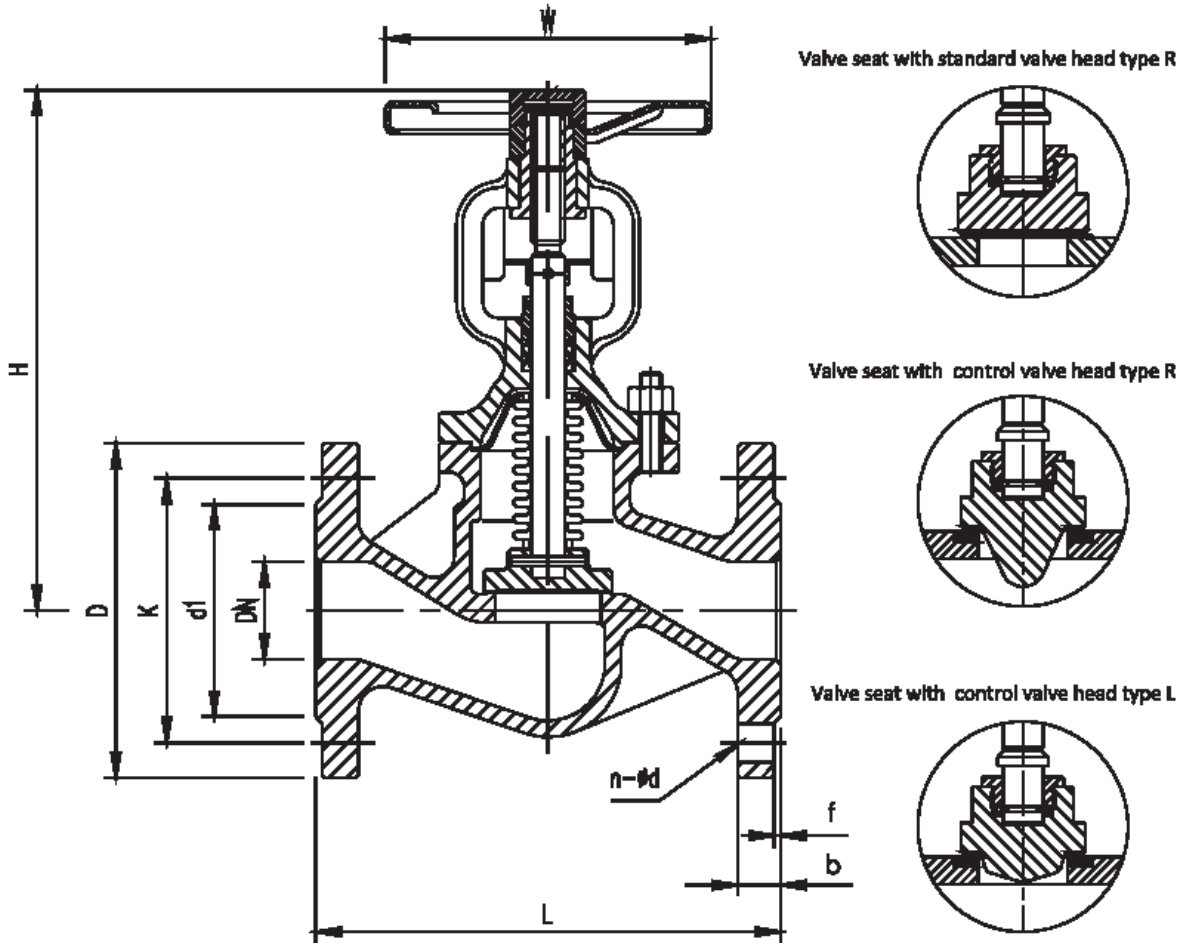
BELLOWS SEALED STOP VALVE
TYPE: ZZM-J
Tmax: 350 ºC PN40 DN15-350



Main dimensions

DN	D	K	d1	n-ød	b	f	L (F1)	H (max)	W	Weight
	[mm]									[kg]
15	95	65	45	4-ø14	16	2	130	196	120	4,2
20	105	75	58	4-ø14	18	2	150	196	140	4,7
25	115	85	68	4-ø14	18	2	160	205	160	5,6
32	140	100	78	4-ø18	18	2	180	205	160	7,5
40	150	110	88	4-ø18	18	3	200	222	200	9,5
50	165	125	102	4-ø18	20	3	230	224	240	11,9
65	185	145	122	8-ø18	22	3	290	240	280	18
80	200	160	138	8-ø18	24	3	310	265	320	24,5
100	235	190	162	8-ø22	24	3	350	350	360	38
125	270	220	188	8-ø26	26	3	400	380	400	64
150	300	250	218	8-ø26	28	3	480	410	450	87
200	375	320	285	12-ø30	34	3	600	550	500	178
250	450	385	345	12-ø33	38	3	730	715	500	280
300	515	450	410	16-ø33	42	4	850	790	500	396
350	580	510	465	16-ø36	46	4	980	950	600	700

1. Application range

Nominal pressure: PN 4,0 MPa
Body max test pressure: PT: 6,0 MPa
Seat max test pressure: PT: 4,4 MPa
Maximum allowable temperature: TMA: 400°C
Tightness testing pressure
(gas test according to PN-EN 12266-1): PT: 0,6 MPa

DN	PN	Body test pressure PT	Maximum allowable working pressure PMA at related maximum allowable temperature TMA							
			20 ^{0}C	100 ^{0}C	150 ^{0}C	200 ^{0}C	250^{0}C	300^{0}C	350^{0}C	400^{0}C
mm	MPa	MPa	MPa							
15-350	4,0	6,0	4,0	3,73	3,47	3,02	2,84	2,58	2,4	2,31

2. Basic materials

Body, bonnet, gland flange: cast carbon steel GP-240GH (1.0619)
Body seat: stainless steel X20Cr13 (1.4021)
Bellows: acid resistant cast steel GX5CrNiMo19-11-2 (1.4408)
Valve head: acid resistant cast steel GX5CrNiMo19-11-2 (1.4408)
Valve head ring: stainless steel X20Cr13 (1.4021)
Bolts/ nuts: alloy hardened steel A193 B7/carbon hardened steel A194 2H
Optional material design: body made of acid resistant cast steel GX5CrNiMo19-11-2 (1.4408)

3. Design

Connection: flanged DN15 – DN350, face type B1 acc. to PN-EN 1092-1
butt weld ends S ½" – S 14"
flanges acc. to ANSI at the client's request
Control valve head type R or L at the client`s request

4. Characteristics

Stop valves are used for cutting medium flow (water, steam and other liquid and gaseous neutral mediums at temperatures up to 400°C) on general use pipelines in industrial systems. Stop valves with control head (R or L) can also be used to control the flux of the flowing medium. They can be installed on pipelines in any position but you have to make sure that the medium flow is correct according to the arrow on the valve's body.

5. Requirements and testing

Flanges connecting sizes acc. to PN-EN 1092-1.
Face to face acc. to PN-EN 558-1.
Pressure testing acc. to PN-EN 12266-1.
Certificate of conformity in acc. with PN-EN 10204.
Design acc. to PN-EN 12516-2.
Valves have been submitted for appraisal of conformity according to the directive Pressure Equipment Directive 97/23/EC.

6. Directions for ordering

When giving your order you should supply the following information:

- medium,
- the maximum operating pressure,
- the maximum operating temperature,
- valve head type (standard, control R or L).
- type and size of connections.

7. Additional information

- 24 months warranty compulsory acc. to the conditions which are in the manufacturer's warranty card.
- The manufacturer is able to undertake inspections and repairs of the fittings as well as replacement of the internal elements if required.
- All the requirements concerning the quality and technical specifications of the fittings should be taken into consideration in your order. With the fittings we provide specification sheets (technical and quality) as follows: standard – conformity declaration, Installation, Operation and Maintenance Manual, at the client's request – certificate 2.2 or 3.1.