

FULLY WELDED HEATING BALL VALVE INTRODUCTION

General Description

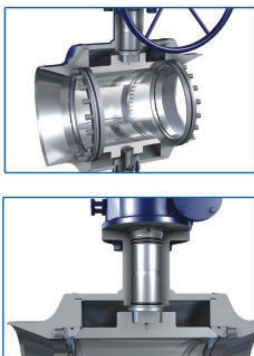
Fully welded heating ball valves are widely used in Urban heating system as an on-off device. The valve body is made of forged steel, high-intensity seamless steel pipes or plates; With floating or trunnion balls; The sealing structure of the valve seats is designed with a multi-sealing structure, ensuring safe, reliable and long-term operation.

Technical Characteristics

1. The valve is fully welded to avoid potential leakage risk between the body and caps.
2. Both the balls and stems are made of high-performance stainless steel, which has good corrosion resistance. The sealing material is FPM and PTFE+C, which has the characteristics of excellent performance. The body material is same as the pipeline in high strength steel, which could prevent uneven stress, also have resistance of deformation in the case of earthquake or vehicle's passing through the upper ground. Any other ends type are also available.
3. Advanced computer tester is applied through the balls' production, to guarantee the high machining precision.
4. The stem is designed to be blow out proof.
5. Compared with similar products in the market, the valve body design is smaller and more cute.

Technical Parameters

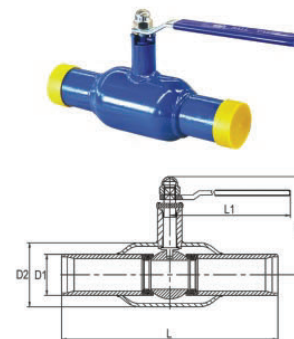
Design standard: GB/T 12237, GB/T 19672, ISO 17292
 Nominal diameter: DN15-DN1400
 Pressure rating: PN16-PN63
 Working temperature: -29°C--+180°C
 Connection: welded, flanged
 Drive mode: electrical, manual, pneumatic, gear, etc
 Inspection standard: JB/T 9092, GB/T 13927, ISO 5208, API 598



REDUCED BORE TYPE

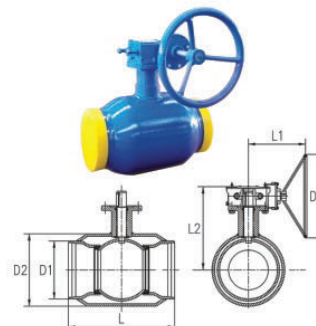
Drive mode--level type

Specification	Model	D1		D2	L	L1	L2
		EN	GOST				
DN15	R15L2N06Q	21.3	21.7	34	210	135	92
DN20	R20L2N06Q	26.9	27.2	42.7	230	135	95
DN25	R25L2N06Q	33.7	34	48.4	230	160	115
DN32	R32L2N06Q	42.4	42.7	60.5	260	160	120
DN40	R40L2N06Q	48.3	48.6	76	260	230	130
DN50	R50L2N06Q	60.3	57	89	300	230	140
DN65	R65L2N06Q	76.1	76	114	300	300	175
DN80	R80L2N06Q	88.9	89	140	300	300	190
DN100	R100L2N06Q	114.3	108	168	325	400	215
DN125	R125L2N06Q	139.7	133	180	325	400	230
DN150	R150L2N06Q	168.3	159	220	350	400	250



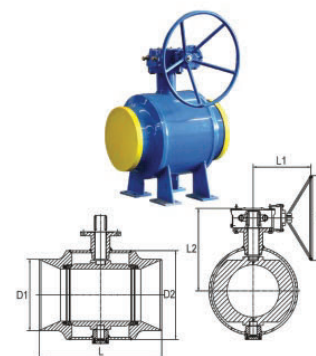
Drive mode--gear box

Specification	Model	D1		D2	D3	L	L1	L2
		EN	GOST					
DN200	R200S2N06Q	219.1	219	273	300	400	250	330
DN250	R250S2N06Q	273	273	356	400	560	290	400
DN300	R300S2N06Q	323.9	324	457	500	640	330	480



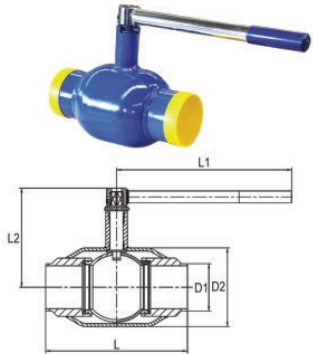
Drive mode--gear box

Specification	Model	D1		D2	D3	L	L1	L2
		EN	GOST					
DN350	R350S2N06Q	355.6	377	508	500	650	330	540
DN400	R400S2N06Q	406.4	426	560	560	762	390	550
DN450	R450S2N06Q	457.2	478	560	560	842	390	550
DN500	R500S2N06Q	508	530	660	630	910	460	650
DN600	R600S2N06Q	610	630	812	700	1067	480	770
DN700	R700S2N06Q	711	720	1016	700	1346	600	880
DN800	R800S2N06Q	813	820	1130	800	1524	630	960
DN900	R900S2N06Q	914	920	1246	900	1585	670	1110
DN1000	R1000S2N06Q	1016	1020	1416	900	1750	670	1185
DN1200	R1200S2N06Q	1219	1220	1576	1000	2050	890	1295
DN1400	R1400S2N06Q	1422	1422	1880	1000	2250	1000	1520



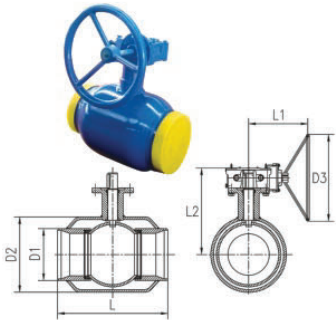
FULL BORE WELDED TYPE

Drive mode--level type



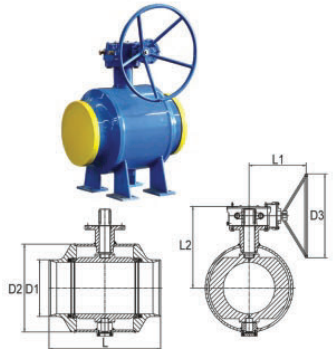
Specification	Model	D1		D2	L	L1	L2
		EN	GOST				
DN15	F15L2N06Q	21.3	21.7	42.7	230	135	95
DN20	F20L2N06Q	26.9	27.2	48.4	230	160	115
DN25	F25L2N06Q	33.7	34	60.5	260	160	120
DN32	F32L2N06Q	42.4	42.7	76	260	230	128
DN40	F40L2N06Q	48.3	48.6	89	300	230	140
DN50	F50L2N06Q	60.3	57	114	300	300	175
DN65	F65L2N06Q	76.1	76.3	140	300	300	190
DN80	F80L2N06Q	88.9	89	168	325	400	220
DN100	F100L2N06Q	114.3	108	180	325	400	230
DN125	F125L2N06Q	139.7	133	220	350	400	250
DN150	F150L2N06Q	168.3	159	273	400	700	340

Drive mode--gear box



Specification	Model	D1		D2	D3	L	L1	L2
		EN	GOST					
DN150	F1500S2N06Q	168.3	159	273	300	400	250	330
DN200	F200S2N06Q	219.1	219	356	400	560	290	400
DN250	F250S2N06Q	273	273	457	500	640	330	480

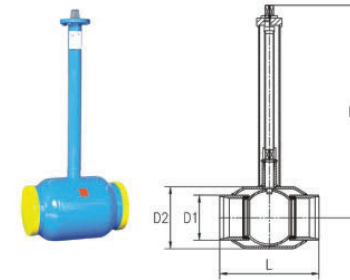
Drive mode--gear box



Specification	Model	D1		D2	D3	L	L1	L2
		EN	GOST					
DN300	F300S2N06Q	323.9	324	508	500	650	330	540
DN350	F350S2N06Q	355.6	377	560	560	762	390	550
DN400	F400S2N06Q	406.4	426	660	630	838	460	650
DN500	F500S2N06Q	508	530	812	700	978	480	770
DN600	F600S2N06Q	610	630	1016	700	1143	600	880
DN700	F700S2N06Q	711	720	1130	800	1346	630	960
DN800	F800S2N06Q	813	820	1246	900	1524	670	1110
DN900	F900S2N06Q	914	920	1416	900	1727	670	1185
DN1000	F1000S2N06Q	1016	1020	1576	1000	1950	890	1295
DN1200	F1200S2N06Q	1219	1220	1880	1000	2250	1000	1520

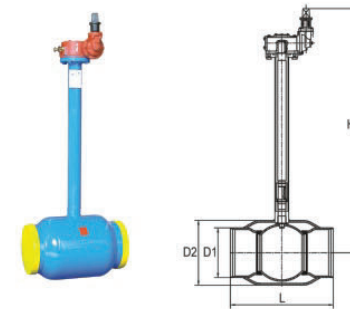
UNDERGROUND REDUCING BORE TYPE

Drive mode--level type



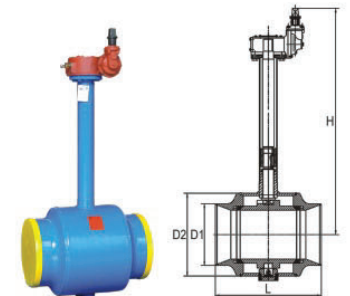
Specification	Model	D1		D2	L	H	
		EN	GOST			Min	Max
DN50	R50L2H06Q	60.3	57	89	300	500	1000
DN65	R65L2H06Q	76.1	76.3	114	300	550	1000
DN80	R80L2H06Q	88.9	89	140	300	550	1000
DN100	R100L2H06Q	114.3	108	168	325	600	1200
DN125	R125L2H06Q	139.7	133	180	325	620	1200
DN150	R150L2H06Q	168.3	159	220	350	760	1200

Drive mode--gear box



Specification	Model	D1		D2	L	H	
		EN	GOST			Min	Max
DN200	R200S2H06Q	219.1	219	273	400	800	1500
DN250	R250S2H06Q	273	273	356	560	840	1500
DN300	R300S2H06Q	323.9	324	457	640	840	1500

Drive mode--gear box



Specification	Model	D1		D2	L	H	
		EN	GOST			Min	Max
DN350	R350S2H06Q	355.6	377	510	650	950	2000
DN400	R400S2H06Q	406.4	426	560	762	1100	2000
DN450	R450S2H06Q	457.2	457.2	560	842	1100	2000
DN500	R500S2H06Q	508	530	660	910	1160	2000
DN600	R600S2H06Q	610	630	812	1067	1300	2500
DN700	R700S2H06Q	711	720	1016	1346	1450	2500
DN800	R800S2H06Q	813	820	1135	1524	1680	3000

FULLY WELDED GAS BALL VALVE



FULLY WELDED GAS BALL VALVE INTRODUCTION

The gas ball valve has adopted the advantages from many well-known producers abroad, to support us to provide more reliable products for the gas industry.

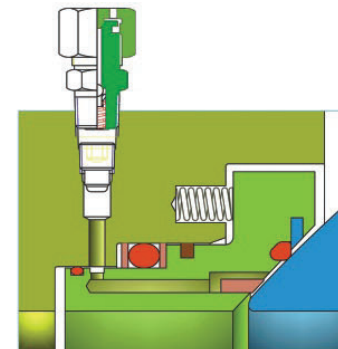
The main welding parts of the valve body adopts two ring welding, there is no cross welding, and be checked with non-destructive testing to ensure the welding quality. And we have got the WPQR from TUV, also the welders.

According to the working temperature and pipeline material, we could provide A105, LF2, LF6 and other materials upon customers' request. And structures as DBB, DBB&DIB-1, DBB&DIB-2 are available.

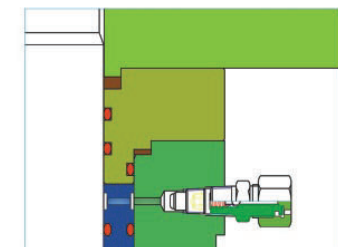
Technical Characteristics

The main welding parts of the valve body adopts two ring welding, there is no cross welding, to assure the welding quality.

- Anti-static design
- Stem with blow-off proof design
- Low operating torque
- Emergency grease injection device(optional)



Grease injection system in seat sealing



Grease injection system in stem sealing

Technical Parameter

Structure length: GB/T 30818, API 6D or as customer demand
 Flange standard: GB/T 9113, HG/T 20592, ASME B16.5, ASME B16.47
 Welding ends: GB/T 12224, ASME B 31.4, ASME B 31.8, ASME B 16.25
 Inspection and test : GB/T 30818, GB/T 26480, API 6D, API 598
 Nominal diameter: DN15-DN1400(NPS 1/2-56)
 Pressure rating: PN16-PN100,CL150-CL600
 Drive mode: level type, worm gear, pneumatic, electric, hydraulic, gas-hydraulic, electro-hydraulic, etc.



Function:

According to the requirements of the medium and the maintenance of pipeline, the valve seats sealing design can be provided in different forms.

DBB&DIB--1: Two bi-directional sealing seats (both the medium pressure and the cavity pressure could provide the thrust from the seats to the ball, to realize a single seat with bi-directional sealing. This type of seat is often referred to as a double piston effect seat), and it is with cavity release function.

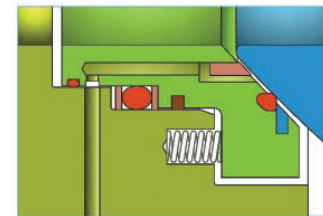
When both seat seals are effective, the valve has DBB function. When the valve get the medium pressure from one side, even if the upstream seat sealing fails, the pressure enters the valve cavity, and the cavity pressure will not push the downstream seat. Instead, it produces a thrust against the downstream seat in the opposite direction of the medium. Both seats provide a double sealing.

DBB&DIB--2: A one-way sealing seat (the one-way seat only stop the upstream side or downstream side of the medium pressure into the valve cavity, but does not ensure that the cavity pressure can be blocked from entering the upstream or downstream side. This type of seat is often referred to as single piston effect seat).

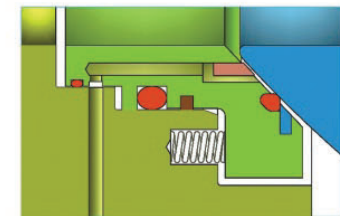
When the cavity pressure is higher than the upper and lower sides, the bi-directional sealing seats could stop the cavity pressure into the pipeline, and the one-way sealing seats can be pushed away from the valve ball by the pressure of the cavity to realize automatic pressure relief.

When the valve is subjected to the medium pressure from one side, even if the upstream seat sealing fails, the pressure enters into the cavity, and the pressure in the cavity could not push the downstream bi-directional sealing seats, but produces a thrust against the downstream seat in the opposite direction of the medium. Both seats provide a double sealing.

DBB: Two one-way sealing seats, with cavity release function. When both seat seals are effective, the valve has DBB function. ; When the cavity pressure is higher than the upper and lower sides, the one-way sealing seats can be pushed away from the valve ball by the pressure of the cavity to realize automatic pressure relief.



Double piston effect valve seat structure



Single piston effect valve seat structure

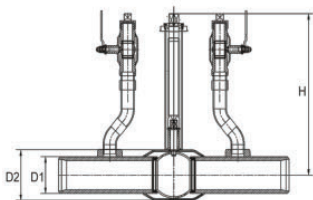
UNDERGROUND WITH DOUBLE EXHAUST BALL VALVE



Drive mode--level type

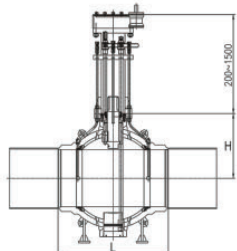
Specification	Model	D1		D2	H		Exhaust Valve
		EN	GOST		Min	Max	
DN50	F50L2H27F	60.3	57	114	520	1000	DN25
DN65	F65L2H27F	76.1	76.3	140	550	1200	
DN80	F80L2H27F	88.9	89.1	169	550	1200	
DN100	F100L2H27F	114.3	108	180	600	1200	
DN125	F125L2H27F	139.7	133	220	640	1200	

Note: Below DN25, the exhaust valve is DN25.



Drive mode--gear box

Specification	Model	L	H
DN150	F150C2H27H27F	457	220
DN200	F200C2H27H27F	521	265
DN250	F250C2H27H27F	559	300
DN300	F300C2H27H27F	635	340
DN350	F350C2H27H27F	762	370
DN400	F400C2H27H27F	838	410
DN450	F450C2H27H27F	914	458
DN500	F500C2H27H27F	991	500
DN600	F600C2H27H27F	1143	585
DN700	F700C2H27H27F	1346	630
DN800	F800C2H27H27F	1524	695

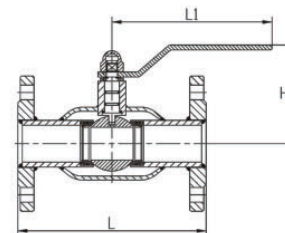


OTHER ENDS

Our company can provide other connecting end welding valves according to different working conditions: flange type, thread type, sleeve welding type, etc.



Fully welded flanged ball valve
Drive mode--level type



Specification	Model	L	L1	H
DN15	R15L2N04Q	130	135	92
DN20	R20L2N04Q	150	135	95
DN25	R25L2N04Q	160	160	115
DN32	R32L2N04Q	180	160	120
DN40	R40L2N04Q	200	230	128
DN50	R50L2N04Q	216	230	140
DN65	R65L2N04Q	241	300	175
DN80	R80L2N04Q	283	300	188
DN100	R100L2N04Q	305	400	215
DN150	R150L2N04Q	403	400	250



Fully welded flanged floating ball valve
Drive mode--gear box

Specification	Model	L	L1
DN200	F200S2N04Q	502	340
DN250	F250S2N04Q	568	364

Fully welded flanged trunnion ball valve
Drive mode--gear box

Specification	Model	L	L1
DN300	F300S2N04Q	648	470
DN350	F350S2N04Q	762	485
DN400	F400S2N04Q	838	560
DN450	F450S2N04Q	914	610
DN500	F500S2N04Q	991	660
DN600	F600S2N04Q	1143	770