OMAL S.p.A. Società Benefit
Headquarters: Via Ponte Nuovo 11, Rodengo Saiano (Brescia) Italy
Production site: Via Brognolo 12, Passirano (Brescia) Italy
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Warning: filectime(): stat failed for /var/www/vhost/www.omal.it/htdocs/https://www.omal.it/./FilesProdotti/Certificate-212198201-OMAL-ValvoleHercules.pdf in **/var/www/vhost/www.omal.it/htdocs/prodotto-printable.php** on line **65**

Warning: filectime(): stat failed for /var/www/vhost/www.omal.it/htdocs/https://www.omal.it/./FilesProdotti/RICEVUTADEPOSITOF.T.ATEXN.VS-19.pdf in **/var/www/vhost/www.omal.it/htdocs/prodotto-printable.php** on line **65**

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HERCULES high pressure - high cycle carbon steel ball valve

Macro Ball valves

Category HERCULES

Subcategory HERCULES high pressure - high cycle

benefits

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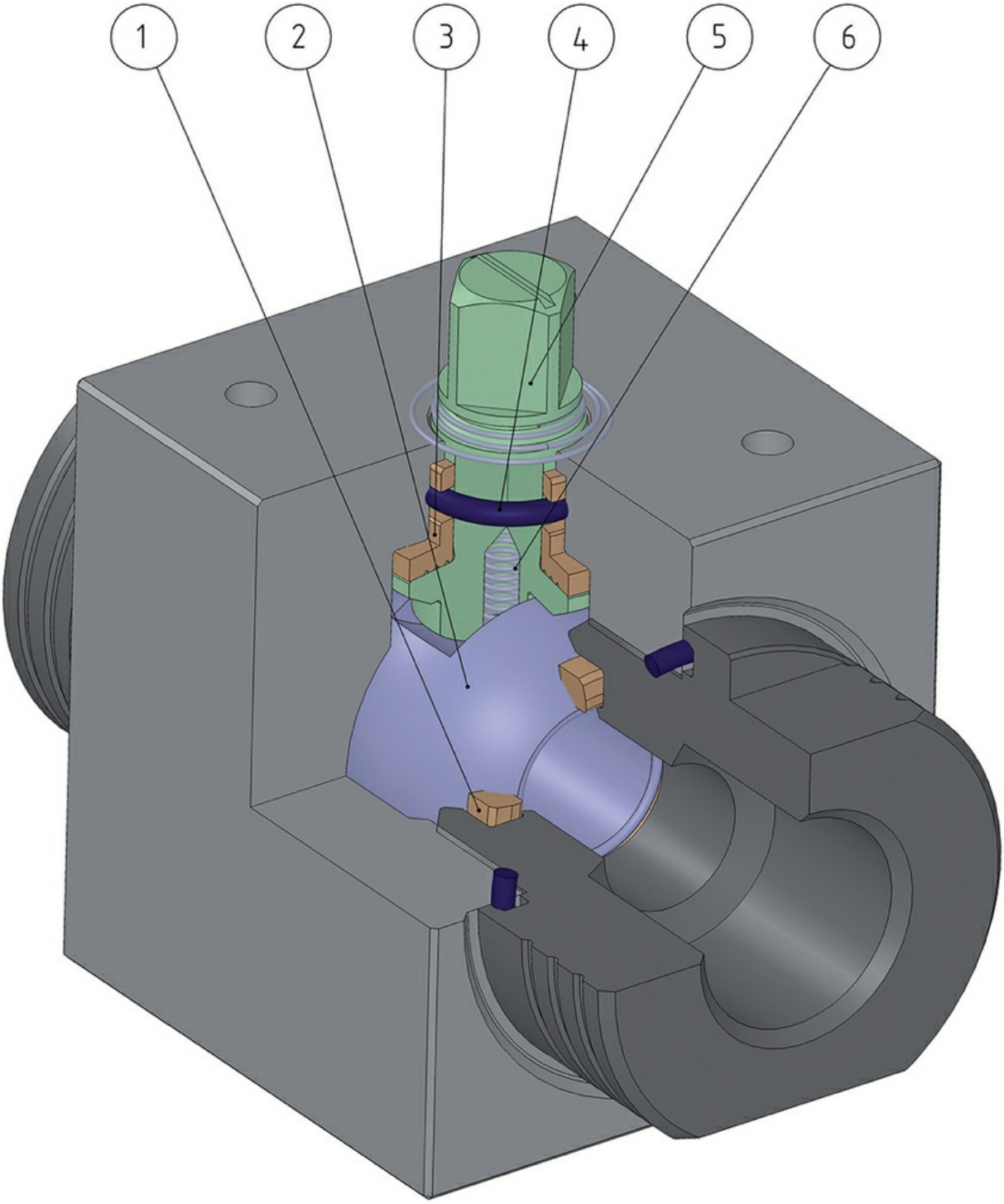

1. Seat in "EXTREME"**
Less wear comparing with not modify seat.
High resistance to stress.

2. Stainless steel ball, coated with 40µm Hard Chrome
Longer seal life due to the low wear of the ball.

3. “POWERAMMIDE”* stem bush
It grants a perfect alignment of the shaft on the body and prevents oscillations with high pressure.
No seizing.
High number of cycles.

4. Elastomer O-Ring with a hardness of 90 Shore A
No deterioration with quick operations.

4. Low-permeability O-ring "Rapid Gas Decompression"
Good resistance to explosive decompression.

5. Stem in 17-4 PH H900
Increased mechanical strenght about 5 times more compared to a standard 316 S.S.

5. Shaft rolling
Less wear of the seals due to the low roughness (0,4 micron Ra) which facilitate the sliding of the shaft

6. Antistatic device (electrical continuity between ball, stem and body)
Static electricity is avoided which can cause sparks and fire in an inflammable/explosive environment.
Contact safety throughout the entire life of the valve.

Fire safe design
Guarantees the tightness of the valve also in case of fire.

Atex Certificate
Installation is possible in a potential explosive environment

UP to SIL 3 certified
Guarantee of the high level of functional safety

*Blend of polymers and aramid filler
**Aromatic polyamide long chemical structure

features

GENERAL FEATURES:

- Ends: Threaded ends EN ISO 228 o NPT
- Working temperature: from -20°C to +100° with NBR Oring, from -20°C to +160°C with FKM Oring (on request)
- Working pressure: DN6, DN8, DN10, DN15 PN500/7000 psi - DN20 e DN25 PN400/6000 psi
- Working media: self-lubricating fluids (liquid and gaseous), provided they are compatible with the construction materials. For non-selflubricating fluids (water, ...) or other applications, contact our sales department.
- Antistatic device.
- Fire safe design.

SPECIAL EXECUTION ON REQUEST:

For other applications, please contact our technical department.

CERTIFICATIONS:

- ATEX version in conformity with European Directive 2014/34/EU.
- ATEX certificate on request.
- Safety integrity level up to SIL 3 according to the IEC 61508.
- In compliance with European Directive 2014/68/EU PED.

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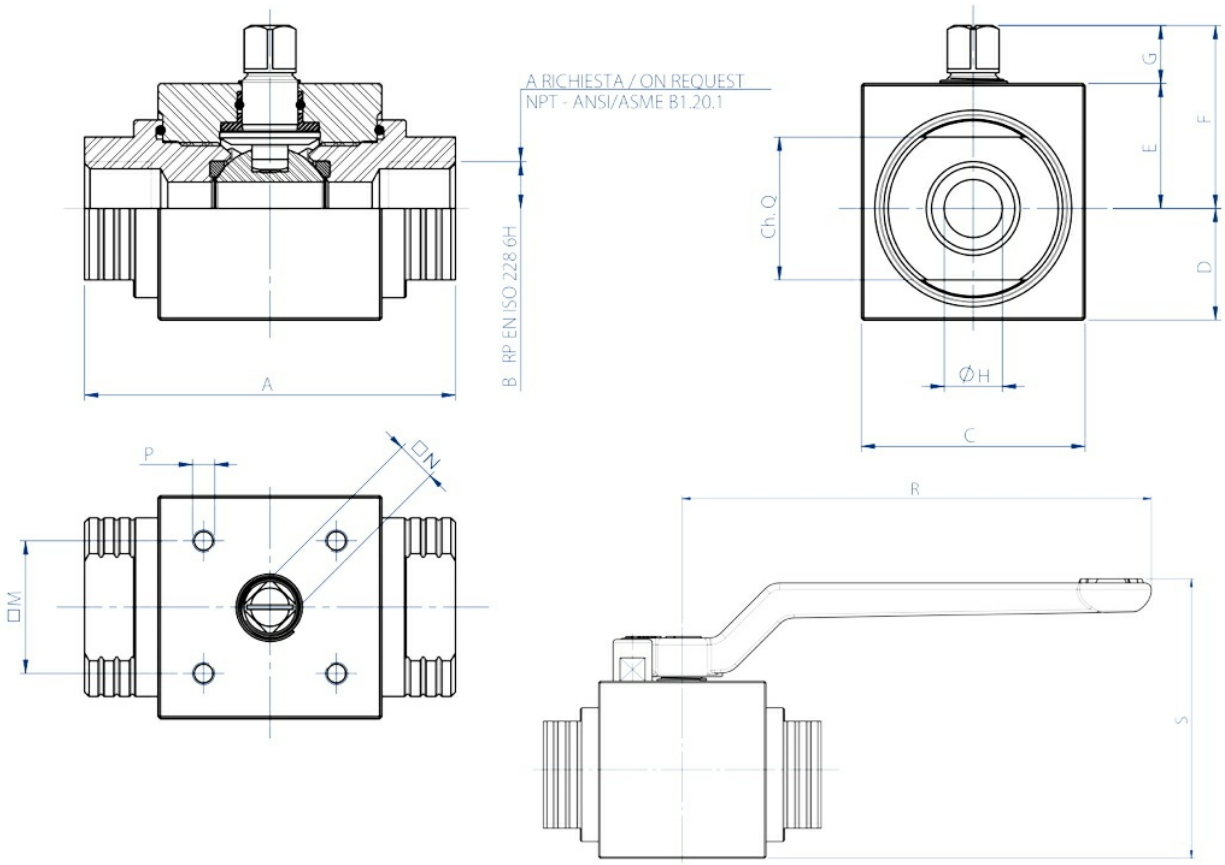
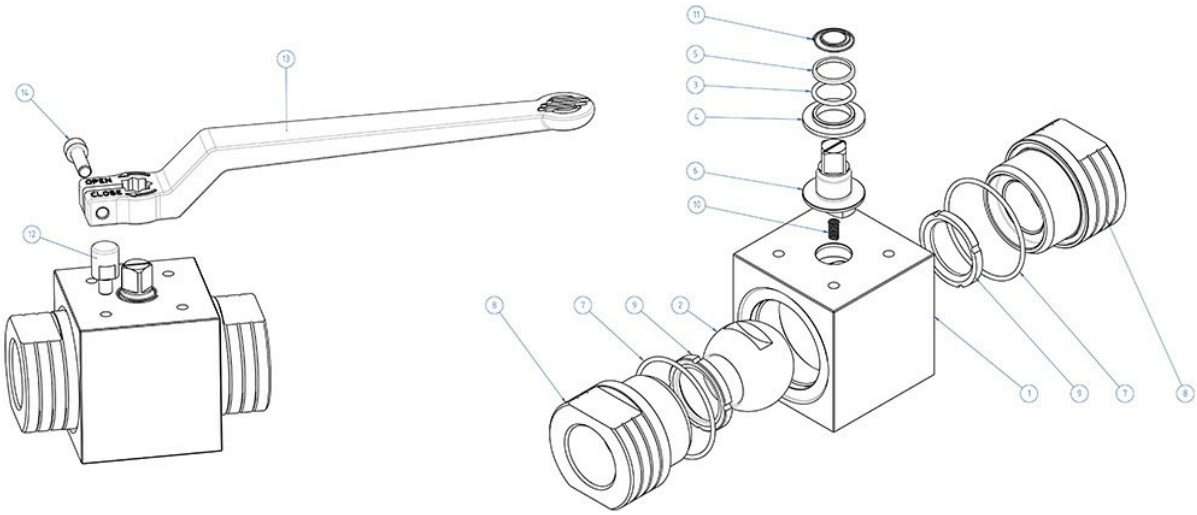
dimensions



DIMENSIONS															
SIZE		A	B	C	D	E	F	G	ØH	Ch.Q	▫M	▫N	P	R	S
DN [mm]	[inch]														
DN 6	1/8"	69	1/8"	30	13	17	27	10	6	19	21x30	6	M5	103,5	56,1
DN 8	1/4"	69	1/4"	30	13	17	27	10	6	19	21x30	6	M5	103,5	56,1
DN 10	3/8"	72	3/8"	45	19,7	25,3	38,3	13	9	24	29,7 (F04)	9	M5	140	75,5
DN 15	1/2"	83	1/2"	50	25	28	41	13	13	32	29,7 (F04)	9	M5	140	83,6
DN 20	3/4"	95	3/4"	55	27,5	31	46	15	19	37	35,36 (F05)	11	M6	212	94,8
DN 25	1"	113	1"	65	32,5	35	50	15	25	45	35,36 (F05)	11	M6	212	103,8

materials



MATERIALS		
1	Body	≤DN25: 1.0737 (11SMnPb37);
2	Ball	A217 CA15 / A479 tp. 410 / A182 F6A + Hard chromium plated
3*	O-ring	NBR (FKM on request)
4*	wer bush	Modified nylon PA66
5*	Upper bush	Modified nylon PA66
6	Stem	A564 Tp 630 (17-4 PH)
7*	O-ring	NBR (FKM on request)
8	Ends	≤DN25: 1.0737 (11SMnPb37) / ASTM A350 LF2;
9*	Seats	DEVLON
10	Antistatic device spring	1.4310 - X12CrNi17-7
11	Upper antistatic device spring	1.4310 - X12CrNi17-7
12**	Holder screw	X5CrNiMo1713 - 316 S.S.
13**	Lever	EN AB 46100 - AL SI 11 CU (FE) - Painted
14**	Screw	A2 - 70
* Seals kit components ** Lever kit components		

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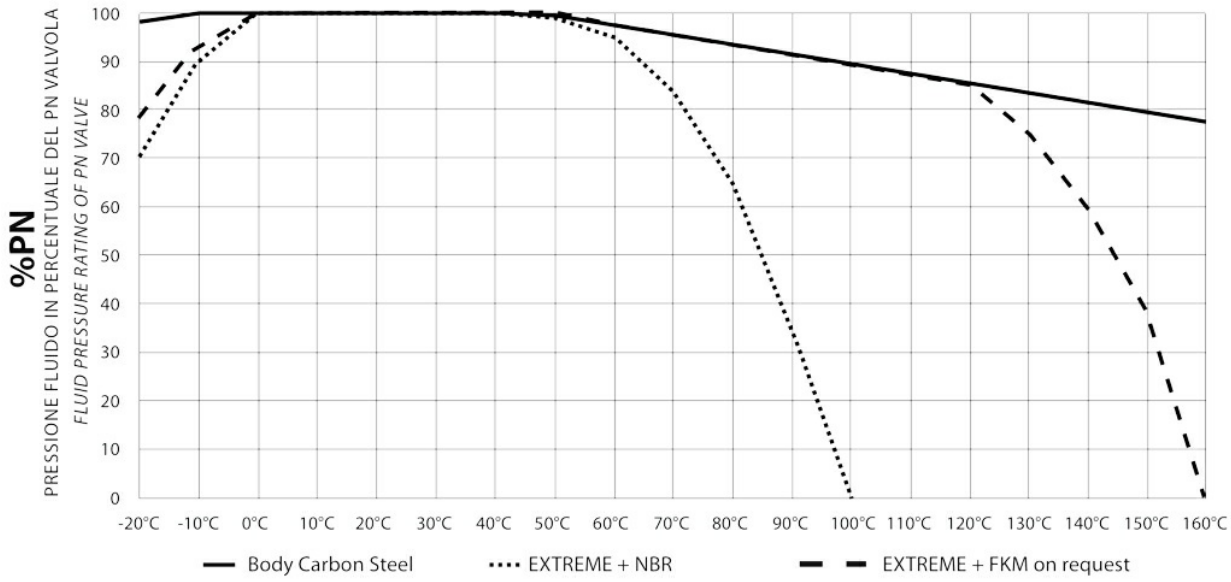
diagrams and breakaway torque

PRESSURE/TEMPERATURE DIAGRAM



DN6, DN8, DN10, DN15	PN500/7000 psi
DN20 e DN25	PN400/6000 psi

BREAKAWAY TORQUES Nm						
PN	DN 6 1/8"	DN8 1/4"	DN 10 3/8"	DN 15 1/2"	DN 20 3/4"	DN 25 1"
PN 500 bar	10		18	20		
PN 400 bar					31	40
Torque can vary depending on temperature and type of fluid, a safety factor 1.4 must be applied.						

FLOW RATE KV m^3/h					
KV m^3/h	5,2	11	20	60	100
Kv is the coefficient, expressed in m^3/h (with water at 15°C) causing a pressure loss of 1 bar.					

documents

Certificati

SIL IEC 61508 - HERCULES
ATEX - Ball Valves

Istruzioni

ISTRUZIONI ATEX 8_0486
ISTRUZIONI USO 8_1095

Manuali

MANUALE UMAH1000