

■ Product Features

Type AH(R),HH,M(R) pumps are cantilevered, horizontal, centrifugal slurry pumps. They are designed for handling abrasive or corrosive slurry in the metallurgical, mining, coal, power, building material and other industrial departments etc.

AH(R),HH are also called heavy duty slurry pumps, are used to transport the strong abrasive high density or low density high head slurry. Under the allowable pressure, the pumps of this type also can be installed in multis series.

HH type pump is mainly used for transport low density high head or high density low abrasive high head slurry.

M(R)is a kind of middle duty slurry pump, used to transport the fine particle size and middle density slurry.

The liner and impeller of AH and M model can be changeable and material can be either anti-abrasive metal or rubber.

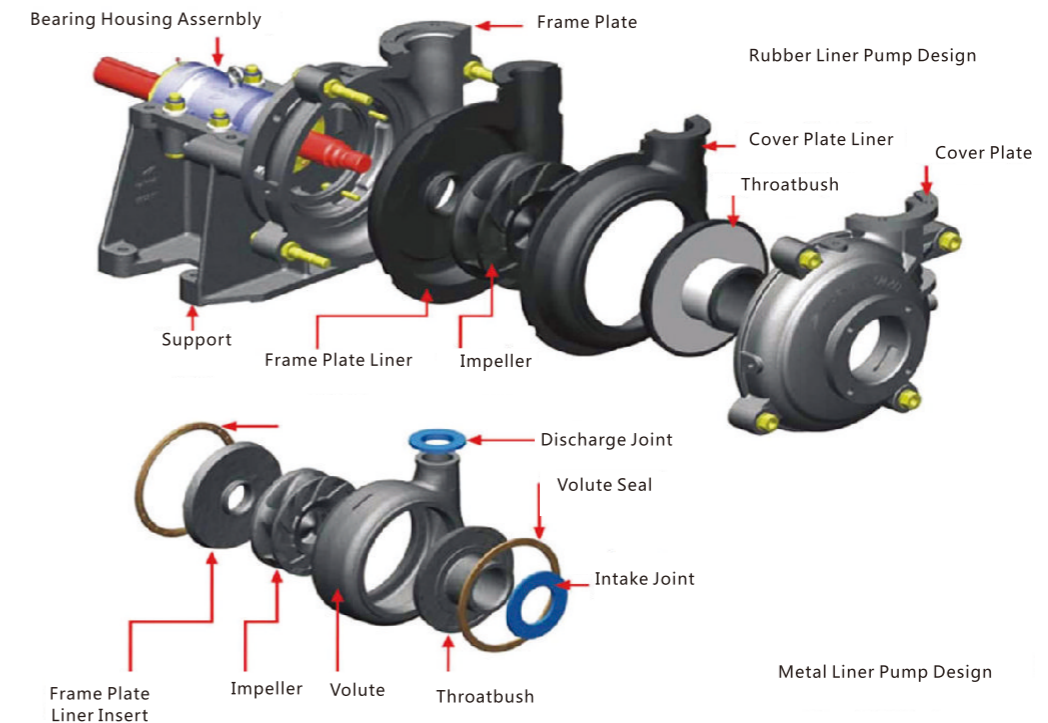
But material of liner and impeller of HH model only can be metal version. Rubber material wet parts are mainly used for transport the slurry which contains fine, non-sharp particle size.

The shaft seals for type AH(R),M(R),and HH pumps can be adoptable of gland seal, expeller seal and mechanical seal.

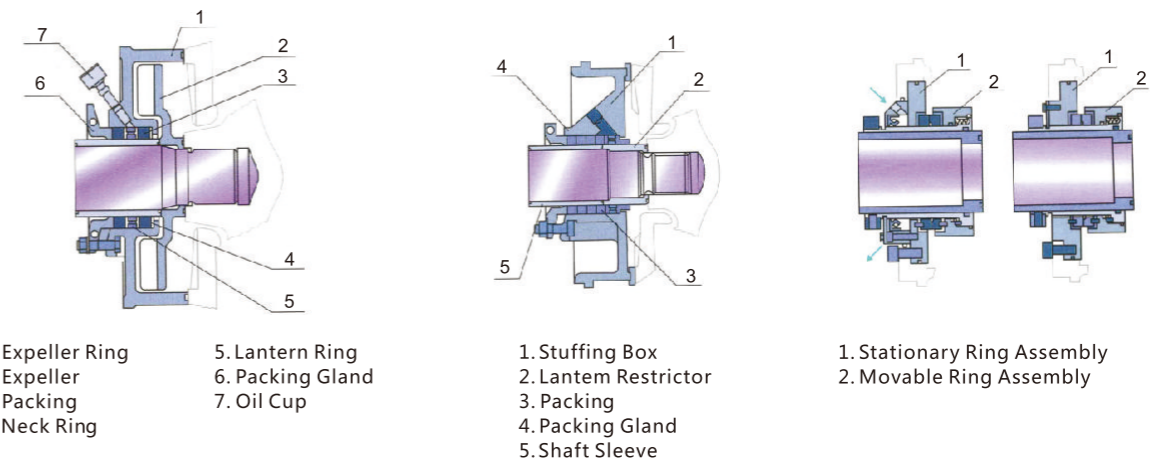
The discharge can be positioned at intervals of 45 degrees by request and oriented to any eight positions to suit installations and applications.



■ Construction Design



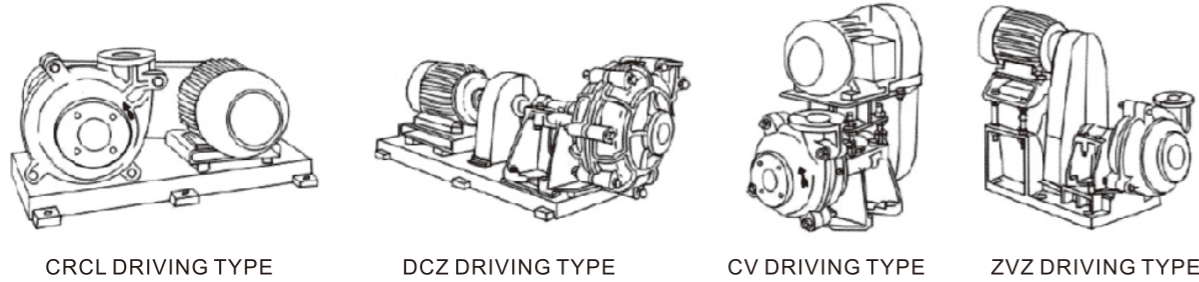
■ Shaft Seal Module Design



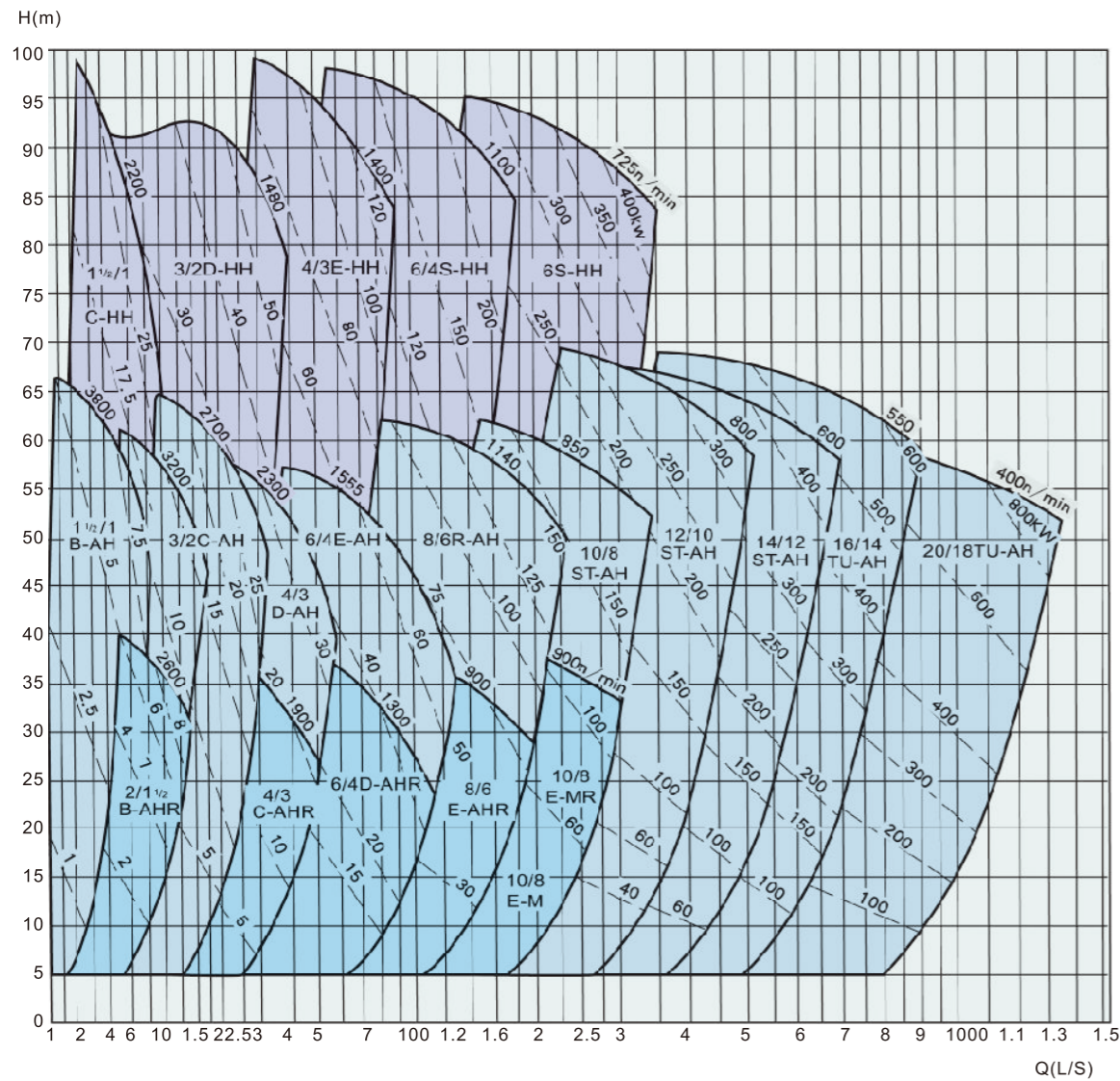
■ Support Type Description

Support Type	A	B	C	D	E	R	F	G	S	T
Allowable Max Power (kw)	7.5	15	30	60	120	300	260	600	560	1200
Support Weight(kg)	17	24	45	77.5	154	228	555	1006	546	1156
Shaft seal water volume (l/s)	0.15	0.25	0.35	0.55	0.70	0.70	0.70	1.20	1.20	1.60

■ Transmission Type



■ AH HH M Selection & Performance Chart



Note: Approximate performance in clear water, just for primary selection only.

■ AH(R)/HH/M(R) Slurry Pump Performance Chart

Pump model	Allowable Max. Power (kw)	清水性能 Clear water performance						
		Capacity Q		Head H (m)	Speed n (r/min)	Max.EFF. (%)	NPSH (m)	Impeller Dia(mm)
		m ³ /h	L/S					
1.5/1B-AH	15	12.6-28.8	3.5-8	6-68	1200-3800	40	2-4	152
2/1.5B-AH	15	32.4-72	9-20	6-58	1200-3200	45	3.5-8	184
3/2C-AH	30	39.6-86.4	11-24	12-64	1300-2700	55	4-6	214
4/3C-AH	30	86.4-198	24-55	9-52	1000-2200	71	4-6	245
4-3D-AH	60	86.4-198	24-55	9-52	1000-2200	71	4-6	245
6/4D-AH	60	162-360	45-100	12-56	800-1550	65	5-8	365
6/4E-AH	120	162-360	45-100	12-56	800-1550	65	5-8	365
8/6E-AH	120	360-828	100-230	10-61	500-1140	72	2-9	510
8/6R-AH	300	360-828	100-230	10-61	500-1140	72	2-9	510
10/8ST-AH	560	612-1368	170-380	11-61	400-850	71	4-10	686
12/10ST-AH	560	936-1980	260-550	7-68	300-800	82	6	762
14/12ST-AH	560	1260-2772	350-770	13-63	300-600	77	3-10	965
16/14TU-AH	1200	1368-3060	380-850	11-63	250-550	79	4-10	1067
20/18TU-AH	1200	2520-5400	700-1500	13-57	200-400	85	5-10	1370
1.5/1B-AH	15	10.8-25.2	3-7	7-52	1400-3400	35	2-4	152
2/1.5B-AH	15	25.2-54	7-15	5.5-41	1000-2600	50	2.5-5	178
3/2C-AH	30	36-75.6	10-21	13-39	1300-2100	55	2-4	213
4/3C-AH	30	79.2-180	22-50	5-34.5	800-1800	59	3-5	245
4-3D-AH	60	79.2-180	22-50	5-34.5	800-1800	59	3-5	245
6/4D-AH	60	144-324	40-90	12-45	800-1350	65	3-5	365
6/4E-AH	120	144-324	40-90	12-45	800-1350	65	3-5	365
8/6E-AH	120	324-720	90-200	7-49	400-1000	65	5-10	510
8/6R-AH	300	324-720	90-200	7-49	400-1000	65	5-10	510
10/8ST-AH	560	540-1188	150-330	12-50	400-750	75	4-12	686
12/10ST-AH	560	720-1620	200-450	7-45	300-650	80	2.5-7.5	762
14/12ST-AH	560	1152-2520	320-700	13-44	300-500	79	3-8	965
16/14TU-AH	1200	1224-2754	340-765	9-43	250-450	82	3-8	1067
20/18TU-AH	1200	2268-4860	630-1350	11-46	200-350	82	2-8	1372
10/8E-M	120	540-1440	150-400	14-60	600-1000	73	4-10	549
10/8R-M	300	540-1440	150-400	14-60	600-1000	73	4-10	549
1.5/1C-HH	30	16.2-34.2	4.5-9.5	25-92	1400-2200	20	2-5.5	330
3/2D-HH	60	68.4-136.8	19-38	25-87	850-1400	47	3-7.5	457
4/3E-HH	120	126-252	35-70	12-97	600-1400	50	2-5	508
6/4F-HH	260	324-720	90-200	30-118	600-1000	64	3-8	711
8/6S-HH	560	468-1008	130-280	20-94	500-1000	65	4-12	711

Remark:

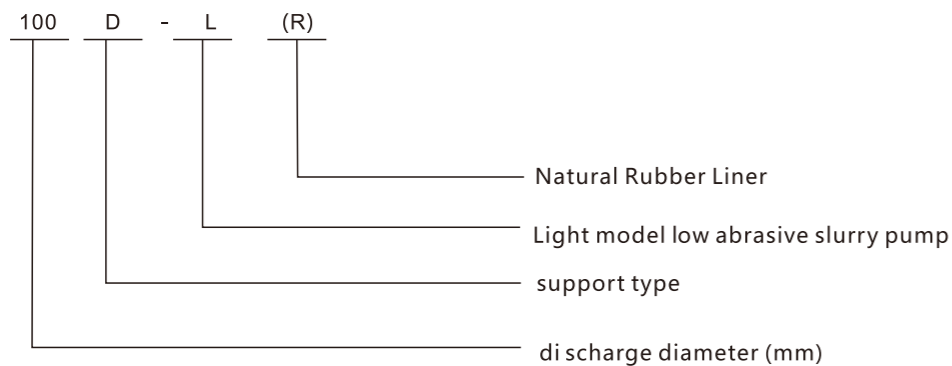
1. Capacity range recommended: $50\%Q \leq Q \leq 110\%Q$ (Q Appropriate to capacity at highest efficiency point).
2. NPSH: appropriate to point Q recommended at highest speed.

■ L Slurry Pump

Type L(R) pumps are cantilevered, horizontal, centrifugal slurry pumps, which are also called light duty slurry pump. They are suitable for delivering low abrasive low density slurry for metallurgical, mining, coal and building material departments. The shaft seal can adopt gland seal, expeller seal or mechanical seal. Type L(R) pumps operate in high speed with small volumes and light weight to save floor area. It is mainly used to transport the slurry which contains fine particle size and weight concentration not more than 30%. The liner and impeller of this pump can be changeable, either with anti-abrasive metal or rubber material.



■ Type Notation



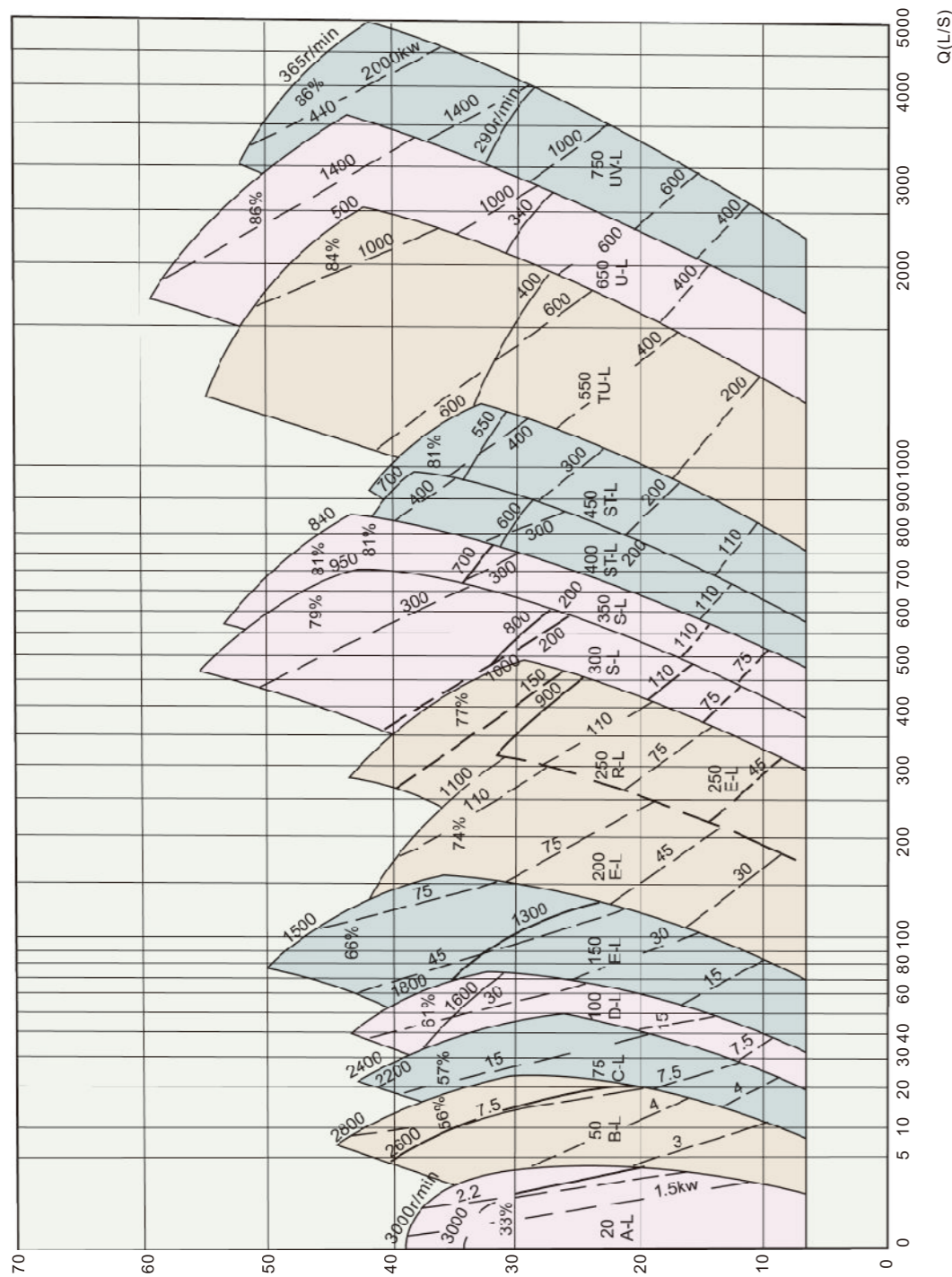
■ L(R) Slurry Pump Performance Chart

Pump model	Allowable Max.Power (kw)	Clear water performance						
		Capacity Q		Head H (m)	Speed n (r/min)	Max.EFF. (%)	NPSH (m)	Impeller Dia(mm)
		m ³ /h	L/S					
20A-L	7.5	2.34-10.8	0.65-3	6-37	1400-3000	40	2.5-3	152.4
50B-L	15	11.5-76	3.2-21.1	8.5-46	1400-2800	62	2.5-5.5	190
75C-L	30	18-151	5-42	4-46.4	900-2400	57	3-6	229
100D-L	60	46.8-324	13-90	7-48.3	800-1800	64	2-6	305
150E-L	120	115-568.8	32-158	10.5-51.8	800-1500	60	2.5-6	381
200E-L	120	234-910	65-235	9.5-40	600-1100	64	3-6	457
250E-L	120	396-1425	110-396	8-30	500-800	77	2-10	550
300S-L	560	468-2538	130-708	8-60	400-950	79	2-10	653
350S-L	560	650-2800	180-780	10-59	400-840	81	3-10	736
400ST-L	560	756-3312	210-920	7-37.5	300-600	85	2-8	825
450ST-L	560	1080-4356	300-1200	9-40	300-550	87	3-10	933
550TU-L	1200	1980-7920	560-2200	10-50	250-475	86	4-10	1213
650TU-L	1200	2520-9108	700-2530	10-55	200-350	86	2-8	1425
50B-L(R)	15	9-61	2.5-17	3-32.4	1200-2600	48	2.75-4.5	190
75C-L(R)	30	28.8-154.8	8-43	9-43	1100-2300	60	3-5	229
100D-L(R)	60	54-288	15-80	12-38	800-1600	65	2.5-5.5	305
150E(R)	120	72-576	20-160	4-38	800-1300	65	2.5-5.5	381
250E(R)	120	396-1425	110-396	8-30	500-800	77	2-10	550
300S(R)	560	432-1900	120-528	7-41	400-800	81	3-8	653
350S(R)	560	720-2844	200-528	10-41	400-700	86	3-7	736
400ST(R)	560	720-3312	200-920	7-51	300-700	80	2-10	835
450ST(R)	560	1008-4356	280-1210	9-48	300-600	80	2-9	933
550TU(R)	1200	1980-7920	560-2200	10-50	250-475	86	4-10	1213
650TU(R)	1200	2520-9108	700-2530	10-39	200-350	86	2-8	1425

Remark:

1. Capacity range recommended: $50\%Q \leq Q \leq 110Q^3$ (Q Appropriate to capacity at highest efficiency point).
2. NPSH: appropriate to point Q recommended at highest speed.

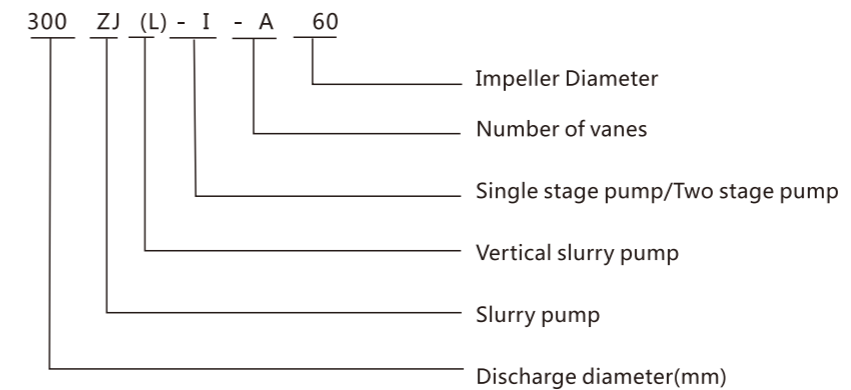
■ Selection & Performance Chart



Note: Approximate performance in clear water, just for primary selection only.

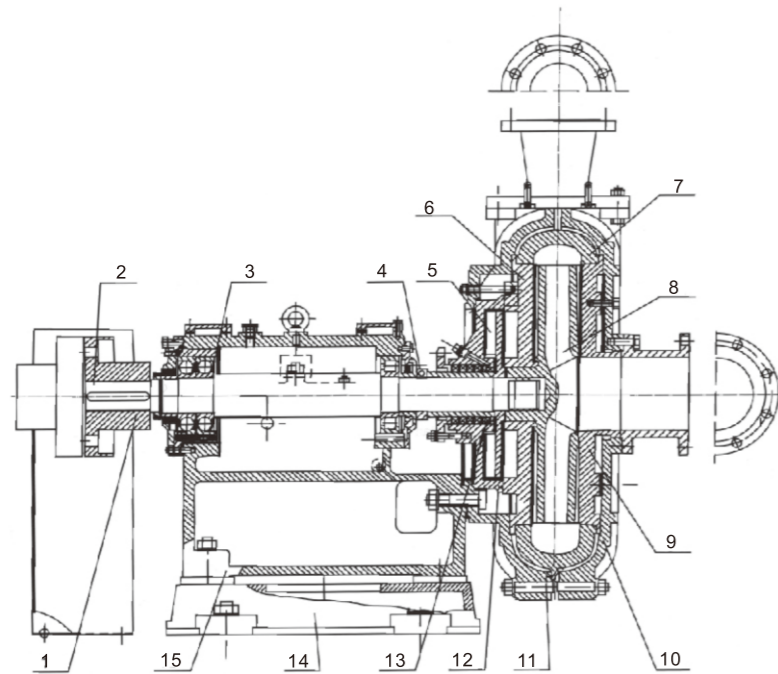
■ Features and Application:

ZJ series slurry pump is designed by our plant, which is a kind of single stage, end suction, centrifugal type pump. The wet part is made of high chrome white iron and has high performance in anti-abrasive, anti-corrosive, anti-shock aspect. This can give pump longer life and economic cost performance. This kind of pump can be divided into two kinds by structure: horizontal(ZJ series) and Vertical(ZJL series). For the horizontal version, the discharge diameter can range from 350mm, 300mm, 250mm, 200mm, 150mm, 100mm, 80mm, 65mm, 50mm, 40mm, etc. For different head, we can choose different impeller to suit or satisfy the head by cutting the impeller. This kind of pump now is widely used in power plant, metallurgy industry, coal washing industry, building industry and chemical industry. Mainly used to transport the abrasive slurry, for example: the concentrate and tail slurry in ore dressing plant, slag handling in power plant, coal mud transportation and heavy medium coal separation, sand transportation in the shore work etc. The max weight concentration of slurry which can process is: 45% mortar slurry, 60% mining slurry. For transmission type, we can use DC, V belt, hydraulic coupling, frequency speed adjusting etc. This kind of pump also can be used in series or in parallel working together.



(symbol)	A	B	C	D	E	F	G	...
(Number of Vanes)	5	4	3	2	1	6	7	...

■ Structural Drawing of ZJ Slurry Pump



1. Coupling	2. Shaft
3. Bearing Housing	4. Disassembly Ring
5. Expeller	6. Frame Plate Liner Insert
7. Volute Liner	8. Impeller
9. T Roatbushing	10. Cover Plate
11. Frame Plate	12. Stuffing Box
13. Lantern Ring	14. Base
15. Support	

■ Seal type :

This kind of ZJ pump can be assembled with two kinds of seal type:

- (1) Expeller and stuffing box combined seal: Expeller seal make use of the pressure which is caused by the impeller and expeller working together to seal. Packing and lip seal do as the parking sealing. We can use this kind of seal in the single stage pump of which the positive pressure in the suction is not bigger with 10% than that in the discharge, or used in the first stage pump in series condition. It can work without the seal water, will not dilution the slurry and sealing performance good. But this can lead to more power consumption (usually need increase 5% of the shaft power).
- (2) Stuffing box packing seal is a kind of popular shaft seal type and used in all kinds of applications, seal material can be PTFE and graphite which can be used in corrosive and high temperature conditions. This seal type has advantages of simple structure and easy maintenance.
- (3) Mechanical seal: this kind of seal adopts the international advanced sealing technology and has good sealing performance. Different structure types can suit different working condition. Friction auxiliary materia is made of high hardness ceramic and alloy material. The design and cooperation between mechanical seal and seal box conform to the flow status of medium which makes seal performance higher capability in anti-resistant and anti-shock, which can make customer satisfied in all kinds of working conditions.

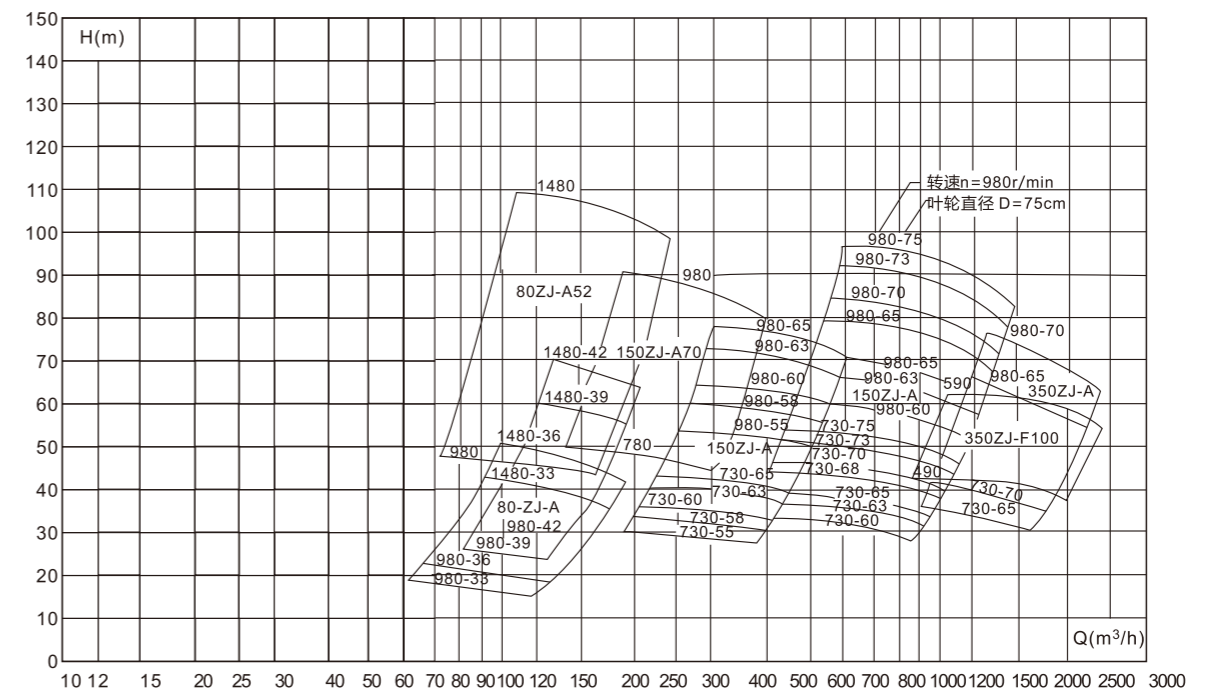
■ Pump Design Features:

Use of inner and outer double layer metal structure.
 Casing middle split vertically.
 Discharge port can be positioned at 8 different positions at an interval of 45°
 Depending on design of bearing housing, Bearing Lubrication can be:
 Thin Oil lubrication for box .
 Grease lubrication for cylinder type.
 Thin Oil or grease lubrication for bearing housing with inserted cover.

■ Impeller

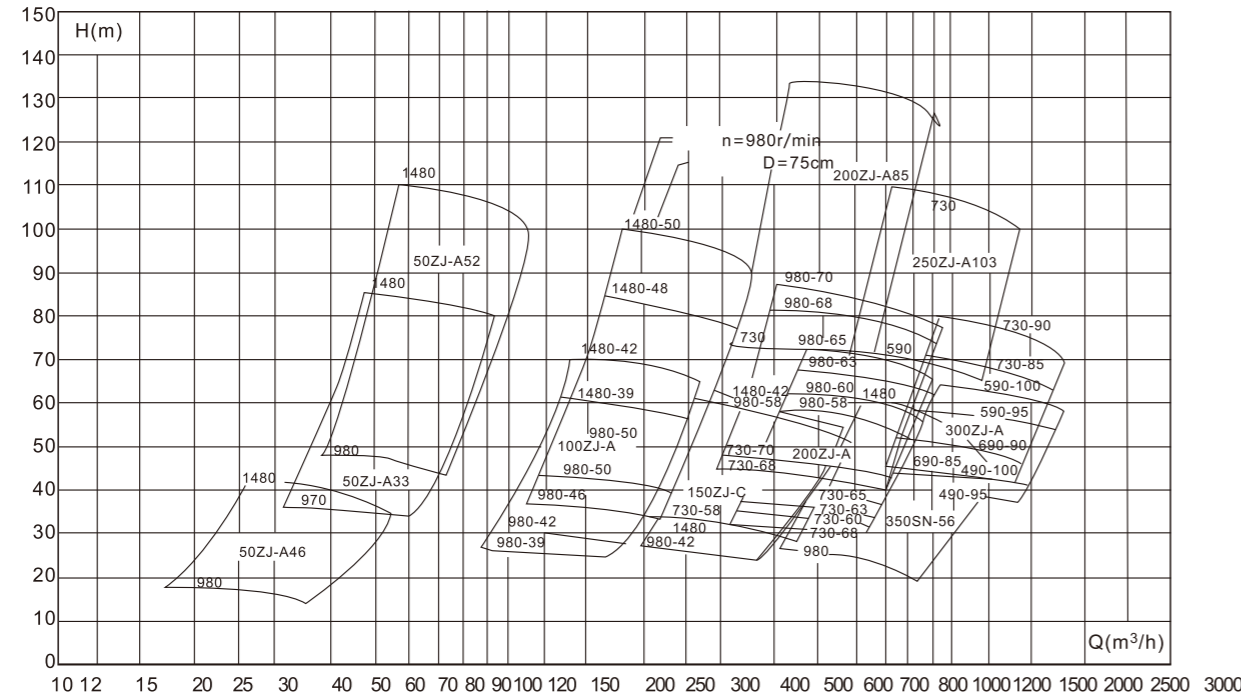
Closed type Impeller: high abrasive resistance, and high efficiency.
 Open type Impeller: the ability of pass is high. When deliver the dirty material, the pump need clear often, this type makes the clear work easily.

■ Selection Chart



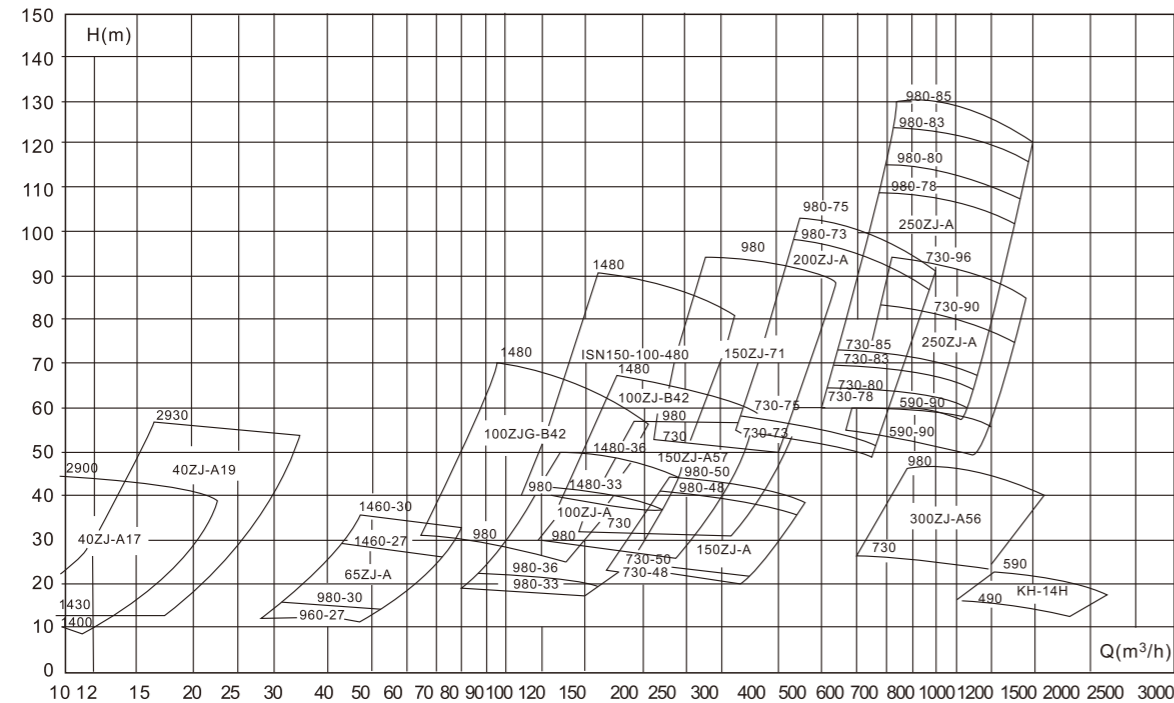
Note: Approximate performance in clear water, just for primary selection only.

Selection Chart



Note: Approximate performance in clear water, just for primary selection only.

Selection Chart



Note: Approximate performance in clear water, just for primary selection only.

Slurry Pump Performance Chart

Pump model	Allowable Max. Power (kw)	Clear water performance					Particle Max. Size Handled Qccasionally (mm)	Pump Weight (kg)
		Capacity Q (m³/h)	Head H (m)	Speed n (r/min)	Max. EFF. (%)	NPSH (m)		
300ZJ-A100	450	464-1826	15.3-65.2	300-590	81.1	3	88	5265
300ZJ-A95	400	441-1735	13.8-58.8	300-590	78.1	3	88	5770
300ZJ-A90	560	505-1844	21.2-79.9	400-730	87.8	3.9	85	5005
300ZJ-A85	450	477-1742	18.9-71.3	400-730	79.8	3.8	85	4965
300ZJ-A70	630	635-2333	16.0-76.8	490-980	80.4	3.9	92	3560
300ZJ-A65	500	589-2166	13.8-66.2	490-980	77.4	3.7	92	3531
300ZJ-A56	250	395-1568	9.7-46.0	400-980	80.9	3.5	96	3030
250ZJ-A103	560	402-1573	29.7-110.5	400-730	74.5	2.8	69	5085
250ZJ-A96	560	403-1466	25.4-93.7	400-730	77.8	3.5	69	5035
250ZJ-A90	450	378-1374	22.3-82.4	400-730	73.8	3.4	69	4980
250ZJ-A85	800	376-1504	30.1-128.7	490-980	76.5	3.5	76	4530
250ZJ-A83	800	367-1469	28.7-122.7	490-980	75.5	3.5	76	4514
250ZJ-A80	710	354-1416	26.7-114.0	490-980	73.5	3.4	76	4490
250ZJ-A78	630	415-1796	21.1-102.5	490-980	71.5	3.2	76	4474
250ZJ-A75	560	300-1480	20.8-97.5	490-980	77.5	3	77	3480
250ZJ-A73	500	292-1441	19.7-92.4	490-980	76.5	3	77	3456
250ZJ-A70	450	280-1381	18.1-84.9	490-980	74.5	2.9	72	3446
250ZJ-A68	450	272-1342	17.1-80.1	490-980	73.5	2.7	77	3437
250ZJ-A65	315	299-1249	15.4-71.0	490-980	76.5	3	72	3020
250ZJ-A63	315	290-1211	14.4-66.7	490-980	75.9	3	77	3008
250ZJ-A60	280	276-1153	13.1-60.5	490-980	73.9	2.8	72	2991
200ZJ-A85	560	221-907	32.0-133.7	490-980	70.5	2.8	54	4110
200ZJ-A75	355	225-900	22.8-102.9	490-980	74.1	3	56	3070
200ZJ-A73	355	219-876	21.6-97.5	490-980	73.1	3	56	3056
200ZJ-A70	315	205-976	19.4-86.4	490-980	75.6	2.8	56	2465
200ZJ-A68	315	199-948	18.3-81.5	490-980	74.6	2.8	56	2453
200ZJ-A65	250	235-950	16.4-72	490-980	79.6	2.5	62	2323
200ZJ-A63	250	228-921	15.4-37.6	490-980	78.6	2.5	62	2311
200ZJ-A60	185	218-870	13.9-62	490-980	83.5	2.5	67	2223
200ZJ-A58	185	211-841	13-57.9	490-980	82.5	2.5	62	2214
150ZJ-A70	185	93-401	20-91.2	490-980	62.1	2	37	2245
150ZJ-A65	200	150-600	17.4-75.7	490-980	70.8	2.5	48	2223
150ZJ-A63	185	146-582	16.3-71.1	490-980	69.8	2.5	48	2211
150ZJ-A60	160	135-550	14.7-63.5	490-980	75.9	2.5	48	2203
150ZJ-A58	132	131-532	13.7-59.3	490-980	74.9	2.5	48	2033

■ Slurry Pump Performance Chart

Pump model	Allowable Max.Power (kw)	Clear water performance					Particle Max.Size Handled Qccasionally (mm)	Pump Weight (kg)
		Capacity Q m ³ /h	Head H (m)	Speed n (r/min)	Max.EFF. (%)	NPSH (m)		
150ZJ-A55	110	124-504	12.3-53.4	490-980	72.9	2.3	48	2019
150ZJ-C58	160	134-596	12.8-61	490-980	69.1	7	75	2063
150ZJ-A57	110	95-427	13.2-56.3	490-980	67.8	1.8	32	2023
150ZJ-A50	75	115-460	9.5-43.1	490-980	76.8	2.5	48	1735
150ZJ-A48	75	111-442	8.7-39.7	490-980	75.8	2.5	48	1728
150ZJ-C42	132	142-550	12.1-62.8	700-1480	77.1	2.2	69	1605
100ZJ-A50	160	85-360	20.5-100.2	700-1480	69.6	2.5	34	1475
100ZJ-A46	132	79-331	17.3-84.8	700-1480	67.6	2.3	34	1461
100ZJ-A42	90	66-275	14.7-70.8	700-1480	71	2.5	35	1075
100ZJ-A39	75	61-255	12.6-61	700-1480	69	2.4	35	1064
100ZJ-B42	90	83-365	12.7-66.8	700-1480	71.6	2.5	40	1085
100ZJ-A36	55	61-245	9.7-49.5	700-1480	71.6	2	32	1010
100ZJ-A33	45	56-225	8.2-41.6	700-1480	69.6	1.8	32	1003
80ZJ-A52	160	51-242	22.1-109.8	700-1480	56.3	2.1	21	1465
80ZJ-A42	75	61-204	14.4-70.4	700-1480	66.7	2.5	24	1053
80ZJ-A39	55	57-189	12.4-60.7	700-1480	64.7	2.4	24	1042
80ZJ-A36	45	46-190	9.6-51.4	700-1480	67.7	2.5	24	980
80ZJ-A33	37	43-174	8-43.2	700-1480	65.7	2.3	24	973
65ZJ-A30	15	23-79	7.4-34.8	700-1480	63.5	2	19	504
65ZJ-A27	11	20-71	6-28.2	700-1480	61.5	1.8	19	500
50ZJ-A50	90	27-111	22.3-110.7	700-1480	45.1	3	13	1378
50ZJ-A46	55	23-94	17.9-85.8	700-1480	44.7	1.4	14	1082
50ZJ-A33	18.5	12-54	7.7-42.5	700-1480	42.1	2.9	13	537
40ZJ-A17	7.5	4-23	9-44.6	700-1480	52.4	2.5	11	121

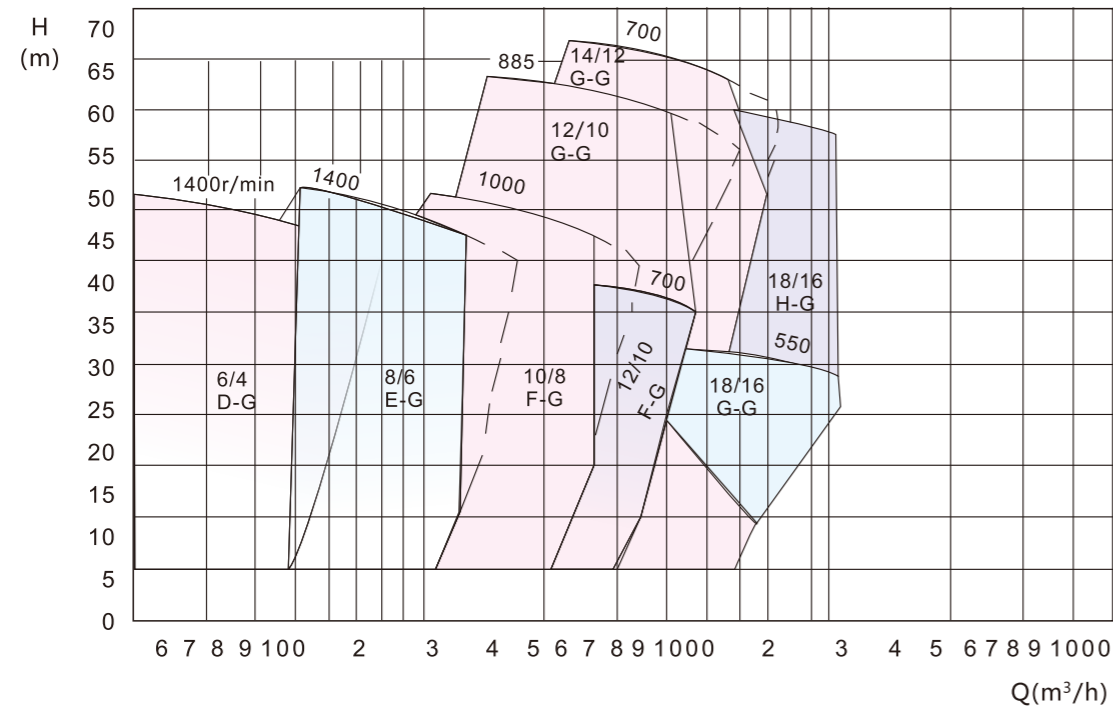
- Note: 1. (NPSH)r refers to the value at the specified point at the second speed in the sample book.
 2. The normal size of particle handled is 56% of the max size that can be handled occasionally.
 3. There are two weight data on common bases. They are the weight data of the high speed pumps without brackets, the slow speed pumps in bracket.

■ G/GH Gravel Pumps
■ Product Features

Type G(or GH) gravel pumps are designed for continuously handling the most difficult high abrasive slurries which contain too big solids to be pumped by a common pump. They are suitable for delivering slurries in mining, explosive sludge in metal melting, dredging in dredger and river course, and other fields, Type GH are high head pumps. Construction of this pump is of single casing connected by means of clamp bands and wide wet-passage. The wet-parts are made of Ni-hard and high chromium abrasion-resistance alloys. The discharge direction of pump can be oriented in any direction of 360. This type of pump possesses the advantages of easy installation and operation, good performance of NPSH and abrasion-resistance.



■ Selection & Performance Chart



Note: Approximate performance in clear water, just for primary selection only.

■ Slurry Pump Performance Chart

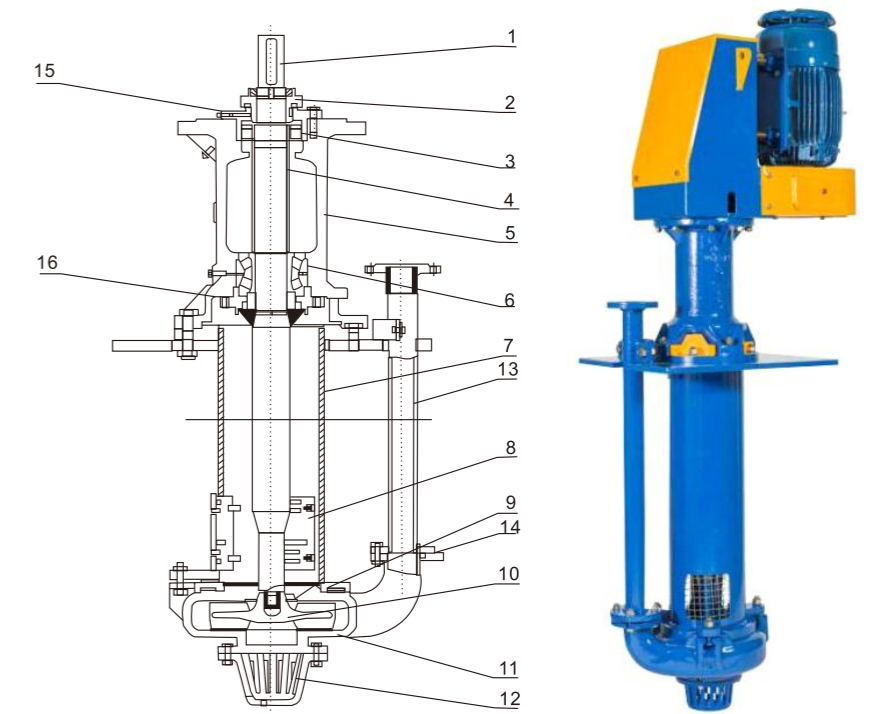
Pump model	Allowable Max. Power (kw)	Clear water performance						
		Capacity Q		Head H (m)	Speed n (r/min)	Max.EFF. (%)	NPSH (m)	Impeller Dia(mm)
		m³/h	L/S					
6/4D-G	60	36-250	10-70	5-52	600-1400	58	2.5-3.5	378
8/6E-G	120	126-576	35-160	6-45	800-1400	60	3-4.5	378
10/8S-G	560	216-936	60-260	8-52	500-1000	65	3-7.5	533
10/8F-G	260	216-936	60-260	8-52	500-1000	65	3-7.5	533
10/8S-GH	560	180-1440	50-400	24-80	500-950	77	2.5-5	711
12/10F-G	260	360-1440	100-400	10-60	400-850	65	1.5-4.5	667
12/10G-G	600	360-1440	100-400	10-60	400-850	65	1.5-4.5	667
12/10G-GH	600	288-2808	80-780	16-80	350-700	73	2.0-10.0	950
14/12G-G	600	576-3024	160-840	8-70	300-700	68	2.0-8.0	864
16/14G-G	600	720-3600	200-1000	18-44	300-500	70	3.0-9.0	1016
16/14TU-G	1200	324-3600	90-1000	26-40	300-500	72	3.0-6.0	1270
18/16G-G	600	420-4320	200-1200	12-48	250-500	72	3.0-6.0	1067
18/16TU-G	1200	720-4320	200-1200	12-48	250-500	72	3.0-6.0	1067

■ Application and Features

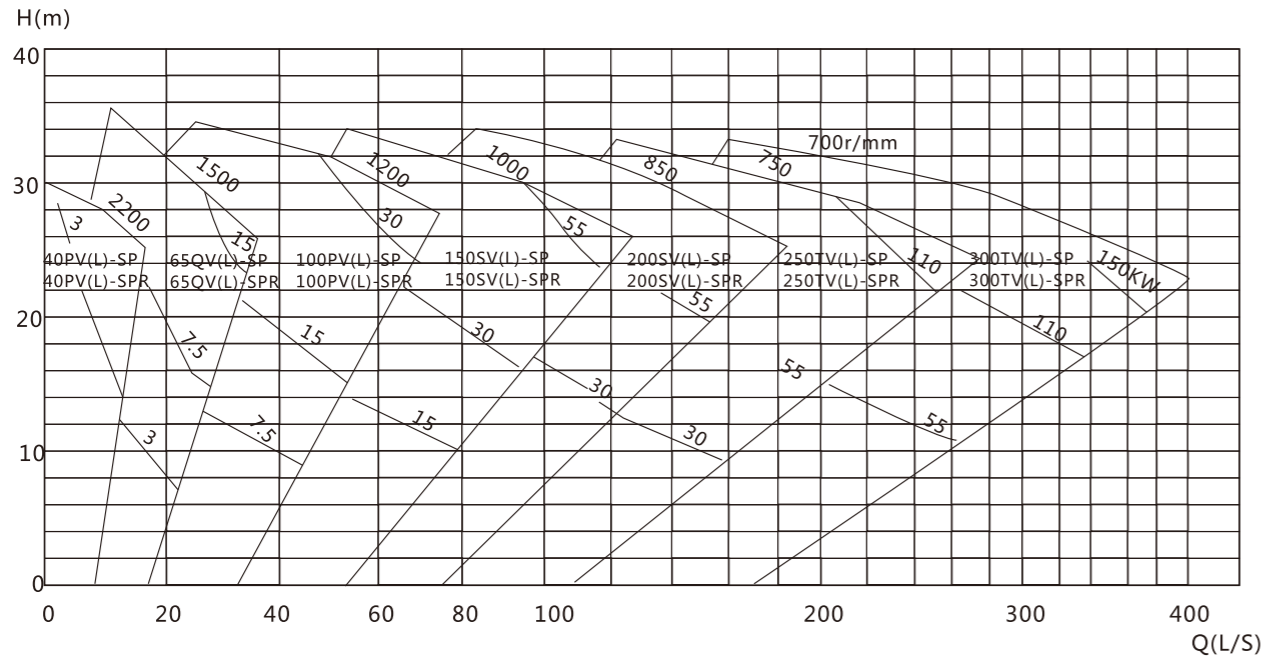
Type SP/SPR pumps are vertical, centrifugal slurry pumps which are submerged in sump to work. They are designed for delivering abrasive, large particle and high density slurries. These pumps do not need any shaft seal and sealing water. They can also be operated normally for insufficient suction duties. Wet parts of type SP pumps are made of abrasion-resistant metal. All parts of type SPR pump immersed in liquid are lined with rubber. They are suited to transport the slurry which contains non-edge and abrasive particle. The type with "L" is series of sump pump with extended shaft, which is suited for the working condition of deeper lever. The guide bearing construction is added to the pump on the basis of the standard pump, so the pump is with both more steady operation and wider application range, but flushing water should be attached to the guide bearing.

■ SP(R) Submerged Centrifugal Slurry Pump Construction Drawing

- 1, Shaft
- 2, Labyrinth gland
- 3, Bearing
- 4, Bearing guard
- 5, Bearing body
- 6, Bearing
- 7, Bracket
- 8, Strainer
- 9, Rear guard plate
- 10, Impeller
- 11, Pump body
- 12, Low strainer
- 13, Disgorge tube
- 14, Folio disgorge flange
- 15, End cap
- 16, Low end cap



■ SP/SPR系列液下泵型谱图 SP/SPR Sump Pump Selection Chart



Note: Approximate performance for clear water, only for primary selection.

■ Performance Chart

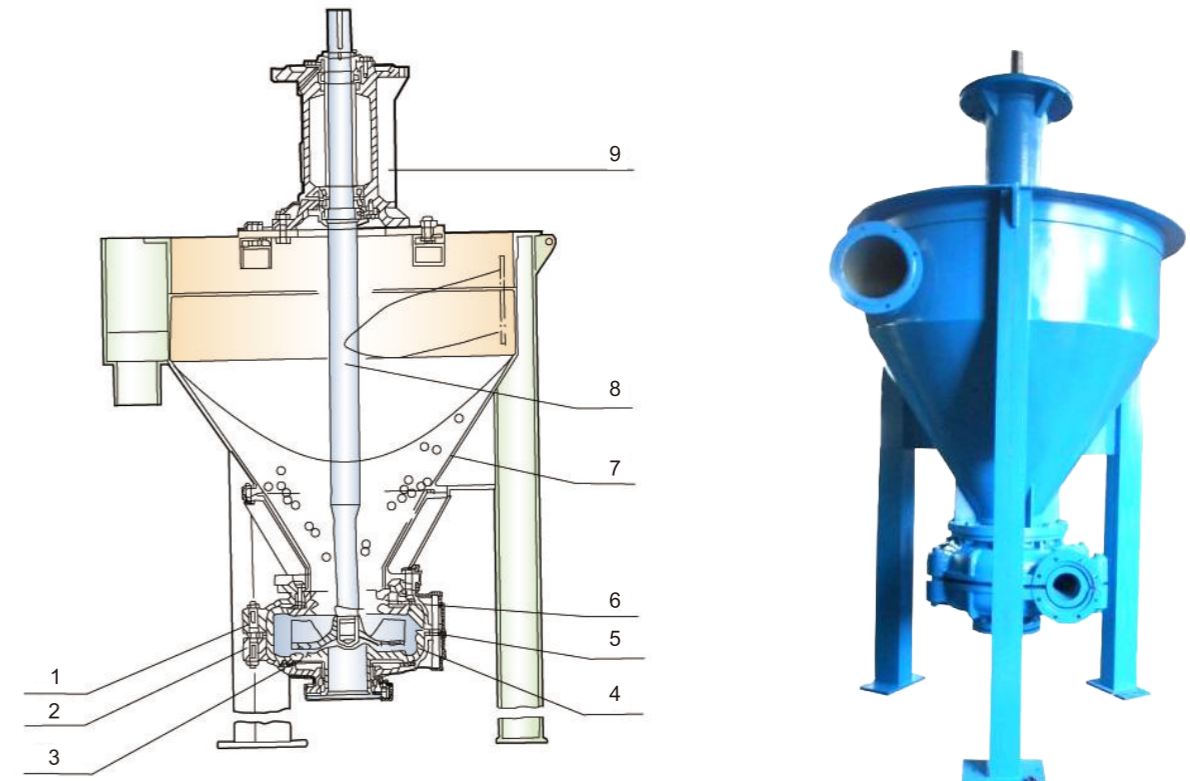
Pump model	Allowable Max. Power (kw)	Clear water performance					
		Capacity Q		Head H (m)	Speed n (r/min)	Max. EFF. (%)	Impeller Dia (mm)
		m ³ /h	L/S				
40PV-SP	15	19.44-43.2	5.4-1.2	4.5-28.5	1000-2200	40	188
40PV-SPR		17.28-39.6	4.8-11	4-26	1000-2200	40	188
65QV-SP	30	23.4-111	6.5-30.8	5-29.5	700-1500	50	280
65QV-SPR		22.5-105	6.25-29.15	5.5-30.5	700-1500	51	280
100RV-SP	75	54-289	15-80.3	5-35	500-1200	56	370
100RV-SPR		64.8-285	18-79.2	7.5-36	600-1200	62	370
150SV-SP	110	108-479.16	30-133.1	8.5-40	500-1000	52	450
200SV-SP	110	189-891	152.5-247.5	6.5-37	400-850	64	520
250TV-SP	200	261-1089	72.5-302.5	7.5-33.5	400-750	60	575
300TV-SP	200	288-1267	80-352	6.5-33	350-700	50	610

■ Froth Pump

■ Product Feature

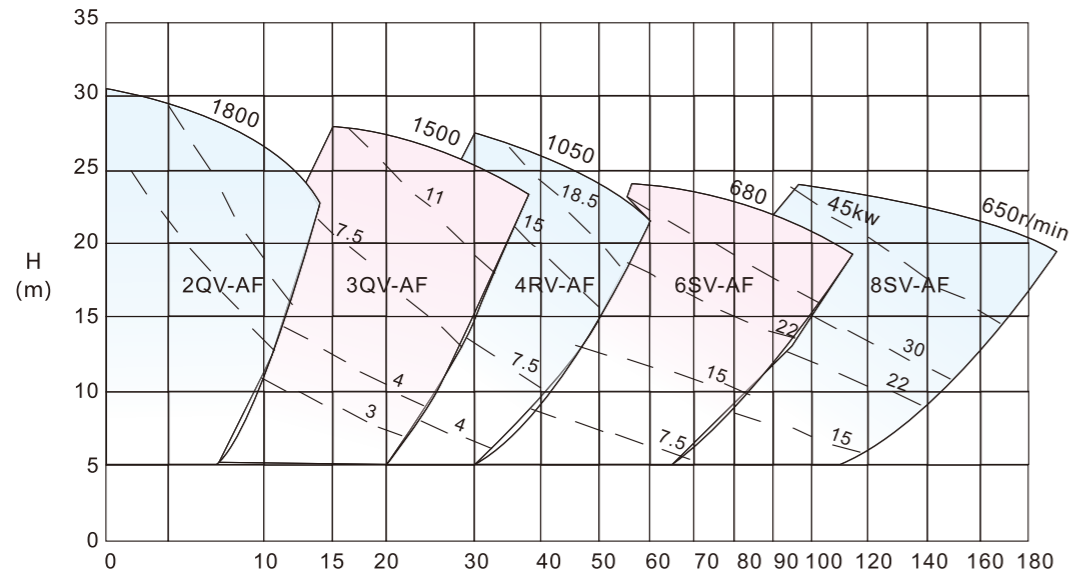
AF series froth pumps are our company newly designed & developed products based on the advanced technology from home and abroad. Being popularized and promoted; now they are widely used in metallurgical industry, mining sector, coal one and chemical engineering to handle abrasive and corrosive slurries with foam and froth. When operated, AF pumps can effectively eliminate foam and froth in slurry and will also function properly even with inadequate feeding slurry, thus making them the ideal choice for delivering foam slurries, esp, in flotation process.

■ Construction Drawing



- 1. Frame Plate 2. Cover Plate 3. Cover Plate Liner Insert 4. Volute Liner
- 5. Impeller 6. Frame Plate Liner Insert 7. Tank 8. Shaft
- 9. Bearing Housing

■ SP/SPR Sump Pump Selection Chart



Note: Approximate performance for clear water, only for primary selection.

1. Bearing assembly of AF series is the same with that of SP, SPR series. Bearing housing is installed with motor frame base or supporting plate, i.e. pump and motor are connected either directly with coupling or through pulley and belts. Pulleys can be exchanged conveniently to adjust the pump rotating speed to satisfy the varying operating conditions.
2. Feeding tank can be steel, stainless steel or coated with rubber with overflow box and tangential inlet. The former can transmit the excessive incoming slurry back to its pit, while the latter will allow the slurry quickly get into the pump body and make part of the foams disappear.
3. Double casings structure the pump head. wetted parts are metal lined, rubber lined or of other non-metallic material according to the different slurries.

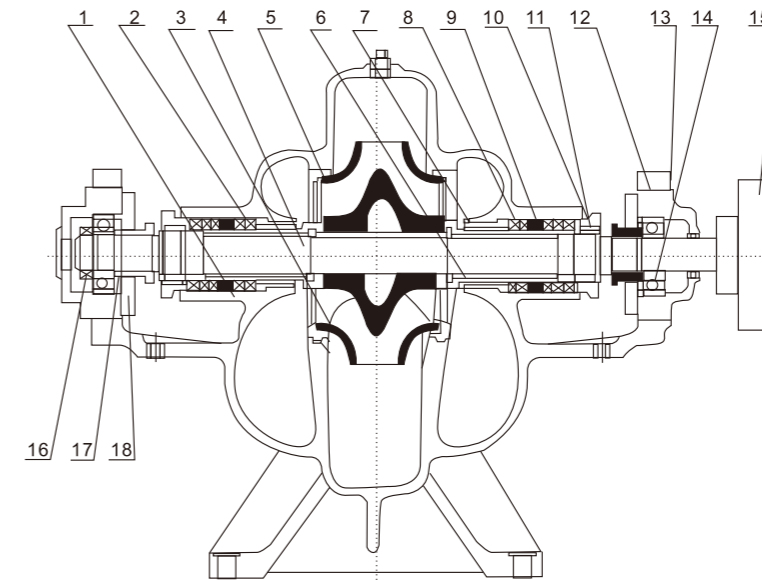
■ Performance Chart

Pump model	Capacity Q m ³ /h	Head H (m)	Speed n (r/min)	EFF. (%)	Installed with power (kw)	Diameter	
						Inlet (mm)	Outlet (mm)
2QV-AF	7.6-42.8	6-29.5	800-1800	45	15	100	50
3QV-AF	23-77.4	5-28	700-1500	55	18.5	150	75
4RV-AR	33-188.2	5-28	500-1050	55	37	150	100
6SV-AF	80-393	5-25	250-680	55	75	200	150
8SV-AF	126-575	5.8-25.5	350-650	55	110	250	200

■ S, SH Series Split Case Pumps

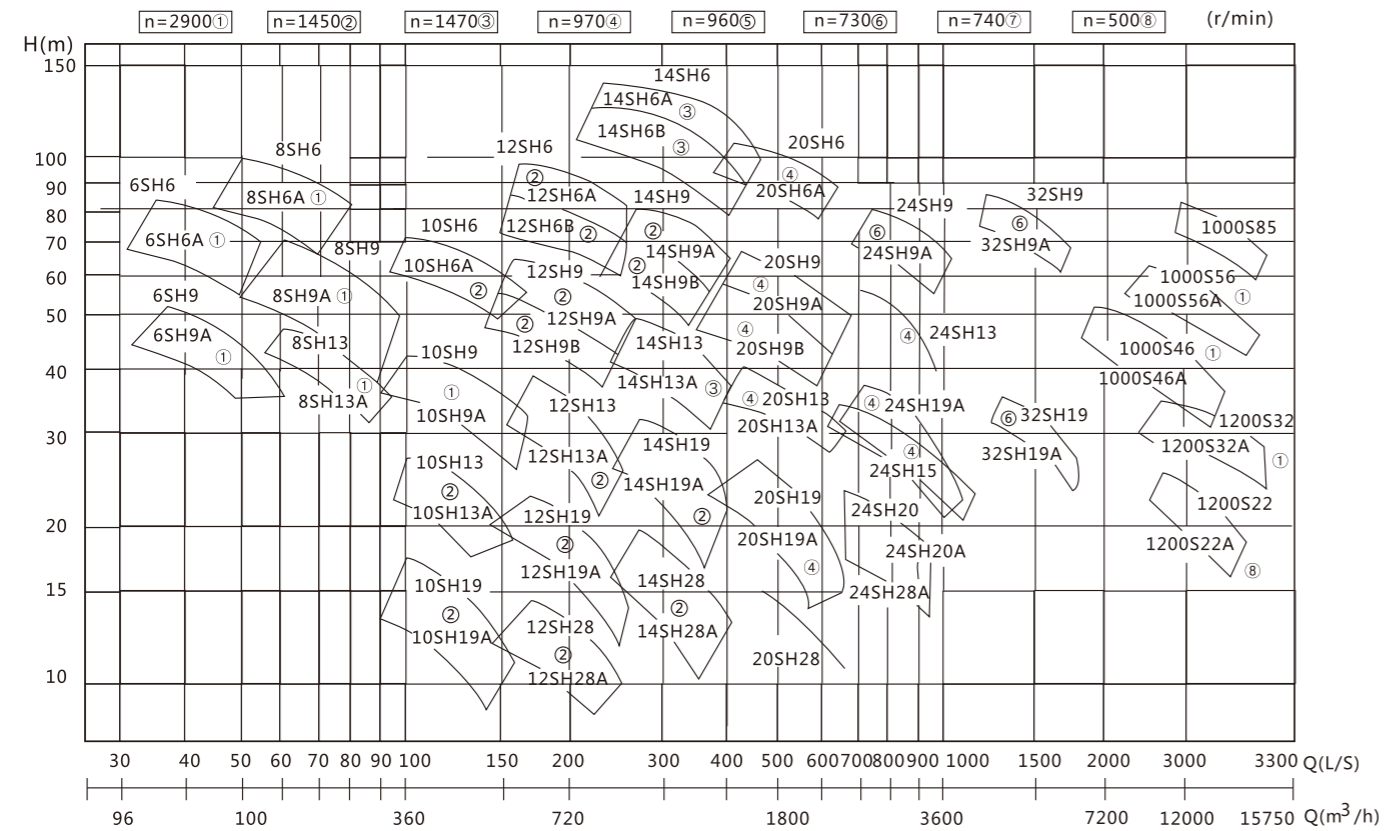
The S and SH pump is a single stage double suction horizontal mid-opening centrifugal pump for transportation clean water or other liquid with physical and chemical characters like clean water. Max. temperature of liquid should be under 80°C. It is fit for power plant, mine, city and coal water feeding and discharging, farmland irrigation and drainage and all hydraulic engineerings.

■ S, Structure Diagram of Split Case Pump



- 1, Pump body
- 2, Pump cover
- 3, Impeller
- 4, Shaft
- 5, Double suction seal ring
- 6, Axle box
- 7, Packing sleeve
- 8, Stuffing
- 9, Packing ring
- 10, Gland
- 11, Axle box nut
- 12, Bearing body
- 13, Bearing body gland
- 14, Bearing
- 15, Coupling parts
- 16, Bearing nut
- 17, Guard sleeve
- 18, Bearing end cap

■ Spectrum diagram of single stage and double suction centrifugal pump of S and SH series



■ Performance table of single stage and double suction centrifugal pump of S and SH series 1

Pump model	Capacity		Head H (m)	Speed n (r/min)	power		EFF. (%)	(NPSH)r (m)	Impeller diameter (mm)	weight (kg)
	m³/h	L/s			shaft power (kw)	matched (kw)				
6SH-6 150S78	126	35	84	2900	40	55	72	5	248	150
	162	45	78		75					
	198	55	70		74					
6SH-6A 150S78A	112	31	67	2900	30	45	68	5	220	150
	144	40	62		72					
	180	50	55		70					
6SH-9 150S50	130	36.2	52	2900	25.3	37	74	5	200	145
	170	47.2	47.6		80					
	220	61.2	35		67					
6SH-9A 150S50A	120	31	43.8	2900	18.5	30	72	5	186	145
	144	40	40		75					
	180	50	35		70					

■ Performance table of single stage and double suction centrifugal pump of S and SH series 2

Pump model	Capacity		Head H (m)	Speed n (r/min)	power		EFF. (%)	(NPSH)r (m)	Impeller diameter (mm)	weight (kg)
	m³/h	L/s			shaft power (kw)	matched (kw)				
8SH-6 200S95	180	50	100	2900	79.1	110	62	5.5	284	245
	234	65	93.5		71					
	288	80	82.5		73					
8SH-6 200S95A	160	44.5	85.1	2900	60.8	90	61	5.5	262	45
	215	59.7	75.8		69					
	265	73.6	70.2		71					
8SH-9 200S63	213	60	69	2900	55	75	74	5.5	236	265
	288	80	62.5		80					
	351	97.5	50		70.5					
8SH-9A 200S63A	180	50	54.5	2900	41	55	65	5.0	220	265
	270	70	46		70					
	324	90	37.5		65					
8SH-13 200S42	216	60	48	2900	34.9	45	81	6.4	201	19
	288	80	41.3		85					
	342	95	35		81					
8SH-13A 200S42A	198	55	43	2900	30.5	37	76	5.8	139	219
	270	75	36		80					
	310	86	31		76					
10SH-6 250S65	360	100	71	1450	91.5	132	76	4	460	565
	486	135	85.1		79					
	612	170	56		72					
10SH-6A 250S65A	342	95	61	1450	76.7	110	74	4	436	565
	468	135	54		77					
	540	150	50		75					
10SH-9 250S39	360	100	42.5	1450	55.5	75	75	4	367	428
	486	135	38.5		83					
	612	170	32.5		80					
10SH-9A 250S39A	324	90	35.5	1450	40.2	55	78	4	338	428
	468	130	30.5		85					
	576	160	25		82					
10SH-13 250S24	360	100	27	1450	33.1	45	80	4	296	420
	486	135	23.5		86					
	576	160	19		82					
10SH-13A 250S24A	342	95	22.2	1450	25.8	37	80	4	270	420
	414	115	20.3		83					
	482	134	17.4		80					

■ Performance table of single stage and double suction centrifugal pump of S and SH series 3

Pump model	Capacity		Head H (m)	Speed n (r/min)	power		EFF. (%)	(NPSH)r (m)	Impeller diameter (mm)	weight (kg)	
	m ³ /h	L/s			shaft power (kw)	matched (kw)					
10SH-19 250S14	360	100	17.5	1450	21.4	30	80	4	240	405	
	486	135	14		21.8		85				
	576	160	11		22.1		78				
10SH-19A 250S14A	320	59	13.7	1450	15.4	22	78	4	224	405	
	432	120	11		15.8		82				
	504	140	8.6		15.8		75				
12SH-6 300S90	590	164	98	1450	213	300	74	4.6	540	847	
	792	220	90		245		80				5.5
	936	260	82		279		75				6.5
12SH-6A 300S90A	576	160	86	1450	190	260	71	4.5	510	847	
	755	210	78		217		74				5.3
	918	255	70		246		71				6.4
12SH-6B 300S90B	540	150	72	1450	151	250	70	4.4	475	847	
	720	200	67		180		73				5.1
	900	250	57		200		70				6.2
12SH-9 300S58	576	160	65	1450	128	150	80	4.5	435	572	
	792	220	58		149		84				
	972	270	50		168		79				
12SH-9A 300S58A	530	147	55	1450	99.2	155	80	4.5	402	572	
	720	200	49		116		83				
	893	248	42		131		78				
12SH-9B 300S58B	504	140	47.2	1450	82.5	135	78	4.5	378	572	
	684	190	43		97.7		82				
	835	232	37		108		78				
12SH-13 300S32	612	170	38	1450	76.2	90	83	4.5	352	809	
	792	220	32.2		79.8		87				
	900	250	25.5		78.1		80				
12SH-13A 300S32A	550	153	31	1450	58.1	75	80	4.5	322	809	
	720	200	26		60.7		84				
	810	225	20.5		58		78				
12SH-19 300S19	612	170	23	1450	47.3	55	81	4.5	290	660	
	792	220	19.4		49.8		84				
	935	260	14		47.8		75				
12SH-19A 300S19A	504	140	20	1450	34.8	45	79	4.5	262	660	
	720	200	16		38.3		82				
	500	250	11.5		37.6		75				

■ Performance table of single stage and double suction centrifugal pump of S and SH series 4

Pump model	Capacity		Head H (m)	Speed n (r/min)	power		EFF. (%)	(NPSH)r (m)	Impeller diameter (mm)	weight (kg)
	m ³ /h	L/s			shaft power (kw)	matched (kw)				
12SH-28 300S12	611	170	14.5	1450	30.3	37	80	4.5	248	660
	792	220	12		31.2		83			
	900	285	10		33.1		74			
12SH-28A 300S12A	522	145	11.8	1450	22.4	30	75	4.5	225	660
	685	190	10		23.3		80			
	792	220	8.7		24.4		77			
14SH-6 300S125	850	236	140	1450	450	680	72	3.5	655	1580
	1250	347	125		525		81			
	1663	461	100		620		73			
14SH-6A 300S125A	800	223	125	1450	391	630	70	3.5	620	1580
	1180	328	112		462		78			
	1570	436	90		550		70			
14SH-6B 300S125B	745	207	108	1450	313	500	70	6.5	575	1200
	1100	305	96		373		77			
	1460	405	77		422		72.5			
14SH-9 350S75	972	270	80	1450	268	400	79	6.5	500	1200
	1260	350	75		306		84			
	1440	400	65		319		80			
14SH-9A 350S75A	900	250	70	1450	220	300	78	6.5	465	1200
	1170	325	65		247		84			
	1330	370	56		257		79			
14SH-9AB 350S75AB	900	250	60	1450	175	250	78	6.5	445	1200
	1080	300	58		196		84			
	1260	350	54		213		79			
14SH-9B 350S75B	826	230	59	1450	178	260	75	6.5	428	1200
	1080	300	55		198		82			
	1225	340	47.5		206		77			
14SH-13 350S44	972	270	50	1470	164	220	81	6.5	410	1105
	1260	350	43.8		179		84			
	1480	410	37		188		79			
14SH-13A 350S44A	864	240	41	1470	121	180	80	6.5	350	1105
	1120	310	36		130		84			
	1330	370	30		136		80			
14SH-19 350S26	971	270	32	1450	99.7	132	85	6.5	350	880
	1260	350	26		102		88			
	1440	400	22		95.7		82			

■ Performance table of single stage and double suction centrifugal pump of S and SH series 5

Pump model	Capacity		Head H (m)	Speed n (r/min)	power		EFF. (%)	(NPSH)r (m)	Impeller diameter (mm)	weight (kg)
	m ³ /h	L/s			shaft power (kw)	matched (kw)				
14SH-19A 350S26A	864	240	26	1450	76.5	110	80	6.5	326	880
	1120	310	21.5		77		85			
	1296	360	16.5		80		73			
14SH-28 350S16	971	270	20	1450	64.4	75	82	6.5	290	760
	1260	350	16.2		65.3		85			
	1440	400	13.4		70		75			
14SH-28A 350S16A	864	240	16	1450	50.2	55	75	6.5	270	760
	1044	290	13.4		47.6		80			
	1260	350	10		48.3		71			
400S96	1080	300	98	1480	400	500	71.5	5.5	535	1910
	1260	350	96		428		77			
	1620	450	90		473		84			
400S96A	1080	250	85.5	1480	346	440	73	6	510	1910
	1260	300	85		370		79			
	1620	350	78		410		84			
400S96B	1080	300	78	1480	29.8	440	77	6	480	1910
	1260	350	76		318		82			
	1620	450	68		349		80			
400S96J	900	250	40	980	124	185	79	3	535	1910
	1080	300	40		140		84			
	1260	350	38		155.3		84			
400S96JA	900	250	37	980	112	155	81	5	510	1910
	1080	300	35		123		84			
	1260	350	32		131		84			
20SH-6 500S98	1450	403	108	970	585	800	72.5	6	860	4330
	2016	560	98.4		680		79.5			
	2300	640	89		735		76			
20SH-6A 500S98A	1349	375	93	970	490	630	70	6.4	800	4330
	1870	520	85		564		77			
	2140	595	77		607		74			
20SH-9 500S59	1150	430	66	970	340	500	82	6	682	2750
	2016	560	59		390		83			
	2450	680	50		433		77			
20SH-9A 500S59A	1405	390	58	970	300	400	74	6	640	2750
	1910	530	50		347		75			
	2270	630	42		360		72			

■ Performance table of single stage and double suction centrifugal pump of S and SH series 6

Pump model	Capacity		Head H (m)	Speed n (r/min)	power		EFF. (%)	(NPSH)r (m)	Impeller diameter (mm)	weight (kg)
	m ³ /h	L/s			shaft power (kw)	matched (kw)				
20SH-9B 500S59B	1763	490	42	970	273	355	74	6	600	2750
20SH-13 500S35	1550	430	40	970	206	280	82	6	550	2340
	2016	560	35.1		219		88			
	2410	670	30		247		80			
20SH-13A 500S35A	1870	520	31	970	186	240	85	6	510	2340
20SH-19 500S22	1620	450	27	970	148	180	80	6	465	2010
	2016	560	22		147		82			
	2340	650	15		137		70			
20SH-19A 500S22A	1296	360	23	970	111	130	73	6	427	2010
	1870	520	17		108		80			
	2016	560	14		101		78			
20SH-28 500S13	1620	450	15.2	970	78.9	110	85	6	390	2000
	2016	560	12.8		79		89			
	2325	646	10.6		78		86			
24SH-9 600S75	2750	764	80	960	699	900	87	8.7	765	4300
	3420	950	71		727		91			
	3930	1092	60		730		98			
24SH-9A 600S75A	250	708	64	960	516	710	86	7.5	710	4300
	3168	880	61		585		90			
	3640	1010	53		610		86			
24SH-9B 600S75B	2300	630	60	960	442	550	85	7.5	690	4300
	2800	778	56		514		88			
	3200	889	49		502		85			
24SH-9J 600S39	2600	750	39	730	319	380	90	5.8	765	4300
24SH-13 600S47	250	695	56	970	460	550	83	7.5	674	3120
	3168	880	47.4		465		88			
	3499	972	38		426		80			
24SH-15	2500	694	33.5	740	316.7	420	70	5 5.5 5.8	674	3120
	3600	1000	30		345.9		85			
	4000	1111	28.5		365		83			

■ Performance table of single stage and double suction centrifugal pump of S and SH series 7

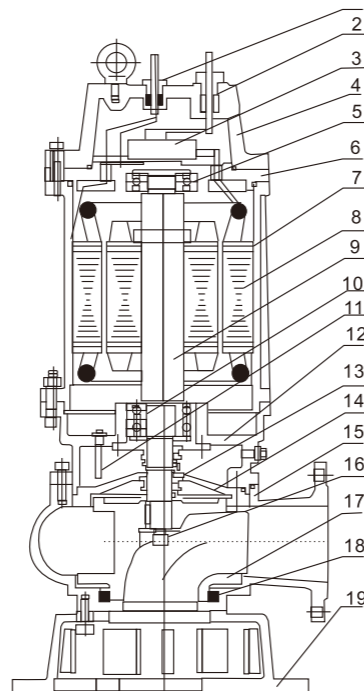
Pump model	Capacity		Head H (m)	Speed n (r/min)	power		EFF. (%)	(NPSH)r (m)	Impeller diameter (mm)	weight (kg)
	m ³ /h	L/s			shaft power (kw)	matched (kw)				
24SA-18 24SH-13A 600S47A	2700	750	48.5	970	434	450	83	7.5	515	4000
	3150	875	44		438		88			
	3600	1000	32		392		80			
24SH-19 600S32	2480	700	37	970	295	380	86	7.5	540	2550
	3170	880	32		310		89			
	3960	1100	22		279		85			
24SH-19A 600S32A	2304	640	31.5	970	235	280	84	7.5	500	2550
	2880	800	27		238		89			
	3600	1000	20		231		85			
24SH-20 600S21	2500	694.4	24.5	740	238.4	340	70	5	805	3030
	3600	1000	21		248		83			
	3800	1055	20.4		256		82.5			
24SH-20A 600S21A	2500	694.4	22	740	218.3	280	70	5	584	3030
	3600	1000	17.2		215		80			
	3800	1055	16		216.3		78			
24SH-28 600S22	2340	650	23.5	970	187	280	80	7.5	500	2500
	2880	800	21		195		84.5			
	3420	950	18		207		81			
24SH-28A 600S22A	3430	650	17.5	970	145	185	77	7.5	450	2500
	2880	800	15.5		148		82			
	3420	950	13		154		78.5			
28SH-10 700S90	3715	1032	99.5	980	1157	1250	87	9.5	415	5800
	4700	1306	90		1252		92			
	4896	1360	87		1018		89.5			
28SH-10A 700S90A	3420	952	84.5	980	929	1250	85	8	940	5800
	4336	1204	76.5		1005		90			
	4517	1255	74		1018		89.5			
28SH-10JA 700S90JA	2111	586.4	57.5	742	501	710	52	5	775	5800
	3600	1000	52		555		72			
	4248	1180	43.5		595		79			
28SH-10JB 700S90JB	2400	667	51	742	397	560	84	5	850	5800
	3000	833	47		431		89			
	3744	1040	39.5		474		88.5			
32SH-9 800S76	4400	1222	82	740	1128	1500	87	6	780	8000
	5500	1528	76		1250		91			
	6600	1722	68		1384		88			

■ Performance table of single stage and double suction centrifugal pump of S and SH series 8

Pump model	Capacity		Head H (m)	Speed n (r/min)	power		EFF. (%)	(NPSH)r (m)	Impeller diameter (mm)	weight (kg)
	m ³ /h	L/s			shaft power (kw)	matched (kw)				
32SH-9A 800S76A	4160	1156	75	740	976	1400	86	7.5	900	8000
	5200	1464	69		1085		86			
	6200	1722	63		1222		87			
32SH-10 800S48	4680	1300	84	712	1216	1600	88	8.5	880	8300
	6330	1758	75		1405		92			
	7200	2000	67.5		1478		90			
32SH-10A 800S48A	4470	1242	76.5	742	1060	1400	88	7.5	990	8300
	5760	1600	70		1194		92			
	6878	1910	61.5		1296		89			
32SH-10J 800S48J	3960	1100	50	600	702	1000	77	6.5	950	8300
	5070	1408	47.5		785		84			
	6210	1725	44		862		87			
32SH-19 800S32	4700	1305	35	730	575	630	78	6.5	990	5100
	5500	1530	32.5		580		84			
	6010	1670	28.9		567		83.5			
	6460	1795	25.4		567		80.5			
32SH-19A 800S32A	4550	1260	31	730	492	560	78	6.5	740	5100
	5310	1475	29		500		84			
	5800	1600	26.5		496		83.5			
	6250	1735	23		487		80.5			
32SH-19B 800S32B	4170	1050	29	750	391	450	79	6.5	715	5100
	5000	1388	26		393		84			
	5450	1518	23.5		415		81			
1200S56 48SH-13	8640	2400	60.5	600	1763	2240	82	2.5	1160	16000
	10800	3000	56		1871		88			
	12960	3600	47.5		1960		86			
1200S56A 48SH-13A	7776	2160	54.5	600	1425	2000	81	2.5	1100	15500
	9720	2700	50		1513		88			
	11664	3240	42		1597		84			
1200S39	7200	2000	42.5	500	1017	1600	82	5 5.5 6.2	1160	16000
	9000	2500	39		1051		91			
	10800	3000	33		1079		90			
1200S32	8640	2400	35	500	922	1400	83	7.5	620	13000
	10800	3000	32		1082		87			
	12960	3600	26		1073		85.5			
1200S32A	7776	2160	32.5	600	834	1250	83	7.5	600	13000
	9720	2700	29		882		87			
	11664	3240	23		880		83			
1200S22	7920	2240	26	500	644	800	86	5.5	585	12500
	9612	2670	22		662		87			
	10800	3000	18		638		83			
1200S22A	7200	2000	23	500	534	710	85	5.5	560	12500
	9000	2722	20.5		573		86.5			
	10080	2800	17.5		585		82.5			

■ Product Features

Adopt large-channel anti-clogging impeller structure, the particle passed can be 50% of the pump diameter. Mechanical seal adopts the new-type hard quality and be able to bear the rotten carbonization tungsten material, featuring a durable and wearable. The pump could run more than 8000 hours without stop. There is high-accuracy anti-interference to test the lead in the sealed oil room to protect the pump. It can be collocated with the switch board of full-automatic safe protection if needed to protect the pump when leak water, leak electricity, overload definitely, improve security and dependability of the products. It could connect with the automatic coupling of double guide rails which is convenient to install and maintain. The floater switch can control the pump when the water depth changes, it does not need special person to control. The motor may adopt water jacket outside cycle cooling system, ensure the pump work without water (dry style) safely. There are two kinds of different installation ways, fixed style auto coupling installing system, removing style free installing system.

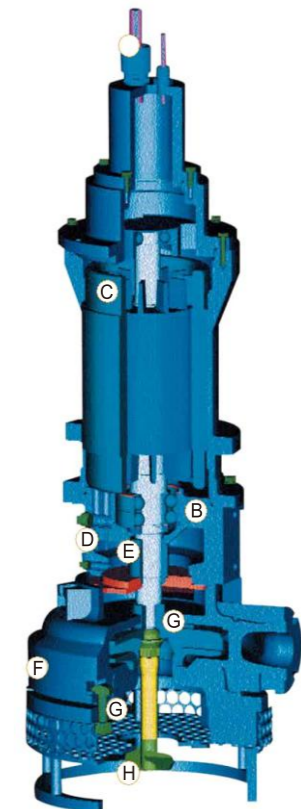


- | | | |
|--------------------------|---------------------|---------------------|
| 1. Signal Line | 7. Motor Casing | 13. Mechanical Seal |
| 2. Motor Connection Line | 8. Stator | 14. Frame Plate |
| 3. Connection Box | 9. Shaft (Rotor) | 15. Pump Body |
| 4. Motor Cover | 10. Bearing | 16. Impeller Bolt |
| 5. Bearing | 11. Oil Water Probe | 17. Impeller |
| 6. Upper Shaft Base | 12. Oil House | 18. Seal Ring |
| | | 19. Chassis |

1

■ SSP Series Submersible Slurry Pump

According to our customer's requirement, we design new type submersible slurry pump. This pump are renowned for innovative designs for heavy duty submersible slurry pump used in aggressive abrasive applications. Combined with the user of an A05 28% high Chrome alloy wet end mounted on a heavy duty iron motor housing. The SSP pump represents the most dependable, long lasting, submersible pump available.



A - Advanced Cable Entry

The advanced cable entry offers double protection against moisture. The power and control cables enter through individual cable glands that act as strain relief while sealing the cable jacket. Both cable cores are also sealed using barrier connector embedded in epoxy sealant.

B - Heavy-Duty Thrust Bearings

High-capacity, angular contact duplex bearings are generously sized to handle thrust loads associated with high specific gravity slurries.

C - Temperature Sensor

Over-temperature sensors protect the motor by sounding an alarm or shutting down the unit if internal temperatures exceed safe operating limits.

D - Moisture Detector

A twin electrode system provides double protection by detecting moisture intrusion in either the motor housing or the mechanical seal chamber.

E - Mechanical Seals

The SSP incorporates proven balanced double-seal arrangement in which both sets of seal springs are enclosed in the oil reservoir. Silicon Carbide Seal faces are subject to submergence pressure only for greatly extended wear life.

F - Heavy-Duty Water End

Standard 28% chrome construction coupled with heavy section thickness provides the ultimate in protection against abrasive wear in heavy slurries.

G - Easy Maintenance Access

T-bolt construction allows rapid disassemble of the pump end for maintenance access. The heavy-duty impeller is not screwed on, but keyed to the shaft for easy removal and protection against movement during reverse rotation.

H - Optional Robust Agitator

A robust agitator can be fitted to the suction eye allowing the pump to handle high concentrations of solids.

■ Submersible Sewaged Pump Performance

No.	Type	Diameter of outlet	Flux Q(m³/h)	Head H (m)	Speed n (r/min)	Power Pa (kw)	EFF. (%)	Automatic coupler
1	25WQ7-8-0.55	25	7	8	2900	0.55	45	GAK-50
2	25WQ8-22-1.1	25	8	22	2900	1.1	45	
3	32WQ8-12-0.75	32	8	12	2900	0.75	48	
4	40WQ12-15-1.5	40	12	15	2900	1.5	48	
5	50WQ20-7-0.75	50	20	7	2900	0.75	62	
6	50WQ10-10-0.75	50	10	10	2900	0.75	54	
7	50WQ20-15-1.5	50	20	15	2900	1.5	51	
8	50WQ15-30-2.2	50	15	30	2900	2.2	51	
9	50WQ42-9-2.2	50	42	9	2900	2.2	52	
10	50WQ17-25-3	50	17	25	2900	3	53	
11	50WQ40-15-4	50	40	15	2900	4	54	
12	50WQ25-32-5.5	50	25	32	2900	5.5	49	
13	50WQ20-40-7.5	50	20	40	2900	7.5	50	
14	65WQ25-15-2.2	65	25	15	2900	2.2	52	
15	65WQ37-13-3	65	37	13	2900	3	60	
16	65WQ25-30-4	65	25	30	2900	4	58	
17	65WQ25-30-4	65	35	50	2900	11	59	
18	65WQ35-60-15	65	35	60	2900	15	58	
19	80WQ40-7-2.2	80	40	7	2900	2.2	50	
20	80WQ43-13-3	80	43	13	2900	3	61	
21	80WQ40-15-4	80	40	15	2900	4	57	
22	80WQ50-20-5.5	80	50	20	2900	5.5	60	
23	80WQ65-25-7.5	80	65	25	2900	7.5	56	
24	80WQ80-15-7.5	80	80	15	2900	7.5	45	
25	100WQ85-10-4	100	85	10	1450	4	62	
26	100WQ65-15-5.5	100	65	15	1450	5.5	59	
27	100WQ100-15-7.5	100	100	15	1450	7.5	70	
28	100WQ85-20-7.5	100	85	20	1450	7.5	71	
29	100WQ100-25-11	100	100	25	1450	11	61	
30	100WQ100-35-18.5	100	100	35	1450	18.5	67	
31	150WQ145-9-7.5	150	145	9	1450	7.5	63	
32	150WQ200-10-15	150	200	10	1450	15	64	
33	150WQ180-15-15	150	180	15	1450	15	67	
34	150WQ180-20-18.5	150	180	20	1450	18.5	74	
35	150WQ150-26-18.5	150	150	26	1450	18.5	72	
36	150WQ180-35-22	150	180	35	1450	22	69	
37	150WQ200-30-37	150	200	30	1450	37	65	
38	150WQ150-35-37	150	150	35	1450	37	63	
39	200WQ300-7-11	200	300	7	980	15	75	
40	200WQ250-11-15	200	250	11	1450	15	72	
41	200WQ250-15-18.5	200	250	15	1450	18.5	72	
42	200WQ400-10-22	200	400	10	1450	22	75	
43	200WQ300-15-22	200	300	15	1450	22	71	
44	200WQ400-13-30	200	400	13	1450	30	76	
45	200WQ250-22-30	200	250	22	1450	30	71	

■ Submersible Sewaged Pump Performance

No.	Type	Diameter of outlet	Flux Q(m³/h)	Head H (m)	Speed n (r/min)	Power Pa (kw)	EFF. (%)	Automatic coupler
46	200WQ300-25-37	200	300	25	1450	37	73	GAK-200
47	200WQ250-35-45	200	250	35	1450	45	69	
48	200WQ400-30-55	200	400	30	1450	55	72	
49	200WQ200-60-75	200	200	60	1450	75	52	
50	250WQ600-9-30	250	600	9	980	30	78	
51	250WQ600-12-37	250	600	12	1450	37	76	GAK-250
52	250WQ600-15-45	250	600	15	1450	45	73	
53	250WQ600-20-55	250	600	20	1450	55	73	
54	250WQ600-25-75	250	600	25	1450	75	71	
55	300WQ800-12-45	300	800	12	980	45	74	
56	300WQ480-15-45	300	480	15	1450	45	66	GAK-300
57	300WQ400-20-45	300	400	20	1450	45	64	
58	300WQ600-20-55	300	600	20	1450	55	73	
59	300WQ800-20-75	300	800	20	1450	75	75	
60	300WQ950-20-90	300	950	20	1450	90	76	
61	300WQ950-24-110	300	950	24	1450	110	76	GAK-350
62	350WQ1100-10-55	350	1100	10	980	45	85	
63	350WQ1180-13-75	350	1180	13	980	75	84	
64	350WQ1200-15-90	350	1200	15	980	90	84	
65	350WQ1130-18-90	350	1130	18	980	90	83	
66	350WQ1250-20-110	350	1250	20	740	110	83	GAK-400
67	350WQ1500-20-132	350	1500	20	740	132	82	
68	350WQ1500-26-160	350	1500	26	740	160	83	
69	400WQ1800-10-75	400	1800	10	740	75	85	
70	400WQ1690-12-90	400	1690	12	980	90	85	
71	400WQ2000-13.5-110	400	2000	13.5	980	110	85	GAK-450
72	400WQ1700-22-160	400	1700	22	740	160	83.5	
73	400WQ2000-18-160	400	2000	18	980	160	85	
74	400WQ1950-23-185	400	1950	23	980	185	85	
75	400WQ1980-26-220	400	1980	26	980	220	83	
76	400WQ1800-32-250	400	1800	32	740	250	82	GAK-500
77	450WQ2300-10-90	450	2300	10	740	90	85	
78	450WQ2250-11-110	450	2250	11	740	110	85	
79	450WQ2260-14-132	450	2260	14	740	132	85	
80	450WQ2280-20-185	450	2280	20	740	185	83	
81	450WQ2300-25-250	450	2300	25	740	250	83	GAK-500
82	450WQ2300-29-280	450	2300	29	740	280	83	
83	450WQ2100-36-315	450	2100	36	740	315	83	
84	500WQ2490-10-110	500	2490	10	740	110	85	
85	500WQ2500-16-160	500	2500	16	740	160	85	
86	500WQ2490-18-185	500	2490	18	740	185	85	GAK-500
87	500WQ2500-12-132	500	2500	12	740	132	85	
88	500WQ2400-22-220	500	2400	22	740	220	85	
89	500WQ2650-24-250	500	2650	24	740	250	85	
90	500WQ2400-28-280	500	2400	28	740	280	85	

Type	Material code	Material Description	Mechanism Performance			Special performance	Application
			δ_w/δ_b (MPa)	ak (J/cm ²)	HRC		
Abrasion resistant white iron	A05	KmTBCr26	≥ 700	6-10	≥ 56	Anti-erosion performance < A07 with certain corrosion resistance	For higher wear condition 5-12 of PH
	A07	KmTBCr15Mo	≥ 550	4-8	≥ 59	Best anti-erosion performance, corrosion resistance < A04, A05	For higher wear condition
	A01	KmTBCr8	≥ 550	6-8	≥ 55	Anti-erosion performance $\approx 90\%$ of A05	For mud pump
	A11	KmTBCrMnMo	≥ 400	3-6	38-42	Low-grade anti-erosion performance, low hardness, drilling tapping	For microscale fine particle & low-grade abrasion working conditions
Anti-wear & anti-corrosive iron	A49		≥ 600		43-49	Anti-erosion performance, corrosion stability, in low pH environment, abrasion resistance \approx A03	For low-grade PH corrosive environment, especially suitable for FGD (PH \geq 4). Usually used for low acid environment
	A33				35	Anti-erosion performance \approx A03 corrosion resistance	To transport oxidability slurry of PH value \geq 1, such as phosphogypsum, HN03, H2SO4, H3PO4, etc.
	A22		1200		45	Excellent erosion resistance, higher hardness	For dredging pump casing
Anti-wear cast steel	A23		700		HB 500-600	Higher hardness and anti-erode	To transport higher anti-wear & anti-corrosive working condition, such as parts of dredging pump, clean water pump, sewage pump, certain parts of slurry pump
	A25				HB 300-350	Low hardness, higher abrasion resistance, good weldable performance	For light erode and wear condition such as transporting aqueous medium of small gravel

Type	Item Description	R26	R55
Natural rubber	Hardness	41 \pm 4	52 \pm 3
	300% stretching strength N/Cm ²	≥ 190	≥ 400
	Breaking strength N/Cm ²	≥ 2000	≥ 2200
	Elongate break %	≥ 500	≥ 500
	Pull apart permanent deformation%	≥ 30	≥ 25
	Pull strength: μ g/Cm ²	≥ 40	≥ 40

■ PUMP SPARES

We supply interchangeable slurry pump spares with other companies. Depending on different application, we have different material, such as high chrome, dual-phase steel, rubber, polyurethane, ceramic etc.



Impeller



Volute Liner



Throatbush



Cover Plate Liner



Frame Plate Liner



Rubber Impeller



Shaft Sleeve



Mechanical Seal



Flange

■ Polyurethane Wet Parts

■ Compared with high Chrome casting parts

- 1)The working life of polyurethane spares is 3 times of high chrome.
- 2)Polyurethane reduce the impeller weight a lot and its passage surface is much smoother thus the dynamic consumption could be reduced when operating. It could save 20% power consumption and increase 5~10% efficiency. Meanwhile, it prolong the life of the rotor and low down the maintenance cost and downtime loss
- 3)The polyurethane is helpful to reduce the vibration and noise.

■ Compared with natural rubber

- 1)Polyurethane's hardness range is wide which is from 20~95 (Shore A Hardness) and still keep good performance on elastic and elongation.
- 2)Polyurethane's tear strength is 2 times of natural rubber
- 3)Polyurethane's wear resistant is 3~5 times of natural rubber.



■ The Advantage of Ceramic Slurry Pump Wet Parts

The ceramic we adopt to produce pump wet parts is a kind of high performance structural ceramic which is made of Sic combined with Si3N4. It is inorganic non-metallic materials with high strength, wear resistance, corrosion resistance, cavitation resistance, high temperature resistance and other superior performance. However, this material has some weakness like difficult to be molded and brittle etc. But our company use unique producing process to solve these problems. We adopt advanced Silicon nitride connected with silicon carbide molding technology but not traditional grouting or pressing method. The wear-resistant property of our Si3N4-SiC is 2 or 3 times of high chrome, Cavitation erosion resistance is metal' s several times. Its Mohs hardness is 8.9 which is only lower diamond and cubic boron nitride. Raw material: the main composition is Si3N4-SiC, others are high strength additive.

■ Advantage:

- 1.Wear resistance, corrosion resistance, cavitation-resistant, high temperature resistance etc properties are much better than metal.
- 2.Hardness: Only lower than diamond and cubic boron nitride.
- 3.Chemical corrosion resistance: Except hydrofluoric acid (HF), it can resist all other strong and weak acid, especially sulfuric acid (H2SO4), and most of the molten salt, common halogen and alkali at room temperature.
- 4.Weight: Its weight is only one third of chromium molybdenum steel. It is easy to assemble-disassemble,impeller start,and the shaft is not easy to be broken, and less motor loss.



■ **CASTING PATRS**

Minerco has been helping customers in a variety of industries by supplying high-performance steel castings. Today we have grown to offer engineered wear solutions for virtually every industry segment. Our expertise in providing low to medium volume shell mould castings in a variety of wear-resistant alloys provides longer life and superior operating performance. Our experience and unique heritage uniquely prepare us to work closely with customers – engineer to engineer – from concept to finished product. Let us show you how we can work with you to engineer solutions to the most difficult wear and abrasion resistant problems in your operation.

■ **Our alloys include**

- Manganese steel
- High chromium irons
- High strength martensitic steels
- Chromium molybdenum steels
- Heat resistant steels
- Carbon steels



■ **Wear Resistant Parts**

Application: Powder concentrator blade, impact plate, pipeline, pump shell, mill liner, crusher parts, slag notch, bottom plate, vibrating screen, distributor, conveying pipeline, separator, fan shell, cutting edge, screw conveyor, ball mill feed inlet, conveying liners, squeeze roller





Ceramic Knife Gate Valve



Slurry Valve



Gate Valve



Ball Valve



Butterfly Valve



Pinch Valve



Ceramic Gate Valve



Check Valve



Diaphragm Valve

■ Chief Features

- Fullport ,outside screw and yoke(OS&Y)
- Bolte Bonnet
- Flexinle Wedge, Fully Guided
- Structure Improve on API
- Risng Stem And Non-rising Handwheel
- Available With Gear Operator
- Flanged Ends



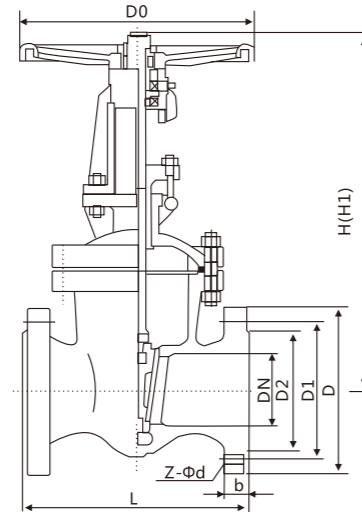
■ Prodrct Specification

Product Specification	Design spec	Face to Face	Flanged End	Test & Check	Pressure-Temp	Marking	Supply
	GB/T 12234	GB/T 12221	JB/T 79	JB/T 9092	GB/T 9131	GB/T 12220	JB/T 7928

■ Main Part Material

Part Name	Body Material Code			
	Body/Bonnet	WCB	ZGCr5Mo	ZG1Cr18Ni9Ti/CF8
Plsc	WCB	ZGCr5Mo	ZG1Cr18Ni9Ti/CF8	ZG1Cr18Ni9Ti/CF8M
Stem	1Cr13	25Cr2MoV	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
Packing	Flexible Graphite		PTFE	
Gasket	18-8Flexible Graphite			
Bolt	35/35CrMo	25CrMoV	1Cr18Ni9	1Cr18Ni9
Sultable Temp	-29-425°C	-29-550°C	-40-200°C	-40-200°C
Suitable Medium	water,oll,steam	oll,steam	Nitrc Acid	Acetic Acid

Flange Gate Valve



Main External and Connection Dimension

单位 Unit:mm

Type	Nominal Diameter (mm)	PN1.6MPa									WT(kg)
		L	D	D1	D2	b	Z-φd	H	H1	D0	
Z41H-16C Z40H-16C	40	200	145	110	85	16	4-φ18	300	352	200	26.5
	50	250	160	125	100	16	4-φ18	658	438	240	29
	65	265	180	145	120	18	4-φ18	375	450	240	33
	80	280	195	160	135	20	8-φ18	433	528	280	45
Z41W-16P Z40W-16P	100	300	215	180	155	20	8-φ18	502	620	320	63
	125	325	245	210	185	22	8-φ18	612	753	360	108
Z41Y-16P Z40Y-16P	150	350	280	240	210	24	8-φ23	676	847	360	134
	200	400	335	295	265	26	12-φ23	820	1039	400	192
Z41W-16R Z40W-16R	250	450	405	355	320	30	12-φ25	969	1245	450	273
	300	500	460	410	375	30	12-φ25	1142	1472	560	379
Z41Y-16I Z40Y-16I	350	550	520	470	435	34	16-φ25	1280	1450	640	590
	400	600	580	525	485	36	16-φ30	1452	1887	640	850
KZ41Y-16C KZ40Y-16C	450	650	640	585	545	40	20-φ30	1541	2011	720	907
	500	700	706	650	608	44	20-φ34	1676	2181	720	958
Z540H-16C Z540Y-16P	600	800	840	770	718	48	20-φ41	1874	2346	800	1112
	700	900	910	840	788	50	24-φ41	2083	2517	800	1290
	800	1000	1020	950	598	52	24-φ41	2400	2890	950	1485
	900	1100	1120	1050	998	54	28-φ41	2950	3316	1000	1773
1000	1200	1255	1170	1110	56	28-φ48	3245	3600	1000	2160	

Flange Gate Valve

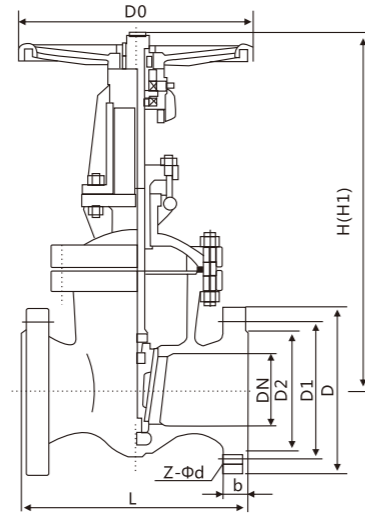
Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter (mm)	PN2.5MPa									WT(kg)
		L	D	D1	D2	b	Z-φd	H	H1	D0	
Z41H-25C Z40H-25C	40	200	145	110	85	18	4-φ18	300	352	200	18
	50	250	160	125	100	20	4-φ18	358	438	240	28
	65	265	180	145	120	22	8-φ18	375	450	240	33
Z41W-25P Z40W-25P	80	280	195	160	135	22	8-φ18	433	528	280	46
	100	300	230	190	160	24	8-φ23	502	620	320	64
Z41Y-25P Z40Y-25P	125	325	270	220	188	28	8-φ25	612	753	360	116
	150	350	300	250	218	30	8-φ25	676	847	360	141
Z41W-25R Z40W-25R	200	400	360	310	278	34	12-φ25	820	1039	400	213
	250	450	425	370	332	36	12-φ30	969	1245	450	290
Z41Y-25I Z40Y-25I	300	500	485	430	390	40	16-φ30	1142	1472	560	400
	350	550	550	490	448	44	16-φ34	1280	1450	640	631
KZ41Y-25C KZ40Y-25C	400	600	610	550	505	48	16-φ34	1452	1887	640	900
	450	650	660	600	555	50	20-φ34	1541	2011	720	1013
Z540H-25C Z540Y-25P	500	700	730	660	610	52	20-φ41	1676	2181	720	1166
	600	800	840	770	718	56	20-φ41	1874	2346	800	1258
	700	900	955	875	815	60	24-φ48	2083	2517	800	1383
	800	1000	1070	990	930	64	24-φ48	2400	2890	950	1596
900	1100	1180	1090	1025	66	28-φ54	2950	3316	1000	1865	
1000	1200	1305	1210	1140	68	28-φ58	3245	3600	1000	2351	

Type	Nominal Diameter (mm)	PN4.0MPa									WT(kg)	
		L	D	D1	D2	D6	b	Z-φd	H	H1		D0
Z41H-40C Z40H-40C	40	200	145	110	85	76	18	4-φ18	323	369	200	29
	50	250	160	125	100	88	20	4-φ18	372	440	280	36
	65	280	180	145	120	110	22	8-φ18	305	473	280	39
	80	310	195	160	135	121	22	8-φ18	457	552	320	52
Z41Y-40P Z40Y-40P	100	350	230	190	160	150	24	8-φ23	552	671	360	80
	125	400	270	220	188	176	28	8-φ25	634	726	400	127
	150	450	300	250	218	204	30	8-φ25	708	883	400	154
Z41Y-40I Z40Y-40I	200	550	375	320	282	260	38	12-φ30	858	1086	450	263
	250	650	445	385	345	313	42	16-φ34	1015	1298	460	368
	300	750	510	450	408	364	46	16-φ34	1203	1535	640	547
Z540H-40C Z540Y-40P	350	850	570	510	465	422	52	16-φ34	1341	1678	640	679
	400	950	665	585	535	474	58	20-φ41	1492	1903	720	953
	450	1050	680	610	560	524	60	20-φ41	1583	2215	800	1253
	500	1150	755	670	612	576	62	20-φ41	1792	2580	950	1589
600	1350	890	795	730	678	62	20-φ41	2035	2916	950	1903	

Flange Gate Valve



DN40-100



DN150-200



DN40-80

■ Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter (mm)	PN6.4MPa										WT(kg)
		L	D	D1	D2	D6	b	Z-φd	H	H1	D0	
Z41H-64C Z40H-64C	40	200	165	125	125	125	125	4-φ23	360	389	389	29
	50	250	175	135	105	88	26	4-φ23	372	448	448	34
	65	280	200	180	130	110	28	8-φ23	395	475	280	43
Z41Y-64P Z40Y-64P	80	310	210	170	140	121	30	8-φ23	458	553	320	60
	100	350	250	200	168	150	32	8-φ25	553	649	360	89
Z41Y-64R Z40Y-64R	125	400	295	240	202	176	36	8-φ30	638	779	400	140
	150	450	340	280	240	204	38	8-φ34	718	893	450	207
Z41Y-64I Z40Y-64I	200	550	405	345	300	260	44	12-φ34	873	1100	560	325
	250	650	470	400	352	313	48	12-φ41	1053	1332	840	467
KZ41Y-64 KZ40Y-64	300	750	530	460	412	364	54	16-φ41	1203	1535	640	590
	350	850	595	525	475	422	60	16-φ41	1394	1863	720	661
Z540H-64C Z540Y-64P	400	950	670	585	525	474	66	16-φ48	1645	2070	800	972
	450	1050	670	630	570	524	70	20-φ48	1903	2381	800	1269
	500	1150	800	705	640	576	70	20-φ54	2285	2600	950	1606
	600	1350	950	820	750	678	76	20-φ58	2601	3010	950	2123

Flange Gate Valve

■ Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter (mm)	PN10.0MPa										WT(kg)
		L	D	D1	D2	D6	b	Z-φd	H	H1	D0	
Z41H-100 Z40H-100	40	240	165	125	95	76	26	4-φ23	360	389	280	51
	50	250	195	145	112	88	28	4-φ23	490	558	360	60
Z41Y-100P Z40Y-100P	65	280	220	170	138	110	32	8-φ28	540	622	400	70
	80	310	230	180	148	121	34	8-φ25	573	671	400	89
Z41Y-100R Z40Y-100R	100	350	265	210	172	150	38	8-φ30	575	671	400	130
	125	400	310	250	210	176	42	8-φ34	744	892	560	223
Z41Y-100I Z40Y-100I	150	450	350	290	250	204	46	12-φ34	800	972	560	295
	200	550	430	360	312	260	54	12-φ41	800	972	560	559
KZ41Y-100 KZ40Y-100	250	650	500	430	382	313	60	12-φ41	1050	1305	640	640
	300	750	585	500	442	364	70	16-φ48	1208	1506	640	730
Z540H-100 Z540Y-100P	350	850	655	560	498	422	76	16-φ54	1410	1915	720	850
	400	950	715	620	558	474	80	16-φ54	1655	2304	720	975

■ Main External and Connection Dimension

Unit:mm

产品型号 Type	公称通径 Nominal Diameter (mm)	PN16.0MPa										WT(kg)
		L	D	D1	D2	D6	b	Z-φd	H	H1	D0	
Z41H-160 Z40H-1600	40	240	175	125	92	76	32	4-φ27	350	395	320	32
	50	300	215	165	132	88	36	8-φ25	512	612	360	73
Z41Y-160P Z40Y-160P	65	340	245	190	152	110	44	8-φ30	560	677	360	110
	80	390	260	205	168	121	46	8-φ30	585	686	400	141
Z41Y-160R Z40Y-160R	100	450	300	240	200	150	48	8-φ34	631	751	450	185
	125	525	355	285	238	176	60	8-φ41	723	868	560	320
Z41Y-160I Z40Y-160I	150	600	390	318	270	204	66	12-φ41	820	997	640	462
	200	750	480	400	345	250	78	12-φ48	990	1224	720	711
KZ41Y-160 KZ40Y-160	250	850	580	485	425	313	88	12-φ54	1104	1503	800	923
	300	950	665	570	510	364	100	16-φ54	1314	1934	800	1204
Z540H-160 Z540Y-160P	350	-	640	559	424	414.5	86	20-φ42	1600	2315	950	1450
	400	-	705	616	487	71.5	89	20-φ45	1823	2660	950	1700

■ Chief Features

- Fullport ,outside screw and yoke(OS&Y)
- Bolte Bonnet
- Flexinle Wedge, Fully Guided
- Risng Stem And Non-rising Handwheel
- Available With Gear Operator
- Flanged Ends
- Butt-welding Ends

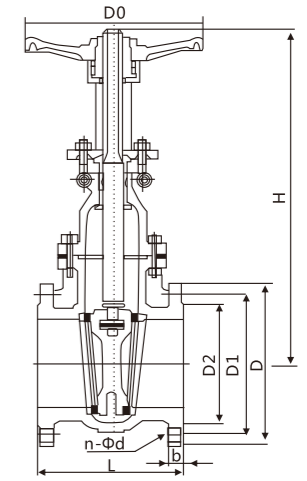
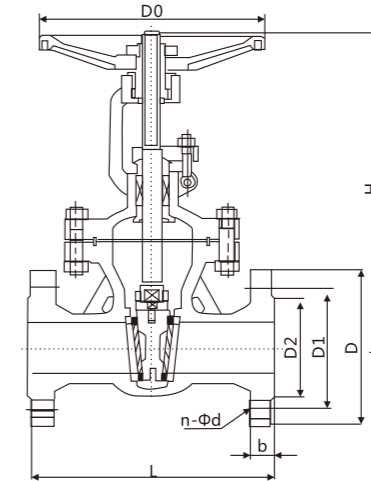


■ Prodrct Specification

Product Specification	Design spec	Face to Face	Flanged End	Test & Check	Pressure-Temp	Marking	Supply
	API 600	ANSI B16.10	ANSI B16.5	API 598	ANSI B16.34	MSS SP-25	API 608
	API 6D	API6D		API6D			API 6D

■ Main Part Material

Part Name	Part Material			
Body/Bonnet	A216-WCB	A217-WC6	A352-LCB	A351-CF8M
Plsc	A182-WCB	A217-WC6	A352-LCB	A351-CF8M
Stem	A182-F6a	A182-F11	A182-F6a	A182-F316
Packing	Flexible Graphite		PTFE	
Gasket	18-8Flexible Graphite			
Bolt	A193-B7	A193-B7	A193-B7M	A193-B8
Sultable Temp	-29-425°C	-29-550°C	-40-350°C	-40-200°C
Suitable Medium	water,oll,steam	oll,steam	Steam, Oil	Nitrc Acid

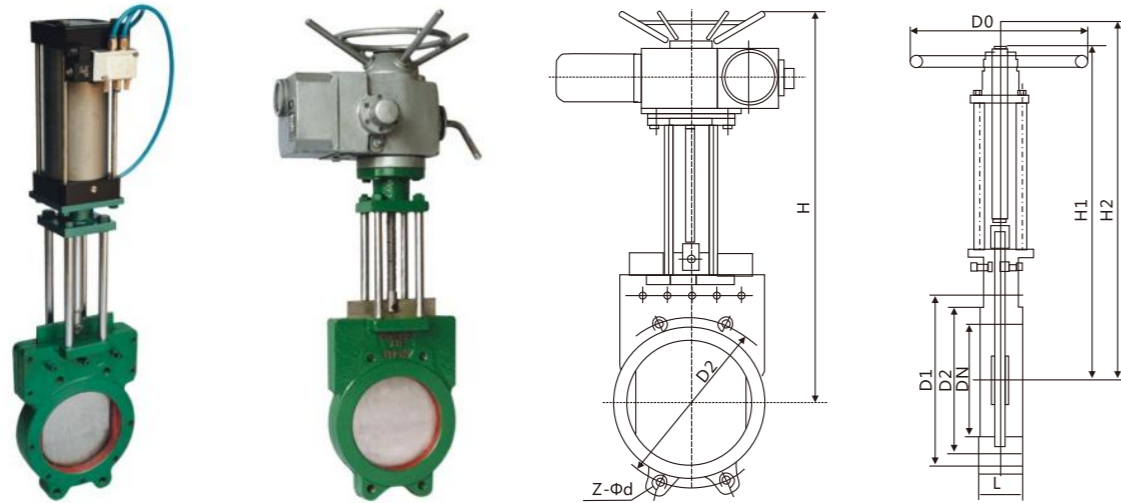


■ Main External and Connection Dimension

Unit:mm

Type	NominalDiameter		Class 150Lb								WT(kg)
	in	mm	L	D	D1	D2	b	Z-Φd	H	D0	
Z40H-150Lb (Body:WCB) Z40H-150Lb P (Body:CF8) Z40H-150Lb (Body:CF8) Z40H-150Lb R (Body:CF8M) Z40H-150Lb PL (Body:CF3) Z40H-150Lb RL (Body:CF3M)	2"	50	178	152	120.5	92	16	4-Φ19	323	200	18
	2 1/2"	65	190	178	139.5	105	18	4-Φ19	347	250	28
	3"	80	203	190	152.5	127	19	4-Φ19	383	250	30
	4"	100	229	229	190.5	157	24	8-Φ19	457	300	50
	5"	125	254	254	216	186	24	8-Φ22	632	300	63
	6"	150	267	279	241.5	216	26	8-Φ22	635	350	85
	8"	200	292	343	298.5	270	29	8-Φ22	762	350	128
	10"	250	330	406	362	324	31	12-Φ25	895	400	220
	12"	300	356	483	432	381	32	12-Φ25	1080	500	310
	14"	350	381	533	476	413	35	12-Φ29	1295	600	450
	16"	400	406	597	540	470	37	16-Φ29	1435	600	550
	18"	450	432	635	578	593	40	16-Φ32	1626	650	700
20"	500	457	698	635	584	43	20-Φ32	1829	650	910	
24"	600	508	813	749.5	692	48	20-Φ35	2175	700	1130	
28"	700	610	984	814.5	857	75	28-Φ35	2695	700	2230	

Slurry Valve

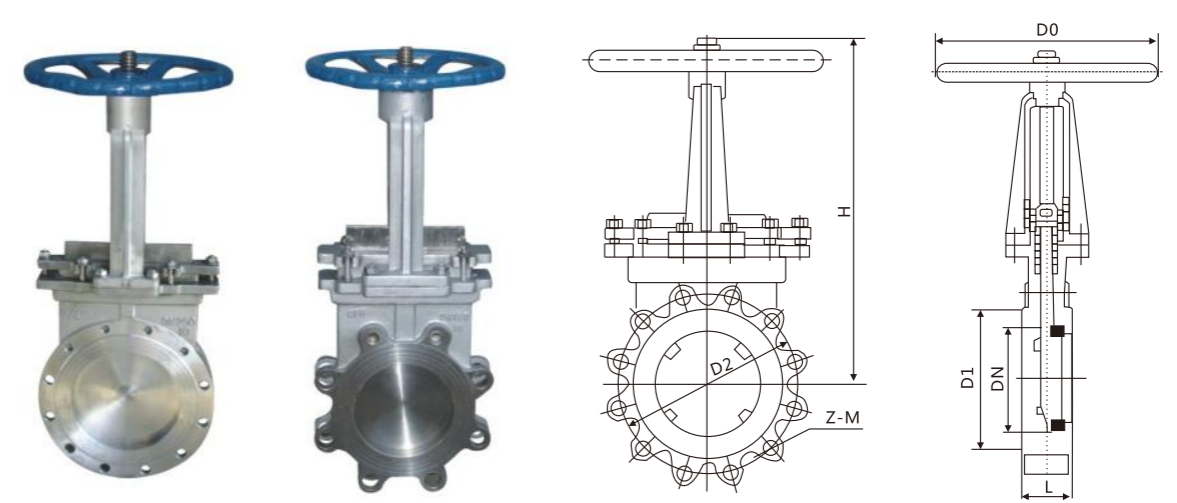


■ Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter (mm)	L	D1	D2	Z-M	H	H1	D0	WT(kg)
Z73X-2.5 Z73X-6 Z73X-10 Z573X-2.5 Z573X-6 Z573X-10 Z673X-2.5 Z673X-6 Z673X-10 Z973X-2.5 Z973X-6 Z973X-10	50	40	125	100	4-M16	337	268	180	80
	65	40	145	120	4-M16	357	291	180	90
	80	50	160	135	8-M16	400	316	180	112
	100	50	180	155	8-M16	466	364	200	140
	150	60	270	210	8-M20	633	478	240	195
	200	60	295	265	8-M20	744	543	280	260
	250	70	350	318	12-M20	940	687	360	370
	300	70	400	368	12-M20	1087	783	360	455
	350	80	460	430	16-M20	1238	885	400	640
	400	80	515	482	16-M24	1394	994	400	960
	450	90	565	532	20-M24	1550	1100	400	1280
	500	90	620	585	20-M24	1700	1200	400	1710
	600	100	725	685	20-M27	2080	1480	400	1895
	700	100	840	800	24-M27	1720	2470	800	2100
800	120	950	905	24-M30	2000	2900	800	2410	
900	150	1050	1005	28-M30	2130	3100	800	2660	
Z73X-16 Z573X-16C Z673X-16C Z973X-16C	200	60	295	180	12-M20	754	552	240	265
	250	68	355	230	12-M24	945	692	240	376
	300	78	410	280	12-M24	1010	788	370	455
	350	78	470	330	16-M24	1245	890	370	648
	400	102	525	380	16-M24	1685	1000	400	970
	450	114	585	430	20-27	1835	1110	400	1300
	500	127	650	480	20-30	1926	1230	400	1760
600	154	770	700	20-36	2360	1500	800	1980	

Knife Gate Valve



■ Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter (mm)	L	D1	D2	Z-M	H	H1	D0	WT(kg)
Z73W-10 Z73H-10C Z73W-10P Z573W-10 Z573H-10C Z573W-10P Z673W-10 Z673H-10C Z673W-10P Z973W-10 Z973H-10C Z973W-10P	50	48	160	125	100	4-M16	285	180	8
	65	48	180	145	120	4-M16	298	180	10
	80	50	195	160	135	4-M16	315	220	12
	100	50	215	180	155	8-M16	365	220	14
	150	57	280	240	210	8-M20	475	280	29
	200	70	335	295	265	8-M20	540	360	38
	250	70	390	350	320	12-M20	630	360	66
	300	76	440	400	368	12-M20	780	400	100
	350	76	500	460	428	16-M20	885	400	119
	400	89	565	515	482	16-M22	990	400	195
	450	89	615	565	532	20-M22	1100	530	285
	500	114	670	620	585	20-M22	1200	530	389
	600	114	780	725	685	20-M27	1450	600	529
	Z73H-16C Z73W-16P Z73Y-16P Z573H-16C Z573W-16P Z573Y-16P Z673H-16C Z673W-16P Z673Y-16P Z973H-16C Z973W-16P Z973Y-16P	50	48	165	125	99	4-M16	285	180
65		48	185	145	118	4-M16	295	180	10.7
80		50	200	160	132	8-M15	315	220	13
100		50	220	180	156	8-M16	365	220	15
150		57	285	240	211	8-M20	475	280	31
200		70	340	295	266	12-M20	540	360	40.7
250		70	405	355	319	12-M24	630	360	70
300		76	460	410	370	12-M24	780	400	107
350		76	520	470	429	16-M24	885	400	129
400		89	580	525	480	16-M27	990	400	215
450		89	640	585	548	20-M27	1100	530	305
500	114	715	650	609	20-M30	1200	530	410	
600	114	840	775	720	20-M33	1450	600	550	

■ Main External and Connection Dimension

Unit:mm

Type	NominalDiameter		Class 300Lb								WT(kg)
	in	mm	L	D	D1	D2	b	Z-Φd	H	D0	
Z40H-300Lb (Body:WCB) Z40H-300Lb P (Body:CF8) Z40H-300Lb (Body:CF8) Z40H-300Lb R (Body:CF8M) Z40H-300Lb PL (Body:CF3) Z40H-300Lb RL (Body:CF3M)	2"	50	216	185	127	92	22	8-Φ19	330	250	30
	2 1/2"	65	241	190	149	105	25	8-Φ22	368	250	36
	3"	80	283	210	168.5	127	29	8-Φ22	394	300	61
	4"	100	305	254	200	157	32	8-Φ22	473	300	77
	5"	125	381	279	235	186	35	8-Φ22	660	350	106
	6"	150	403	318	270	216	37	12-Φ22	711	350	153
	8"	200	419	381	330	270	41	12-Φ25	813	400	286
	10"	250	457	444	387.5	324	48	16-Φ29	1003	500	412
	12"	300	502	521	451	381	51	16-Φ32	1137	600	576
	14"	350	762	584	514.5	413	54	20-Φ32	1489	600	886
	16"	400	838	648	571.5	470	57	20-Φ35	1581	650	1175
	18"	450	914	711	628.5	593	60	24-Φ35	2017	838	1301
20"	500	991	775	686	584	64	24-Φ35	2228	889	1672	
24"	600	1143	914	813	692	70	24-Φ41	2650	1092	2562	

■ Main External and Connection Dimension

Unit:mm

Type	NominalDiameter		Class 600Lb								WT(kg)
	in	mm	L	D	D1	D2	b	Z-Φd	H	D0	
Z40H-600Lb (Body:WCB) Z40H-600Lb P (Body:CF8) Z40H-600Lb (Body:CF8) Z40H-600Lb R (Body:CF8M) Z40H-600Lb PL (Body:CF3) Z40H-600Lb RL (Body:CF3M)	2"	50	292	165	127	92	33	8-Φ19	510	254	44
	2 1/2"	65	330	190	149	105	36	8-Φ22	554	254	60
	3"	80	356	210	188	127	39	8-Φ22	595	305	80
	4"	100	432	273	216	157	45	8-Φ25	712	356	145
	5"	125	508	330	266.5	186	52	8-Φ29	826	406	236
	6"	150	559	356	292	216	55	12-Φ29	995	508	309
	8"	200	660	419	349	270	63	12-Φ32	1157	610	522
	10"	250	787	508	432	324	71	16-Φ35	1373	686	779
	12"	300	838	559	489	381	74	20-Φ35	1603	686	1108
	14"	350	889	603	527	413	77	20-Φ38	1930	762	1503
	16"	400	991	686	603	470	84	20-Φ41	2032	889	1939
	18"	450	1092	743	654	593	90	20-Φ44	2286	889	2733
20"	500	1194	813	724	584	96	24-Φ44	2591	1118	3214	
24"	600	1397	940	838	692	109	24-Φ52	3124	1118	4177	

■ Chief Features

- Streamline ,outside screw and yoke(OS&Y)
- Bolte Bonnet
- Loose Disc
- Risng Stem And Handwheel
- Yoke Integral With Bonnet
- Available With Gear Operator
- Flanged End



■ Prodrct Specification

Product Specification	Design spec	Face to Face	Flanged End	Test & Check	Pressure-Temp	Marking	Supply
	GB/T 12235	GB/T 12221	JB/T 79	JB/T 9092	GB/T 9131	GB/T 12220	JB/T 7928

■ Main Part Material

Part Name	Body Material Code			
Body/Bonnet	WCB	ZGCr5Mo	ZG1Cr18Ni9Ti	ZG0Cr18Ni12Mo2Ti
Plsc	WCB	25Cr2MoV	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
Stem	2Cr13	25Cr2MoV	1Cr18Ni9Ti	1Cr18Ni12Mo2Ti
Packing	Flexible Graphite		PTFE	
Gasket	18-8柔性石墨/18-8Flexible Graphite			
Bolt	35/35CrMo	25CrMoV	1Cr18Ni9	1Cr18Ni9
Sultable Temp	-29-425°C	-29-550°C	-40-200°C	-40-200°C
Suitable Medium	水、油品、蒸汽 water,oil,steam	油品、蒸汽 oil,steam	硝酸类 Nitric Acid	醋酸类 Acetic Acid

■ Chief Features

- Streamline ,outside screw and yoke(OS&Y)
- Bolte Bonnet
- Loose Disc
- Risng Stem And Handwheel
- Yoke Integral With Bonnet
- Available With Gear Operator
- Flanged End

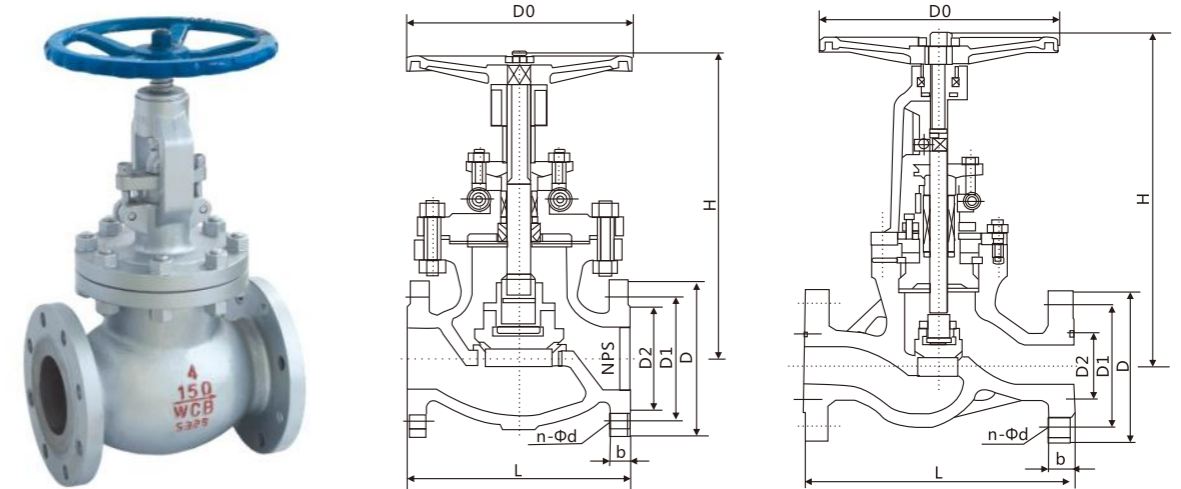


■ Prodrct Specification

Product Specification	Design spec	Face to Face	Flanged End	Test & Check	Pressure-Temp	Marking	Supply
	API 600	ANSI B16.10	ANSI B16.5	API 598	ANSI B16.34	MSS SP-25	API 600
	BS 5160						BS 5160

■ Main Part Material

Part Name	阀体材料 Body Material Code			
Body/Bonnet	A216-WCB	A217-WC6	A352-LCB	A351-CF8
Plsc	A105	A182-F11	A182-F304	A182-F316
Stem	A182-F6a	A182-F11	A182-F6a	A182-F316
Packing	柔性石墨/Flexible Graphite		聚四氟乙烯/PTFE	
Gasket	18-8柔性石墨/18-8Flexible Graphite			
Bolt	A193-B7	A193-B7	A193-B7M	A193-B8
Suitable Temp	-29-425°C	-29-550°C	-46-350°C	-40-200°C
Suitable Medium	水、油品、蒸汽 water,oil,steam	油品、蒸汽 oil,steam	丙烷、乙烯 Steam, Oil	硝酸类 Nitrc Acid



■ Main External and Connection Dimension

Unit:mm

Type	NominalDiameter		Class 150Lb								WT(kg)
	in	mm	L	D	D1	D2	b	Z-Φd	H	D0	
J41H-150Lb J41W-150LbP J41H-150LbR J41W-150LbR J41H-150LbL J41W-150LbRL	1/2"	15	108	89	60.5	35	12	4-Φ15	169	125	5.0
	3/4"	20	117	98	70	43	12	4-Φ15	180	125	7.0
	1"	25	127	108	79.5	51	12	4-Φ15	190	125	9.0
	1 1/2"	40	165	127	98.5	73	14.3	4-Φ16	347	180	15.0
	2"	50	203	152	120.5	92	15.9	4-Φ19	356	180	18
	2 1/2"	65	216	178	139.5	105	17.5	4-Φ19	381	240	30
	3"	80	241	190	152.4	127	19.1	4-Φ19	411	280	41
	4"	100	292	229	190.5	157	24	8-Φ19	454	280	64
	5"	125	356	254	216	186	24	8-Φ22	541	320	86
	6"	150	406	279	241.5	216	25.4	8-Φ22	565	360	113
	8"	200	495	343	298.5	270	29	8-Φ22	800	450	115
	10"	250	622	406	362	324	31	8-Φ25	1231	500	295
12"	300	698	483	432	381	32	8-Φ25	1450	600	450	

■ Main External and Connection Dimension

Unit:mm

Type	NominalDiameter		Class 300Lb								WT(kg)
	in	mm	L	D	D1	D2	b	Z-Φd	H	D0	
J41H-300Lb J41W-300LbP J41H-300LbP J41W-300LbR J41H-300LbL J41W-300LbRL	1/2"	15	152	95	66.5	35	15	4-Φ15	190	125	5.2
	3/4"	20	178	117	82.5	43	16	4-Φ19	212	125	7.3
	1"	25	203	124	89	51	18	4-Φ19	231	125	9.5
	1 1/2"	40	229	156	114.5	73	20.7	4-Φ22	391	180	17.6
	2"	50	267	165	127	92	22	8-Φ19	406	180	26
	2 1/2"	65	292	190	149	105	25	8-Φ22	457	240	30
	3"	80	318	210	168.5	127	29	8-Φ22	470	280	35
	4"	100	356	254	200	157	32	8-Φ22	590	280	56
	5"	125	440	279	235	186	35	8-Φ22	614	320	96
	6"	150	444	318	270	216	37	12-Φ22	711	360	120
	8"	200	559	381	330	270	42	12-Φ25	750	450	212
	10"	250	622	441	387.5	324	48	16-Φ29	1012	500	460
12"	300	711	521	451	381	51	16-Φ32	1231	600	615	

■ Main External and Connection Dimension

Unit:mm

Type	NominalDiameter		Class 600Lb								WT(kg)
	in	mm	L	D	D1	D2	b	Z-Φd	H	D0	
J41H-600Lb J41W-600LbP J41H-600LbP J41W-600LbR J41H-600LbL J41W-600LbRL	1/2"	15	165	95	66.5	35	22	4-Φ15	285	160	6.0
	3/4"	20	190	117.5	82.5	43	23	4-Φ19	285	160	10.0
	1"	25	216	124	89	51	25	4-Φ19	313	160	12.0
	1 1/2"	40	241	156	114.5	73	30	4-Φ22	365	240	19.0
	2"	50	292	165	127	92	33	8-Φ19	444	240	35
	2 1/2"	65	330	190	149	105	36	8-Φ22	483	240	50
	3"	80	356	210	168	127	39	8-Φ22	533	280	60
	4"	100	432	273	216	157	45	8-Φ25	622	360	110
	5"	125	508	330	267	186	52	8-Φ29	750	360	200
	6"	150	559	356	292	216	55	12-Φ29	800	500	230
	8"	200	600	419	349	270	63	12-Φ32	927	550	410
	10"	250	787	508	432	324	71	16-Φ35	1257	600	770
12"	300	838	559	489	381	74	20-Φ35	1468	680	1140	

Ball Valve Series

■ Chief Features

- Fullport ,Floating Or Trunnion Mounted Type
- Bolte Bonnet
- Blow Out Proof Stem
- Structure Improve on API
- Opening And Closing Position
- Available With Worm Gear Operator
- Flanged Ends
- Butt-welding Ends

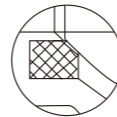
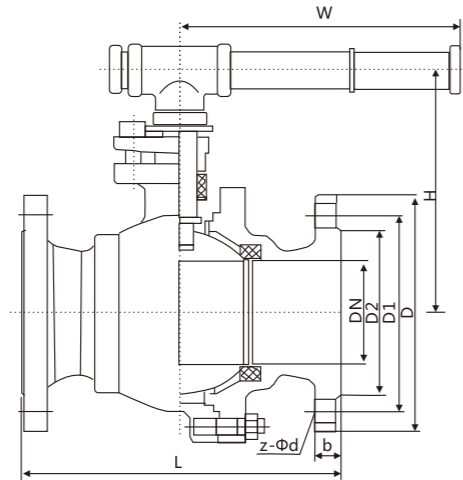
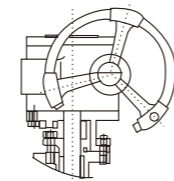


■ Prodrct Specification

Product Specification	Design spec	Face to Face	Flanged End	Test & Check	Marking	Supply
	GB/T 12237 JB/T 7745	GB/T 12237 JB/T 7745	JB/T 79	JB/T 9092	GB/T12220	JB/T 7928
	API 608 API 6D	ANSI B16.10 API6D	ANSI B16.5	API 598 API6D	MSS SP-25 API 6D	API 608 API 6D

■ Main Part Material

Part Name	Body Material Code					
	JB/T 7298			API 608/API 6D		
Body/Bonnet	WCB	25	ZG1Cr18Ni9Ti	WCB	A105	CF8M
Ball	2Cr13	2Cr13	1Cr18Ni9Ti	A182-F304	A182-F304	A182-F316
Stem	2Cr13	2Cr13	1Cr18Ni9Ti	A182-F6a	A182-F6a	A182-F316
Seat Ring	25		1Cr18Ni9Ti	A105		A182-F316
Seat	PTFE		R.PTFE	PTFE		R.PTFE
Packing	PTFE+FPM			PTFE+FPM		
Gasket	18-8Flexible Graphite					
Bolt	35	35	1Cr18Ni9Ti	A193-B7	A193-B7	A193-B8M
Sultable Temp	-29-212°C		-40~121°C		-29-121°C	
Suitable Medium	water,oll,steam		Nitrc Acid	water,oll,steam		Nitrc Acid


 防火结构
Fire durable

 蜗轮传动
Worm gear operation

■ Main External and Connection Dimension

单位 Unit:mm

Type	Nominal Diameter	PN1.6MPa								WT(kg)
		L	D	D1	D2	b	Z-Φd	H	W	
Q41F-16C Q41F-16P	15	130	95	65	45	14	4-Φ14	78	140	3
	20	140	105	75	55	14	4-Φ14	84	160	4
	25	150	115	85	65	14	4-Φ14	95	180	5
	32	165	135	100	78	16	4-Φ18	150	250	9
	40	180	145	110	85	16	4-Φ18	150	300	11
Q641F-16C Q641F-16P	50	200	160	125	100	16	4-Φ18	170	350	15
	65	220	180	145	120	18	4-Φ18	195	350	19
Q9B41F-16C Q9B41F-16P	80	250	195	160	135	20	8-Φ18	215	400	27
	100	280	215	180	155	20	8-Φ18	250	500	38
	125	320	245	210	185	22	8-Φ18	265	600	58
	150	360	280	240	210	24	8-Φ18	270	800	81
	200	400	335	295	265	26	12-Φ23	330	800	95
	250	450	405	355	320	30	12-Φ25	450	1300	140

■ Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter	PN2.5MPa								WT(kg)
		L	D	D1	D2	b	Z-Φd	H	W	
Q41F-25C Q41F-25P	15	130	95	65	45	16	4-Φ14	103	100	3
	20	140	105	75	55	16	4-Φ14	112	160	4
	25	150	115	85	65	16	4-Φ14	123	160	6
	32	178	135	100	78	18	4-Φ18	150	250	10
Q641F-25C Q641F-25P	40	190	145	110	85	18	4-Φ18	156	250	14
	50	216	160	125	100	20	4-Φ18	172	350	20
	65	241	180	145	120	22	8-Φ18	197	350	25
Q9B41F-25C Q9B41F-25P	80	283	195	160	135	22	8-Φ18	222	450	30
	100	305	230	190	160	24	8-Φ23	253	450	40
	125	381	270	220	188	28	8-Φ25	275	600	65
	150	403	300	250	218	30	8-Φ25	286	800	85
	200	502	360	310	278	34	12-Φ25	340	1200	100
	250	568	425	370	332	36	12-Φ30	470	1400	165

■ Main External and Connection Dimension

Unit:mm

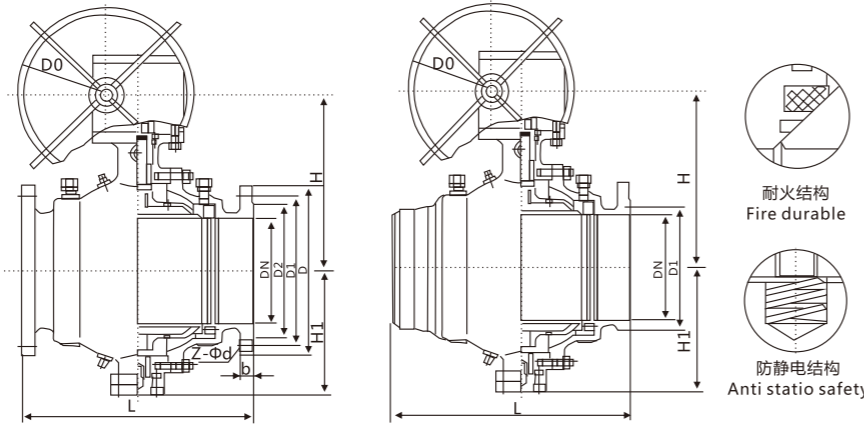
Type	(mm) Nominal Diameter	PN4.0MPa								WT(kg)
		L	D	D1	D2	b	Z-Φd	H	W	
Q41F-40C Q41F-40P	15	140	95	65	45	16	4-Φ14	103	100	3
	20	152	105	75	55	16	4-Φ14	112	160	4
	25	165	115	85	65	16	4-Φ14	123	160	6
	32	180	135	100	78	18	4-Φ18	150	250	10
Q641F-40C Q641F-40P	40	200	145	110	85	18	4-Φ18	156	250	14
	50	220	160	125	100	20	4-Φ18	172	350	20
	65	250	180	145	120	22	8-Φ18	197	350	25
Q9B41F-40C Q9B41F-40P	80	280	195	160	135	22	8-Φ18	222	450	30
	100	320	230	190	160	24	8-Φ23	253	450	40
	125	400	270	220	188	28	8-Φ25	275	600	65
	150	403	300	250	218	30	8-Φ25	286	800	85
	200	502	375	320	282	38	12-Φ30	340	1200	100
	250	568	445	385	345	42	12-Φ34	470	1400	165

■ Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter	PN6.4MPa								WT(kg)
		L	D	D1	D2	b	Z-Φd	H	W	
Q41F-64C Q41F-64P	15	165	105	75	55	18	4-Φ14	105	130	3.1
	20	190	125	90	68	20	4-Φ18	125	130	4.9
	25	216	135	100	78	22	4-Φ18	135	160	7.2
	32	229	150	110	82	24	4-Φ23	150	160	8.7
Q641F-64C Q641F-64P	40	241	165	125	95	24	4-Φ23	165	230	12.1
	50	292	175	135	105	26	4-Φ23	175	230	16.7
	65	330	200	160	130	28	8-Φ23	200	400	28.2
Q9B41F-64C Q9B41F-64P	80	356	210	170	140	30	8-Φ23	210	400	36
	100	482	250	200	168	32	8-Φ25	250	700	66
	125	508	295	240	202	36	8-Φ30	295	1100	98
	150	559	340	280	240	38	8-Φ34	340	1500	142

Trunnion-mounted Ball Valves



■ Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter	PN1.6MPa									WT(kg)
		L	D	D1	D2	b	Z-Φd	H	H1	D0	
Q47F-16C Q67F-16C Q47F-16P	50	178	160	125	100	16	4-Φ18	177	120	-	15
	65	190	180	145	120	18	4-Φ18	190	140	-	19
	80	203	195	160	135	20	8-Φ18	210	150	-	27
	100	229	215	180	155	20	8-Φ18	235	172	-	38
	125	356	245	210	185	22	8-Φ18	350	215	-	58
Q347F-16C Q367F-16C Q347F-16P	150	394	280	240	210	24	8-Φ23	530	250	-	81
	200	457	335	295	265	26	12-Φ23	620	290	600	140
Q647F-16C Q667F-16C Q647F-16P	250	533	405	355	320	30	12-Φ25	650	320	600	160
	300	610	460	410	375	30	12-Φ25	780	360	600	205
Q747F-16C Q767F-16C Q747F-16P	350	686	520	470	435	34	16-Φ25	790	395	800	260
	400	762	580	525	485	36	16-Φ30	920	450	800	390
Q9B47F-16C Q9B67F-16C Q9B47F-16P	450	864	640	585	545	40	20-Φ30	970	490	800	510
	500	914	705	650	608	44	20-Φ34	1100	530	800	750
	600	1067	740	770	718	48	20-Φ41	1150	590	800	1200
700	1245	910	840	788	50	24-Φ41	1850	700	800	2100	

Trunnion-mounted Ball Valves

■ Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter	PN2.5MPa									WT(kg)
		L	D	D1	D2	b	Z-Φd	H	H1	D0	
Q47F-25 Q47F-25P Q67F-25	50	216	160	125	100	20	4-Φ18	177	120	-	20
	65	241	180	145	120	22	8-Φ18	190	140	-	25
	80	283	195	160	135	22	8-Φ18	210	150	-	30
Q347F-25 Q347F-25P Q367F-25	100	305	230	190	160	24	8-Φ23	235	172	-	40
	125	381	270	220	188	28	8-Φ25	350	215	-	65
	150	403	300	250	218	30	8-Φ25	530	250	-	85
Q647F-25 Q647F-25P Q667F-25	200	502	360	310	278	34	12-Φ25	620	290	600	100
	250	568	425	370	332	36	12-Φ30	650	320	600	182
	300	648	485	430	390	40	16-Φ30	780	360	600	212
Q747F-25 Q747F-25P Q767F-25	350	762	550	490	448	44	16-Φ34	790	395	800	288
	400	838	610	550	505	48	16-Φ34	920	450	800	468
	450	914	660	600	555	50	20-Φ34	970	490	800	587
Q9B47F-25 Q9B47F-25P Q9B67F-25	500	991	730	660	610	52	20-Φ41	1100	530	800	863
	600	1143	840	770	718	56	20-Φ41	1150	590	800	1396
	700	1346	955	875	815	60	24-Φ48	1850	700	800	2415

■ Main External and Connection Dimension

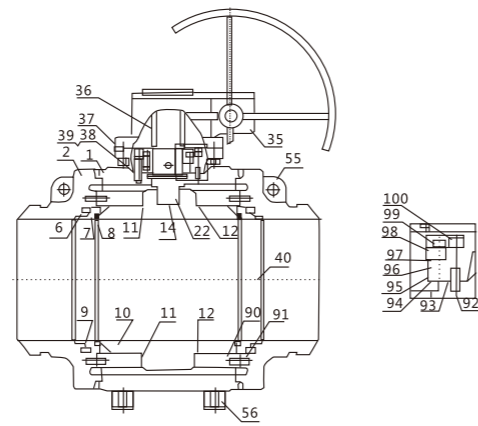
Unit:mm

产品型号 Type	公称通径 (mm) Nominal Diameter	PN4.0MPa									WT(kg)
		L	D	D1	D2	b	Z-Φd	H	H1	D0	
Q47F-40 Q47F-40P Q67F-40	50	216	160	125	100	20	4-Φ18	177	120	-	20
	65	241	180	145	120	22	8-Φ18	190	140	-	25
	80	283	195	160	135	22	8-Φ18	210	150	-	30
Q347F-40 Q347F-40P Q367F-40	100	305	230	190	160	24	8-Φ23	235	172	-	40
	125	381	270	220	188	28	8-Φ25	350	215	-	65
	150	403	300	250	218	30	8-Φ25	530	250	-	85
Q647F-40 Q647F-40P Q667F-40	200	502	375	320	282	38	12-Φ30	620	290	600	100
	250	568	445	385	345	42	12-Φ34	650	320	600	182
	300	648	510	450	408	46	16-Φ34	780	360	600	212
Q747F-40 Q747F-40P Q767F-40	350	762	570	510	465	52	16-Φ34	790	395	800	288
	400	838	655	585	535	58	16-Φ41	920	450	800	468
	450	914	680	610	560	60	20-Φ41	970	490	800	587
Q9B47F-40 Q9B47F-40P Q9B67F-40	500	991	755	670	612	62	20-Φ48	1100	530	800	863
	600	1143	890	795	730	62	20-Φ54	1150	590	800	1396
	700	1346	995	900	835	68	24-Φ54	1850	700	800	2415

■ Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter	PN6.4MPa									WT(kg)	
		L	D	D1	D2	D8	b	Z-Φd	H	H1		D0
Q47F-64 Q47F-64P Q67F-64	50	292	175	135	105	88	26	4-Φ23	177	120	-	21
	65	330	200	160	130	110	28	8-23	190	140	-	28
	80	356	210	170	140	121	30	8-23	210	150	-	36
Q347F-64 Q347F-64P Q367F-64	100	432	250	200	168	150	32	8-25	235	172	-	66
	125	508	295	240	202	176	36	8-30	350	215	-	98
	150	559	340	280	240	204	38	8-34	530	250	-	142
Q647F-64 Q647F-64P Q667F-64	200	660	405	345	300	260	44	12-34	620	290	600	287
	250	787	470	400	352	313	48	12-41	650	320	600	540
	300	838	530	460	412	364	54	16-41	780	360	600	780
Q747F-64 Q747F-64P Q767F-64	350	889	595	525	475	422	60	16-41	790	395	800	1000
	400	991	670	585	525	474	66	16-48	920	450	800	1300
	450	1092	670	630	570	524	70	20-48	970	490	800	1700
Q9B47F-64 Q9B47F-64P Q9B67F-64	500	1194	800	705	640	576	70	20-54	1100	530	800	2100
	600	1397	930	820	750	678	76	20-58	1150	590	800	3400

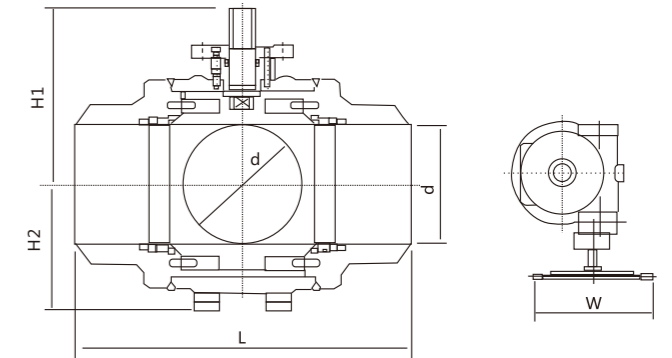


■ Technical Specification

Pressures, The Temperature Class: According to ASME B16.34
 wall Thickness of The valve: ASME B16.34
 The Size of The Flow Hole: API6D
 Face-to-face Dimension: ASME B16.10
 The Size of The Welding End: ASME B16.25
 Test And Inspection: API 598
 Selection of Materials For The Body: A105,LF2,LF3,F304,F316

■ Main Part Material

NO.	Name	Carbon steel series material	NO.	Name	Carbon steel series material
1	Canter bodies	ASTM A105	40	Oil injection valve	Carbon steel
2	About bodies	ASTM A105	55	Hanger plates	Carbon steel
6	Springs	INCONELX-750	56	Valve seat	Carbon steel
7	Valve seats support rings	ASTM A105	58	Sewage valve/ venting valve	Carbon steel
8	Seel packing collars	RPTFE/VITON	90	Scale board	ASTM A105
9	O ring seal circle	VITON	91	scale board pins	ANSI 1025
10	Spheroids	ASTM A105	92	Positioningpins	ANSI 1025
11	Sliding bearings	304+PTFE	93	O seal packing collar	VITON
12	Thrust bearings	304+PTFE	94	Valve lever filing piece	304+PTFE
14	Static electricity springs	ASTM A276-316	95	O seal packing collar	VITON
22	stem	ASTM A182-F6a	96	Joins the plate	ASTM A105
35	Worm-gear case	CAST IRON	97	O seal packing collar	VITON
36	key	ANSI 1045	98	Gland bush	ASTM A105
37	Bolt	ASTM A193-B7/B7M	99	Bolt	ASTM A193-B7/B7M
38	Stud	ASTM A193-B7/B7M	100	Bolt	ASTM A193-B7/B7M
39	Hexagonal nut	ASTM A194-2H/2HM			



■ Main Part Material

Pressure	NPS	(inch)					weight (kg)
		d	L	H1	H2	W	
150Lb 300Lb	6	6	18	11.93	7.28	18.1	185
	8	8	20.5	13.47	8.9	19.1	276
	10	10	22	14.9	10.7	27.8	385
	12	12	25	16.44	12.25	27.8	535
	14	13.25	30	17.9	13.7	27.8	735
	16	15.25	33	21.95	16.4	31.5	1585
	18	17.25	36	23.54	17.83	31.5	2340
	20	19.25	39	24.8	18.86	31.5	2520
	24	23.25	45	27.79	23.11	31.5	3985
	26	25	49	30.59	23.62	31.5	4800
	28	27	53	31.49	25.59	31.5	5760
	30	29	55	33.85	27.24	31.5	6715
32	30.75	60	35.75	28.98	31.5	8120	

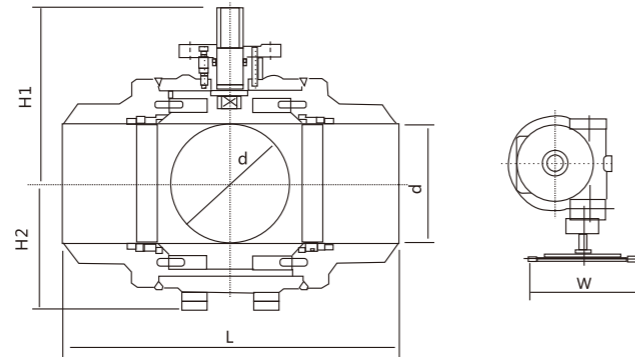
Nominal Pressure	DN	(inch)					weight (kg)
		d	L	H1	H2	W	
2.0MPa 5.0MPa	150	152	457	303	185	460	185
	200	203	521	342	226	460	276
	250	254	559	378.5	272	705	385
	300	305	635	418	311	705	535
	350	337	762	455	348	705	735
	400	387	838	558	417	800	1585
	450	438	914	598	453	800	2340
	500	489	991	630	479	800	2520
	600	591	1143	705	587	800	3985
	650	635	1245	777	600	800	4800
700	686	1346	800	650	800	5760	
750	737	1397	860	692	800	6715	
800	781	1524	908	736	800	8120	

■ Main Part Material

Pressure	NPS	(inch)					weight (kg)
		d	L	H1	H2	W	
600Lb	6	6	22	12.17	9.65	18.1	230
	8	8	26	14.1	11.81	27.8	445
	10	10	31	16.1	13.38	27.8	658
	12	12	33	18.68	15.35	31.5	952
	14	13.25	35	19.75	16.85	31.5	1330
	16	15.25	39	20.96	18.70	31.5	2040
	18	17.25	43	25.04	21.45	31.5	2890
	20	19.25	47	26.75	22.44	31.5	3350
	22	21.25	51	28.56	24.72	31.5	4165
	24	23.25	55	30.12	27.56	31.5	5650

Nominal Pressure	DN	(inch)					weight (kg)
		d	L	H1	H2	W	
10.0MPa	150	152	558.8	309	245	460	230
	200	203	660.4	358	300	705	445
	250	254	787	409	340	705	658
	300	305	838	474.4	390	800	952
	350	337	889	592	428	800	1330
	400	387	890.6	532.3	475	800	2040
	450	435	1092.2	636	545	800	2890
	500	489	1193	674.8	570	800	3350
	550	540	1295.4	725	828	800	4165
	600	591	1397	765	700	800	5650

All-Welded ball valve



■ Main Parts Name And Material

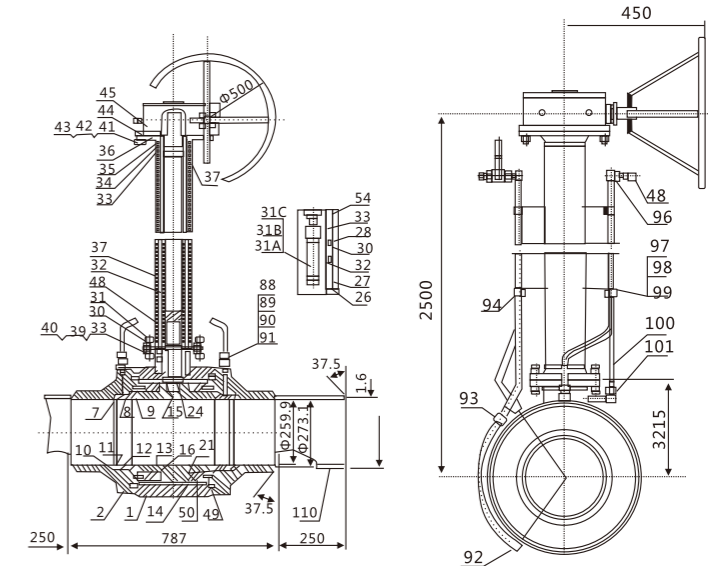
Pressure	NPS	(inch)					weight (kg)
		d	L	H1	H2	W	
900Lb	6	6	24	12	11.81	27.8	330
	8	8	29	15.6	15.74	31.5	595
	10	10	33	16.93	16.93	31.5	935
	12	12	38	18.3	17.91	31.5	1485
	14	12.75	40.5	21.45	21.45	31.5	1955
	16	14.75	44.5	24.21	24.21	31.5	2975
	18	16.75	48	26.97	25.39	31.5	4010
	20	18.625	52	29.52	26.97	31.5	4710
	24	22.5	61	35.23	30.51	31.5	8285

Nominal Pressure	DN	(mm)					weight (kg)
		d	L	H1	H2	W	
16.0MPa	150	152	609.6	305	300	705	330
	200	203	736.6	395	400	800	595
	250	254	838.2	430	430	800	935
	300	305	965.2	465	455	800	1485
	350	324	1028.7	545	545	800	1955
	400	375	1130.3	615	615	800	2975
	450	425.5	1219.2	685	645	800	4010
	500	473	1320.8	750	685	800	4710
	600	571.5	1549.4	895	775	800	8285

Pressure	NPS	(inch)					weight (kg)
		d	L	H1	H2	W	
1500Lb	6	5.75	27.75	14.96	11.81	31.5	503
	8	7.625	32.75	19.29	15.75	31.5	795
	10	9.5	39	20.07	16.93	31.5	1615
	12	11.375	44.5	22.05	18.11	31.5	1945
	14	12.5	49.5	25	21.65	31.5	3350
	16	14.25	54.5	26.97	24.40	31.5	4615

Pressure	DN	(inch)					weight (kg)
		d	L	H1	H2	W	
25.0MPa	150	146	704.9	380	300	800	503
	200	194	831.9	490	400	800	795
	250	241	990.6	510	430	800	1615
	300	289	1130.3	560	460	800	1945
	350	317.5	1257.3	635	550	800	3350
	400	362	1384.3	685	620	800	4615

All-Welded ball valve



■ Main Parts Name And Material

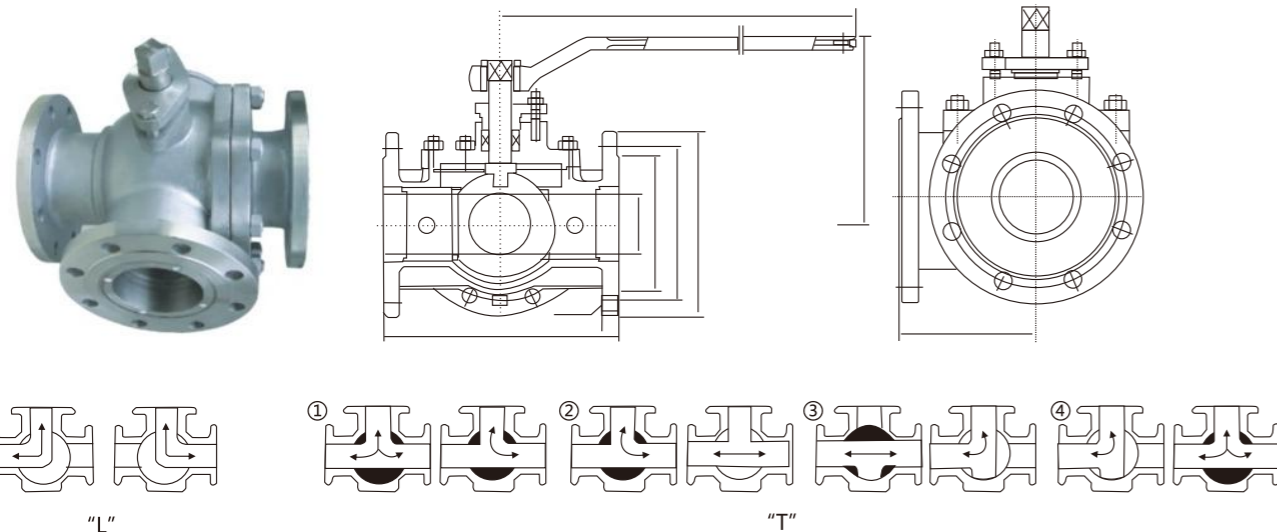
CLASS	NPS	d	L	H1	H2	H3	W
150Lb 300Lb	2	2	8.5	7.08	7.48	7.68	13.78
	3	3	11.125	7.87	8.27	8.27	15.75
	4	4	12	8.86	8.86	8.46	19.69
	6	6	18	11.22	11.42	-	-
	8	8	20.5	12.40	12.80	-	-
	10	10	22	12.99	16.14	-	-
	12	12	25	16.93	17.13	-	-
	14	13.25	30	18.30	18.90	-	-
	16	15.25	33	19.49	19.88	-	-
	18	17.25	36	23.03	23.81	-	-
	20	19.25	39	24.01	24.06	-	-
	24	23.25	45	25	25.98	-	-

PN	DN	d	L	H1	H2	H3	W
2.0MPa 5.0MPa	50	50	216	180	190	195	350
	80	76.2	283	200	210	210	400
	100	101.6	305	225	220	215	500
	150	152	457	285	290	-	-
	200	203	521	315	325	-	-
	250	254	559	330	410	-	-
	300	305	635	430	435	-	-
	350	337	762	465	480	-	-
	400	387	838	495	505	-	-
	450	438	914	585	605	-	-
500	489	991	610	625	-	-	
600	591	1143	635	660	-	-	

CLASS	NPS	d	L	H1	H2	H3	W
600Lb	2	2	11.5	7.08	7.48	7.68	23.62
	3	3	14	7.87	8.27	8.27	39.37
	4	4	17	8.86	8.86	8.46	59.05
	6	6	22	11.22	11.42	-	-
	8	8	26	12.40	12.80	-	-
	10	10	31	12.99	16.14	-	-
	12	12	33	16.93	17.13	-	-
	14	13.25	35	18.30	18.90	-	-
	16	15.25	39	19.49	19.88	-	-
	18	17.25	43	23.03	23.81	-	-
	20	19.25	47	24.01	24.06	-	-
	24	23.25	55	25	25.98	-	-

PN	DN	d	L	H1	H2	H3	W
10.0MPa	50	50	292	180	190	195	350
	80	76.2	355.6	200	210	210	400
	100	101.6	431.8	225	220	215	500
	150	152	558.8	285	290	-	-
	200	203	660.4	315	325	-	-
	250	254	787.4	330	410	-	-
	300	305	838.2	430	435	-	-
	350	337	889	465	480	-	-
	400	387	990.6	495	505	-	-
	450	438	1092.2	585	605	-	-
500	489	1193.8	610	625	-	-	
600	591	1397	635	660	-	-	

TEE Ball Valves



Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter	PN1.6MPa								WT (Kg)
		L	D	D1	D2	b	Z-Φd	H	W	
Q44F-16C Q44F-16P	15	108	95	65	45	14	4-Φ14	95	140	4
	20	117	105	75	55	14	4-Φ14	105	160	5
	25	127	115	85	65	14	4-Φ14	113	180	7
	32	140	135	100	78	16	4-Φ18	135	250	12
Q644F-16C Q644F-16P	40	165	145	110	85	16	4-Φ18	142	300	15
	50	178	160	125	100	16	4-Φ18	154	350	20
Q944F-16C Q944F-16P	65	191	180	145	120	18	4-Φ18	175	350	25
	80	203	195	160	135	20	8-Φ18	190	400	36
Q45F-16C Q45F-16P	100	229	215	180	155	20	8-Φ18	225	500	51
	125	356	245	210	185	22	8-Φ18	245	600	77
Q645F-16C Q645F-16P	150	394	280	240	210	24	8-Φ23	265	800	108
	200	457	335	295	265	26	12-Φ23	305	800	126
Q945F-16C Q945F-16P	250	533	405	355	320	30	12-Φ25	370	1300	186

Line Fluirine Ball Valve

Main Part Material

NO.	Name	Cast iron	Carbon steel	Stainless steel		Super low carbon stainless steel	
		Z	C	P	R	PL	RL
1	Body, Bonnet	HT250	WCB	CF8	CF8M	CF3	CF3M
2	Ball	WCB	WCB	CF8	CF8M	CF3	CF3M
3	Seat	FEP(F46) PCTFE(F3) PTFE(F4) PFA PO					
4	Gland flange	HT250	WCB	CF8	CF8M	CF3	CF3M
5	Packing	PTFE(F4)		PTFE(F4)			
6	Bolt	35	35	1Cr17Ni2	1Cr17Ni2	1Cr18Ni9	1Cr18Ni9
7	Nut	45	45	0Cr18Ni9	0Cr18Ni9	1Cr18Ni9	1Cr18Ni9
8	Handle	WCC	WCC	WCC	WCC	WCC	WCC

Main External and Connection Dimension

Unit:mm

Nomial diameter		Standard value							Reference value			
		L	D	D1	D2	f	b	Z-Φd	D0	H	W(Kg)	
		PN1.0(MPa)										
mm	in											
15	½	140	95	65	45	2	14	4-Φ14	120	80	2.5	
20	¾	140	105	75	55	2	16	4-Φ14	140	90	3	
25	1	150	115	85	65	2	16	4-Φ14	160	100	4.5	
32	1¼	165	135	100	78	2	18	4-Φ18	160	110	5.7	
40	1½	180	145	110	85	3	18	4-Φ18	200	120	7	
50	2	200	160	125	100	3	20	4-Φ18	250	135	9.5	
65	2½	220	180	145	120	3	20	4-Φ18	300	145	15	
80	3	250	195	160	135	3	22	4/8-Φ18	350	185	19	
100	4	280	215	180	155	3	22	8-Φ18	240	195	33	
125	5	320	245	210	185	3	24	8-Φ18	500	210	58	
150	6	360	280	240	210	3	24	8-Φ23	200*	450	93	
200	8	457	335	295	265	3	26	8-Φ23	240*	490	155	
250	10	533	390	350	320	3	28	12-Φ23	240*	550	210	
300	12	610	440	400	368	4	28	12-Φ23	320*	600	220	
350	14	686	500	460	428	4	30	16-Φ23	320*	675	245	
400	16	762	565	515	482	4	32	16-Φ25	360*	780	260	

Main External and Connection Dimension

Unit:mm

Nomial diameter		Standard value							Reference value			
		L	D	D1	D2	f	b	Z-Φd	D0	H	W(Kg)	
		PN1.6MPa										
mm	in											
15	½	140	95	65	45	2	14	4-Φ14	120	80	2.5	
20	¾	140	105	75	55	2	16	4-Φ14	140	90	3	
25	1	150	115	85	65	2	16	4-Φ14	160	100	4.5	
32	1¼	165	135	100	78	2	18	4-Φ18	160	110	5.7	
40	1½	180	145	110	85	3	18	4-Φ18	200	120	7	
50	2	200	160	125	100	3	20	4-Φ18	250	135	9.5	
65	2½	220	180	145	120	3	20	4-Φ18	300	145	15	
80	3	250	195	160	135	3	22	8-Φ18	350	185	19	
100	4	280	215	180	155	3	24	8-Φ18	240	195	33	
125	5	320	245	210	185	3	26	8-Φ18	500	210	58	
150	6	360	280	240	210	3	28	8-Φ23	200*	450	93	
200	8	457	335	295	265	3	30	12-Φ23	240*	490	155	
250	10	533	390	355	320	3	32	12-Φ25	240*	550	210	
300	12	610	440	410	375	4	34	12-Φ25	280*	600	220	
350	14	686	500	470	435	4	38	16-Φ25	320*	675	245	
400	16	762	565	525	485	4	40	16-Φ30	360*	780	260	

■ Chief Features

- Fullport ,Floating Or Trunnion Mounted Type
- Bolte Bonnet
- Blow Out Proof Stem
- Fire Durable And Ant Static Safety
- Structure Improve on API
- Opening And Closing Position
- Available With Worm Gear Operator
- Flanged Ends

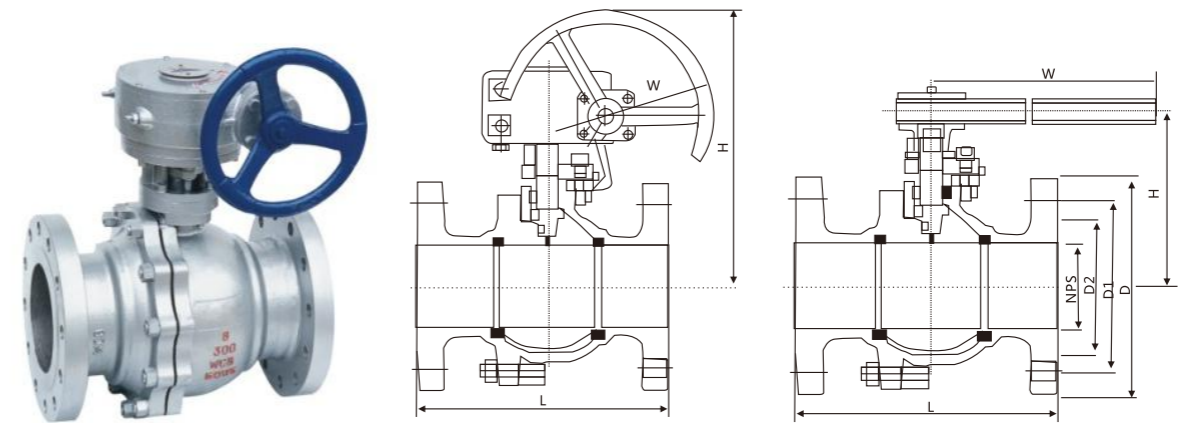


■ Product Specification

Product Specification	Design spec	Face to Face	Flanged End	Test & Check	Marking	Supply
	API 600	ANSI B16.10	ANI B16.5	API 598	MSS SP-25	API 608
	API 6D	API6D		API6D	API6D	API 6D

■ Main Part Material

Part Name	Part Material						
Body/Bonnet	A216-WCB	A105	A352-LCB	A351-CF8	A351-CF8M	A351-CF3	A351-CF3M
Ball	A182-F304	A182-F304	A182-F304	A182-F304	A182-F316	A182-F304L	A182-F316L
Stem	A182-F6a	A182-F6a	A182-F6a	A182-F304	A182-F316	A182-F304L	A182-F316L
Seat Ring	A105		A182-F304	A182-F316	A182-F304L	A182-F316L	
Seat	PTFE		E.PTFE				
Packing	PTFE+FPM		PTFE+FPM				
Gasket	18-8Flexible Graphite						
Bolt	A193-B8			A193-B8M			
Suitable Temp	-29~121°C	-40~121°C		-40~121°C		-40~121°C	
Suitable Medium	water, oil, steam		Nitric Acid		Acetic Acid		



■ Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter		Class 150Lb								WT (Kg)
	in	mm	L	D	D1	D2	b	Z-Φd	H	W	
Q41F-150Lb Q41F-150LbP	1/2"	15	108	89	60.3	34.9	11.2	4-Φ15.8	55	130	2.3
	3/4"	20	117	98	39.8	42.9	12.7	4-Φ15.8	55	130	3.0
	1"	25	127	108	79.4	50.8	14.3	4-Φ15.8	70	160	4.5
	1 1/4"	32	140	117	88.9	63.5	15.7	4-Φ15.8	75	160	5.5
Q341F-150Lb Q341F-150LbP	1 1/2"	40	165	127	98.4	73	17.5	4-Φ15.8	90	200	7.0
	2"	50	178	152	120.6	92.1	19.1	4-Φ19	104	350	9.5
Q641F-150Lb Q641F-150LbP	2 1/2"	65	191	178	139.7	104.8	22.3	4-Φ19	153	400	15.0
	3"	80	203	190	152.4	127	23.9	4-Φ19	187	500	19
Q9B41F-150Lb Q9B41F-150LbP	4"	100	229	229	190.5	157.2	23.9	8-Φ19	206	500	33
	5"	125	355	229	215.9	185.7	23.9	8-Φ22.2	244	600	58
	6"	150	394	279	241.3	215.9	25.4	8-Φ22.2	252	600	93
	8"	200	457	343	298.4	269.9	28.5	8-Φ22.2	283	800	160
10"	250	533	406	362	323.8	30.2	12-Φ25.4	345	800	200	

■ Main External and Connection Dimension

Unit:mm

Type	NominalDiameter		Class 300Lb								WT (Kg)
	in	mm	L	D	D1	D2	b	Z-Φd	H	W	
Q41F-300Lb Q41F-300LbP	1/2"	15	140	95	66.7	34.9	14.2	4-Φ15.8	55	130	2.5
	3/4"	20	152	117	82.6	42.9	15.7	4-Φ19	55	130	3.5
	1"	25	165	124	88.9	50.8	17.5	4-Φ19	70	160	5.5
	1 1/4"	32	178	133	98.4	63.5	19	4-Φ19	75	160	8.0
Q341F-300Lb Q341F-300LbP	1 1/2"	40	190	156	114.3	73	20.6	8-Φ19	90	200	10.5
	2"	50	216	165	127	92.1	22.4	8-Φ22.2	104	350	14.5
Q641F-300Lb Q641F-300LbP	2 1/2"	65	241	190	149.2	104.8	25.4	8-Φ22.2	153	400	23.5
	3"	80	283	210	168.3	127	28.4	8-Φ22.2	187	500	30
Q9B41F-300Lb Q9B41F-300LbP	4"	100	305	254	200	157.2	31.8	8-Φ22.2	206	500	55
	5"	125	381	279	235	185.7	35	12-Φ22.2	244	600	81
	6"	150	403	318	269.9	215.9	36.6	12-Φ22.2	252	600	118
	8"	200	502	381	330.2	269.9	41.1	12-Φ25.4	283	800	200
10"	250	568	444	887.4	323.8	47.6	16-Φ28.5	345	800	250	

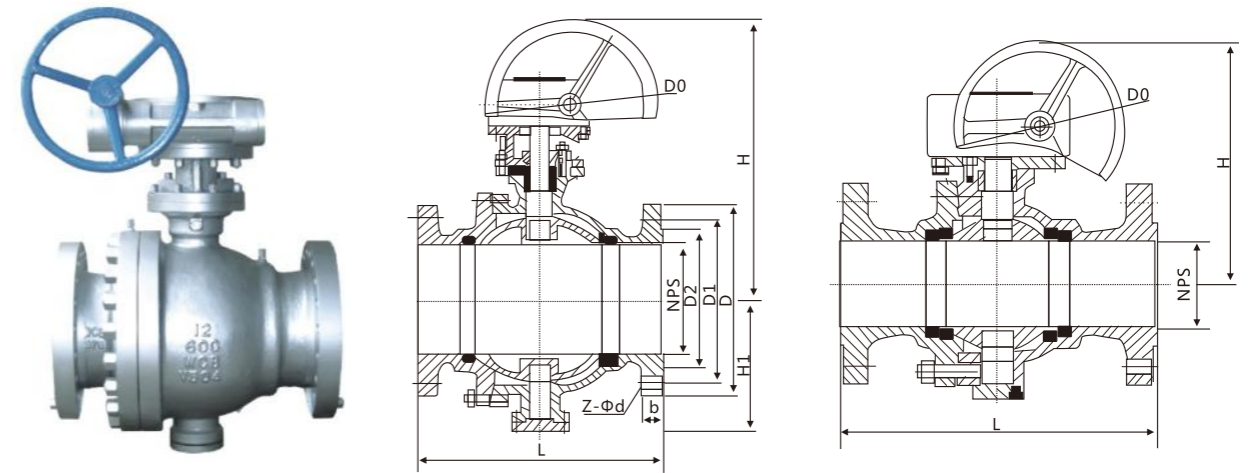
■ Main External and Connection Dimension

Unit:mm

Type	NominalDiameter		Class 600Lb								WT (Kg)
	in	mm	L	D	D1	D2	b	Z-Φd	H	W	
Q41F-600Lb Q41F-600LbP	1/2"	15	165	95	66.7	34.9	14.2	4-Φ15.8	70	-	3.8
	3/4"	20	190	117	82.6	42.9	15.7	4-Φ19	70	-	5.1
	1"	25	216	124	88.9	50.8	17.5	4-Φ19	75	-	7.2
	1 1/4"	32	229	133	98.4	63.5	19	4-Φ19	80	-	10.5
Q341F-600Lb Q341F-600LbP	1 1/2"	40	241	156	114.3	73	20.6	4-Φ22.2	98	-	17.6
	2"	50	292	165	127	92.1	22.4	8-Φ19	155	400	20
Q641F-600Lb Q641F-600LbP	2 1/2"	65	330	190	149.2	104.8	25.4	8-Φ22.2	205	400	32
	3"	80	356	210	168.3	127	28.4	8-Φ22.2	238	600	41
Q9B41F-600Lb Q9B41F-600LbP	4"	100	632	273	215.9	157.2	31.8	8-Φ25.4	276	600	70
	5"	125	508	330	266.7	185.7	35	8-Φ28.5	305	600	110
	6"	150	559	356	292.1	215.9	36.6	12-Φ28.5	322	800	150
	8"	200	660	419	349.2	269.9	41.1	12-Φ31.8	356	800	200
10"	250	787	508	431.8	323.8	47.6	16-Φ35	400	800	280	

■ Main External and Connection Dimension

Unit:mm



Type	NominalDiameter		Class 150Lb								WT (Kg)	
	in	mm	L	D	D1	D2	b	Z-Φd	H	H1		W
Q47F-150Lb Q47F-150LbP	2"	50	178	152	120.6	92.1	19.1	4-Φ19	177	120	-	15
	2 1/2"	65	191	178	139.7	104.8	22.3	4-Φ19	190	140	-	19
	3"	80	203	190	152.4	127	23.9	4-Φ19	210	150	-	27
	4"	100	229	229	190.5	157.2	23.9	8-Φ19	235	172	-	38
Q347F-150Lb Q347F-150LbP	5"	125	356	229	215.9	185.7	23.9	8-Φ22.2	350	195	-	58
	6"	150	394	279	241.3	215.9	25.4	8-Φ22.2	530	250	600	81
Q647F-150Lb Q647F-150LbP	8"	200	457	343	298.4	269.9	28.5	8-Φ22.2	620	290	600	140
	10"	250	533	406	362	323.8	30.2	12-Φ25.4	650	320	600	160
Q9B47F-150Lb Q9B47F-150LbP	12"	300	610	483	431.8	381	31.8	12-Φ25.4	780	360	800	205
	14"	350	686	533	476.2	412.8	35	12-Φ28.5	790	395	800	260
	16"	400	762	597	539.8	469.9	36.6	16-Φ28.5	920	435	800	390
	18"	450	846	635	577	533.4	39.7	16-Φ31.8	970	490	800	510
	20"	500	914	689	635	584.2	42.9	20-Φ31.8	1100	530	800	750
	24"	600	1067	813	749.3	692.2	47.7	20-Φ35	1150	590	800	1200

■ Main External and Connection Dimension

Unit:mm

Type	NominalDiameter		Class300Lb									WT (Kg)
	in	mm	L	D	D1	D2	b	Z-Φd	H	H1	W	
Q47F-300Lb Q47F-300LbP	2"	50	216	165	127	92.1	22.4	8-Φ22.2	177	120	-	20
	2 1/2"	65	241	190	149.2	104.8	2.4	8-Φ22.2	190	140	-	25
	3"	80	283	210	168.3	127	28.4	8-Φ22.2	210	150	-	30
	4"	100	305	254	200	157.2	31.8	8-Φ22.2	235	172	-	40
Q347F-300Lb Q347F-300LbP	5"	125	381	279	235	185.7	35	12-Φ22.25	350	195	-	65
	6"	150	403	318	269.9	215.9	36.6	12-Φ22.2	530	250	600	85
Q647F-300Lb Q647F-300LbP	8"	200	502	381	330.2	269.9	41.1	12-Φ25.4	620	290	600	100
	10"	250	568	444	387.4	323.8	47.8	16-Φ28.5	650	320	600	182
Q9B47F-300Lb Q9B47F-300bP	12"	300	648	521	450.8	381	50.8	16-Φ31.8	780	360	800	212
	14"	350	762	584	514.4	412.8	53.8	20-Φ31.6	790	395	800	288
	16"	400	838	648	571.5	469.9	57.2	20-Φ35	920	435	800	468
	18"	450	914	713	628.6	533.4	60.5	24-Φ35	970	490	800	587
	20"	500	991	775	685.8	584.2	68.5	24-Φ35	1100	530	800	863
	24"	600	1143	914	812.8	692.2	69.9	24-Φ41.1	1150	590	800	1396

Type	NominalDiameter		Class600Lb									WT (Kg)
	in	mm	L	D	D1	D2	b	Z-Φd	H	H1	W	
Q47F-600Lb Q47F-600LbP	2"	50	292	165	127	92.1	25.4	8-Φ19	177	120	-	26
	2 1/2"	65	330	190	149.2	104.8	28.4	8-Φ22.2	190	140	-	36
	3"	80	356	210	168.3	127	31.85	8-Φ22.2	210	150	-	56
	4"	100	432	273	215.9	157.2	38.14	8-Φ25.4	235	172	-	81
Q347F-600Lb Q347F-600LbP	5"	125	508	330	266.7	185.7	44.5	8-Φ28.5	350	195	-	120
	6"	150	559	356	292.1	215.9	47.8	12-Φ28.5	530	250	600	142
Q647F-600Lb Q647F-600LbP	8"	200	680	419	349.2	269.9	55.6	12-Φ31.8	620	290	600	287
	10"	250	787	508	431.8	323.8	63.5	16-Φ35	650	320	600	540
Q9B47F-600Lb Q9B47F-600bP	12"	300	838	559	489	381	66.5	20-Φ35	780	360	800	780
	14"	350	689	603	527	412.8	69.9	20-Φ38.1	790	395	800	1000
	16"	400	991	686	603.2	469.9	76.2	20-Φ41.1	920	435	800	1300
	18"	450	1092	743	654	533.4	82.6	20-Φ44.5	970	490	800	1700
	20"	500	1194	813	723.9	584.2	88.9	24-Φ44.5	1100	530	800	2100
	24"	600	1397	940	838.2	692.2	101.6	24-Φ50.8	1150	590	800	3400

Check Valve

■ Chief Features

- Bolte Bonnet
- Swing Or Lift Type Disc
- For Horizontal Or Vertical Lines
- Flanged Ends

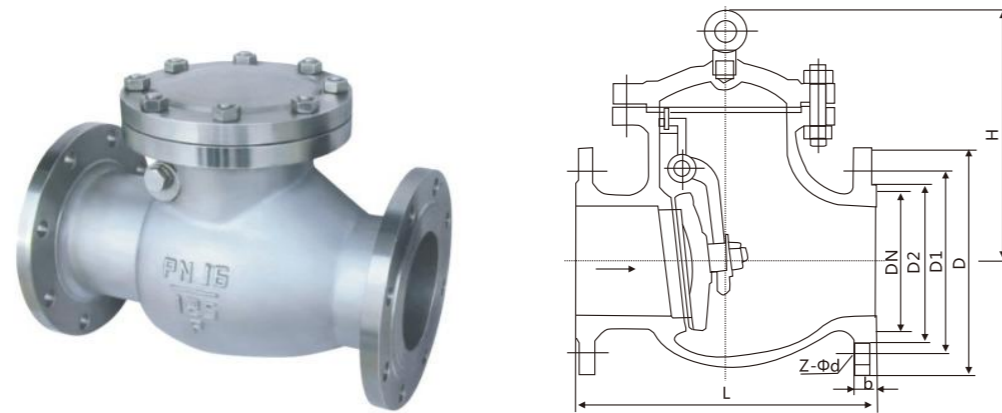


■ Prodrct Specification

Product Specification	Design spec	Face to Face	Flanged End	Test & Check	Pressure-Temp	Marking	Supply
	GB/T 12236 GB/T 12235	GB/T 12221	JB/T 79	JB/T 9092	GB/T 9131	GB/T 12220	JB/T 7928

■ Main Part Material

Part Name	Body Material Code			
	Body/Bonnet	WCB	WCB	LCB
Disc	25	1Cr18Ni9Ti	1Cr18Ni9Ti	1Cr18Ni9Ti
Stem Arm	WCB	25Cr2MoV	LCB	CF8M
Garphite Gasket	18-8Flexible Graphite			
Bolt	35/35CrMo	25CrMoV	1Cr18Ni9	1Cr18Ni9
Sultable Temp	-29-426°C	-29-550°C	-40-350°C	-40-550°C
Suitable Medium	water,oll,steam	oll,steam	Steam, Oil	Nitrc Acid



■ Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter	PN1.6/2.5MPa							WT(kg)
		L	D	D1	D2	b	Z-Φd	H	
H44H-16C H44Y-16C H44Y-16P H44Y-16R H44Y-16I	50	230	160	125	100	16	4-Φ18	135	21
	65	290	180	145	120	18	4-Φ18	142	28
	80	310	195	160	135	20	8-Φ18	165	38
	100	350	215	180	155	20	8-Φ18	180	58
	125	400	245	210	185	22	8-Φ18	210	92
	150	480	280	240	210	24	8-Φ23	233	130
	200	500	335	295	265	28	12-Φ23	304	210
	250	550	405	355	320	30	12-Φ25	348	294
	300	650	460	410	375	30	12-Φ25	390	357
	350	750	520	470	435	34	16-Φ25	430	410
H44H-25C H44Y-25C H44Y-25P H44Y-25R H44Y-25I	400	850	580	525	485	36	16-Φ30	468	461
	450	950	640	585	545	40	20-Φ30	523	570
	500	1025	705	650	608	44	20-Φ34	525	850
	50	230	160	125	100	20	4-Φ18	160	22
	65	290	180	145	120	22	8-Φ18	175	29
	80	310	195	160	135	22	8-Φ18	185	38
	100	350	230	190	160	24	8-Φ28	220	61
	125	400	270	220	188	28	8-Φ25	248	96
	150	480	300	250	218	30	8-Φ25	276	132
	200	550	360	310	278	34	12-Φ25	350	213
250	650	425	370	332	36	12-Φ30	410	297	
300	750	485	430	390	40	16-Φ30	430	372	
350	850	550	490	448	44	16-Φ34	618	415	
400	950	610	550	505	48	16-Φ34	580	480	
450	1025	660	600	555	50	20-Φ34	582	610	
600	1150	730	660	610	52	20-Φ41	618	920	

■ Main External and Connection Dimension

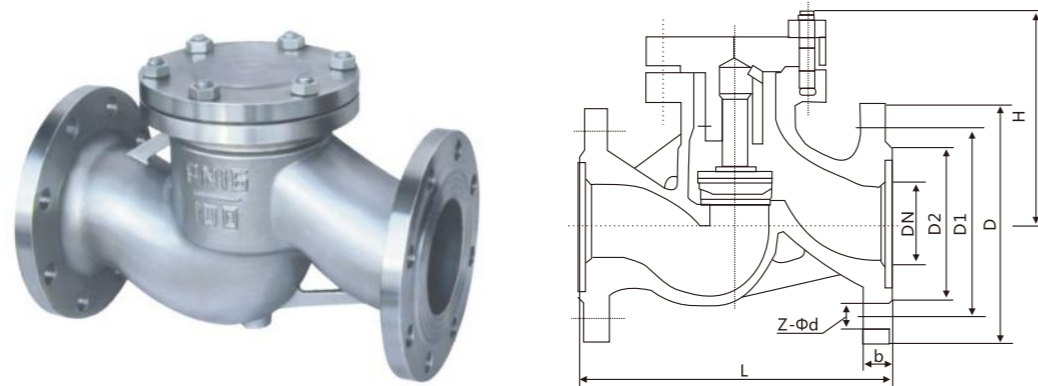
Unit:mm

Type	Nominal Diameter	PN4.0MPa										WT(kg)
		L	D	D1	D2	D6	b	f	f2	Z-Φd	H	
H44H-40C H44Y-40 H44Y-40P H44Y-40R H44Y-40I	50	230	160	125	100	88	20	3	4	4-Φ18	169	22
	65	290	180	145	120	110	22	3	4	8-Φ18	173	29
	80	310	195	160	135	121	22	3	4	8-Φ18	185	38
	100	350	2230	190	160	150	24	3	4.5	8-Φ23	220	61
	125	400	270	220	188	176	28	3	4.5	8-Φ25	248	96
	160	480	300	250	218	204	330	3	4.5	8-Φ25	270	132
	200	550	375	320	282	260	38	3	4.5	12-Φ30	342	213
	250	650	445	385	345	313	42	3	4.5	12-Φ34	401	297
	300	750	510	450	406	364	48	4	4.5	16-Φ34	423	372
	350	850	570	510	465	422	52	4	5	16-Φ34	455	415
400	950	655	585	535	474	56	4	5	16-Φ41	510	480	

■ Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter	PN6.4MPa										WT(kg)
		L	D	D1	D2	D6	b	f	f2	Z-Φd	H	
H44H-64 H44Y-64C H44Y-64P H44Y-64R H44Y-64I	50	300	175	135	105	88	26	3	4	4-Φ23	177	27
	65	340	200	160	130	110	28	3	4	8-Φ23	197	37
	80	380	210	170	140	121	30	3	4	8-Φ23	212	57
	100	430	250	200	168	150	32	3	4.5	8-Φ25	248	89
	125	500	295	240	202	176	36	3	4.5	8-Φ30	296	135
	160	550	340	280	240	204	38	3	4.5	8-Φ34	330	184
	200	650	405	345	300	260	44	3	4.5	12-Φ34	385	266
	250	775	470	400	352	313	48	3	4.5	12-Φ41	445	396
	300	900	530	460	412	364	54	4	4.5	16-Φ41	474	643
	350	1025	595	525	475	422	60	4	5	16-Φ41	514	815
	400	1150	670	585	525	474	66	4	5	16-Φ48	616	1234



■ Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter	PN1.6/2.5MPa							WT(kg)
		L	D	D1	D2	b	Z-Φd	H	
H41H-16C H41Y-16C H41Y-16P H41Y-16R H41Y-16I	15	130	95	65	45	14	4-Φ14	77	3
	20	150	105	75	55	14	4-Φ14	77	4
	25	160	115	85	65	14	4-Φ14	80	5
	32	180	135	100	78	16	4-Φ18	85	7
	40	200	145	110	85	16	4-Φ18	95	9
	50	230	160	125	100	16	4-Φ18	105	10
	65	290	180	145	120	18	4-Φ18	120	20
	80	310	195	160	135	20	8-Φ18	130	30
	100	350	215	180	155	20	8-Φ18	140	39
	125	400	245	210	185	22	8-Φ18	155	50
	150	480	280	240	210	24	8-Φ23	180	70
	200	600	335	295	265	26	12-Φ23	215	161
H41H-25C H41Y-25C H41Y-25P H41Y-25R H41Y-25I	250	730	405	355	320	30	12-Φ25	260	251
	300	850	460	410	375	34	12-Φ25	315	395
	15	130	95	65	45	16	4-Φ14	100	3.4
	20	150	105	75	55	16	4-Φ14	105	5
	25	160	115	85	65	16	4-Φ14	120	5.7
	32	180	135	100	78	18	4-Φ18	130	9.1
	40	200	145	110	85	18	4-Φ18	135	11.8
	50	230	160	125	100	20	4-Φ18	149	14.4
	65	290	180	145	120	22	8-Φ18	160	23
	80	310	195	160	135	22	8-Φ18	169	30
	100	350	230	190	160	24	8-Φ23	194	44
	125	400	270	220	180	28	8-Φ25	222	65
150	480	300	250	218	30	8-Φ25	255	99	
200	600	360	310	278	34	12-Φ25	305	190	
250	730	425	370	332	36	12-Φ30	355	315	
300	850	485	430	390	40	16-Φ30	410	450	

■ Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter	PN4.0MPa								WT(kg)
		L	D	D1	D2	D6	b	Z-Φd	H	
H41H-40 H41Y-40 H41Y-40P H41Y-40R H41Y-40I	15	130	95	65	45	40	16	4-Φ14	100	4
	20	150	105	75	55	51	16	4-Φ14	105	5.5
	25	160	115	85	65	58	16	4-Φ14	120	6
	32	180	135	100	78	66	18	4-Φ18	130	12
	40	200	145	110	85	76	18	4-Φ18	135	14
	50	230	160	125	100	88	20	4-Φ18	149	18
	65	290	180	145	120	110	22	8-Φ18	160	27
	80	310	195	160	135	121	22	8-Φ18	169	36
	100	350	230	190	160	150	24	8-Φ23	194	50
	125	400	270	220	188	176	28	8-Φ25	225	75
	150	480	300	250	218	204	30	8-Φ25	255	119
	200	600	375	320	282	260	38	12-Φ30	305	217
250	730	445	385	345	313	42	12-Φ34	380	365	
300	850	510	450	408	364	46	12-Φ34	415	310	

■ Main External and Connection Dimension

Unit:mm

Type	Nominal Diameter	PN6.4MPa								WT(kg)
		L	D	D1	D2	D6	b	Z-Φd	H	
H41H-64 H41Y-64w H41Y-64P H41Y-64R H41Y-64I	15	210	105	75	55	40	18	4-Φ14	100	7
	20	230	125	90	68	51	20	4-Φ18	110	11
	25	230	135	100	78	58	22	4-Φ18	125	13
	32	260	150	110	82	66	24	4-Φ23	140	14
	40	260	165	125	95	76	24	4-Φ23	168	20
	50	300	175	135	105	88	28	4-Φ23	170	23
	65	340	200	160	130	110	28	8-Φ23	188	37
	80	380	210	170	140	121	30	8-Φ23	205	46
	100	430	250	200	168	150	32	8-Φ25	230	68
	125	500	295	240	202	176	36	8-Φ30	230	89
	150	550	340	280	240	204	38	8-Φ34	265	131
	200	650	405	345	300	260	44	12-Φ34	310	235



Chief Features

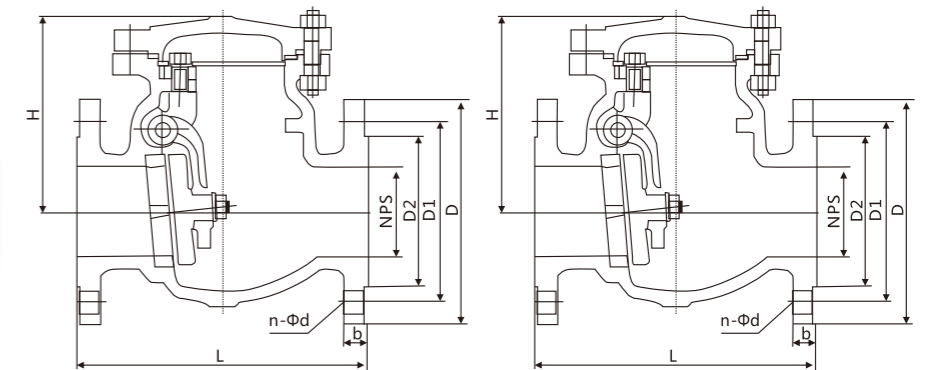
- Bolte Bonnet
- Swing Type Disc
- Or Horizontal Or Vertical Lines
- Flanged End

Product Specification

Product Specification	Design spec	Face to Face	Flanged End	Test & Check	Pressure-Temp	Marking	Supply
	API 600	ANSI B16.10	ANSI B16.5	API 598	ANSI B16.34	MSS SP-25	API 600
	API 6D	API 6D		API 6D			Bs5160

Main Part Material

Part Name	Body Material Code			
Body/Bonnet	A216-WCB	A217-WC6	A352-LCB	A351-CF8M
Disc	A105	A182-F11	A182-F304	A182-F316
Stem Arm	A216-WCB	A182-WC6	A182-LCB	A182-F316
Graphite Gasket	18-8Flexible Graphite			
Bolt	A193-B7	A193-B7	A193-B7M	A193-B8
Suitable Temp	-29-425°C	-29-550°C	-40-350°C	-40-200°C
Suitable Medium	water, oil, steam	oil, steam	Steam, Oil	Nitric Acid



Main External and Connection Dimension

Unit:mm

Type	Nominal diameter		Class 150Lb/300Lb/600Lb							WT(kg)
	in	mm	L	D	D1	D2	b	Z-φd	H	
H44H-150Lb H44H-150LbP H44H-150LbR H44H-150LbL	2"	50	203	157	120.7	92	19.50	4-φ19	161	17
	2 1/2"	65	216	178	139.7	105	22.5	4-φ19	180	23
	3"	80	241	190.5	152.4	127	24	4-φ19	190	33
	4"	100	292	229	190.50	157.2	24	8-φ19	220	44
	6"	150	356	279	241.5	216	25.5	8-φ22.5	257	78
	8"	200	495	343	298.5	270	29	8-φ22.5	292	137
	10"	250	622	406	362	324	30.5	12-φ25	350	207
	12"	300	698	483	432	381	32	12-φ25	398	279
	14"	350	787	533	476.8	413	35	12-φ29	445	387
	16"	400	864	597	539.8	470	37	16-φ29	490	446
H44H-300Lb H44H-300LbP H44H-300LbR H44H-300LbL	18"	450	978	635	577.8	533	40	16-φ32	520	621
	20"	500	978	698	635	584	43	20-φ32	546	770
	24"	600	1295	813	749.3	692	48	20-φ35	880	970
	2"	50	267	165	127	92	22.5	8-φ19	179.5	20
	2 1/2"	65	292	190	150	105	25	8-φ22	190	24
	3"	80	318	210	168	127	29.0	8-φ22.5	212.4	40
	4"	100	356	254	200	157	32.0	8-φ22.5	246	51
	6"	150	445	317.5	269.7	216	37.0	12-φ22.5	292	90
	8"	200	533	381	330	270	41.5	12-φ25.5	328	175
	10"	250	622	444.5	387	324	48.0	16-φ28.5	378.6	210
H44H-600Lb H44H-600LbP H44H-600LbR H44H-600LbL	12"	300	711	521	451	381	51.0	16-φ32	420	286
	14"	350	838	584	514	54	54	20-φ32	470	400
	16"	400	864	648	572	57	57	20-φ35	530	500
	18"	450	978	711	629	60	60	24-φ35	584	700
	20"	500	1016	775	686	64	64	24-φ35	610	860
	24"	600	1346	914	813	70	70	24-φ41	860	1931
	2"	50	292	165	127	92	25	8-φ19	203	34
	2 1/2"	65	330	190	150	105	29	8-φ22	229	45
H44H-600LbP H44H-600LbR H44H-600LbL	3"	80	356	210	168	127	32	8-φ22	235	63
	4"	100	432	273	216	157	38	8-φ25	286	114
	6"	150	559	356	292	216	48	8-φ29	330	207
	8"	200	660	419	349	270	56	12-φ29	381	387
	10"	250	787	508	432	324	64	12-φ32	457	580
	12"	300	838	559	489	381	67	16-φ35	584	778
14"	350	889	603	527	413	70	20-φ38	635	986	
16"	400	991	686	603	470	76	20-φ41	684	1380	

Diaphragm valves

Characteristics

The diaphragm valve is a special type of valve with truncated function, The opening and closing parts are made of steel discs and soft materials (rubber and fluorinated plastics). The diaphragm is made of the diaphragm and the body cavity is separated from the bonnet. Achieve the purpose of truncation of medium.

A series of fluorine plastic liner valve series introduced by the company. The basic series of diaphragm valves are full-lined G41F46 and EG41F46. The characteristics of the weir and G45F46 direct current are as follows:

1. The diaphragm separates the body cavity from the valve in the lower chamber of the body. Form the dc channel, the upper stem of the diaphragm, the disc and the inner parts and the medium. Completely isolated, save the packing seal structure, the inner leakage of the medium and leakage can be the same. Avoid;

2. Use FEP (Tofion) to make a membrane between fluorine and synthetic rubber. And a valve with a Tofion fluorine-plastic lining is suitable for removing the dissolved alkali metal.

The various strong corrosive media outside the element fluorine.

3. As the diaphragm of the actuator, fatigue can be easily caused by frequent opening and closing. Fracture should be changed regularly, depending on condition, medium and characteristic.

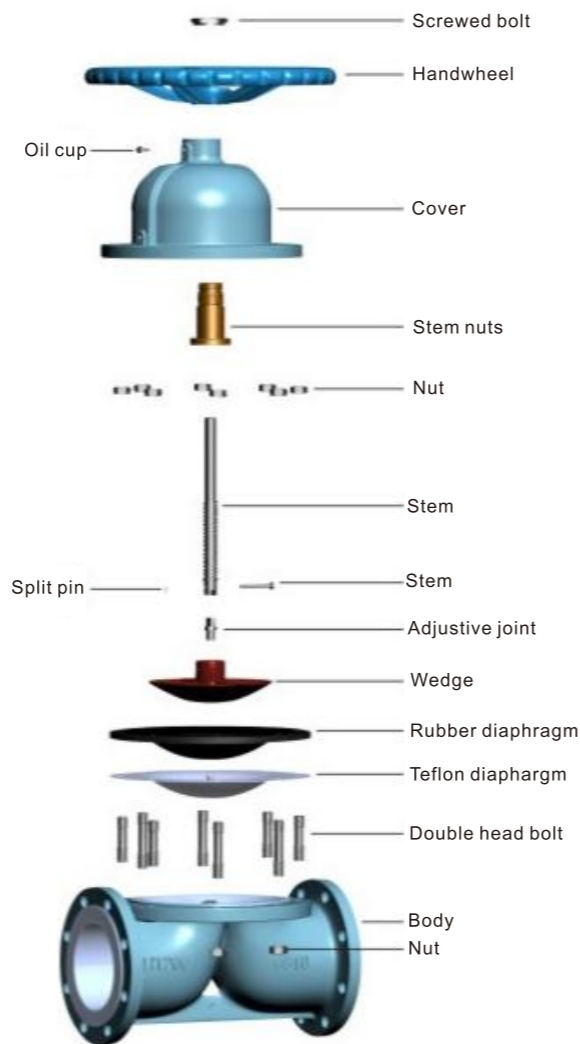
4. The anti-corrosion performance of fluorine plastic and the recommended use of humidity see "valve and piping accessories. Use fluorine plastic lining performance watch.

2. Design specifications

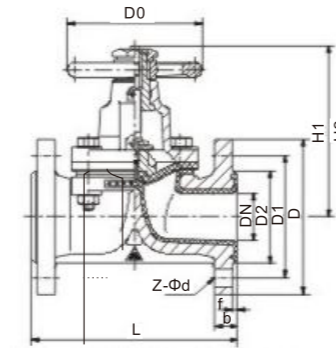
Follow GB 12239 / BS5156 standard.

3. Driving mode

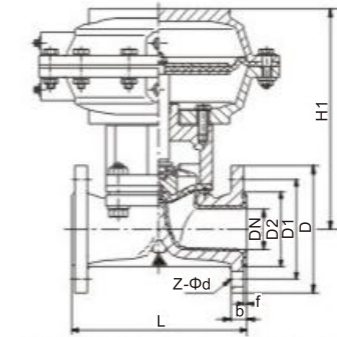
Manual, pneumatic (open or normally closed), electric.



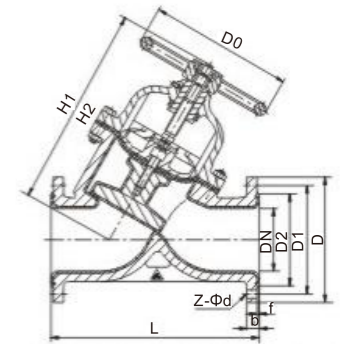
Diaphragm valves



H.Q. Diaphragm Valve (weir type)



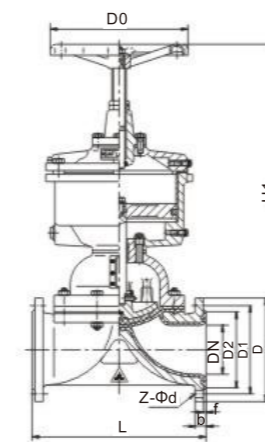
Pneumatic Diaphragm Valve (weir type)



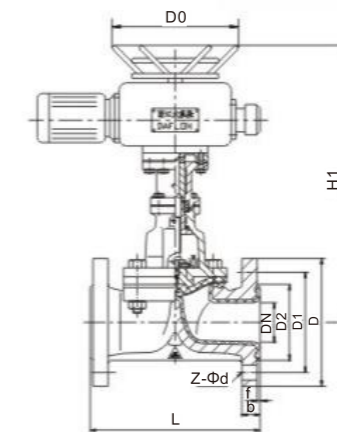
H.Q. Diaphragm Valve (Y type)

应用规范 Application specification

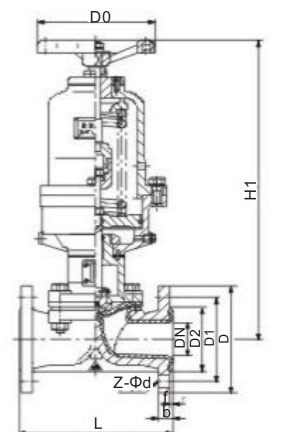
Design and manufacture		GB/T12239 HG/T3704	Lover operated	G41F3/F46/PFA(Weir type)
Bs5156	Structure length	HG/T3704 Bs5156		G45F3/F46/PFA(Y type)
Gemal using diaphragm valve	Flange dimension	GB/T 1724.16 GB/T9113.1 ASME	Pneumatic	EG41F3/F46/PFA(Weir type)
				EG45F3/F46/PFA(Y type)
Inspection and test		GB/T 13927	Electric	G641F3/F46/PFA(Reciproating ty pe)
		API598		G6B41F3/F46/PFA(Close type)
Mark	Supply	GB/T 12220 MSS SP-25		EG641F3/F46/PFA(Recipr oating type)
		GB/T 12252 BS5156	EG6K41F3/F46/PFA(Open type)	
				G9B41F3/F46/PFA(Gemal type)
				G9B41F3/F46/PFA(Explosion-proof type)
				EG941F3/F46/PFA(Gemal type)
				EG9B41F3/F46/PFA(Explosion-proof type)



Pneumatic Diaphragm (reciprocating type)



Pneumatic Diaphragm (weir type)



Pneumatic Diaphragm (weir close type)

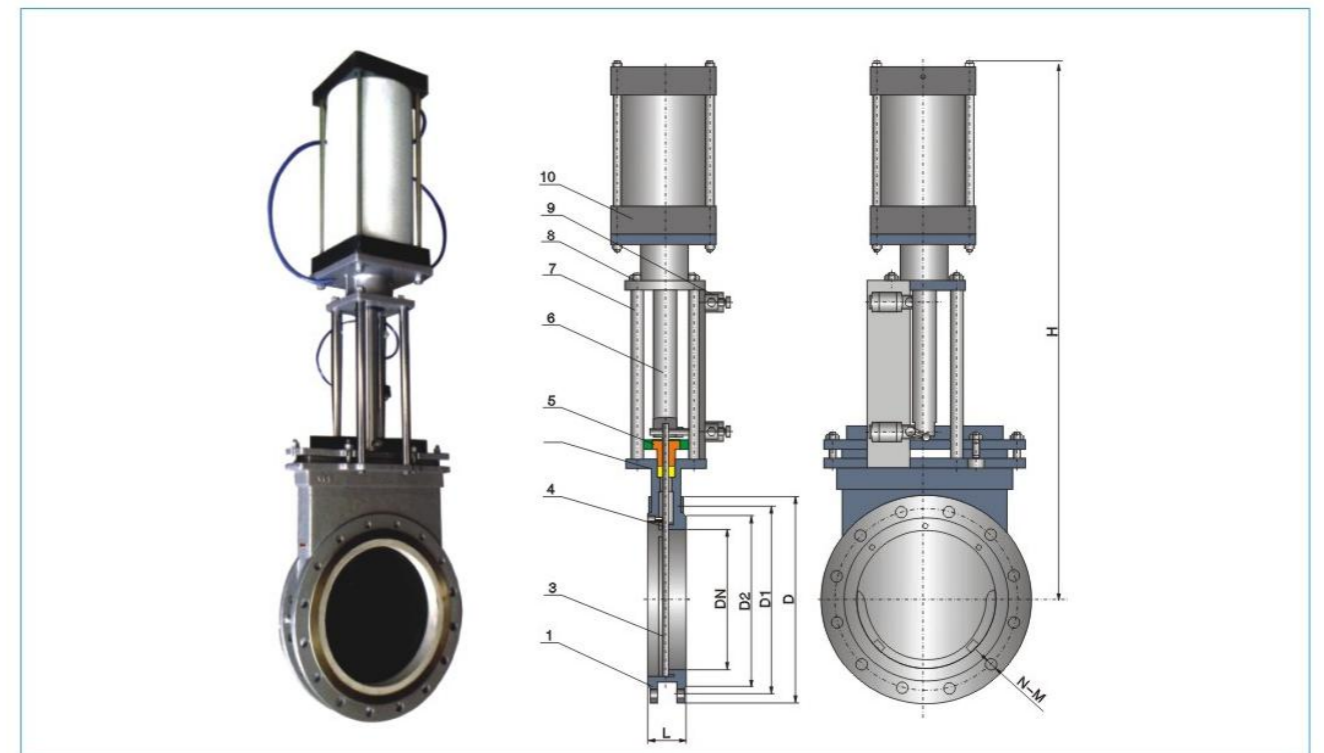
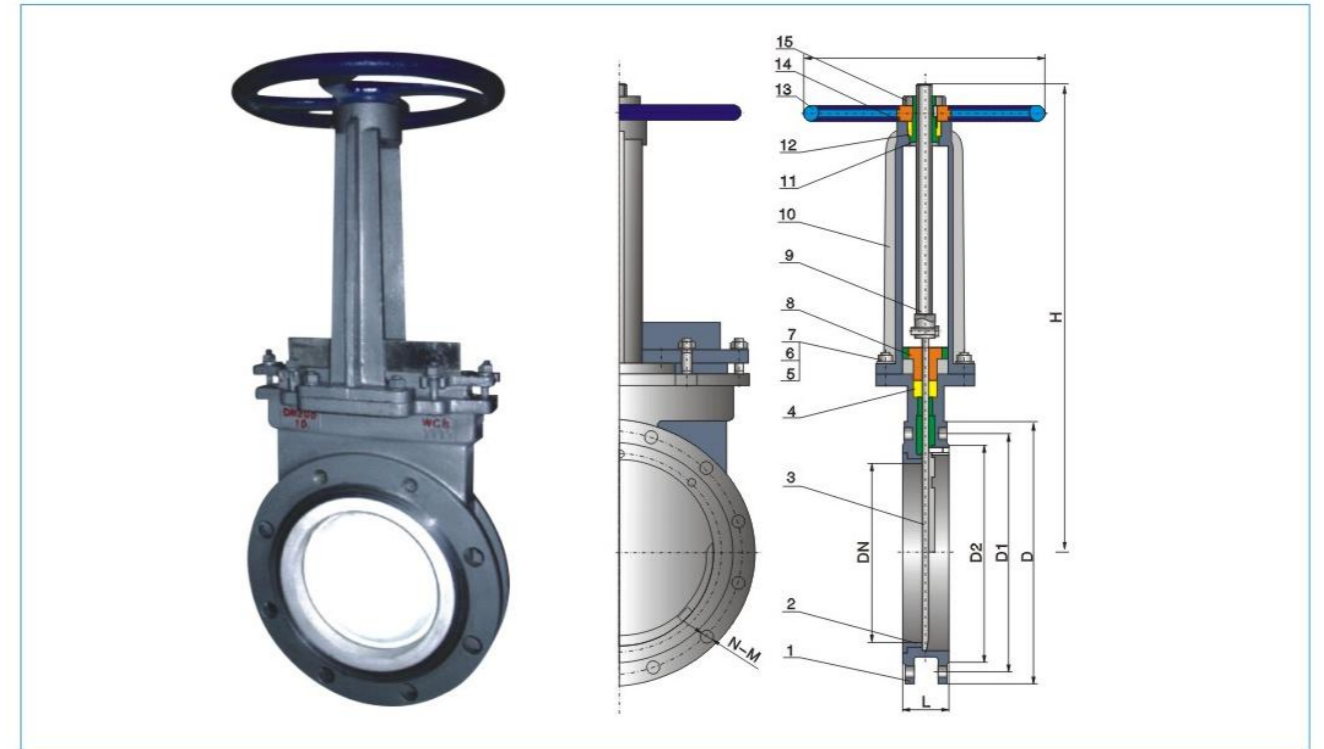
Material for main parts

NO	Name	Grey cast iron	Cast steel	Stainless steel		Low carbon stainless steel	
		Q	C	P	R	PL	RL
1	Body cover wedge	GB12227 QT450 A536 60-40-18	GB12229 WCB A216WCB	GB12230 CF8 ASTMA351 CF8	GB12230 CF8M ASTMA351 CF8M	GB12230 CF3 ASTM A351CF3	GB12230 CF3M ASTM A351CF3M
2	Stem	2Cr13 A182 F6a	2Cr13 A182 F6a	0Cr18Ni9 A182 F304	0Cr18Ni12Mo2Ti A182 F316	00Cr19Ni10 A182 F304L	00Cr17Ni14Mo2 A182 F316L
3	Ling/seat	PCTFE(F3) FEP(F46) PFA PO					
4	Diaphragm	FEP(F46)/CR PFA EPDM					
5	Stem nuts	QT500					
6	Bolt	35 A193 B7	35 A193 B7	1Cr17Ni2 A193-B8	1Cr17Ni2 A193-B8	1Cr17Ni2 A193-B8	0Cr17Ni12Mo2 A193-B8M
7	nut	45 A194 2H	45 A194 2H	0Cr18Ni9 A193-B8	0Cr18Ni9 A193-B8	0Cr18Ni9 A193-B8	0Cr17Ni12Mo2 A193-B8M
8	Handwheel	KTH330					

The main external and connection dimensions

Size		Standard		Reference						
DN (mm)	NPS (inc)	L		D0	H1	H2	W(Kg)			
		GB/T12239	BBS5156				GB/T12239		Bs5156	
							0.6~1.6MPa	0.6~1.6MPa	0.6~1.0MPa	1.6MPa
15	½	125	108	120	110	115	3.5	4	/	/
20	¾	135	117	120	120	130	4	5	3	3.2
25	1	145	127	140	125	140	5.5	6	4	4.3
32	1 ¼	160	146	140	130	155	8	9	6.5	6.9
40	1 ½	180	159	140	140	180	11	12	7.5	7.9
50	2	210	190	160	160	200	14	15	10.5	11
65	2 ½	250	216	240	175	205	23	24	17.5	/
80	3	300	254	240	205	260	29	30	25	/
100	4	350	305	280	275	330	46	48	36	/
125	5	400	356	350	340	410	70	75	47	/
150	6	460	406	350	375	460	95	105	73	/
200	8	570	521	400	485	605	170	182	142	/
250	10	680	/	500	550	625	270	295	/	/
300	12	790	/	500	590	685	320	345	/	/

For GB, the maximum diameter is Dn300. for Bs, The maximum diameter of 0.6~1.0MPa is Dn200, 1.6MPa is Dn50. The rest of detailed flange connection size please see the flange connection size table behind sample.



Thin Ceramic Scum Slurry Valve

■ Characteristics

This valve is applicable as an on-off for media containing high-hardness grains, such as cinder water, or for pipelines with both soft grains and corrosive media. Its nominal pressure is 1.0MPa, and applicable temperature ≤ 150°C, the sealing surface adopts hard seal, and all medium contacting parts are made of structural ceramic with extremely high chemical stability and hardness. Therefore, it has extremely strong resistance to abrasion, corrosion and erosion, good heat insulation and small thermal expansion. Its feed inlet is fully through without any blocks, and it has strong abrasion resistance, a good seal ability and a small starting load, with little ash seizure or accumulation. It adopts a high-grade toughened structural ceramic seal, featuring high mechanical strength, strong abrasion resistance, a long service life and a compact structure, which can be installed at any angle.

■ Material for main parts

NO	Name	Material	NO	Name	Material
1	Body	WCB	9	Stem	2Cr13
2	Seat	engineering ceramic	10	Bracket	WCB
3	Plate	engineering ceramic	11	Stem nut	T
4	Packing	PTFE	12	Bearing	
5	Stud	35	13	Handwheel	HT200
6	Gasket	10	14	Bearing gland	35
7	Nut	25	15	Handwheel lock nut	Q235A
8	Packing gland	WCB			

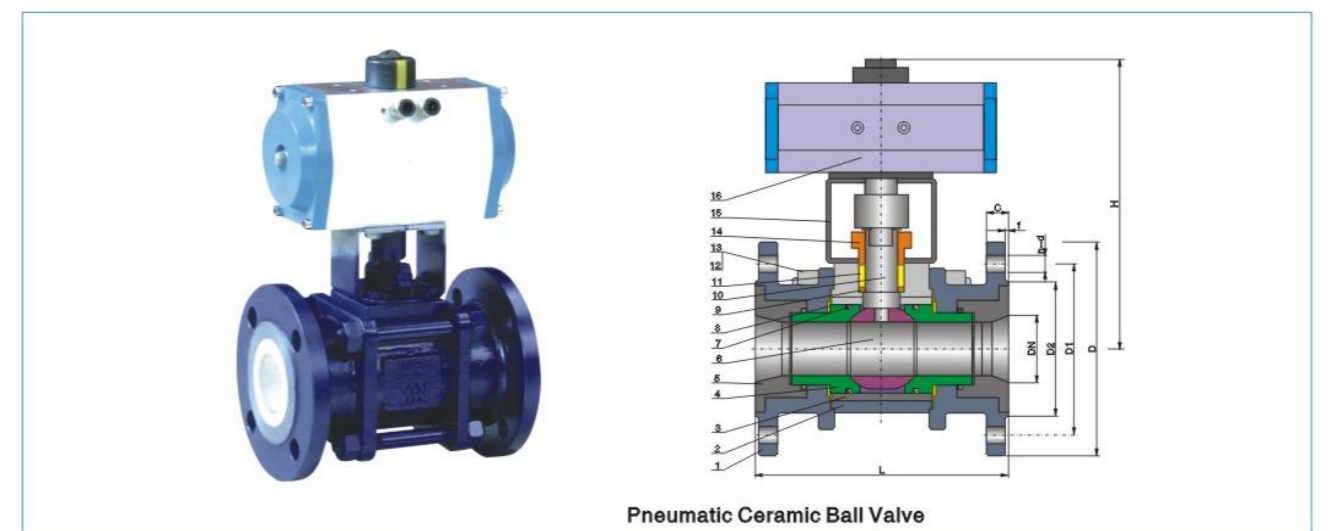
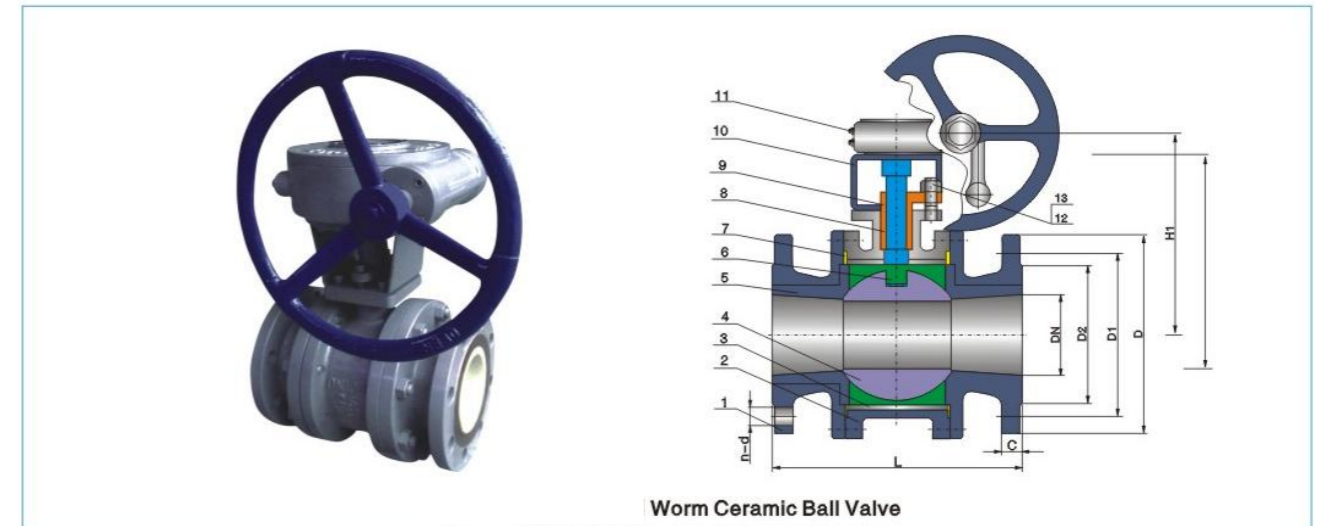
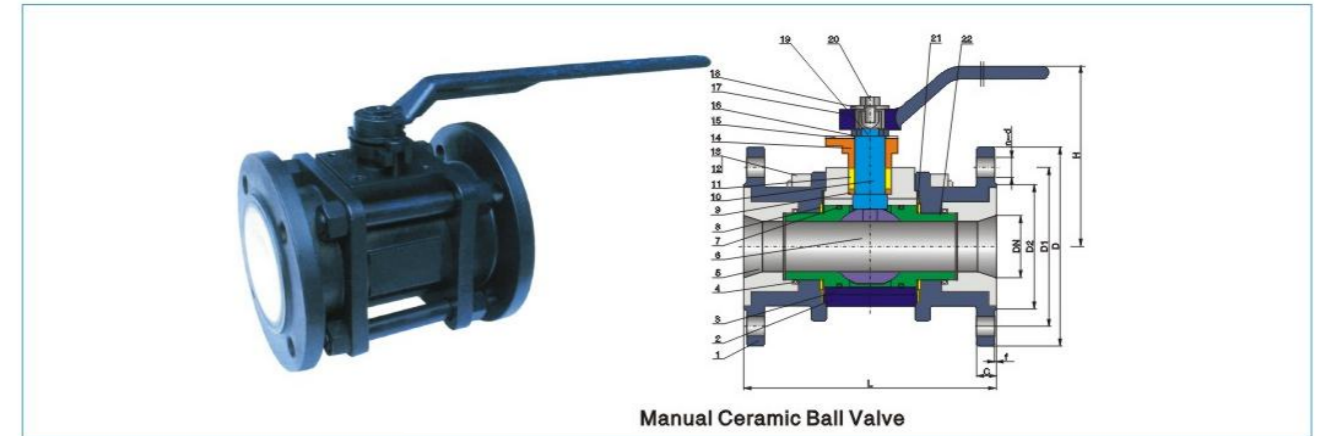
■ Application specification

Design and manufacture		JB/T 8691
Connection end dimension	Structure length	GB/T 15188.2
	Flange dimension	GB/T 9113.1
Inspection and test		GB/T JB/T8691
Material	Carbon steel	GB/T 12229
Mark		GB/T 12220
Supply		GB/T 12252

■ The main external and connection dimensions

DN	PN(10)	L	D	D1	D2	H	N-M	D0	b
50	10	43	165	125	100	285	4-M16	180	12
65		46	185	145	120	295	4M16	180	12
80		46	200	160	135	315	8-M16	220	12
100		52	220	180	155	365	8-M16	220	12
125		56	250	210	185	400	8-M16	230	12
150		56	285	240	210	475	8-M20	280	14
200		60	340	295	265	540	12-M20	360	14
250		68	405	355	320	630	12-M24	360	16
300		78	460	410	375	780	12-M24	400	16
350		78	520	470	435	885	16-M24	400	18
400		102	580	525	485	990	16-M27	400	18
450		114	640	585	545	1100	20-M27	530	18
500	127	715	650	608	1200	20-M30	530	18	
600	154	840	770	718	1450	20-M33	600	20	

Ceramic Ball Valve



Application specification

Design and manufacture		GB/T 12224
Connection end dimension	Structure length	GB/T 12221
	Flange dimension	GB/T 9113.1
Inspection and test		GB/T 9092
Material	Carbon steel	GB/T 12229
	Stainless steel	GB/T 12230
Mark		GB/T 12220
Supply		GB/T 12252

Material for main parts

NO	Name	Material	NO	Name	Material
1	Side valve cover	WCB	12	Hex nut	
2	Middle body	WCB	13	Equal length stud	Outsourcing
3	Middle body sleeve	engineering ceramlc	14	Packing gland	WCB
4	O-ring	Fluorine rubber	15	specer	white zho plating
5	FLANGE SLEEVE	engineering ceramlc	16	Circlip for shaft	65Mn
6	Bal	engneering ceramlc	17	Handle	Outsourcing
7	O-ring	Fluorine rubber	18	Gasket	Q235
8	Dish spring	50CrVA	19	Socket head cap screw	353#
9	Washer	304	20	Hex bolts	B7
10	Stem	2Cr13	21	Big weaher	PTFE
11	Packing	PTFE	22	Seat	

Characteristics

This valve is applicable as an on-off or pipelines with high hardness grains or with both soft grains and corrosive media. Its nominal pressure is 1.6MPa, and applicable temperature $\leq 200^{\circ}\text{C}$. All medium-contacting parts are made of structural ceramic, featuring extremely high chemical stability and hardness (Rock well Hardness HRC90), only next to diamond. Therefore, this valve has extremely strong resistance to abrasion, corrosion and erosion, good heat insulation and small thermal expansion. The ball body is made with advanced grinding equipment and process, with high-precision ball roundness and good surface quality, and after facing-up with the valve seat, a good seal ability can be obtained by means of self-lubrication of ZrO₂ ceramic, thanks to the ceramic's strong resistance to abrasion, this valve is durable and extremely reliable, with a long service life being 2-4 times of that of Ti alloy and Monel valves.

The main external and connection dimensions

DN	L	D	D1	D2	C	f	H	n-d
15	130	95	65	46	14	2	86	4-Φ14
20	130	105	75	56	16	2	95	4-Φ14
25	140	115	85	65	16	2	108	4-Φ14
32	165	140	100	76	18	2	115	4-Φ18
40	165	150	110	84	18	2	115	4-Φ18
50	203	165	125	99	20	2	115	4-Φ18
65	222	185	145	118	20	2	115	4-Φ18
80	241	200	160	132	20	2	145	8-Φ18
100	305	220	180	156	22	2	188	8-Φ18
125	356	250	210	184	22	2	210	8-Φ18
150	394	285	240	211	24	2	260	8-Φ22
200	457	340	295	266	24	2	320	8-Φ22
250	533	395	350	319	26	2	365	12-Φ22

Chief Features

Through Spindle Single Disc
 Seat And Body With One Piece Inside Lining
 High Cv Value, Flow Capacity Strong
 Suitable For Adjust Flow Condition
 Structure Improve On Api
 Double Seal Zero Leakage
 Wafer Type And Flanged Ends



Product Specification

Product Specification	Design spec	Face to Face	Flanged End	Test & Check	Marking	Supply
	GB/T 12238	GB/T 12221	GB/T9113JB/T 79	JB/T13927	GB/T 12220	JB/T 7928

Main Part Material

Part Name	阀体材料 Body Material Code		
Body/Bonnet	HT200	QT400-15	WCB
Plsc	WCB+ENP	QT400-18+ENP	35
Stem	1Cr13	2Cr13	2Cr13
Seat	NB, NBR, FPM, EPDM, SI		
Suitable Temp	$\leq 150^{\circ}\text{C}$		
Suitable Medium	Water,sewages Salt Water, Steam, Gas Food,medicine,oil,acid And Alkali Etc		

■ Use

This series butterfly valve uses midline structure design, the valve from the valve body structure, butterfly plates, valve Cuo, stem and drive components, and other components, according to different media and the physical and chemical characteristics of media, and the use of the corresponding corrosion resistance, light fastness, and anti-aging materials can be widely used in water supply and drainage, air conditioning, oil, chemicals, food medicine, energy systems, and other fluid pipeline, as a regulator and the closure devices.

■ Product Features

- 1, the valve seat and valve body as a whole using sulfide, one of the good, easy-site maintenance, and use of the entire design flow, impact resistance from impurities cards, the two ends of the ring seal lines that do not need to install additional pipe lines and maintain reliable gasket seal, and choose according to different requirements of the use of different materials.
- 2, simple structure, opened quickly, Tip plate material used streamline design, the use of two-way, flow resistance small, excellent flow characteristics.
- 3, longer life expectancy, the number of multi-hoist.
- 4, two-way, sealed and leak test zero.
- 5, linear flow characteristics tend to regulate the performance of good.

■ Standard

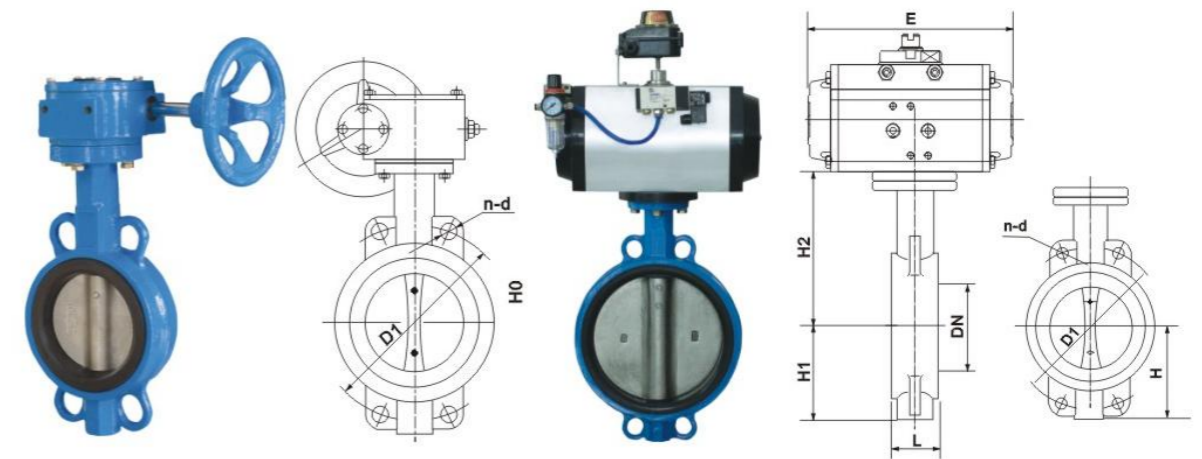
Manufacturing Standards	GB12238-89	Flange Standards	GB/T 17241.6 GB/T 9113.1
Standard Length Of The Structure	GB12221-89	Test	GB/T 13927-92

■ Main Property Specification

Type	Nominal Pressure	PS(MPa)	PS(MPa)	Operating temperature	Suitable medium
D3/6/9/71X-6	0.6	0.9	0.66	NR-20~+85°C NBR-20~+82°C EPDM-40~+125°C PTFE-50~+150°C EPM-23~+150°C	water,oil,air, acids, bases, salts, etc.
D3/6/9/71X-10	1.0	1.5	1.1		
D3/6/9/71X-16	1.6	2.4	1.76		

■ Material for main parts

Parts name	Body, Butterfly Plate	Stem	Seal	Filler
Material	Gray Iron Ductile iron Casting Stainless steel	In carbon steel Stainless steel (2Cr13) 1Cr18Ni9Ti	NR NBR EPDM PTFE EPM	Rubber Flexible Graphite



■ Main External and Connection Dimension

Unit:mm

Nominal diameter	L	H1	H2	E	F	0.6MPa		1.0MPa		1.6MPa	
						D1	n-Φ	D1	n-Φ	D1	n-Φ
50	43	80	160	137	109	110	4-Φ14	120	4-Φ19	125	4-19
65	46	88	175	204	109	130	4-Φ14	136	4-Φ19	145	4-19
80	46	96	180	204	109	150	4-Φ19	160	8-Φ19	160	8-19
100	52	115	200	230	135	170	4-Φ19	185	8-Φ19	180	8-19
125	56	128	213	271	135	200	8-Φ19	215	8-Φ19	210	8-19
150	56	140	225	305	153	225	8-Φ19	238	8-Φ23	240	8-23
200	60	175	260	380	218	280	8-Φ19	295	8-Φ23	295	12-23
250	68	202	290	462	218	335	12-Φ19	357	12-Φ23	355	12-28
300	78	242	330	555	218	395	12-Φ23	407	12-Φ23	410	12-28
350	78	256	360			445	12-Φ23	467	16-Φ23	470	16-28
400	102	298	390			495	16-Φ23	515	16-Φ28	525	16-31
450	114	315	410			550	16-Φ23	565	20-Φ28	585	20-31
500	127	348	430			600	20-Φ23	620	20-Φ24	650	20-M30
600	154	400	490			705	20-Φ28	725	20-Φ27	770	20-M33
700	165	520	550			810	20-Φ28	840	24-Φ27	840	24-M36
800	190	591	610			920	24-Φ28	950	24-Φ30	950	28-M36
900	203	660	680			1020	24-Φ31	1050	28-M30	1050	28-M39
1000	216	670	730			1120	24-M27	1160	28-M33	1170	32-M45
1200	254	780	835			1340	28-M27	1380	32-M36	1390	
1400	279	890	935			1560	36-M33	1590	36-M39		
1600	318	1000	1035			1760	40-M33	1820	40-M46		