

HIGH PERFORMANCE DOUBLE OFFSET BUTTERFLY VALVE

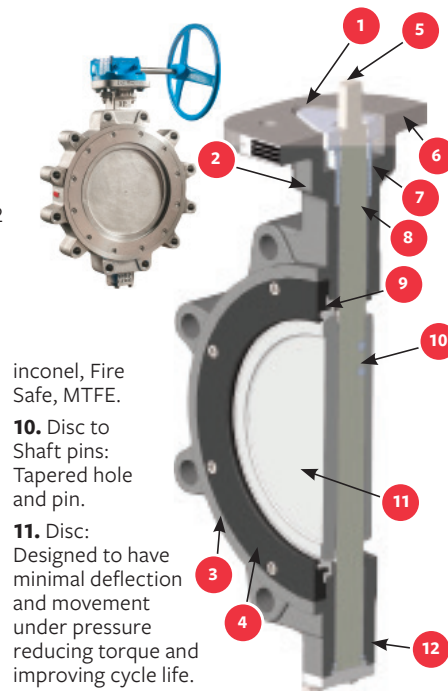
PRODUCT FEATURES

- Double offset disc and shaft.
- Blowout proof shaft design.
- Bi-Directional (Soft Seat only).
- Dead End and Double Dead End Service (Lug Type only).
- Fire Safe Certified (Metal seat and Fire Safe seat, API 607).
- Spherical Sealing Surface.
- 17-4 PH Stainless Steel Stem.
- Actuation Options: Worm Gear, Lever, Pneumatic, Electric.
- Optional Features: live loaded packing, O₂ & oil-free cleaning, steam jacket, bonnet extension, anti static. Customised designs available upon request.

PARTS/DESCRIPTIONS

- Below Bonnet Gland Packing: Recessed gland packing eliminates the need for mounting kit and reduces package height.
- Extended Neck: Bonnet to flange clearance minimum 2" (51 mm) allowing insulation.
- Body: Available Wafer, Lug, Double Flange and Butt-weld. Precision cast bodies in virtually any alloy. Castings conform to all applicable ASME codes. Certified independent testing on request.
- Seat Retention Ring: Conforms to API 609 spiral-wound gasket. Retainer plate assures seat stability and allows full rated bi-directional, dead end service.

- Shaft: One piece design provides strength and integrity under severe conditions.
- Bonnet: Allows for direct mounting of all types of actuation. ISO drilling available upon request.
- Packing: Multi-layered "cup & cone" PTFE packing gives a positive seal under high operational frequency. Multi-layered graphite packing available for metal seat and fire safe valves.
- Blowout Proof Shaft Retention: Shaft retention system meets API requirements.
- Seat: Machined to lock between body and retention ring. PTFE, RTFE, 316 Stainless Steel,



inconel, Fire Safe, MTFE.

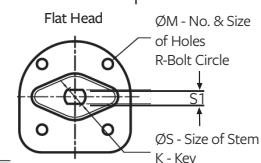
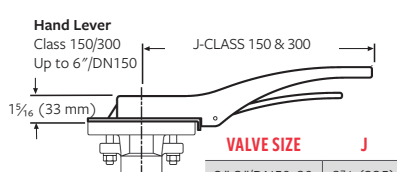
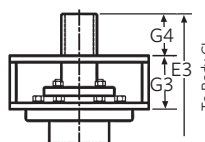
10. Disc to Shaft pins: Tapered hole and pin.

11. Disc: Designed to have minimal deflection and movement under pressure reducing torque and improving cycle life.

12. Bearings: 316 Stainless Steel saturated with either PTFE or Graphite.

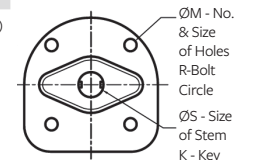
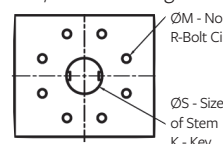
CLASS 600

VALVE SIZE	G3	G4	E3
20"/DN500	5 1/16 (150)	4 3/4 (120)	30 3/16 (770)
24"/DN600	6 1/16 (160)	4 3/4 (120)	33 3/8 (860)



VALVE SIZE	R	NO. - ØM	S1	ØS	R	NO. - ØM	S1	ØS
2"/DN50	3/4 (82)	4 1/16 (11)	3/8 (9)	1/16 (14)	-	-	-	-
2 1/2"/DN65	3/4 (82)	4 1/16 (11)	7/16 (11)	3/8 (16)	-	-	-	-
3"/DN80	3/4 (82)	4 1/16 (11)	7/16 (11)	3/8 (16)	3/4 (82)	4 1/16 (11)	1/2 (13)	3/4 (19)
4"/DN100	3/4 (82)	4 1/16 (11)	1/2 (13)	3/4 (19)	5 (127)	4 1/16 (14)	3/8 (16)	7/8 (22)
5"/DN125	3/4 (82)	4 1/16 (11)	1/2 (13)	3/4 (19)	-	-	-	-
6"/DN150	3/4 (82)	4 1/16 (11)	1/2 (13)	3/4 (19)	5 (127)	4 1/16 (14)	-	1 1/8 (35)

Class 600
20"/DN 500 & Larger



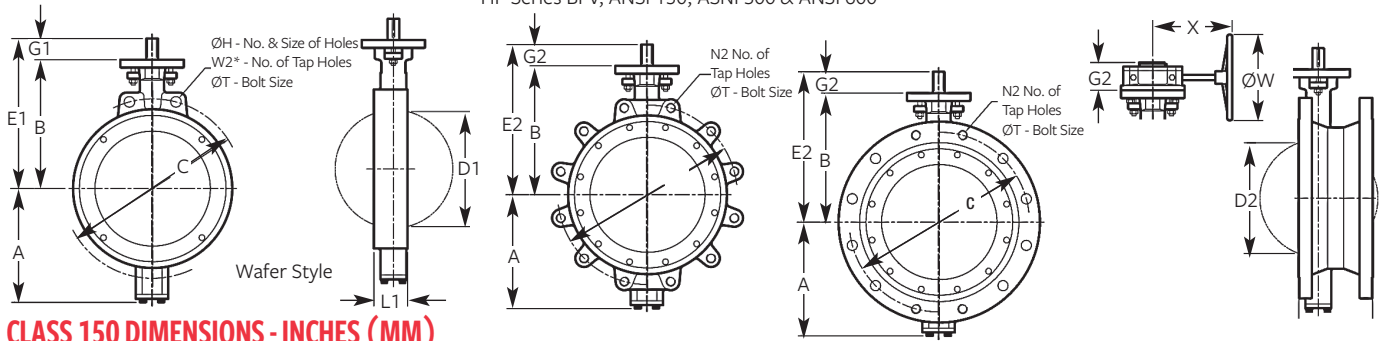
VALVE SIZE	R	NO. - ØM	ØS	R	NO. - ØM	ØS	R	NO. - ØM	ØS
8"/DN200	5 (127)	4 1/16 (14)	7/8 (22)	5 (127)	4 1/16 (14)	1 1/8 (28)	6 1/2 (165)	4 1/16 (21)	1 1/8 (47)
10"/DN250	5 (127)	4 1/16 (14)	1 1/8 (28)	5 (127)	4 1/16 (14)	1 1/8 (28)	6 1/2 (165)	4 1/16 (21)	1 1/8 (47)
12"/DN300	5 (127)	4 1/16 (14)	1 1/8 (28)	5 (127)	4 1/16 (14)	1 3/8 (35)	10 (254)	8 3/4 (19)	2 3/8 (60)
14"/DN350	5 (127)	4 1/16 (14)	1 3/8 (35)	6 1/2 (165)	4 1/16 (21)	1 1/8 (47)	10 (254)	8 3/4 (19)	2 3/8 (60)
16"/DN400	6 1/2 (165)	4 1/16 (21)	1 3/8 (35)	6 1/2 (165)	4 1/16 (21)	2 1/8 (54)	10 (254)	8 3/4 (19)	2 3/8 (60)
18"/DN450	6 1/2 (165)	4 1/16 (21)	1 3/8 (35)	10 (254)	8 3/4 (19)	2 3/8 (60)	10 (254)	8 3/4 (19)	3 1/8 (80)
20"/DN500	6 1/2 (165)	4 1/16 (21)	2 1/8 (54)	10 (254)	8 3/4 (19)	2 3/8 (60)	11 1/16 (297)	8 1/2 (23)	3 1/8 (80)
24"/DN600	10 (254)	8 3/4 (19)	2 3/8 (60)	10 (254)	8 3/4 (19)	3 1/8 (80)	11 1/16 (297)	8 1/2 (23)	3 1/8 (80)

CLASS 150*	CLASS 300	CLASS 600***
-	1/4 x 1/4 (6x6)	1/2 x 1/2 (13x13)
1/4 x 1/4 (6x6)	1/4 x 1/4 (6x6)	1/2 x 1/2 (13x13)
1/4 x 1/4 (6x6)	5/16 x 5/16 (8x8)	3/4 x 1/2 (19x13)
5/16 x 5/16 (8x8)	1/2 x 1/2 (13x13)	3/4 x 1/2 (19x13)
1/2 x 1/2 (13x13)	1/2 x 1/2 (13x13)	3/4 x 1/2 (19x13)
1/2 x 1/2 (13x13)	3/4 x 1/2 (19x13)	7/8 x 3/4 (22x14)
1/2 x 1/2 (13x13)	3/4 x 1/2 (19x13)	1 1/4 x 3/4 (28x16)
3/4 x 1/2 (19x13)	7/8 x 3/4 (22x14)	1 1/4 x 3/4 (28x16)

*Class 150 S1, 8"/DN200 - 3/8 (16). Class 150, 22"/DN550 R, No. - ØM, ØS & Key are same dimensions as 24"/DN600.

**Class 600, 6"/DN150 Key - 3/8 x 3/16 (8x8).

HP Series BFV, ANSI 150, ANSI 300 & ANSI 600



CLASS 150 DIMENSIONS - INCHES (MM)

VALVE SIZE	A	B	G1	G2	E1	E2	X	ØW	D1	D2	L1	L2	ØC	ØT	NO.-ØH	N2	F1	F2
2"/DN50	4 1/16 (106)	4 1/16 (125)	1 1/4 (32)	2 3/8 (60)	6 3/16 (157)	7 1/4 (152)	7 (178)	6 (152)	1 1/2 (39)	1 (25)	1 3/4 (44)	-	4 3/4 (120)	3/8 (16)x11UNC	2 3/4 (19)	4	-	-
2 1/2"/DN65	4 1/4 (108)	5 1/8 (149)	1 1/4 (32)	2 3/8 (60)	7 1/8 (181)	8 1/4 (209)	7 (178)	6 (152)	2 3/16 (55)	1 3/8 (41)	1 7/8 (48)	-	5 1/2 (140)	3/8 (16)x11UNC	2 3/4 (19)	4	-	-
3"/DN80	4 3/8 (118)	6 1/16 (160)	1 1/4 (32)	2 3/8 (60)	7 1/16 (192)	8 1/16 (220)	7 (178)	6 (152)	2 3/8 (69)	2 1/8 (54)	1 7/8 (49)	-	6 (152)	3/8 (16)x11UNC	2 3/4 (19)	4	-	-
4"/DN100	5 1/8 (130)	7 (178)	1 1/4 (32)	2 3/8 (60)	8 1/4 (201)	9 3/8 (238)	7 (178)	6 (152)	3 3/16 (90)	3 (77)	2 3/8 (54)	5 (127)	7 1/2 (190)	3/8 (16)x11UNC	2 3/4 (19)	8	4	4
5"/DN125	5 3/16 (147)	7 3/8 (193)	1 1/4 (32)	2 3/8 (60)	8 3/8 (225)	9 3/16 (253)	7 (178)	6 (152)	4 1/2 (114)	4 1/16 (103)	2 1/2 (57)	5 1/2 (140)	8 3/8 (216)	3/8 (19)x10UNC	2 3/4 (22)	8	4	4
6"/DN150	6 3/16 (173)	8 3/8 (213)	1 1/4 (32)	2 3/8 (60)	9 3/8 (245)	10 3/8 (273)	7 (178)	6 (152)	5 3/8 (137)	5 (127)	2 3/4 (57)	5 1/2 (140)	9 1/2 (241)	3/8 (19)x10UNC	2 3/4 (22)	8	4	4
8"/DN200	8 (203)	9 1/8 (240)	1 1/4 (32)	2 3/8 (69)	10 1/8 (272)	12 3/16 (309)	10 1/8 (256)	12 (305)	7 1/2 (232)	6 1/16 (176)	2 3/8 (65)	6 (152)	11 3/8 (298)	3/8 (19)x10UNC	2 3/4 (22)	8	4	4
10"/DN250	9 (228)	11 (280)	2 1/8 (52)	2 3/8 (69)	13 1/16 (332)	13 3/4 (350)	10 1/8 (256)	12 (305)	9 1/8 (410)	8 3/16 (224)	2 3/8 (72)	6 1/2 (165)	14 1/4 (362)	3/8 (22)x9UNC	2-1 (25)	12	8	4
12"/DN300	10 3/4 (273)	12 1/8 (309)	2 (51)	2 3/8 (69)	14 1/16 (361)	14 3/4 (379)	10 1/8 (256)	12 (305)	10 7/8 (277)	10 1/2 (267)	3 3/8 (81)	7 (178)	17 (432)	3/8 (22)x9UNC	2-1 (25)	12	8	4
14"/DN350	12 1/8 (308)	13 1/8 (335)	2 1/4 (57)	3 3/8 (87)	15 1/16 (392)	16 3/8 (422)	12 (305)	12 (305)	12 1/8 (313)	11 1/16 (304)	3 3/8 (92)	7 1/2 (190)	18 3/4 (476)	1 (25)x8UNC	2-1 1/2 (29)	12	8	4
16"/DN400	13 1/8 (348)	15 1/2 (393)	3 (76)	3 3/8 (87)	18 1/16 (469)	18 3/8 (480)	12 (305)	12 (305)	14 1/16 (358)	13 3/8 (350)	4 (102)	8 3/8 (216)	21 1/4 (540)	1 (25)x8UNC	2-1 1/2 (29)	16	12	4
18"/DN450	15 1/8 (283)	16 1/8 (420)	3 (76)	4 (102)	19 1/2 (496)	20 3/8 (522)	12 1/8 (307)	16 (406)	16 1/4 (412)	15 3/8 (403)	4 1/2 (114)	8 3/4 (222)	22 3/4 (578)	1 1/2 (29)x8UNC	-	16	12	4
20"/DN500	16 1/4 (413)	17 3/4 (450)	3 (76)	4 (102)	20 1/4 (526)	21 3/4 (552)	12 1/8 (307)	16 (406)	17 3/8 (453)	17 1/2 (445)	5 (127)	9 (229)	25 (635)	1 1/2 (29)x8UNC	-	20	16	4
24"/DN600	19 1/8 (485)	20 3/8 (530)	4 (102)	5 1/8 (130)	24 3/8 (632)	26 (660)	16 3/8 (430)	23 3/8 (600)	21 1/4 (540)	21 (534)	6 1/8 (154)	10 1/2 (267)	29 1/2 (749)	1 1/2 (32)x8UNC	-	20	16	4

*W2: 18" - 24"/DN450 - DN600 - 4

CLASS 300 DIMENSIONS - INCHES (MM)

VALVE SIZE	A	B	G1	G2	E1	E2	X	ØW	D1	D2	L1	L2	ØC	ØT	NO.-ØH	N2	F1	F2
2" (DN50)	4 1/16 (106)	4 1/16 (125)	1 1/4 (32)	2 3/8 (60)	6 3/16 (157)	7 1/4 (152)	7 (178)	6 (152)	1 1/2 (39)	1 (25)	1 3/4 (44)	-	5 (127)	3/8 (16)x11UNC	2 3/4 (19)	8	-	-
2 1/2" (DN65)	4 1/4 (108)	5 1/8 (149)	1 1/4 (32)	2 3/8 (60)	7 1/8 (181)	8 1/4 (209)	7 (178)	6 (152)	2 3/16 (55)	1 3/8 (41)	1 7/8 (48)	-	5 1/8 (149)	3/8 (19)x10UNC	2 3/4 (22)	8	-	-
3" (DN80)	4 3/8 (118)	6 1/16 (160)	1 1/4 (32)	2 3/8 (60)	7 1/16 (192)	8 1/16 (220)	7 (178)	6 (152)	2 3/8 (68)	2 1/8 (54)	1 7/8 (49)	-	6 1/8 (168)	3/8 (19)x10UNC	2 3/4 (22)	8	-	-
4" (DN100)	5 1/8 (130)	7 (178)	1 1/4 (32)	2 3/8 (60)	8 1/4 (201)	9 3/8 (238)	7 (178)	6 (152)	3 3/8 (90)	3 (77)	2 3/8 (54)	5 (127)	7 3/8 (200)	3/8 (19)x10UNC	2 3/4 (22)	8	4	4
5" (DN125)	5 3/16 (147)	7 3/8 (193)	1 1/4 (32)	2 3/8 (60)	8 3/8 (225)	9 3/16 (253)	7 (178)	6 (152)	4 1/2 (114)	4 1/16 (103)	2 1/2 (57)	5 1/2 (140)	9 3/8 (235)	3/8 (19)x10UNC	2 3/4 (22)	8	4	4
6" (DN150)	6 3/16 (182)	8 3/8 (220)	1 1/4 (32)	2 3/8 (60)	9 3/8 (253)	11 (279)	7 (178)	6 (152)	5 3/8 (137)	4 1/16 (126)	2 3/8 (59)	5 1/2 (140)	10 3/8 (270)	3/8 (19)x10UNC	2 3/4 (22)	12	8	4
8" (DN200)	8 3/8 (223)	10 1/4 (260)	2 (51)	2 3/8 (69)	12 1/4 (311)	13 (329)	10 1/8 (256)	12 (305)	7 1/4 (184)	6 3/16 (173)	2 3/8 (73)	6 (152)	13 (329)	3/8 (22)x9UNC	2-1 (25)	12	8	4
10" (DN250)	9 3/8 (250)	11 1/8 (290)	2 (51)	2 3/8 (69)	13 1/8 (341)	14 3/8 (359)	10 1/8 (256)	12 (305)	8 3/8 (225)	8 1/8 (218)	3 3/8 (83)	6 1/2 (165)	15 1/4 (387)	1 (25)x8UNC	-	16	12	4
12" (DN300)	11 1/8 (281)	12 3/8 (325)	2 1/8 (52)	3 3/8 (87)	14 3/8 (378)	16 1/4 (413)	12 (305)	12 (305)	10 3/8 (269)	10 1/4 (260)	3 3/8 (92)	7 (178)	17 3/8 (451)	1 1/2 (29)x8UNC	-	16	12	4
14" (DN350)	13 1/8 (333)	14 3/8 (375)	3 (76)	4 (102)	17 3/4 (451)	18 3/4 (477)	12 1/8 (307)	16 (406)	11 1/8 (303)	11 1/8 (296)	4 3/8 (117)	7 1/2 (190)	20 1/4 (514)	1 1/2 (29)x8UNC	-	20	16	4
16" (DN400)	14 3/8 (378)	16 3/4 (426)	3 (76)	4 (102)	19 3/4 (501)	20 3/4 (527)	12 1/8 (307)	16 (406)	13 3/8 (345)	13 3/8 (335)	5 1/4 (133)	8 3/8 (216)	22 1/2 (572)	1 1/2 (32)x8UNC	-	20	16	4
18" (DN450)	16 1/4 (420)	18 1/8 (465)	4 (102)	5 1/8 (130)	22 3/8 (567)	23 3/8 (595)	16 3/8 (430)	23 3/8 (600)	15 1/8 (399)	15 3/8 (391)	5 1/4 (149)	8 3/8 (222)	24 3/8 (629)	1 1/2 (32)x8UNC	-	24	20	4
20" (DN500)	18 1/8 (460)	19 3/8 (505)	4 (102)	5 1/8 (130)	23 3/8 (607)	25 (635)	16 3/8 (430)	23 3/8 (600)	17 3/8 (454)	17 1/2 (445)	6 1/4 (159)	9 (229)	27 (686)	1 1/2 (32)x8UNC	-	24	20	4
24" (DN600)	20 3/8 (532)	22 3/8 (580)	4 3/8 (113)	6 3/8 (173)	27 1/4 (693)	29 3/8 (753)	18 3/8 (478)	27 3/8 (700)	20 3/8 (532)	20 3/8 (522)	7 1/8 (181)	10 1/2 (267)	32 (813)	1 1/2 (39)x8UNC	-	24	20	4

*W2: 10" - 24"/DN250 - DN600 - 4

CLASS 600 DIMENSIONS - INCHES (MM)

VALVE SIZE	A	B	G1	G2	E1	E2	X	ØW	D1	D2	L1	L2	ØC	ØT	NO.-ØH	N2	F1	F2
3" (DN80)	5 3/16 (131)	6 1/16 (167)	1 1/8 (30)	2 3/8 (60)	7 3/4 (197)	8 3/16 (227)	7 (178)	6 (152)	2 1/16 (69)	2 1/2 (64)	2 3/8 (55)	-	6 3/8 (168)	3/4 (19)x10UNC	2 3/4 (22)	8	-	-
4" (DN100)	5 1/16 (151)	7 1/16 (195)	1 1/4 (32)	2 3/8 (69)	8 3/16 (227)	10 1/16 (264)	10 1/8 (256)	12 (305)	3 3/8 (92)	2 3/16 (75)	2 1/2 (64)	7 1/2 (190)	8 3/8 (216)	3/4 (22)x9UNC	2-1 (25)	8	4	4
6" (DN150)	8 3/8 (213)	9 1/8 (240)	2 1/4 (57)	3 3/8 (87)	11 1/16 (297)	12 3/8 (327)	12 (305)	12 (305)	5 (127)	4 1/8 (107)	3 3/8 (78)	8 3/4 (210)	11 1/2 (292)	1 (25)x8UNC	-	12	8	4
8" (DN200)	9 3/4 (248)	11 1/8 (290)	3 (76)	4 (102)	14 1/8 (366)	15 1/8 (392)	12 1/8 (307)	16 (406)	6 3/8 (161)	5 1/16 (145)	4 1/8 (103)	9 1/8 (230)	13 3/4 (349)	1 1/2 (29)x8UNC	-	12	8	4
10" (DN250)	11 1/8 (288)	13 1/8 (335)	3 (76)	4 (102)	16 3/8 (411)	17 3/8 (437)	12 1/8 (307)	16 (406)	8 3/8 (206)	7 3/16 (199)	4 3/8 (117)	9 3/8 (250)	17 (432)	1 1/2 (32)x8UNC	-	16	12	4
12" (DN300)	13 1/8 (333)	15 1/8 (385)	4 (102)	5 1/8 (130)	19 3/8 (487)	20 3/8 (515)	16 3/8 (430)	23 3/8 (600)	9 1/16 (246)	9 1/16 (239)	5 1/4 (140)	10 3/8 (270)	19 1/4 (489)	1 1/2 (32)x8UNC	-	20	16	4
14" (DN350)	14 3/8 (380)	17 1/8 (435)	4 (102)	5 1/8 (130)	21 1/8 (537)	22 1/8 (565)	16 3/8 (430)	23 3/8 (600)	10 1/8 (278)	10 1/8 (265)	6 1/8 (155)	11 1/8 (290)	20 3/8 (527)	1 1/2 (35)x8UNC	-	20	16	4
16" (DN400)	16 1/8 (415)	18 1/8 (475)	4 (102)	5 1/8 (130)	22 3/8 (469)	23 3/8 (605)	16 3/8 (430)	23 3/8 (600)	12 1/16 (322)	12 1/8 (312)	7 (178)	12 3/8 (310)	23 3/8 (603)	1 1/2 (39)x8UNC	-	20	16	4
18" (DN450)	18 1/8 (460)	19 3/8 (500)	4 1/8 (113)	6 3/8 (173)	24 3/8 (613)	26 1/2 (673)	18 3/8 (478)	27 3/8 (700)	14 1/8 (367)	14 1/8 (367)	7 3/8 (200)	13 (329)	25 3/8 (654)	1 1/2 (41)x8UNC	-	20	16	4
20" (DN500)	19 3/8 (490)	19 3/8 (500)	-	6 3/8 (170)	-	32 3/8 (820)	22 3/8 (580)	27 3/8 (700)	15 3/8 (400)	15 3/8 (389)	8 1/4 (216)	13 3/8 (350)	28 1/2 (724)	1 1/2 (41)x8UNC	-	24	20	4
24" (DN600)	23 (585)	22 3/8 (580)	-	6 3/8 (170)	-	35 3/8 (910)	22 3/8 (580)	27 3/8 (700)	19 3/8 (506)	19 3/8 (492)	9 3/8 (232)	15 3/8 (390)	33 (838)	1 1/2 (48)x8UNC	-	24	16	8

*W2: 6" - 24"/DN150 - DN600 - 4

WEIGHT - LB (KG)

VALVE SIZE	2"/DN50	2 1/2"/DN65	3"/DN80	4"/DN100	5"/DN125	6"/DN150	8"/DN200	10"/DN250	12"/DN300	14"/DN350	16"/DN400	18"/DN450	20"/DN500	24"/DN600
CLASS 150	9 (4)	15 (7)	22 (10)	24 (11)	29 (13)	33 (15)	55 (25)	99 (45)	143 (65)	178 (81)	323 (146)	359 (163)	447 (203)	763 (346)
CLASS 300	9 (4)	15 (7)	22 (10)	24 (11)	40 (18)	48 (22)	81 (37)	178 (81)	196 (89)	328 (149)	464 (210)	605 (274)	662 (300)	1005 (456)
CLASS 600	-	-	53 (24)	68 (31)	114 (52)	163 (74)	260 (118)	438 (199)	667 (302)	920 (417)	1122 (509)	1415 (642)	1617 (733)	2110 (957)

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