



technische import

Produkt informatie



AUTOMATION

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BALL VALVES

Hercules - High pressure

Carbon steel ball valve - manual operated

features

features & benefits

diagrams and flow rate

codes, dimensions and materials



Features

General features

Threaded ends EN ISO 228 or NPT

Working temperature: -20°C +100°C with NBR Oring

-20°C +130°C with FKM Oring (on request)

Working pressure: PN500/7000 psi DN6, DN10, DN15

PN400/6000 psi DN20 e DN25

PN320/4500 psi DN32, DN40, DN50

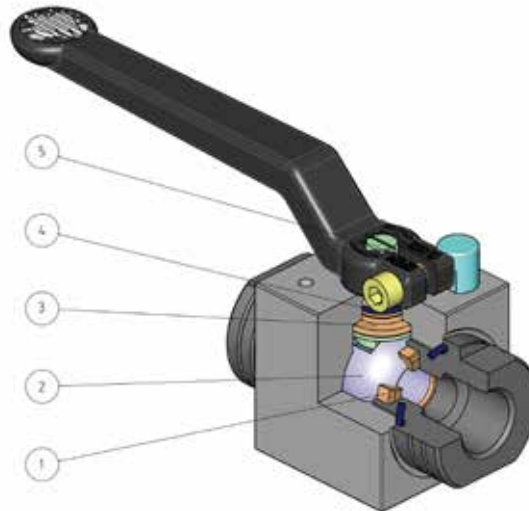
Fluid range: Different fluids, liquid and gaseous, compatible with the constituent materials

Special execution on request

For other applications, please contact our technical department

Approvals

PED CE1115 version for size \geq DN32

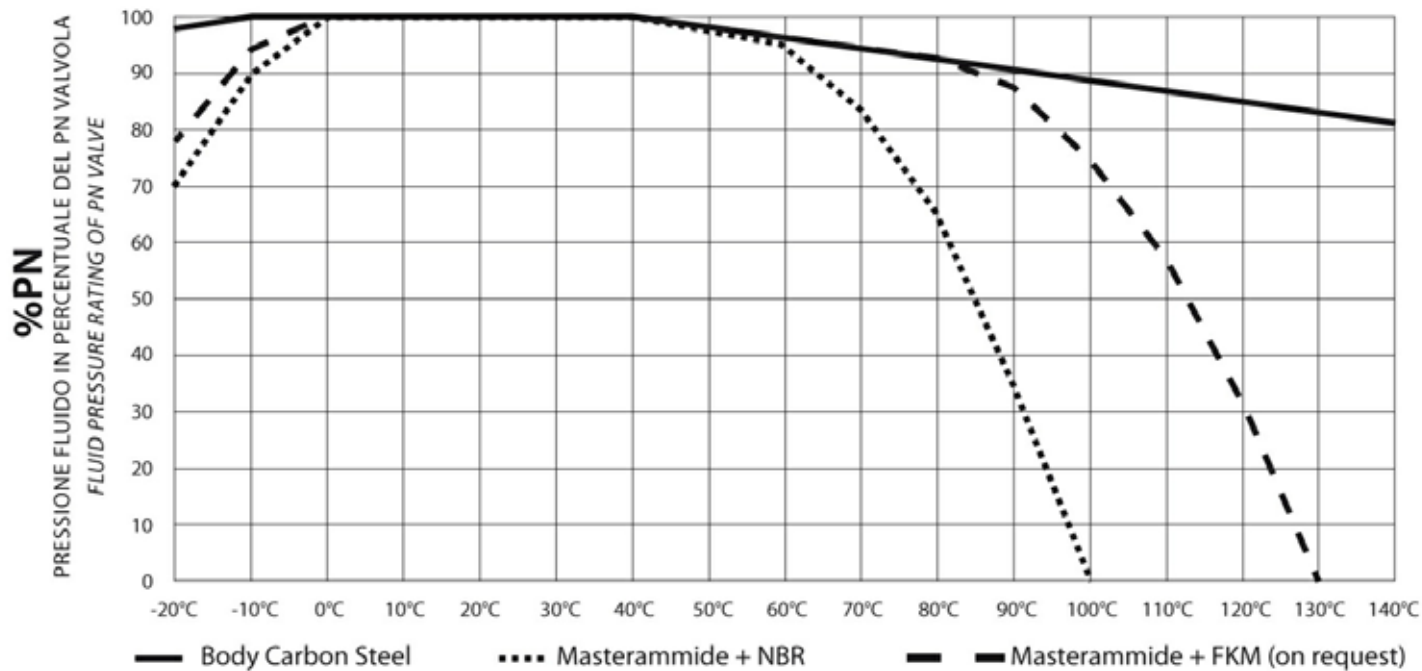


1	Seat in "MASTERAMMIDE**"	Less wear comparing with not modify seat High resistance to stress
2	Stainless steel ball, coated with 40µm Hard Chrome	Longer seal life due to the low wear of the ball
3	"MASTERAMMIDE**" stem bush	It grants a perfect alignment of the shaft on the body and prevents oscillations with high pressure No seizing
4	Elastomer O-Ring with a hardness of 85 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 AISI 316
5	Shaft rolling	Less wear of the seals due to the low roughness (0,4 micron Ra) which facilitate the sliding of the shaft
	PED Certificate	Full compliance with European safety standards for pressure equipment (for DN> 25)

*Blend of polymers and aramid filler

diagrams and flow rate

Pressure/temperature diagram



DN6, DN10, DN15	PN500/7000 psi
DN20 e DN25	PN400/6000 psi
DN32, DN40, DN50	PN320/4500 psi

Flow rate KV m ³ /h									
size	DN 6 1/8"	DN8 1/4"	DN 10 3/8"	DN 15 1/2"	DN 20 3/4"	DN 25 1"	DN 32 1 1/4"	DN 40 1 1/2"	DN 50 2"
KV m ³ /h	5,2		11	20	60	100	130	170	280

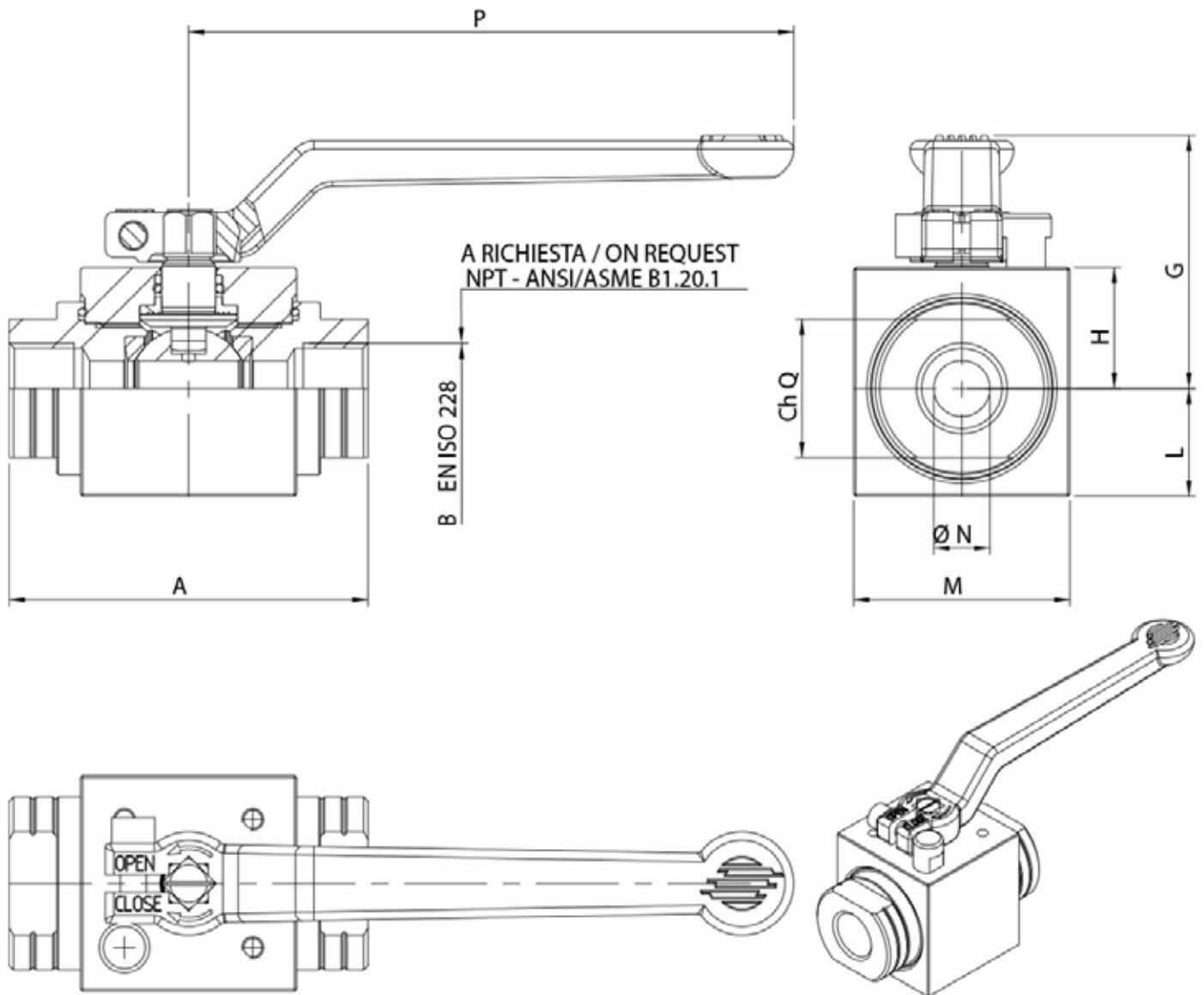
Kv is the coefficient, expressed in m³/h (with water at 15°C) causing a pressure loss of 1 bar.

codes, dimensions and materials

CODES TABLE

size	DN 6 1/8"	DN 8 1/4"	DN 10 3/8"	DN 15 1/2"	DN 20 3/4"	DN 25 1"	DN 32 1"1/4	DN 40 1"1/2	DN 50 2"
with lever - ISO228 version	LHM5AAAAA01	LHM5AAAAA02	LHM5AAAAA03	LHM5AAAAA04	LHM5AAAAA05	LHM5AAAAA06	LHM6AAAAA07	LHM6AAAAA08	LHM6AAAAA09
with lever - NPT version	LHM5AAAAA41	LHM5AAAAA42	LHM5AAAAA43	LHM5AAAAA44	LHM5AAAAA45	LHM5AAAAA46	LHM6AAAAA47	LHM6AAAAA48	LHM6AAAAA49
Lever kit	KLVVH501	KLVVH501	KLVVH503	KLVVH503	KLVVH505	KLVVH505	KLVVH507	KLVVH507	KLVVH509
weight Kg.	0,31	00.30	0,68	1,12	1,45	2,34	3,13	5,13	9,22

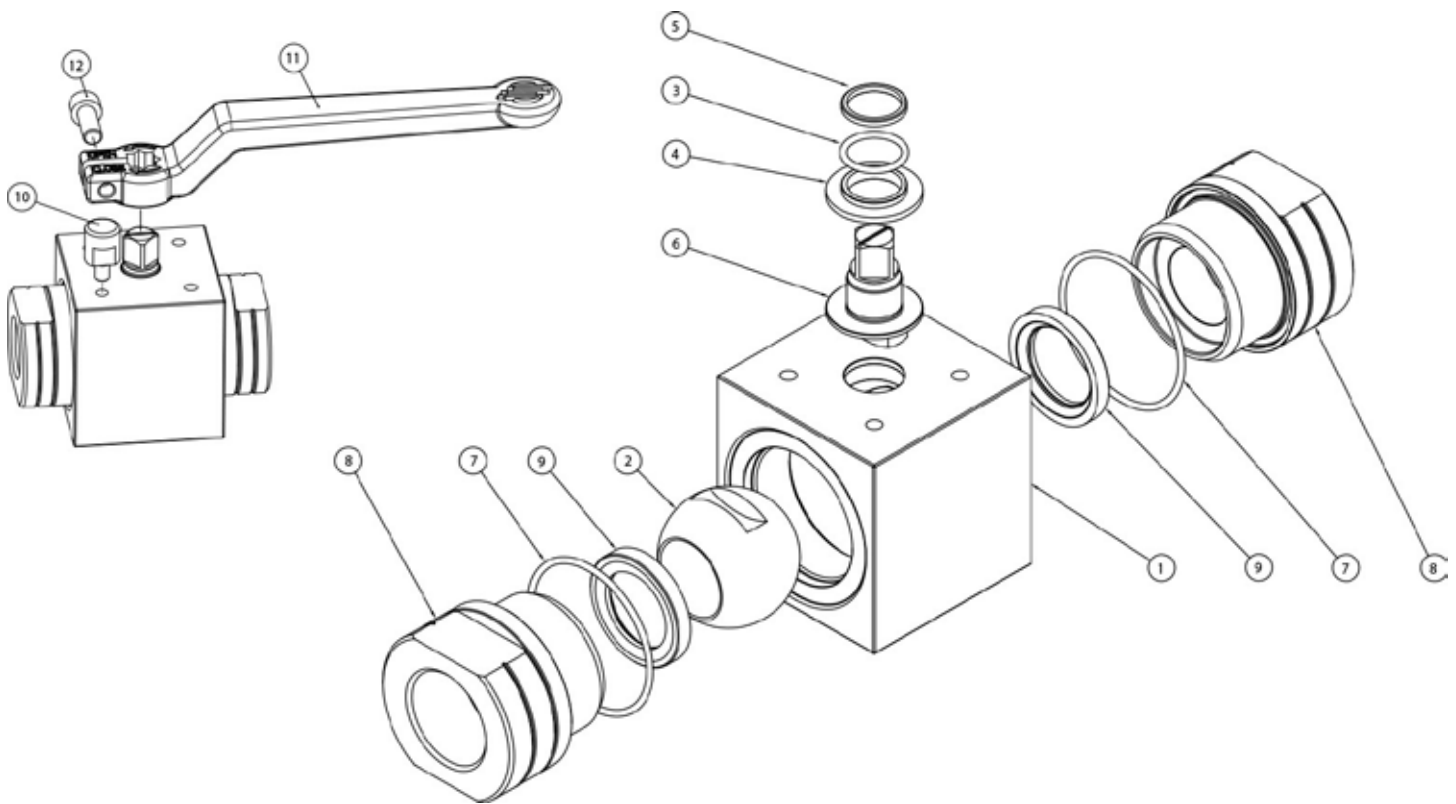
A = Standard line with NBR O-ring. – with FKM O-ring on request, letter V



DIMENSIONS TABLE

Size	A	B	G	H	L	M	N	P	Ch.Q
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DN 6 - 1/8"	69	1/8"	43,1	17	13	30	6	103,5	19
DN 8 - 1/4"	69	1/4"	43,1	17	13	30	6	103,5	19
DN 10 - 3/8"	72	3/8"	55,8	25,3	19,7	45	9	140	24
DN 15 - 1/2"	83	1/2"	58,6	28	25	50	13	140	32
DN 20 - 3/4"	95	3/4"	67,3	31	27,5	55	19	212	37
DN 25 - 1"	113	1"	71,3	35	32,5	65	25	212	45
DN 32 - 1"1/4"	111	1"1/4"	83,6	42	38	80	32	315	55
DN 40 - 1"1/2"	130	1"1/2"	87,6	46	44	90	38	315	65
DN 50 - 2"	140	2"	102,7	61	59	120	51	315	80



MATERIALS TABLE

1	Body	≤DN25: 1.0737 (11SMnPb37); ≥DN32: 1.0577 (S355J2)
2	Ball	A217 CA15 + Hard chromium plated
3	O-ring	NBR (FKM on request)
4	Lower bush	MASTERAMMIDE (Blend of polymers and aramid filler)
5	Upper bush	MASTERAMMIDE (Blend of polymers and aramid filler)
6	Stem	AISI630 (17-4 PH)
7	O-ring	NBR (FKM on request)
8	Ends	≤DN25: 1.0737 (11SMnPb37); ≥DN32: 1.0577 (S355J2)
9	Seats	MASTERAMMIDE (Blend of polymers and aramid filler)
10*	Holder screw	X5CRNIM01713 - AISI316
11*	Lever	EN AB 46100 - AL SI 11 CU (FE)
12*	Screw	A2 - 70

* Kit lever components