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VALVE DRIVE FLOW

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CAST IRON FULL BORE BALL VALVE

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Fig. Q41

* Two-piece structural cast iron valve body; full bore design.
* Floating seat, spherical seat, floating ball, adaptive sealing.
* With fireproof design, it can be used for fire protection pipelines.
* Valve seat adopts a symmetrical design. The switch, installation, sealing, and pressure are non-directional.
* The stem has a wear-resistant bushing design to ensure low torque and long life. Self-tightening upper seal is designed to ensure that the valve stem does not leak under high pressure.
* Standard ISO5211 upper flange.
* The sphere is treated by solution treatment or hard chrome plating to ensure reliable material stability and surface wear resistance, improving sealing performance and service life.
* Handle with position lock design, convenient to install.

Operation:

Rely on the rotating handle to make the valve open or closed.
Light in weight,small in size,the ball valve switch can be made into a large diameter,reliable in sealing,simple in structure, convenient in maintenance.
Sealing surface and spherical surface are often closed,and is not easily eroded by the medium,thus,it is widely used in various industries.

Application:

Heat system | Air conditioning system | Water system | Industry system

Agricultural system | Gas system | Fire fighting system

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Design Standard :

Face to Face:DN15-DN100 EN558 F4,DN125-DN250 EN558 F5
Flange Drilling:EN 1092 ;ANSI Bl6.5#150
Design Standard:EN 1983,EN13445,ISO 5211
Test Standard:ISO5208 API598

Technical Specification:

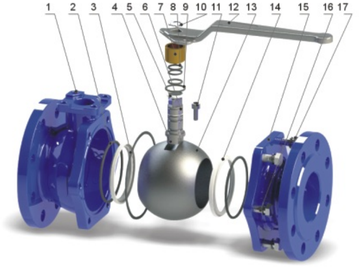
Temperature:0° C~120° C
Pressure:6Bar;10Bar;16Bar;25Bar
Media: Water, Gas, Oil

Yes: Installed in the center and end of the pipeline and can be opened frequently. Full-bore design, effectively reduces fluid disturbances and head loss.Standard ISO5211 top flange. A variety of operators can be connected.
No: Do not use in steam systems and flow regulation.

* Operator: Lever for DN15-DN200 , Worm Gear for DN250
* Fusion bonded epoxy coating, Spray coating optional.

Size Range:

DN15-DN250



No.	Part	Materials	Specification
1	Main Valve Body	Cast Iron Ductile Iron	EN GJL250 EN GJS 500-7
2	O Ring	EPDM/NBR	
3	O-Ring	EPDM/NBR	
4	Stem	Stainless Steel	2CR13/AISI 304/AISI316
5	Packing		
6	Trust Ring-Shaft		
7	Axle Sleeve	Brass Stainless Steel	CuZn40pb2 AISI 304/AISI316
8	O Ring	EPDM/NBR	
9	O-Ring	EPDM/NBR	
10	Spring Ring		
11	Bolt	Zinc Steel	
12	Handle	Cast Steel	
13	Ball	Stainless Steel	2CR13/AISI 304/AISI316
14	Seat	PTFE	
15	Auxiliary Valve Body	Cast Iron Ductile Iron	EN GJL250 EN GJS 500-7
16	Washer	PTFE	
17	Bolt	Zinc Steel	

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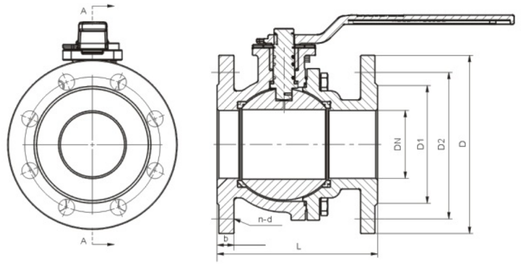
Fig. Q41



Dimensions(mm)

Size (DN)	EN 558-1	EN 1092-2：1997-PN6/PN10/PN16														
	L	D			D1			D2			b		n-d			Top flange/Stem top square
		PN6	PN10	PN16	PN6	PN10	PN16	PN6	PN10	PN16	PN6	PN10/16	PN6	PN10	PN16	
15	115	80	95		55	65		38	46		12	14	4-11	4-14		F4/9
20	120	90	105		65	75		48	56		14	16	4-11	4-14		F4/9
25	125	100	115		75	85		58	65		14	16	4-11	4-14		F5/11
32	130	120	140		90	100		69	76		16	18	4-14	4-19		F5/11
40	140	130	150		100	110		78	84		16	19	4-14	4-19		F7/14
50	150	140	165		110	125		88	99		16	19	4-14	4-19		F7/14
65	170	160	185		130	145		108	118		16	19	4-14	8-19		F7/14
80	180	190	200		150	160		124	132		18	19	4-19	8-19		F7/17
100	190	210	220		170	180		144	156		18	19	4-19	8-19		F7/17
125	325	240	250		200	210		174	184		20	19	4-19	8-19		F10/19
150	350	265	285		225	240		199	211		20	19	4-19	8-23		F12/22
200	400	320	340		280	295		254	266	274	22	20	4-19	8-23	12-23	F12/27
250	450	375	395	405	335	350	355	309	319	330	24	22	12-19	12-23	12-28	

* Kindly contact with Hiwa for more available flange drilling information.

Size(DN)	15	20	25	32	40	50	65	80	100	125	150	200	250
Weight(kg)	2.5	3.6	4.5	6.4	8	8.7	11.6	15.8	20.9	37.1	55.4	93.5	210

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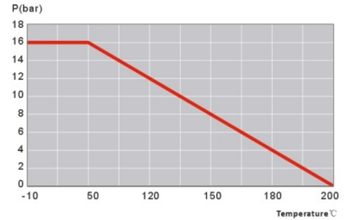
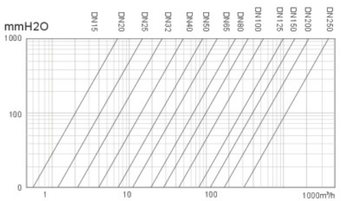
PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED)



HEAD LOSS:

Head Loss Media: Water (1m H_2O = 0.098bar)



FLOW COEFFICIENT Kvs (in m^3/h)

DN	15	20	25	32	40	50	65	80	100	125	150	200	250
Kvs	22.3	47.7	83.5	150.4	255	435	672	947	1508	2633	4261	5957	10510

TORQUE VALUES (in Nm without safety coefficient)

DN	15	20	25	32	40	50	65	80	100	125	150	200	250
Torque (Nm)	6	6	11	12	26	30	50	65	125	250	340	485	810

* Torque can vary depending on temperature and type of fluid; a safety factor of 1.5 must be applied.

Operator Show

Operators can be handle, gearbox ,electric actuator, pneumatic actuator.

*Please contact us for more actuator information. Kindly choose proper operator refering to our data of top flange and stem top.