

Neles™ soft seated ball valves

Trunnion supported, full bore, series 6D

Neles™ series 6D is an API 6D certified (cert. no. 6D-1529) full bore trunnion ball valve. The valve incorporates industry proven technology for body, ball, stem, stuffing box and seat designs. Packed with features, these piggable valves deliver long-lasting performance in isolation service. Valve modularity widens the options in material and operator selections to meet application specific requirements. Application based trim selection ensures the valve can serve for various conditions. Valve series meets the latest industry requirements concerning safety and emissions.

Applications

- Hydrocarbons
- Oil and gas (up-stream and mid-stream)
- Pipelines
- Chemical and petrochemical plants
- Emergency valves ESD/ESV/HIPPS
- Other general process industries

Size range

- NPS 2 – 24 / DN 50 – 600, full bore

Pressure classes

- ASME Class 150 and 300 (higher class rating on request)

Seat tightness

- Bubble tight with no visible leakage under full differential pressure as per API 6D, API 598, ISO 5208 Rate-A
- Suitable for vacuum service

Features

- 3 mm added wall thickness as standard for longevity and enhanced corrosion protection
- Robust body and bolting complying to ASME Section VIII pressure vessel code and ASME B16.34 for maximum structural integrity
- Dowel pins and keys provided to avoid bolts being subjected to combined torsional/bending loads in body, stem housing, trunnion, and stuffing box
- Fully machined valve internal surfaces for reduced flow induced frictional losses (fully piggable valve)
- Cavity vent port and bottom drain port in body as standard feature



- Dual body seal with primary O-ring and secondary graphite gasket for excellent performance when subjected to thermal shocks (in-service temperature & pressure excursions, event of fire, etc.)
- One-piece solid mirror finished ball with internal relief hole to avoid cavity over pressurization in valve open condition
- Spring loaded single piston effect seat (SPE) with double block and bleed (DBB) design that absorbs pressure and thermal shocks, wear, and provides a long service life
- DBB seats allows venting of the body cavity in closed position
- Self-relieving Primary Soft Secondary Metal seat (PSSM) design with double barrier O-ring and graphite seal to prevent solids entrapment/accumulation and provide excellent Fire-Tite™ performance
- Nickel alloy (Inconel X-750) helical springs behind seat ensures uniform & consistent seat leak tightness even in low pressure
- Corrosion resistant rugged trunnion secured with pins & low friction bearings ensure precise guiding of ball during valve operation
- Emergency seat and stem sealant injection
- Anti-static arrangement between ball-stem and stem-body
- Single piece, internal entry stem, blow-out proof, and precision guided with polymer and graphite thrust washer (for Fire-Tite™ performance) & internal bushings which handle side loading
- Engineered mounting hardware with high strength coupler & guide bearing for near perfect torque transmission for various types of actuators (including optional compliance to API 6DX)

Options

- Optional weld overlay on wetted area
O-ring sealing surfaces in carbon & alloy steel valves to resist corrosion

Full bore

- Maximum Cv per nominal size / Full bore design for API 6D requirements
- Cylindrical flow path with low flow resistance
- Piggable

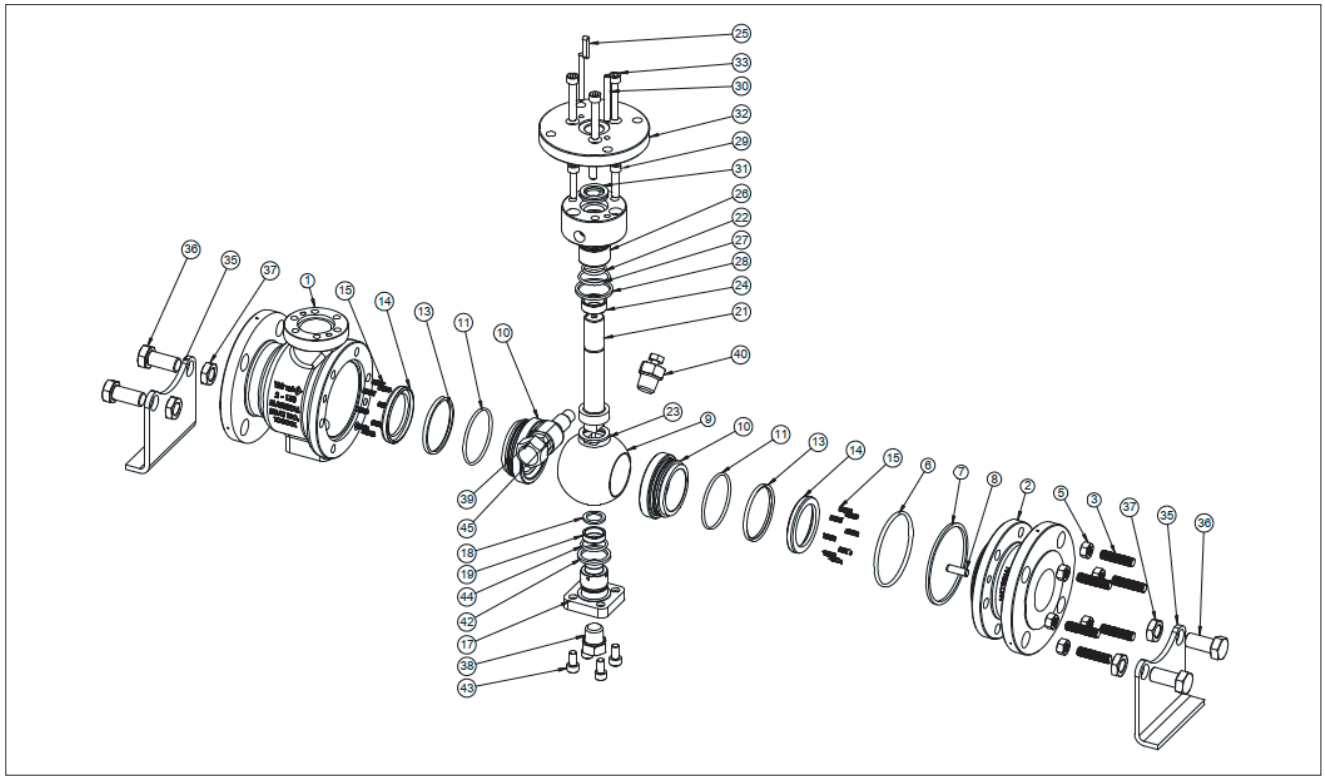
Reduced emissions

- Off-center body joint provides:
 - Uninterrupted circular O-ring and graphite gasket
 - No bending forces from pipeline to gland packing for lowest emissions

- Encapsulated single piece gland compression plate prevents external dirt ingress and provides corrosion protection
- Triple barrier stem seal assures long operating life, low emission levels, and online gland packing replacement
 - Internal pressure energized sandwich stem thrust washer (Fluoropolymer + Graphite)
 - O-rings
 - Graphite packing

Exploded view and parts list

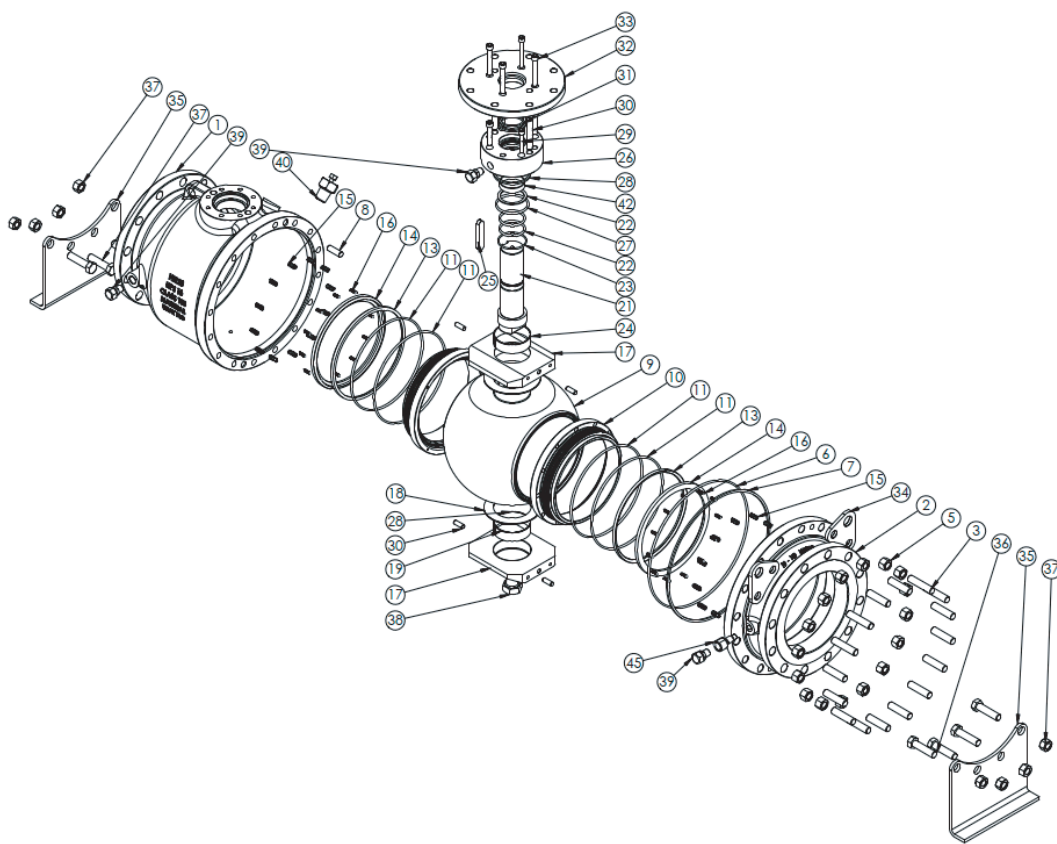
NPS 2 & 3 ASME Class 150 & 300



Item	Part Description	Material	
		Carbon steel	Stainless steel
1	Body	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8M
2	Body cap	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8M
3	Stud	ASTM A193 Gr. B7	ASTM A193 Gr. B8M
5	Heavy Hex Nut	ASTM A194 Gr. 2H	ASTM A194 Gr. 8M
6	O-ring	Fluoroelastomer (FKM)	316 SS
7	Gasket		
8	Dowel Pin	AISI 4140	
9	Ball	ASTM A105 + ENP coating	316 SS
10	Seat	Reinforced PTFE with metal backing (ASTM A105 + ENP coating)	Reinforced PTFE with metal backing (316 SS)
11	O-Ring	Fluoroelastomer (FKM)	316 SS
13	Seat Gasket		
14	Seat Retainer	ASTM A105 + ENP coating	316 SS
15	Spring	Inconel X-750	
17	Trunnion	ASTM A105	316 SS
18	Thrust Washer	AISI 316 + PTFE	17-4 PH steel
19	Bearing		
21	Stem	13% Chrome steel	
22	O-Ring	Fluoroelastomer (FKM)	ASTM A182 Gr. F316
23	Thrust Washer (Stem seal)		
24	Bearing	Fluoropolymer + Graphite	
25	Key	AISI 316 + PTFE	
26	Stem Housing (Bonnet)	AISI 329	ASTM A193 Gr. B8M
27	O-Ring	Fluoroelastomer (FKM)	ASTM A193 Gr. B8M
28	Gasket		
29	Cap Screw	ASTM A193 Gr. B7	
30	Dowel Pin	AISI 4140	
31	Gland Packing	Graphite	
32	Mounting Flange (Gland)	ASTM A105	ASTM A182 Gr. F316
33	Cap Screw	ASTM A193 Gr. B7	ASTM A193 Gr. B8M
35	Mounting Stand	Coated steel	ASTM A193 Gr. B8M
36	Bolt		
37	Nut	Coated steel	
38	Drainage Connection	316 SS	
39	Grease Fitting	316 SS	
40	Bleeder Valve	316 SS	
42	Gasket	Graphite	
43	Cap Screw	ASTM A193 Gr. B7	ASTM A193 Gr. B8M
44	O-ring	Fluoroelastomer (FKM)	ASTM A193 Gr. B8M
45	Connector		

Note: NACE compliant Carbon steel valve will have ASTM A193 Gr. L7M & ASTM A194 Gr. 7M bolting

NPS 4 to 24 ASME Class 150 & 300



Item	Part Description	Material	
		Carbon steel	Stainless steel
1	Body	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8M
2	Body cap	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8M
3	Stud	ASTM A193 Gr. B7	ASTM A193 Gr. B8M
5	Heavy Hex Nut	ASTM A194 Gr. 2H	ASTM A194 Gr. 8M
6	O-ring	Fluoroelastomer (FKM)	
7	Gasket	Graphite	
8	Dowel Pin	AISI 4140	
9	Ball	ASTM A105 + ENP coating	316 SS
10	Seat	Reinforced PTFE with metal backing (ASTM A105 + ENP coating)	
11	O-Ring	Fluoroelastomer (FKM)	
13	Seat Gasket	Graphite	
14	Seat Retainer	ASTM A105 + ENP coating	316 SS
15	Spring	Inconel X-750	
16	Spring	Inconel X-750	
17	Trunnion (Trunnion plate)	ASTM A105	316 SS
18	Thrust Washer	AISI 316 + PTFE	
19	Bearing	AISI 316 + PTFE	
20	Dowel Pin	AISI 4140	
21	Stem	13% Chrome steel	17-4 PH steel
22	O-Ring	Fluoroelastomer (FKM)	
23	Thrust Washer (Stem seal)	Fluoropolymer + Graphite	
24	Bearing	AISI 316 + PTFE	
25	Key	AISI 329	
26	Stem Housing (Bonnet)	ASTM A105	ASTM A182 Gr. F316
27	O-Ring	Fluoroelastomer (FKM)	
28	Gasket	Graphite	
29	Cap Screw	ASTM A193 Gr. B7	ASTM A193 Gr. B8M
30	Dowel Pin	AISI 4140	
31	Gland Packing	Graphite	
32	Mounting Flange (Gland)	ASTM A105	ASTM A182 Gr. F316
33	Cap Screw	ASTM A193 Gr. B7	ASTM A193 Gr. B8M
34	Lifting Hook	Coated steel	
35	Mounting Stand	Coated steel	
36	Bolt	Coated steel	
37	Nut	Coated steel	
38	Drainage Connection	316 SS	
39	Grease Fitting	316 SS	
40	Bleeder Valve	316 SS	
45	Connector	316 SS	

Note: NACE compliant Carbon steel valve will have ASTM A193 Gr. L7M & ASTM A194 Gr. 7M bolting

Technical specification

Product type

Full bore valve
Trunnion supported ball design
Off-center split body design

Pressure ratings

ASME 150 and 300 (larger class rating on request)

Size range

NPS 2 – 24 / DN 50 – 600

Temperature range

-29 °C...+200 °C / -20 °F...+392 °F

Design standards

Valve body	API 6D, ASME B16.34
Valve flanges	ASME B16.5
Face-to-face	API 6D, ASME B16.10 long pattern
Actuator mount	ISO 5211
Fire safe	API 607 (8th edition) & ISO 10497:2022
Fugitive emissions	ISO 15848

Standard materials

Body:	WCB or CF8M
Ball:	A105 + ENP coating or AISI 316
Bearings:	AISI 316 + PTFE
Seats:	Reinforced PTFE
Seals/gaskets:	O-ring/Graphite
Body gasket:	Graphite
Gland packing:	O-ring + Graphite
Bolting:	B7/2H or B8M/8M

Material and test certification

EN 10204-3.1 material certificates for body and bonnet
Valve pressure test and seat leak tightness report

Standards & options

CE marked for PED & ATEX as standard
Anti-static as standard
NACE MR 0175 (Optional)
API 6D monogram (Optional)
API 6DX mounting hardware & actuators (Optional)

Valve testing

Each valve is tested for body integrity and seat tightness as per API 6D, API 598, ISO 5208.

The body test pressure is 1.5 x rated pressure at ambient temperature.

The seat test pressure is 1.1 x rated pressure at ambient temperature.

The test medium is corrosion inhibited water.

Air seat leak test as standard.

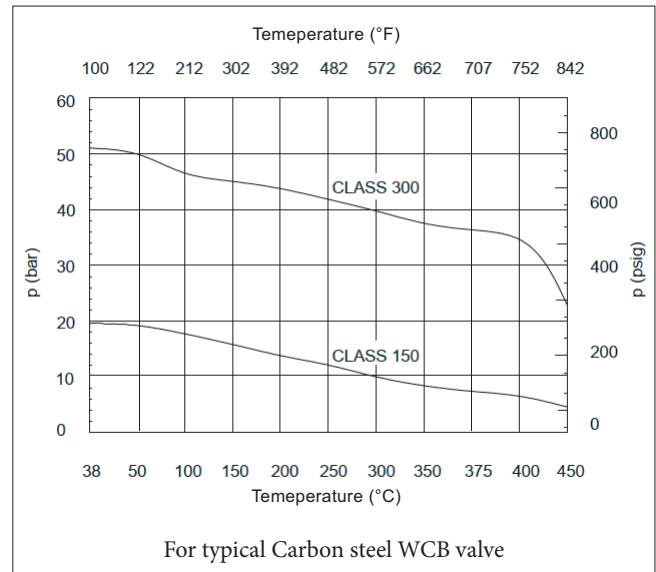
Valve tightness

All versions are with no visible leakage as per API 6D, API 598, ISO 5208 Rate-A.

Optional tests

Cavity over pressure test, Double block & bleed test, Low pressure air seat leak test, Anti-static test, etc. as per API 6D

Maximum allowable ΔP in on-off service



(Note: Valve suitable for use between -29°C to +200°C)

Actuator selection

6D series valve can be equipped with the following Neles™ actuator types:

1. B1 & N1 series pneumatic double acting or spring return actuator
2. Manual gear operator
3. Optional API 6DX mounting hardware & actuator

When selecting other actuators, please contact your local Valmet representative.

For the correct actuator selection in on-off service, the following process data are mandatory:

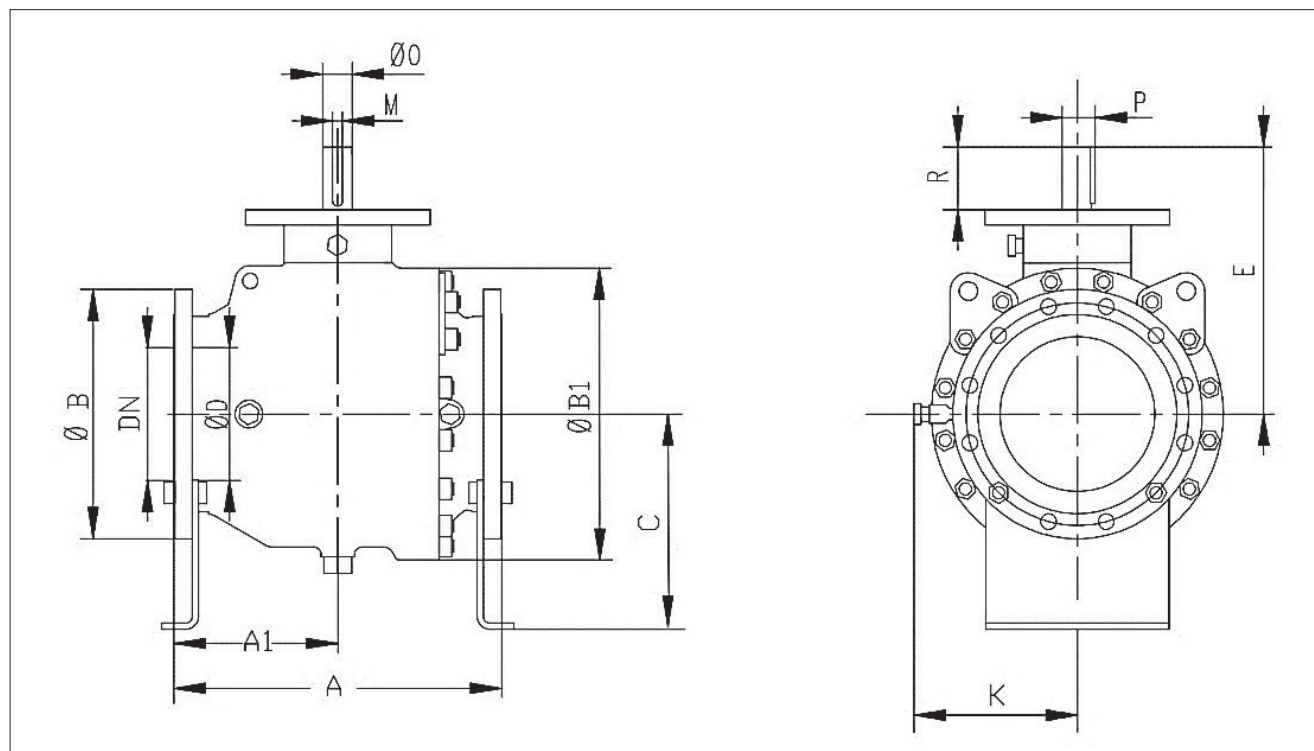
- valve size, pressure class, seat type
- gland packing type
- maximum shut-off pressure across the valve
- supply pressure for the actuator

Note:

Each valve can be application specific, many factors should be considered when selecting a valve for a given application. Therefore, some of the applications in which the valves are used are outside the scope of this document. If you have any questions concerning the use, application or compatibility of the valve with the intended service, contact nearest Valmet sales office for more information.

Dimensions & weight

Bare valve



Note: Valve face-to-face dimension acc. to Table C-2 of API 6D

SI units

ASME Class 150

NPS	DIMENSIONS, mm												WEIGHT kg
	A	A1	$\varnothing B$	$\varnothing B1$	C	$\varnothing D$	E	K	M	$\varnothing O$	P	R	
2	178	84	152	136.5	131	49	172	125	6	22	24.5	34	21
3	203	94.5	190	180	164	74	206.5	170	12	30	33	43.5	37
4	229	114.5	229	230	181	100	243	170	10	38	41	55	53
6	394	197	279	324	210	150	292.5	170	14	45	48.5	62.5	153
8	457	228.5	343	403	313	201	381	250	18	60	64	80	257
10	533	266.5	406	475	350	252	437.5	275	18	64	68	105	380
12	610	305	483	566	410	303	489	345	20	73	77.5	114	575
14	686	343	533	631	400	334	525.5	350	25	87	90	130.5	795
16	762	381	597	726	500	385	615	415	25	92	97	153.5	1195
18	864	432	635	800	500	436	689.5	435	28	100	106	158	1410
20	914	457	698	900	570	487	715	485	32	110	117	172.5	1850
24	1067	533.5	813	1040	620	589	860	550	32	122	129	220	2800

ASME Class 300

NPS	DIMENSIONS, mm												WEIGHT kg
	A	A1	$\varnothing B$	$\varnothing B1$	C	$\varnothing D$	E	K	M	$\varnothing O$	P	R	
2	216	103	165	136.5	116	49	172	125	6	22	24.5	34	25
3	283	137.5	210	190	182	74	206.5	170	12	30	33	43.5	52
4	305	142.5	254	236	156	100	243	170	10	38	41	55	76
6	403	201.5	318	338	228.5	150	292.5	170	14	45	48.5	62.5	182
8	502	251	381	420	315	201	381	280	18	60	64	80	340
10	568	284	444	490	360	252	437.5	310	18	64	68	105	460
12	648	324	521	587	410	303	489	350	20	73	77.5	114	690
14	762	381	584	631	400	334	525.5	350	25	87	90	130.5	850
16	838	435.8	648	740	500	385	615	420	25	92	97	153.5	1205
18	914	457	711	822	500	436	689.5	445	28	100	106	158	1645
20	991	495.5	775	920	570	487	715	495	32	110	117	172.5	2255
24	1143	571.5	914	1070	620	589	860	550	32	122	130	220	3430

Imperial units

ASME Class 150

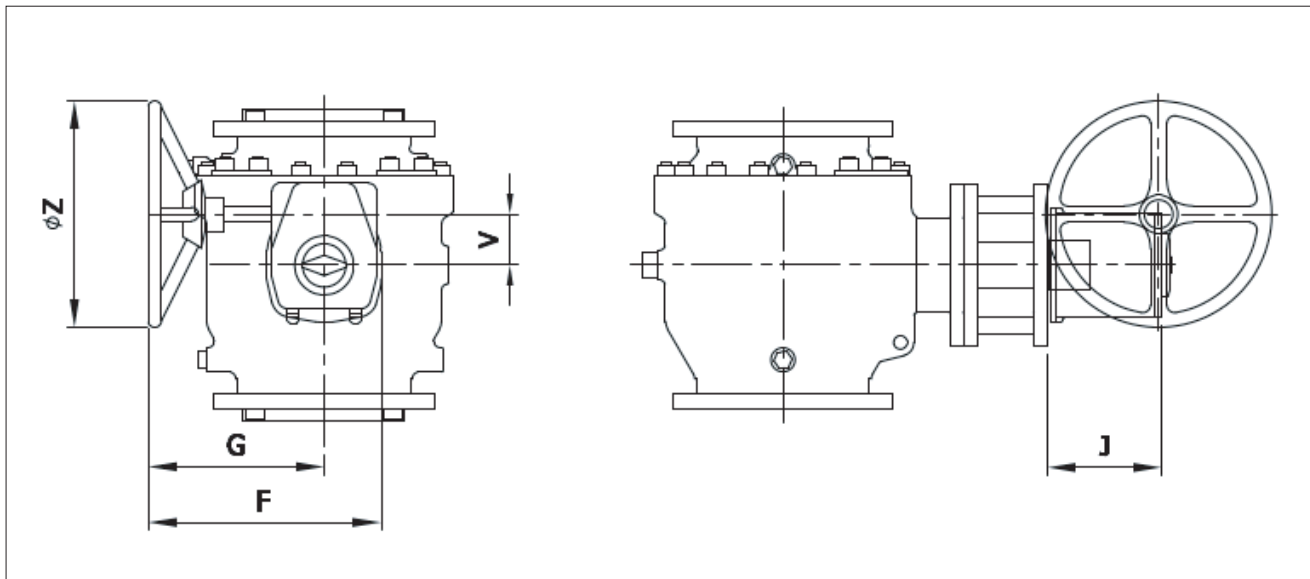
NPS	DIMENSIONS, inch												WEIGHT lbs
	A	A1	ØB	ØB1	C	ØD	E	K	M	ØO	P	R	
2	7.01	3.31	5.98	5.37	5.16	1.93	6.77	4.92	0.24	0.87	0.96	1.34	46
3	7.99	3.72	7.48	7.09	6.46	2.91	8.13	6.69	0.47	1.18	1.30	1.71	82
4	9.02	4.51	9.02	9.06	7.13	3.94	9.57	6.69	0.39	1.50	1.61	2.17	117
6	15.51	7.76	10.98	12.76	8.27	5.91	11.52	6.69	0.55	1.77	1.91	2.46	337
8	17.99	9.00	13.50	15.87	12.32	7.91	15.00	9.84	0.71	2.36	2.52	3.15	567
10	20.98	10.49	15.98	18.70	13.78	9.92	17.22	10.83	0.71	2.52	2.68	4.13	838
12	24.02	12.01	19.02	22.28	16.14	11.93	19.25	13.58	0.79	2.87	3.05	4.49	1268
14	27.01	13.50	20.98	24.84	15.75	13.15	20.69	13.78	0.98	3.43	3.54	5.14	1753
16	30.00	15.00	23.50	28.58	19.69	15.16	24.21	16.34	0.98	3.62	3.82	6.04	2635
18	34.02	17.01	25.00	31.50	19.69	17.17	27.15	17.13	1.10	3.94	4.17	6.22	3109
20	35.98	17.99	27.48	35.43	22.44	19.17	28.15	19.09	1.26	4.33	4.61	6.79	4079
24	42.01	21.00	32.01	40.94	24.41	23.19	33.86	21.65	1.26	4.80	5.08	8.66	6173

ASME Class 300

NPS	DIMENSIONS, inch												WEIGHT lbs
	A	A1	ØB	ØB1	C	ØD	E	K	M	ØO	P	R	
2	8.50	4.06	6.50	5.37	4.57	1.93	6.77	4.92	0.24	0.87	0.96	1.34	55
3	11.14	5.41	8.27	7.48	7.17	2.91	8.13	6.69	0.47	1.18	1.30	1.71	115
4	12.01	5.61	10.00	9.29	6.14	3.94	9.57	6.69	0.39	1.50	1.61	2.17	168
6	15.87	7.93	12.52	13.31	9.00	5.91	11.52	6.69	0.55	1.77	1.91	2.46	401
8	19.76	9.88	15.00	16.54	12.40	7.91	15.00	11.02	0.71	2.36	2.52	3.15	750
10	22.36	11.18	17.48	19.29	14.17	9.92	17.22	12.20	0.71	2.52	2.68	4.13	1014
12	25.51	12.76	20.51	23.11	16.14	11.93	19.25	13.78	0.79	2.87	3.05	4.49	1521
14	30.00	15.00	22.99	24.84	15.75	13.15	20.69	13.78	0.98	3.43	3.54	5.14	1874
16	32.99	17.16	25.51	29.13	19.69	15.16	24.21	16.54	0.98	3.62	3.82	6.04	2657
18	35.98	17.99	27.99	32.36	19.69	17.17	27.15	17.52	1.10	3.94	4.17	6.22	3627
20	39.02	19.51	30.51	36.22	22.44	19.17	28.15	19.49	1.26	4.33	4.61	6.79	4971
24	45.00	22.50	35.98	42.13	24.41	23.19	33.86	21.65	1.26	4.80	5.12	8.66	7562

Valve with manual operator

MGR Series



Note: Standard mounting hardware between valve & gear operator complies with API 6DX

SI units

ASME Class 150

NPS	Gear	ISO Mounting	Dimensions, mm					WEIGHT kg
			F	G	J	V	øZ	
2	MGR 5/QA	F05	255	226	56	42	102	23
3	MGR 5/QA	F05	255	226	56	42	102	39
4	MGR7/QA	F07	268	217	61	52	200	57
6	MGR10/QA	F10	303	252	61	52	305	157
8	MGR12/QA	F14	369	304	87	71	508	266
10	MGR14/QA	F16	381	306	92	86	813	394
12	MGR14/QA	F16	381	306	92	86	813	589
14	MGR16/QA	F25	422	348	119	53	813	819
16	MGR16/QA	F25	422	348	119	53	813	1219
18	MGR20/K85A	F25	539	430	131	140	610	1459
20	MGR20/K85A	F25	539	430	131	140	610	1899
24	MGR30/K105A	F30	620	470	131	182	711	2864

ASME Class 300

NPS	Gear	ISO Mounting	Dimensions, mm					WEIGHT kg
			F	G	J	V	øZ	
2	MGR5/QA	F05	255	226	56	42	102	27
3	MGR7/QA	F07	268	217	61	52	200	56
4	MGR10/QA	F10	303	252	61	52	305	80
6	MGR14/QA	F16	381	306	92	86	813	196
8	MGR14/QA	F16	381	306	92	86	813	354
10	MGR15/QA	F16	437	346	103	104	813	482
12	MGR16/QA	F25	422	348	119	53	813	714
14	MGR20/K85A	F25	539	430	131	140	610	899
16	MGR30/K105A	F30	620	470	131	182	711	1269
18	MGR30/K105A	F30	620	470	131	182	711	1709
20	MGR30/K105A	F30	620	470	131	182	711	2319
24	MGR40/K135A	F35	662	490	169	209	711	3564

Imperial units

ASME Class 150

NPS	Gear	Dimensions, inch						WEIGHT lbs
		ISO Mounting	F	G	J	V	øZ	
2	MGR 5/QA	F05	10.04	8.90	2.20	1.65	4.02	51
3	MGR 5/QA	F05	10.04	8.90	2.20	1.65	4.02	86
4	MGR7/QA	F07	10.55	8.54	2.40	2.05	7.87	126
6	MGR10/QA	F10	11.93	9.92	2.40	2.05	12.01	346
8	MGR12/QA	F14	14.53	11.97	3.43	2.80	20.00	587
10	MGR14/QA	F16	15.00	12.05	3.62	3.39	32.01	869
12	MGR14/QA	F16	15.00	12.05	3.62	3.39	32.01	1299
14	MGR16/QA	F25	16.61	13.70	4.69	2.09	32.01	1806
16	MGR16/QA	F25	16.61	13.70	4.69	2.09	32.01	2688
18	MGR20/K85A	F25	21.22	16.93	5.16	5.51	24.02	3217
20	MGR20/K85A	F25	21.22	16.93	5.16	5.51	24.02	4187
24	MGR30/K105A	F30	24.41	18.50	5.16	7.17	27.99	6315

ASME Class 300

NPS	Gear	Dimensions, inch						WEIGHT lbs
		ISO Mounting	F	G	J	V	øZ	
2	MGR5/QA	F05	10.04	8.90	2.20	1.65	4.02	60
3	MGR7/QA	F07	10.55	8.54	2.40	2.05	7.87	123
4	MGR10/QA	F10	11.93	9.92	2.40	2.05	12.01	176
6	MGR14/QA	F16	15.00	12.05	3.62	3.39	32.01	432
8	MGR14/QA	F16	15.00	12.05	3.62	3.39	32.01	781
10	MGR15/QA	F16	17.20	13.62	4.06	4.09	32.01	1063
12	MGR16/QA	F25	16.61	13.70	4.69	2.09	32.01	1574
14	MGR20/K85A	F25	21.22	16.93	5.16	5.51	24.02	1982
16	MGR30/K105A	F30	24.41	18.50	5.16	7.17	27.99	2798
18	MGR30/K105A	F30	24.41	18.50	5.16	7.17	27.99	3768
20	MGR30/K105A	F30	24.41	18.50	5.16	7.17	27.99	5113
24	MGR40/K135A	F35	26.06	19.29	6.65	8.23	27.99	7859

Valve torque data

Use this torque chart as a guide for actuator selection. The recommended minimum actuator torque includes a safety factor.

Valve size		Class 150		Class 300	
		Minimum actuator torque		Minimum actuator torque	
NPS	DN	N.m	lb.-ft.	N.m	lb.-ft.
2	50	46	34	72	54
3	80	91	68	169	125
4	100	182	135	384	284
6	150	416	307	910	672
8	200	975	720	2080	1535
10	250	1287	950	2776	2048
12	300	1937	1429	3198	2359
14	350	3270	2412	7131	5260
16	400	4076	3007	9835	7255
18	450	5077	3745	10953	8079
20	500	7677	5663	16959	12509
24	600	10030	7399	23537	17361

How to order

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.
6D	F	06	C	W	B1	G1	J2	AA	M4	AA	R	V1	A	A	-

1.	Valve series description
6D	Full bore, flanged, trunnions, long pattern

2.	Port type
F	Full bore (circular opening)

3.	Valve size
02	NPS 2 or DN 50
03	NPS 3 or DN 80
04	NPS 4 or DN 100
06	NPS 6 or DN 150
08	NPS 8 or DN 200
10	NPS 10 or DN 250
12	NPS 12 or DN 300
14	NPS 14 or DN 350
16	NPS 16 or DN 400
18	NPS 18 or DN 450
20	NPS 20 or DN 500
24	NPS 24 or DN 600

4.	Pressure class
C	ASME Class 150
D	ASME Class 300

5.	End connection style
W	Raised face, ASME B16.5 (Ra 3.2~6.3)

6.	Construction and application			
	Seat type	Emergency sealant injection		Cavity drain & vent
		Seat	Stem	
B1 ^{a)}	DBB*		Included	Included
B2 ^{b)}	DBB*	Included	Included	Included

*Double block and bleed effect seat configuration

^{a)} For valves sizes NPS 2 to 6 in Class 150 & 300 - Select option B1

^{b)} For valve sizes ≥8" in Class 150 & 300 - Select option B2

7.	Stem seal / Gland packing		
	Stem seal	Temperature range	Gland packing
G1	O-ring	-29°C to +200°C	Graphite

8.	Body material
J2	ASTM A216 Gr. WCB (Carbon steel)
S6	ASTM A351 Gr. CF8M (Stainless steel)

9.	Ball material
AA	^{c)} ASTM A105 + ENP
SP	316 SS

^{c)} Used only in Carbon steel body valves

10.	Stem material
M4	^{c)} 410 SS (13% Cr)
PH	17-4PH SS

^{c)} Used only in Carbon steel body valves

11.	Seat material
AA	^{c)} ASTM A105 + ENP
SP	316 SS

^{c)} Used only in Carbon steel body valves

12.	Seat insert material
R	Reinforced PTFE (RPTFE)

13.	O-ring material
V1	^{d)} FKM (Fluoroelastomer)

^{d)} Selection covers all O-rings used inside the valve

14.	#Bolting material
A	B7/2H
D	^{e)} B8M/8M
F	^{f)} L7M/7M

Body & gland bolting material are same

^{e)} Used on Stainless steel body valves

^{f)} NACE bolting for Carbon steel body valves

15.	Model code
A	For all valves

16.	Option / Modifier code
	Blank, Standard option with Pressure equipment directive 2014/68/EU (PED)
A	Valve with API 6D monogram

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