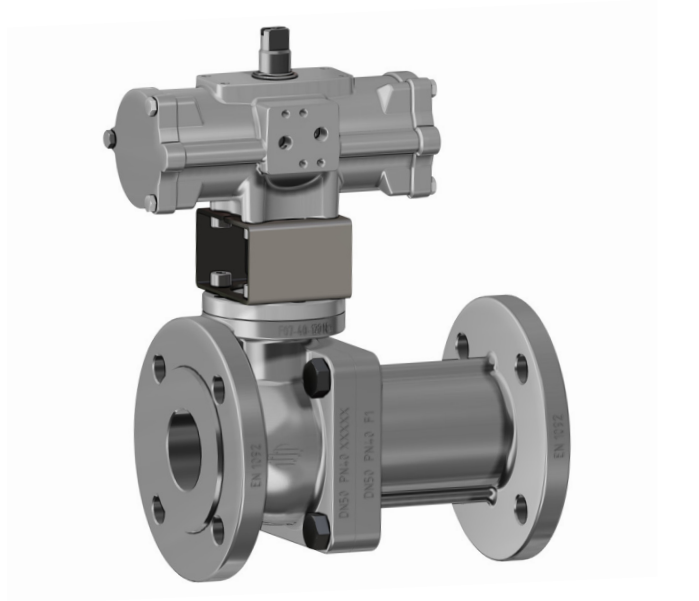
DIMENSIONI DIMENSIONS									
MISURE SIZE		PN	SCARTAMENTO FACE TO FACE	CODICE ARTICOLO ITEM CODE	ATTUATORE ACTUATOR	KIT DI MONTAGGIO MOUNTING KIT	H [mm]	N [mm]	PESO WEIGHT [Kg]
DN [mm]	[inch]								
DN 15	1/2"	16/40	F4	SP004F000A0000N000CFEA0	SRN0030402S	KCF055206	187,4	259,0	5,1
			F1	SP004F100A0000N000CFEA0					5,2
DN 20	3/4"	16/40	F4	SP005F000A0000N000CFEA0	SRN0030402S	KCF055206	190,4	259,0	5,8
			F1	SP005F100A0000N000CFEA0					5,9
DN 25	1"	16/40	F4	SP006F000A0000N000CFGA0	SRN0053401S	KCF075598	215,3	304,3	8,0
			F1	SP006F100A0000N000CFGA0					8,1
DN 32	1" 1/4	16/40	F4	SP007F000A0000N000CFGA0	SRN0053401S	KCF075598	220,3	304,3	10,0
			F1	SP007F100A0000N000CFGA0					10,5
DN 40	1" 1/2	16/40	F4	SP008F000A0000N000CFHA0	SRN0060401S	KCF075051	242,5	360,8	14,9
			F1	SP008F100A0000N000CFHA0					15,5
DN 50	2"	16/40	F4	SP009F000A0000N000CFJA0	SRN0120401S	KCF105228	286,1	409,6	20,1
			F1	SP009F100A0000N000CFJA0					21,1
DN 65	2" 1/2	16	F4	SP010E000A0000N000CFKA0	SRN0180401S	KCF105052	349,0	474,0	29,1
			F1	SP010E100A0000N000CFKA0					32,6
		25/40	F4	SP010I000A0000N000CFKA0	SRN0180401S	KCF105052	349,0	474,0	30,9
			F1	SP010I100A0000N000CFKA0					34,7
DN 80	3"	16/40	F4	SP011F000A0000N000CFLA0	SRN0240401S	KCF125054	372,9	520,5	39,7
			F1	SP011F100A0000N000CFLA0					42,7
DN 100	4"	16	F4	SP012E000A0000N000CFNA0	SRN0480401S	KCF145002	436,0	648,2	58,0
			F1	SP012E100A0000N000CFNA0					63,5
		25/40	F4	SP012I000A0000N000CFNA0	SRN0480401S	KCF145002	436,0	648,2	63,2
			F1	SP012I100A0000N000CFNA0					69,2
DN 150	6"	16	F5	SP014E000A0000N000CFSA0	SR1440E16D8A	KCF165597	679,0	834,0	172,5
			F1	SP014E100A0000N000CFSA0					180,0

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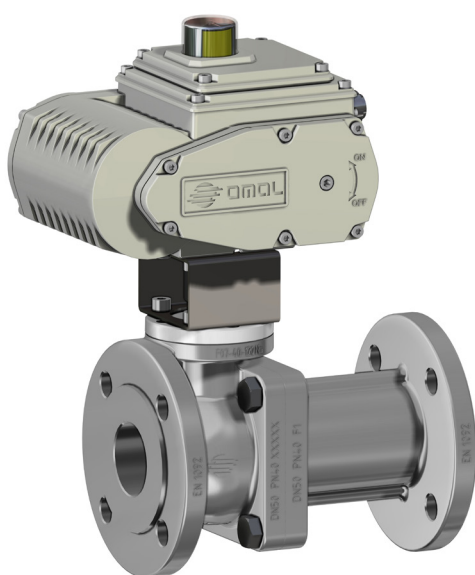


VERSIONI ATTUATE OPZIONALI ACTUATED OPTIONAL VERSIONS

CON ATTUATORE DA E SR IN ACCIAIO INOX WITH STAINLESS STEEL DA AND SR ACTUATOR



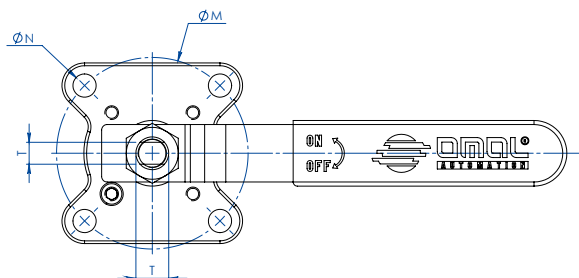
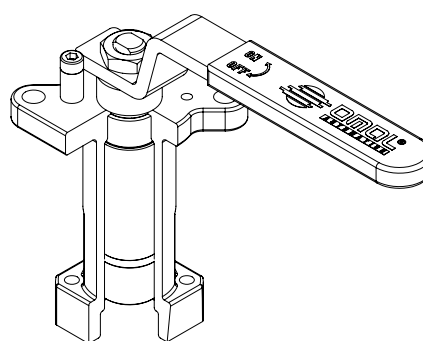
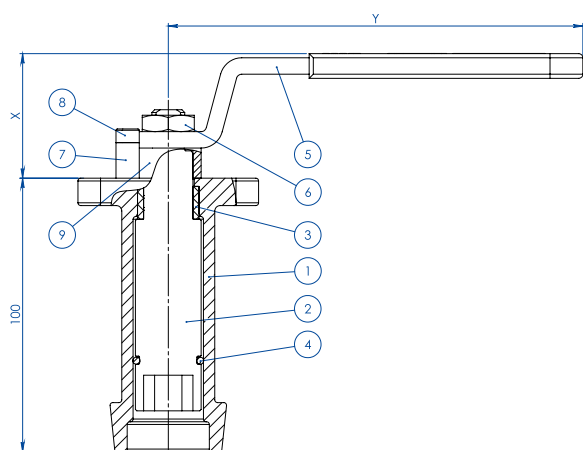
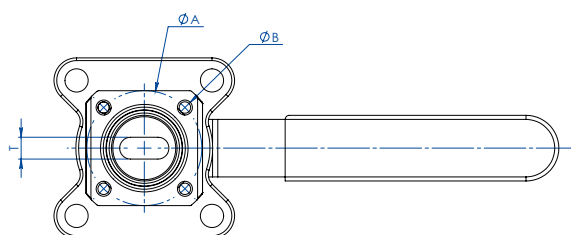
CON ATTUATORE ELETTRICO WITH ELECTRIC ACTUATOR





PROCHEMIE 60 ACCESSORI ACCESSORIES

PROLUNGA GUIDATA DA FUSIONE A LEVA CASTING STEM EXTENSION WITH LEVER



MATERIALI MATERIALS		
PART. N°	DESCRIZIONE - DESCRIPTION	MATERIALE - MATERIAL
1	Prolunga Extension	ASTM A351 CF8M
2	Perno Pin	AISI 430 F
3	Bussola Bush	DELIRIN
4	O-RING O-RING	NBR
5	Leva Lever	Fe 37 galvanized (*)
6	Dado Nut	galvanized carbon steel (*)
7	Fermo leva Holder Lever	galvanized carbon steel (*)
8	Vite fermo leva Holder screw	A2-70
9	Distanziale Spacer	PTFE Carbon Filled

(*): a richiesta disponibili in 304 S.S. On request available in Aisi 304 s.s.

DIMENSIONI DIMENSIONS							
ISO VALVOLA VALVE	ØA	ØB	ØM	ØN	F/T	X	Y
F03	36	5,5	36	M5	10/6	38,5	141,5
F04	42	5,5	42	M5	12/8	45,5	151,5
F05	50	6,5	50	6,5	16/10	48,5	276,5
F07	70	8,5	70	8,5	22/14	57,5	351,5
F10	102	11	102	11	30/18	79,5	451,5

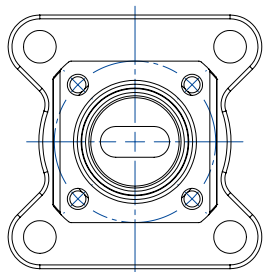
NOTA: Il codice della prolunga dipende dal tipo di azionamento e dall'attacco valvola; richiedere in fase d'ordine.

NOTE: Code of the stem extension depending from drive's type and valve's connection; to be requested at the order.

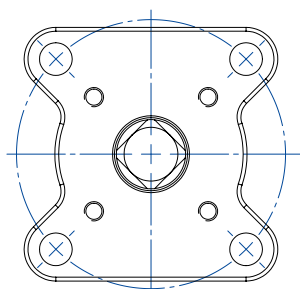
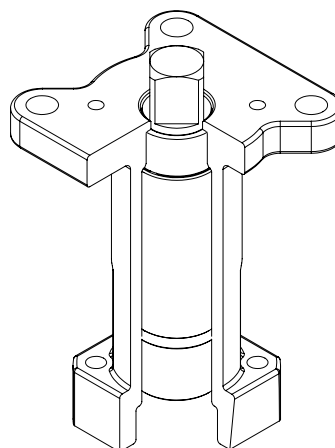
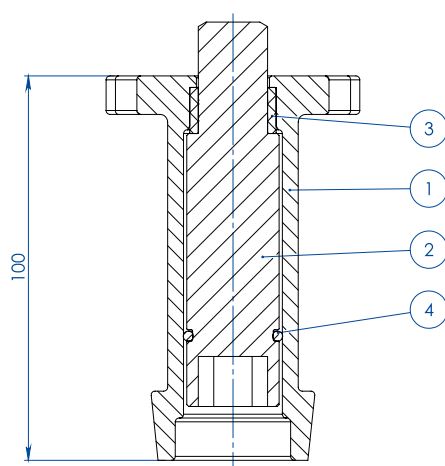


PROCHEMIE 60 ACCESSORI ACCESSORIES

PROLUNGA GUIDATA DA FUSIONE PER ATTUATORE CASTING STEM EXTENSION FOR ACTUATORS



NOTA: Le dimensioni dipendono dalle dimensioni dell'attacco valvola
NOTE: Dimensions depending from valve's connection



NOTA: Le dimensioni dipendono dalla taglia dell'attuatore
NOTE: Dimensions depending from actuator's size

MATERIALI MATERIALS		
PART. N°	DESCRIZIONE DESCRIPTION	MATERIALE MATERIAL
1	Prolunga Extension	ASTM A351 CF8M
2	Perno Pin	AISI 430 F
3	Bussola Bush	DELFIN
4	O-RING O-RING	NBR

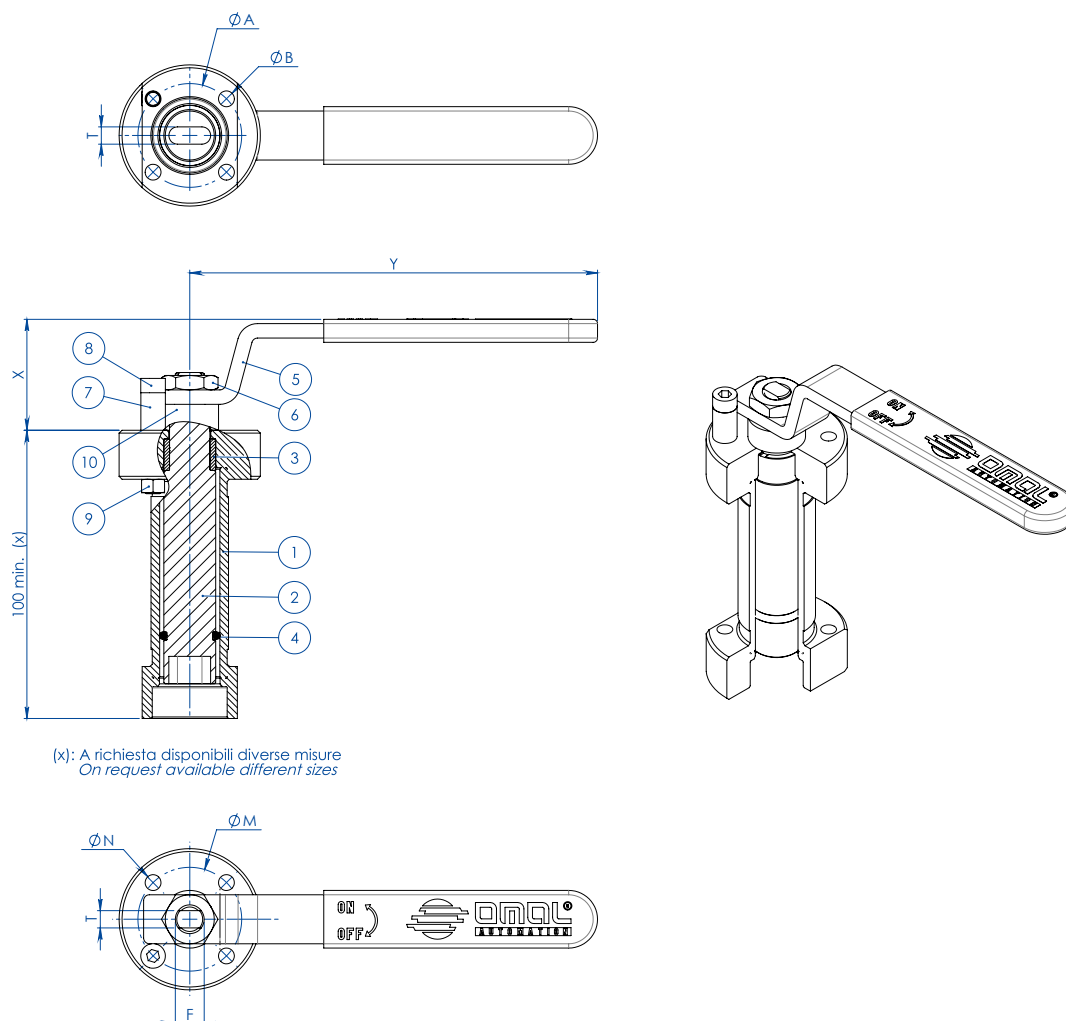
NOTA: Il codice della prolunga dipende dal tipo di azionamento e dall'attacco valvola; richiedere in fase d'ordine.

NOTE: Code of the stem extension depending from drive's type and valve's connection; to be requested at the order.



PROCHEMIE 60 ACCESSORI ACCESSORIES

PROLUNGA GUIDATA SALDATA A LEVA WELDED STEM EXTENSION WITH LEVER



MATERIALI MATERIALS		
PART. N°	DESCRIZIONE - DESCRIPTION	MATERIALE - MATERIAL
1	Prolunga Extension	304 S.S.
2	Perno Pin	AISI 430 F
3	Bussola Bush	DELTRIN
4	O-RING O-RING	NBR
5	Leva Lever	Fe 37 galvanized (*)
6	Dado Nut	galvanized carbon steel (*)
7	Fermo leva Holder Lever	galvanized carbon steel (*)
8	Vite fermo leva Holder screw	A2-70
9	Dado fermo leva Holder nut	A2-70 (**)
10	Distanziale Spacer	PTFE Carbon Filled

(*): a richiesta disponibili in 304 S.S. On request available in Aisi 304 s.s.

(**): non presente su valvole con attacco iso F04. No available on valves with Iso connection F04

DIMENSIONI DIMENSIONS							
ISO VALVOLA VALVE	ØA	ØB	ØM	ØN	F/T	X	Y
F03	36	5,5	36	5,5	10/6	38,5	141,5
F04	42	5,5	42	M5	12/8	45,5	151,5
F05	50	6,5	50	6,5	16/10	48,5	276,5
F07	70	9	70	9	22/14	57,5	351,5
F10	102	11	102	11	30/18	79,5	451,5

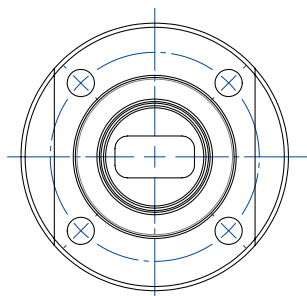
NOTA: Il codice della prolunga dipende dal tipo di azionamento e dall'attacco valvola; richiedere in fase d'ordine.

NOTE: Code of the stem extension depending from drive's type and valve's connection; to be requested at the order.

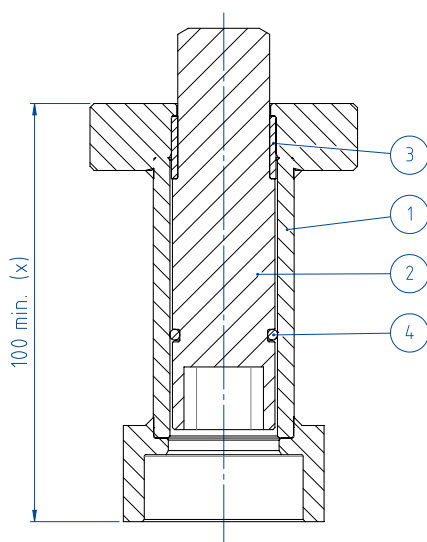


PROCHEMIE 60 ACCESSORI ACCESSORIES

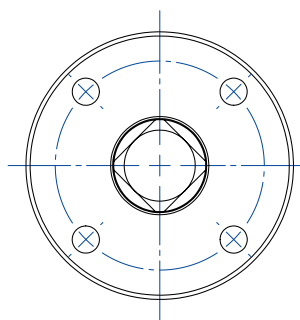
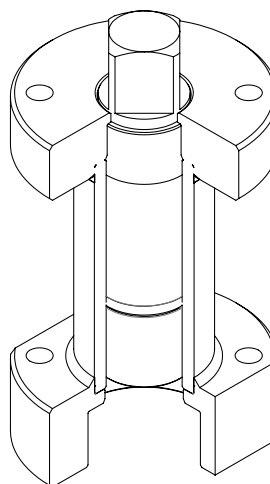
PROLUNGA GUIDATA SALDATA PER ATTUATORE WELDED STEM EXTENSION FOR ACTUATORS



NOTA: Le dimensioni dipendono dalle dimensioni dell'attacco valvola
NOTE: Dimensions depending from valve's connection



(x): A richiesta disponibili diverse misure
On request available different sizes



NOTA: Le dimensioni dipendono dalla taglia dell'attuatore
NOTE: Dimensions depending from actuator's size

MATERIALI MATERIALS		
PART. N°	DESCRIZIONE DESCRIPTION	MATERIALE MATERIAL
1	Prolunga Extension	304 S.S.
2	Perno Pin	AISI 430 F
3	Bussola Bush	DELFIN
4	O-RING O-RING	NBR

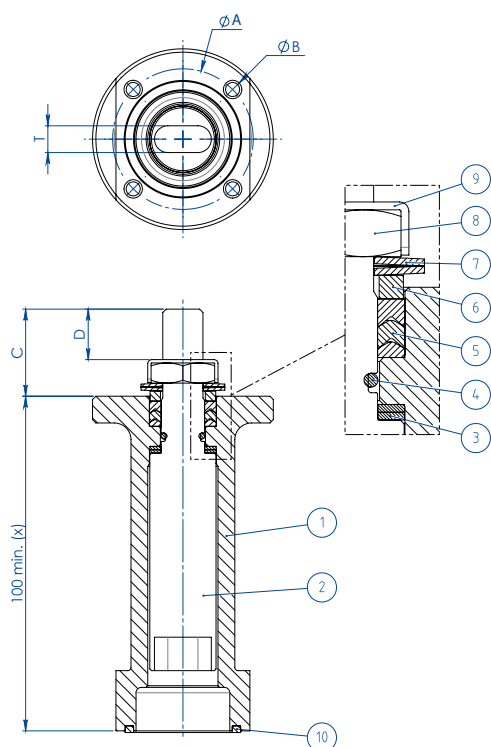
NOTA: Il codice della prolunga dipende dal tipo di azionamento e dall'attacco valvola; richiedere in fase d'ordine.

NOTE: Code of the stem extension depending from drive's type and valve's connection; to be requested at the order.

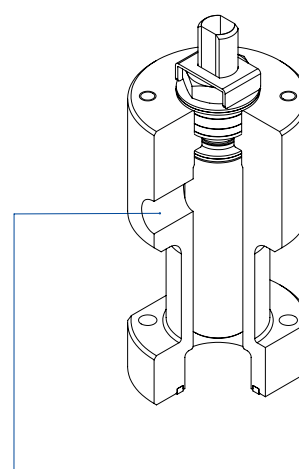
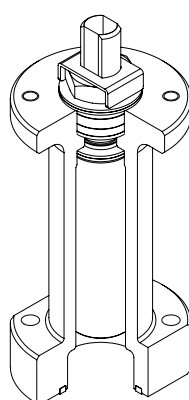


PROCHEMIE 60 ACCESSORI ACCESSORIES

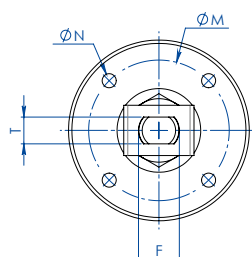
PROLUNGA CON TENUTA AGGIUNTIVA STEM EXTENSION WITH ADDITIONAL SEAL



(x): A richiesta disponibili diverse misure
On request available different sizes



A richiesta disponibile anche la versione con presa per Sniffer
Stem extension with sniffer also available on request



MATERIALI MATERIALS

PART. N°	DESCRIZIONE - DESCRIPTION	MATERIALE - MATERIAL
1	Prolunga Extension	304 s.s.
2	Perno Pin	A564 TP.630 (17-4ph)
3	Anello Antifrizione Bottom Sealing	TFM1600
4	O-Ring O-Ring	FKM
5	Pacco A V Chevron Ring	TFM1600
6	Anello Premiguarnizione Packing Gland Ring	304 s.s.
7	Molle A Tazza Spring Washer	50CrV4 Zincato - Galvanized
8	Dado Stelo Stem Nut	UNI 3740-1 6S Zincato - Galvanized
9	Piastra Blocca Dado Stop Nut Plate	304 s.s.
10	Guarnizione di tenuta Gasket	GRAFOIL

DIMENSIONI DIMENSIONS

ISO VALVOLA VALVE	ØA	ØB	ØM	ØN	F/T	C	D
F03	36	5,5	36	M5	10/6	20	10,2
F04	42	5,5	42	M5	12/8	26	15,1
F05	50	6,5	50	M6	16/10	35	21,2
F07	70	8,5	70	M8	22/14	47,5	28,4
F10	102	10,5	102	M10	30/18	61	35,2

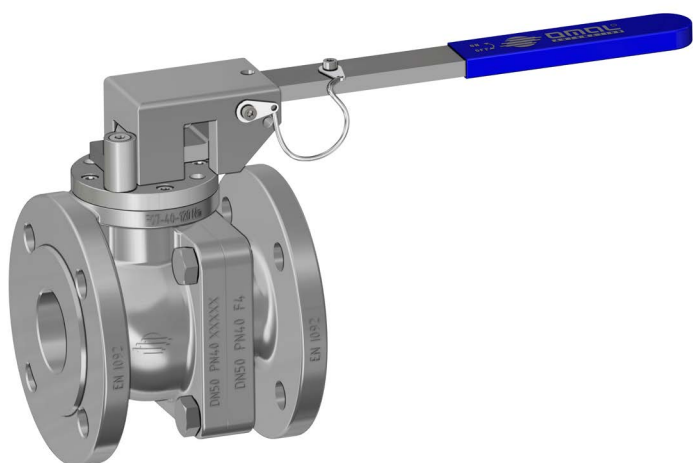
NOTA: Il codice della prolunga dipende dal tipo di azionamento e dall'attacco valvola; richiedere in fase d'ordine.

NOTE: Code of the stem extension depending from drive's type and valve's connection; to be requested at the order.



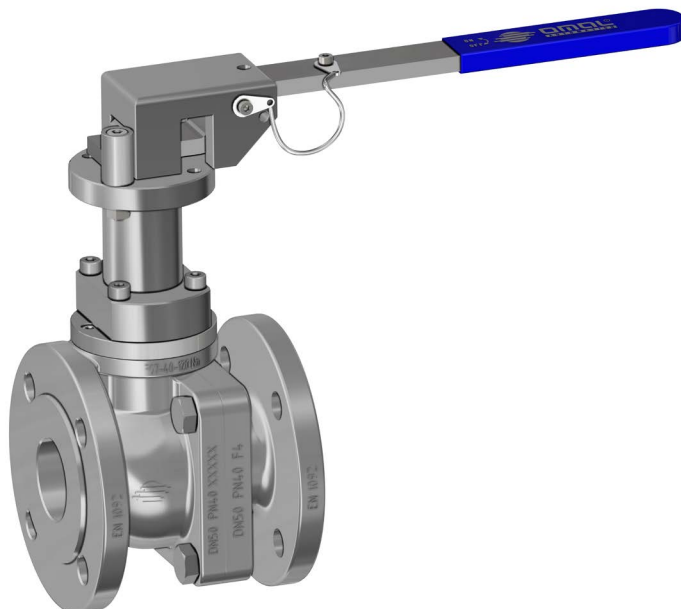
ESECUZIONI SPECIALI A RICHIESTA SPECIAL EXECUTIONS ON REQUEST

DISPOSITIVO LUCCHETTABILE LOCKING DEVICE

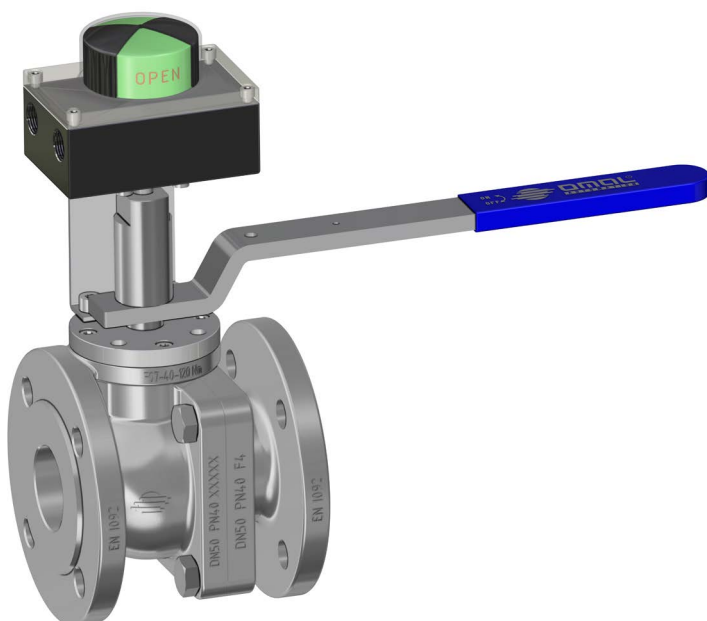


È possibile verniciare il dispositivo lucchettabile.
It is possible to paint locking device.

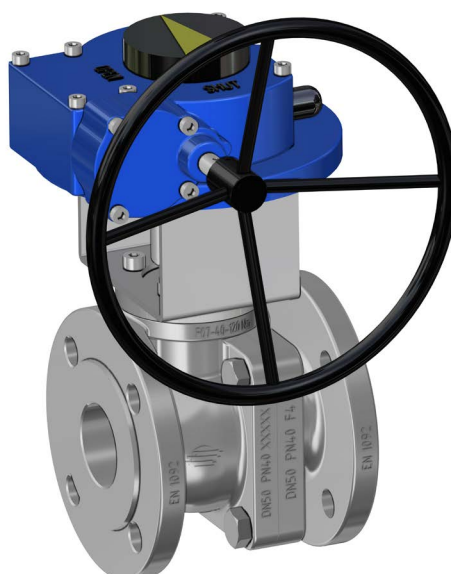
DISPOSITIVO LUCCHETTABILE CON PROLUNGA LOCKING DEVICE WITH STEM EXTENSION



LEVA E BOX FINECORSA LEVER AND LIMIT SWITCH BOX



RIDUTTORE MANUALE MANUAL GEAR-BOX

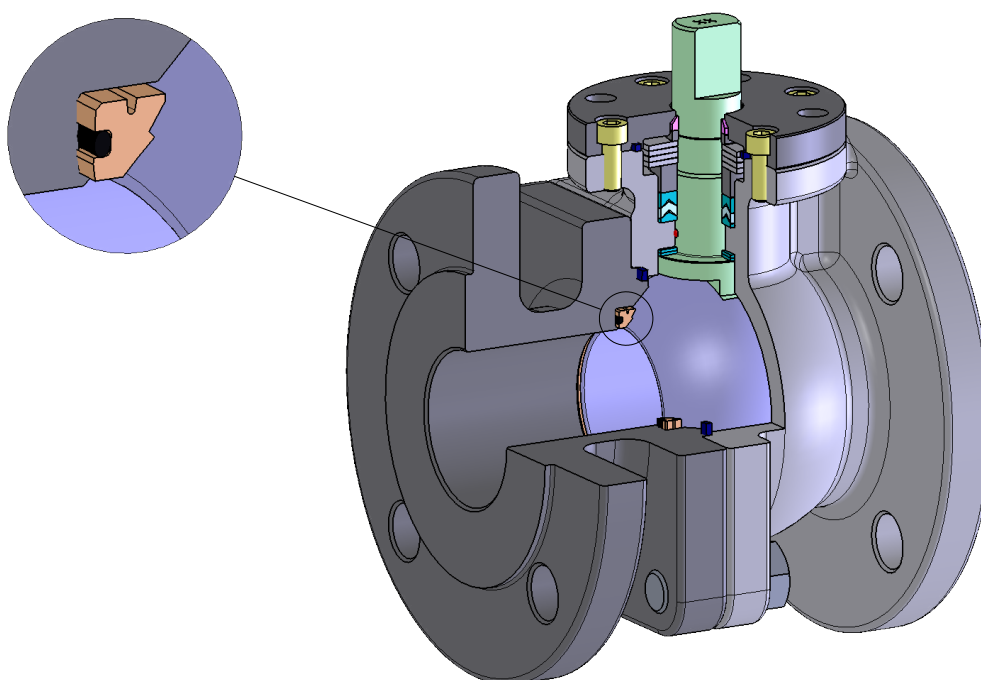




FORO DI RILASCIO DELLA PRESSIONE *PRESSURE RELIEF HOLE*



VERSIONE CON SEDILE PRECARICATO DA OR-RING *VERSION WITH SEAT PRELOADED BY OR-RING*





CERTIFICAZIONI PROCHEMIE 60 PROCHEMIE 60 CERTIFICATES

ATEX ▶

La Dichiarazione del Sistema di Gestione della Qualità operata da OMAL per la progettazione, la fabbricazione, l'ispezione finale e le prove delle valvole industriali è conforme alla Direttiva 2014/34 / UE ATEX per le apparecchiature ed è destinata all'uso in aree potenzialmente esplosive.

Quality Management System Declaration operated by OMAL for the design, manufacture, final inspection and tests of industrial valves is in compliance with the 2014/34/EU Directive ATEX for equipment and is intended to be used in potentially explosive areas.

DNV
FULL QUALITY ASSURANCE CERTIFICATE

Certificate No.: C20552 Initial date: 01 January, 2023 Validity: 01 January, 2023 – 31 December, 2023

This certificate consists of 2 pages

This is to certify that the quality system of:
OMAL S.p.A.
Via Ponte Nuovo, 11 - 25050 Rodengo Saiano (BS) - Italy

has been assessed and found to comply with respect to the conformity assessment procedure described in:
ANNEX III MODULE H OF DIRECTIVE 2014/68/EU ON PRESSURE EQUIPMENT

This certificate is valid for the following scope:
Type of Pressure Equipment: **Pressure Accessory**
Product Name: **Ball valves, high pressure ball valves, butterfly valves, pneumatic valves.**

Place and date:
Venezia, 01 December, 2022

Check Validity

For the issuing office:
Notified Body 0066, Italy
DNV Business Assurance Italy S.r.l.

Nicola Pirovano
Management Representative

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.

NOTED: DNV 1046 DNV Business Assurance Reg S.r.l. Via D'Adda 14, 00197 Venezia (VE), Italy Tel: 051 98 98 905, Fax: 051 98 98 906, www.dnv.com

CEP-4-0-0-PE2-0 rev.0

◀ PED

Certificazione del Sistema di Gestione della Qualità operato da OMAL per la progettazione, fabbricazione, collaudo finale e collaudi di valvole industriali secondo quanto previsto dalla Direttiva Apparecchiature in Pressione 2014/68 / UE (MODULO H - garanzia totale per l'intero processo).

Certification of the Quality Management System operated by OMAL for the design, manufacture, final inspection and tests of industrial valves according to 2014/68/EU Pressure equipment Directive (FORM H - full warranty for the entire process) provisions.

SIL ▶

Certificazione in conformità ai requisiti del livello di sicurezza funzionale IEC 61508, intesa per prodotti destinati ad essere integrati in sistemi di livello di integrità della sicurezza fino a SIL 3.

Certification in compliance with the IEC 61508 functional safety level requirements, meant for products intended to be integrated in safety integrity level systems up to SIL 3.

ZfP SCHREIBER
Planen. Bauen. Sichern.

Schreiber GmbH
Gebaude 8950
Industriepark Höchst
65926 Frankfurt am Main
Tel.: 069/505-18421, Fax: 069/505-80803

Bericht-Nr.: 18/20-13834
Vorgangs-Nr.: 18/20
Eingangsdatum: 26.04.2018
Auftragsgegenstand: Musterprüfung an Kugelhahngehäusen und Komplettkugelhähnen nach IGR Guideline Technik 12-0042-1 und GR Formnummer 19021, 19022, 19023 und 19043
Zeichnungsnummer: Y-5841
Hersteller: Fa. Omal SpA
Via Ponte Nuovo 11
25050 Rodengo Saiano (BS)
Italien
Untersuchungszeitraum: 27.02.2018 bis 12.04.2018
Berichtsdatum: 12.04.2018
Beurteilung: Die geprüften Musterkugelhähne mit der IGR-Formnummer 19021 und 19022 erfüllen die gestellten Anforderungen.
Die geprüften Gehäusestücke erfüllen die gestellten Anforderungen von IGR-Formnummer 19021, 19022, 19023 und 19043.
Anlagen: - Komplettdokumentation DN50
- Gehäusestücke DN25, PN40; DN100, PN16; DN100, PN40
- Bilddokumentation

12.04.2018 Frankfurt/Main Raitz, C. Prof. Dr. B. G. (Name/Unterschrift) 12.04.2018 12.04.2018

Schreiber GmbH Kreislaufwirtschaft Tel.: +49 (0) 69 505 80 84 40 info@schreiber.de 19760 Seitenbach Fax: +49 (0) 69 505 80 84 41 www.zfp-schreiber.de

TÜV DAKKS

◀ IGR

Tipo certificato n. 15623292 secondo la Linea Guida IGR n. 12-0042-1 e scheda tecnica nr 19021, 19022, 19023, 19043 per l'industria chimica.

Type certificate n. 15623292 according to IGR Guideline n. 12-0042-1 and data sheet nr 19021, 19022, 19023, 19043 for chemical industry.

INERIS

Appareil non électrique destiné à être utilisé en atmosphères explosibles
Non electrical equipment intended for use in potentially explosive atmospheres
Apparecchi non elettrici destinati ad essere utilizzati in atmosfere potenzialmente esplosive

Directive 2014/34/UE
Directive 2014/34/EU / Direttiva 2014/34/UE

ACCUSÉ DE RECEPTION D'UN DOSSIER TECHNIQUE
ACKNOWLEDGE RECEIPT OF TECHNICAL DOCUMENTATION
AVVISO DI RICEVIMENTO DEL FASCICOLO TECNICO

Appareil / Equipment / Apparecchiatura: **BALL VALVES**
Type(s) / Type(s) / Tipo(s): **Wafer type, Split body type, Split Wafer type steel ball valves / Two-piece, Three-piece steel ball valve High-pressure - threaded ends / Two-piece brass ball valves threaded ends**
Marquage / Marking / Marcatura: **EX B 2 GD**
Dépositaire / Applicant / Richiedente: **OMAL S.p.A.**
Via Ponte Nuovo 11
I- 25050 Rodengo Saiano (BS)

L'INERIS, organisme notifié et INERIS, notified body and identified L'INERIS, organismo notificato e identificato under number 0005, in accordance with article 17 and 21 of Council Directive 2014/34/UE of the 26 February 2014, Conformité aux articles 17 et 21 de la Directive 2014/34/UE du 26 février 2014, Accuse reception of the dossier conformément à la procédure décrite au chapitre 3, article 13 (b) (i) of the Directive. The technical documentation referenced: VS-19 dated 10/10/2019. La documentazione tecnica di riferimento: VS-19 dated 10/10/2019. Nel quadro di questa registrazione, INERIS non ha esaminato il contenuto della documentazione tecnica.

Date de fin de validité: 2029.11.07 Validity completion date: 2029.11.07 Data di fine di validità: 2029.11.07

Le Directeur Général de INERIS, Par délégation, The Chief Executive Officer of INERIS, By delegation, S. Direttore generale dell' INERIS, Per delega,

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Par: Technologique Atlas SP 2 P-00000 Noté en Italie
16-110001 45 56 66 77 Fax: +33(0) 4 67 53 66 99 Internet: www.ineris.fr
Institut national de l'environnement industriel et des risques
Établissement public à caractère industriel et commercial - RCS Compagnie 5 301 964 934 - Siren 301 964 934 - APE 7120Z - TVA Intracom FR 13 301 964 931

TUV NORD

CERTIFICATE

This certifies, that the company
Omal S.p.A.
Via Ponte Nuovo, 11
25050 Rodengo Saiano (BS)
Italy

is authorized to provide the product mentioned below
Description of product: **Split body floating ball valve series Prochemie**

In accordance with: **EN 61608:2010 Parts 1, 2, 3, 4, 5, 6, 7**

Registration No 21 2215 01
Teil Report No PS-2215-01-L
File reference: 22135-01

TUV NORD Italia S.r.l. (TUV NORD Group)
Via Turati, 70 20023 Cerno Maggiore (MI) www.tuv-nord.it

Cerno Maggiore, 2021-11-22
prodotti@tuv-nord.it

Please also pay attention to the information stated overleaf
TUV-QFIND-SIL-01-14-Rev01_01_2020-Certificate_Type A



FUGITIVE EMISSION CERTIFICATE

CERTIFICATE NUMBER: FE-063579-853

CLIENT: OMAL Spa
ADDRESS: Via Brogno 12, 20050 Passirano (BS) - Italy

REPORT NUMBER: Dec n.58

SCOPE OF REPORT: Fugitive Emission test carried out according to ISO 15848-1 Edition 2015

max BAR: 40 Bar
max °C: +150°C

QUALIFIED VALVE: Size: 2" FB (Stem Dia. 23mm)
Rating Class: PN 40
Drawing N°: Y_3541
Type: SPLIT BODY FLOATING BALL VALVE (PROCHEMIE 60)

RANGE AND TYPE OF VALVES COVERED: ISO FE AH-CES-SEA 0-6/20°C, +150°C PN40-ISO 15848-1
In accordance with ISO 15848-1, was conducted the certification to valve with seat and body seal material, design (shape) and construction, with stemless 50% lever and 200% higher tested (Paragraph 8.4): Stem tested 823 mm >> 811.5 mm < Stem certified < 846 mm
Paragraph 8.5: Pressure PN40
From DN15 FB to DN 150 FB, PN 540 of series PROCHEMIE 60

TUV Inspector: Mastrogiovanni Simone
CERTIFICATION DATE: 22/03/2017
TUV Italia s.r.l. - TÜV SÜD Group

TA-LUFT CERTIFICATE

Technical Instruction on Air Quality Directives Item 5.2.6.4 (VDI 2440)

CERTIFICATE NUMBER: TAL- 00659-069

Company/Manufacturer: OMAL S.p.A.
Test Location: Via Brogno 12, 20050 Passirano (BS) - Italy
Test of Testing: From 20th to 20th September 2017
Tested Material: Split Body Floating Ball Valve 2" FB PN40 (PROCHEMIE 60)
Requirements: VDI 2440 Ed 11 (Nov 2000), ISO 15848-1 Ed 2015 C22 (80000 Cycle)
Leak detection Method: Mass spectrometer (ADIXEN ASM 340WET) VS Calibrated Leak 50 FC-4002500
Test Results: Satisfactory

CONCLUSIONS

Taking into account the specific testing outfit and the type of leak detector instrumentation used, above described, the recorded leak values satisfy the "TA LUFT" requirements (with reference to the existing literature), with leaks lower than 10⁻⁶ mbar (l/s m).

The type of valve tested with its packing system satisfies the "TA LUFT" equivalence criteria, taking however into account that:

The presence of a safety or a secondary packing system as well as the spring loading option is recommended in order to satisfy as well the qualitative aspect of the equivalence criteria. The validity of the present qualification beyond the tested geometrical or non essential variables (i.e. stem diameter) are not defined in the TA LUFT directive, and are not yet officially quantified by international standards.

Therefore the extension of this qualification to other valves is left to the acceptance rules of the customer or final user.

TUV Inspector: Mastrogiovanni Simone
CERTIFICATION DATE: 22/03/2017
TUV Italia s.r.l. - TÜV SÜD Group

ТАМОЖЕННЫЙ СОЮЗ
СЕРТИФИКАТ СООТВЕТСТВИЯ

№ ТС: RU C-IT 0105.8.00213
Серия RU № 0270444

Орган по сертификации: Орган по сертификации Общества с ограниченной ответственностью "Университетско-научный центр "Технопрогресс" Адрес: 115088, РФ, город Москва, улица Шаришвилидзе, дом 4, корпус 3/3. Фактический адрес: 105088, РОССИЯ, город Москва, улица Юрия Ленинца, дом 25. Телефон: +7-495-775-8911. Факс: +7-495-775-8911. Электронная почта: info@tsn.ru. Адрес: 105081, Россия, город Москва, улица Батюшкова, дом 16, корпус 1, помещение 3, комната 3. Телефон: +7-495-2333714. Факс: +7-495-2333714. Электронная почта: certification@tsn.ru

Заявитель: Общество с ограниченной ответственностью «СЕРП-П», ОГРН 1147746301025. Адрес: 105081, Россия, город Москва, улица Батюшкова, дом 16, корпус 1, помещение 3, комната 3. Фактический адрес: 105081, РОССИЯ, город Москва, улица Батюшкова, дом 16, корпус 1, помещение 3, комната 3. Телефон: +7-495-2333714. Факс: +7-495-2333714. Электронная почта: certification@tsn.ru

ИЗГОТОВИТЕЛЬ: «OMAL S.p.A.»
Адрес: ITA009, Via Ponte Nuovo 11, 25050 Rodengo Saiano, Brescia, Телефон: +39-030-890-0145. Факс: +39-030-890-0423.

ПРОДУКЦИЯ: Арматура промышленная трубопроводная, предназначенная для газа и используемая для работы среда групп 1 и 2, 3-я категория: краны шаровые серии THOR, SUPREME, MAGNUM, PRO-CHEMIE, дилататоры шаровые серии WAFER, LUNA, клапаны Промежуточные - Клапан № 027003, 027004, 027005. Испытывается в соответствии с европейской Директивой 97/23/ЕС. Серийный выпуск.

КОД ТИПА ТУС: 848180808, 8481809199

СООТВЕТСТВУЕТ ТРЕБОВАНИЮ ТР ТС 032/2013 "О безопасности оборудования, работающего под избыточным давлением"

СЕРТИФИКАТ ВЫДАН НА ОСНОВАНИИ: обобщения результатов испытаний на OMAL, ООО, в целях признания в РФ ТУС 1473 от 20.07.2015 г., паспорта на SUPREME 201, паспорта на WAFER 001, разрешения на эксплуатацию, протокола сертификационных испытаний № 0013 от 18.08.2015 года, протокола информационных испытаний № 2614 от 18.08.2015 года, выданных Московским лабораторией ЗАО "Испытательный центр "Технопрогресс", аккредитованной РОССТАНДАРТОМ № 0001-214690 от 03.09.2014 г., на 03.09.2015 года, подтверждающей соответствие ISO 9001:2008 по 00417, действительного до 09/09/2017 года.

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ: Срок службы - 20 лет. Срок хранения и условия хранения, в соответствии с ГОСТ 15150-69, указаны в эксплуатационной документации.

Срок действия: 14.12.2015 ПО 13.12.2020

ВКЛЮЧИТЕЛЬНО: Москва Л.П.
Самарова Л.Д.

▲ "TA-LUFT" AND "FUGITIVE EMISSION"

Certificazione di conformità alla UNI EN ISO 15848-1, TA LUFT (60000 cicli) VDI 2440, requisito di non emissione di sostanze nocive in atmosfera, destinato ad applicazioni con fluidi pericolosi e inquinanti atmosferici.

Certification of compliance with UNI EN ISO 15848-1, TA LUFT (60000 cycles) VDI 2440, requirement of non-emission of harmful substances into the atmosphere, intended for hazardous fluids and air pollutants applications.

▼ FIRE SAFE

Certificazione di conformità della capacità di tenuta di una valvola in pressione durante e dopo la prova di tipo antincendio secondo gli standard API607 / ISO 10497.

Certification of compliance of the sealing capability of a valve in pressure during and after the fire type-testing according to API607/ISO 10497 standards.

FIRE SAFE CERTIFICATE

CERTIFICATE NUMBER: FS-063579-556

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

REPORT NUMBER: 28

SCOPE OF REPORT: Fire Safe test carried out according to ISO 10497 Third Edition February 2010 and API 607 Sixth Edition September 2010

max BAR: 40.0 Bar
max °C: +934°C

QUALIFIED VALVE: Size: DN 50
Rating Class: PN 40
Drawing N°: Y_4112
Type: FLOATING BALL VALVE SPLIT BODY

RANGE AND TYPE OF VALVES COVERED: DN 50 and below 65, 80, 100 (NPS 2" and below 2", 1/2", 3", 4")
PN 40, 63, 100 (Class 300, 400, 600)

TUV Inspector: Mastrogiovanni Simone
CERTIFICATION DATE: 13/03/2015
TUV Italia s.r.l. - TÜV SÜD Group

SAFE CERTIFICATE

19-557

12,0 Bar
+529°C

DN 65
PN 16
Y_4115
FLOATING BALL VALVE SPLIT BODY

100, 125 (NPS 2", 1/2", 3", 4", 5")
Class 150

13/03/2015

13/03/2015

Italia s.r.l. - TÜV SÜD Group

EAC "EX" ▲

Certificazione della conformità del prodotto ai Regolamenti Tecnici applicabili nell'Unione Doganale EuroAsec (Russia, Kazakhstan, Bielorussia, Armenia).

Certification of the compliance of the product with the Technical Regulations applicable in the EuroAsec Customs Union (Russia, Kazakhstan, Belarus, Armenia).



OMAL S.p.A.



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HEADQUARTERS

Via Ponte Nuovo, 11 - 25050 Rodengo Saiano (BS) ITALY

Coordinates:

Lat: 45° 35' 53" North; Lon: 10° 05' 21" East

PRODUCTION SITE

Via Brognolo, 12 - 25050 Passirano (BS) ITALY

Coordinates:

Lat: 45° 35' 51" North; Lon: 10° 05' 18" East