



PRODUCT SOLUTION

PLUG VALVES

To start, stop, or direct fluid flow

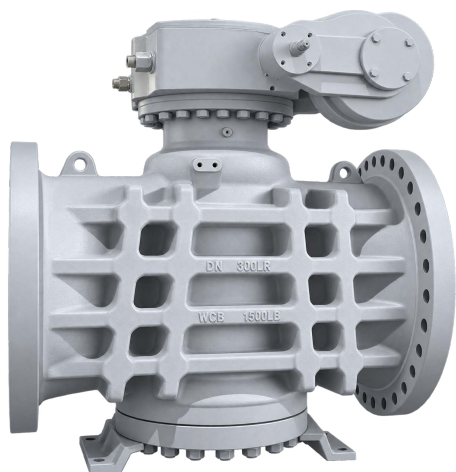


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PLUG VALVE

INTRODUCTION

FEATURES



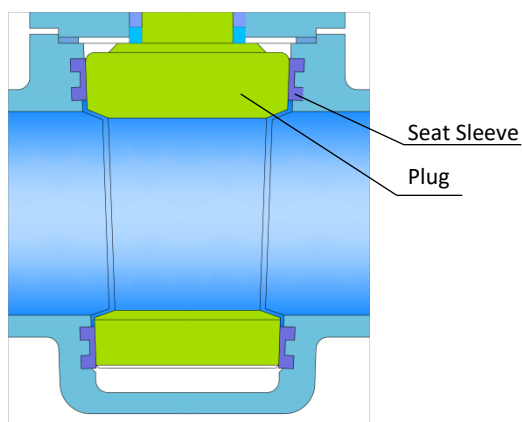
INTRODUCTION

A plug valve is a valve with a conical plug, the part of the valve which controls the flow. The plug has a hole, or port, through the middle so that when the port is in line with both ends of the valve, flow will occur. When the valve is closed, the hole is perpendicular to the ends of the valve, and flow is blocked.

VALPRO produces Sleeved Type and Pressure Balanced Type plug valves with venturi pattern or full bore.

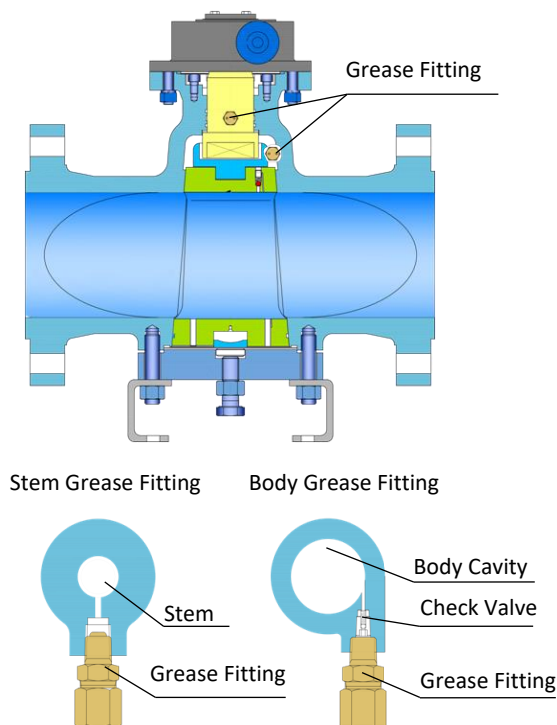
SLEEVED TYPE

This type of plug valve has tapered plug that is installed to the body from top; it is generally soft seated type for which service temperature is limited by the kind of sleeve it uses. The maximum service temperature is about 150 °C.



PRESSURE BALANCED TYPE

A pressure-balanced design uses internal mechanisms or opposing chambers to equalize fluid pressure, prevent unwanted thrust loads, and stabilize temperatures or flows across a system.



BLOWOUT PROOF STEM

The valve stem is made with a shoulder at the bottom end. It's securely retained by the stuffing box, to avoid that the stem, under certain operating conditions, accidentally blows out. Other designs are available on request.

ANTI-STATIC

Because the plug and stem in a plug valve are suspended on non-metallic parts, i.e. the seat seal and stem seal, there is a possibility a static charge may build up on the stem-plug, is introduced in the design to maintain the metal-to-metal contact between the rotating plug/stem and the valve body which will ground any charges to the valve body.

PLUG VALVE

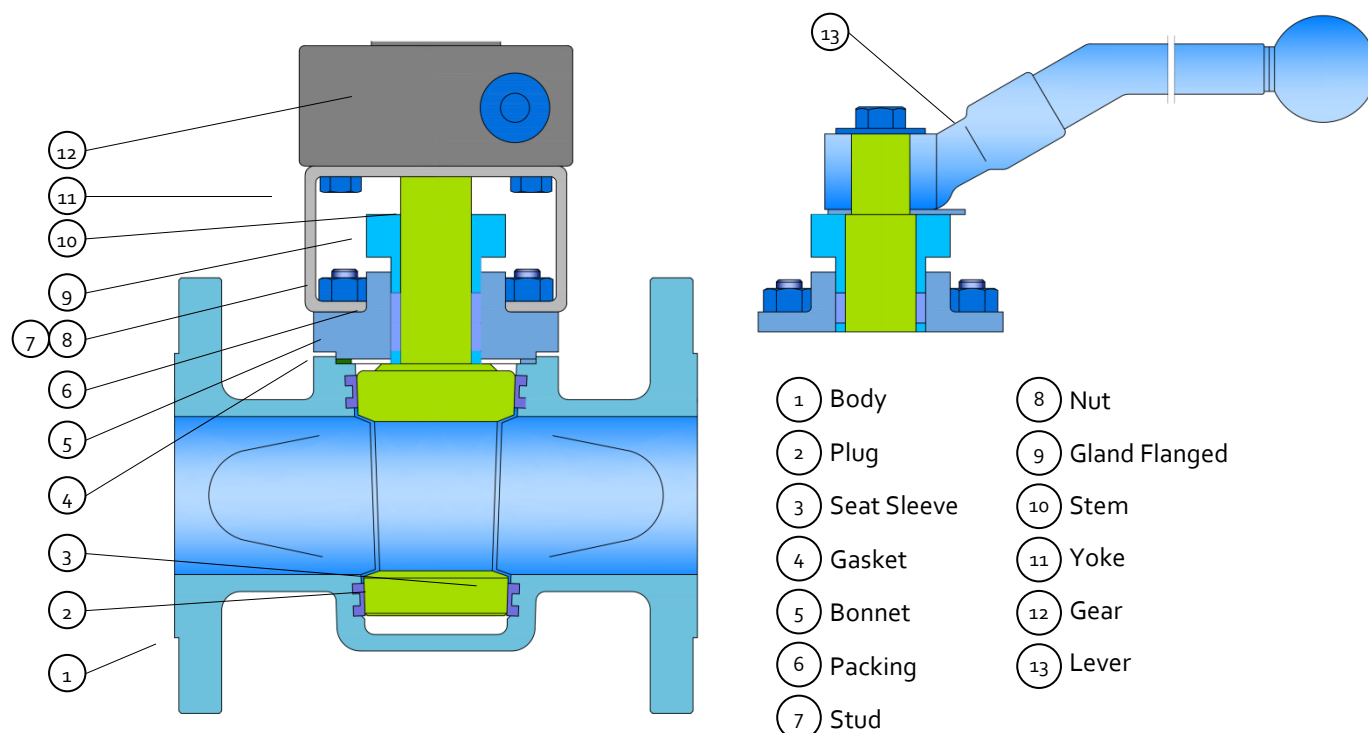
SCOPE OF PRODUCTS

Legends: A – Available in Casting and Forging
B – Available in Casting Only
C – Available Forging Only

Size in/mm	Class 150 PN 20	Class 300 PN 50	Class 600 PN 100	Class 900 PN 150	Class 1500 PN 250	Class 2500 PN 420
1/2	A	A	A	A	A	A
15	A	A	A	A	A	A
3/4	A	A	A	A	A	A
20	A	A	A	A	A	A
1	A	A	A	A	A	A
25	A	A	A	A	A	A
1 1/2	A	A	A	A	A	A
40	A	A	A	A	A	A
2	A	A	A	A	A	A
50	A	A	A	A	A	A
2 1/2	B	B	B	B	B	B
65	B	B	B	B	B	B
3	B	B	B	B	B	B
80	B	B	B	B	B	B
4	B	B	B	B	B	B
100	B	B	B	B	B	B
6	B	B	B	B	B	B
150	B	B	B	B	B	B
8	B	B	B	B	B	B
200	B	B	B	B	B	B
10	B	B	B	B	B	B
250	B	B	B	B	B	B
12	B	B	B	B	B	B
300	B	B	B	B	B	B
14	B	B	B	B	B	
350	B	B	B	B	B	
16	B	B	B	B	B	
400	B	B	B	B	B	
18	B	B	B	B	B	
450	B	B	B	B	B	
20	B	B	B	B	B	
500	B	B	B	B	B	
22	B	B	B	B	B	
550	B	B	B	B	B	
24	B	B	B	B	B	
600	B	B	B	B	B	
26	B	B	B	B	B	
650	B	B	B	B	B	
28	B	B	B	B	B	
700	B	B	B	B	B	
30	B	B	B	B	B	
750	B	B	B	B	B	
32	B	B	B	B	B	
800	B	B	B	B	B	
34	B	B	B	B	B	
850	B	B	B	B	B	
36	B	B	B	B	B	
900	B	B	B	B	B	

PLUG VALVE

OVERVIEW (SLEEVE TYPE)



STANDARDS

Design & manufacture	API 599, API 6D, ISO 14313,
Face-to-face	API 6D, ASME B16.10
End Dimension	ASME B16.5 (RF, RTJ), ASME B16.47 (RF, RTJ) MSS SP-44 (NPS 22 Only) ASME B1.20.1 (NPT) ASME B16.11 (SW) ASME B16.25 (BW)
Test & inspection	API 6D, API 598
Fire safe	API 6FA, API 607
Other	NACE MR 01-75, MR 0103

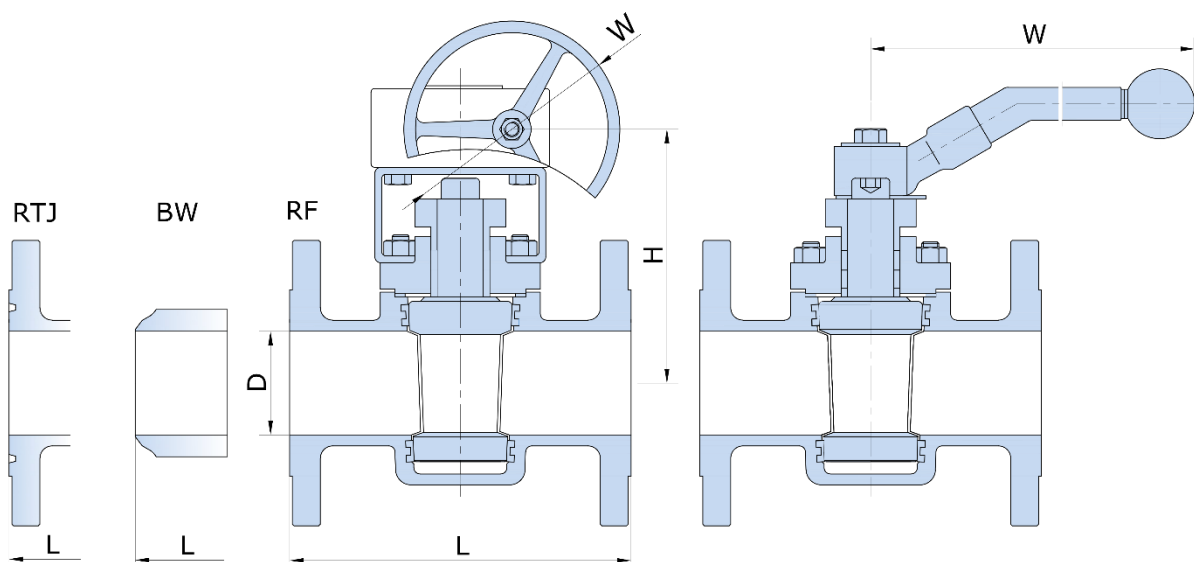
TYPICAL MATERIALS

Body/Bonnet	(Forging, for NPS ≤ 2) A105, A182 F304, F304L, F316, F316L, F51, F53, A350 LF2, LF3, LF5 (Casting) A216 WCB, A351 CF3, CF8, CF3M, CF8M, A995 4A, 5A, A352 LCB, LCC, LC2, Monel, Inconel, Hastelloy
Plug	CA15, CS+ENP, A182 F304, F304L, F316, F316L, F51, F53, CS+TCC, CS+Ni60
Seat	PTFE, RPTFE, PPL
Stem	A182 F6a, F316, F51, A105+ENP, AISI 4140+ENP, 17-4PH
Packing	Graphite, PTFE, RPTFE
O-ring	Viton, NBR, HNBR, AFLAS

PLUG VALVE

DIMENSIONS AND WEIGHTS (Sleeve Type)

ASME CLASS 150 (PN 20)



ASME CLASS 150 (PN 20)

Size in/mm	D	L			H	W	Weight
		RF	RTJ	BW			RF/RTJ (lb/kg)
1/2	0.5	4.25	-	5.98	4.33	6.89	19
15	12.7	108	-	152	110	175	8.5
3/4	0.75	4.61	-	7	4.53	6.89	21
20	19.1	117	-	178	115	175	9.5
1	1	5	5.51	8	4.53	6.89	22
25	25.4	127	140	203	115	175	10
1 1/4	1.25	5.51	6.02	8.5	5.31	8.66	26
32	31.8	140	153	216	135	220	12
1 1/2	1.5	6.5	7	9	5.51	11.02	31
40	38.1	165	178	229	140	280	14
2	2	7	7.5	10.51	5.91	12	49
50	50.8	178	191	267	150	305	22
2 1/2	2.5	7.5	8	12	6.5	13.78	49
65	63.5	191	203	305	165	350	22
3	3	8	8.5	13	7.09	15.94	57
80	76.2	203	216	330	180	405	26
4	4	9	9.5	14	14.96	11.81	88
100	101.6	229	241	356	380	300	40
5	5	10	10.6	15	18.11	11.81	132
125	127	254	269	381	460	300	60
6	6	10.5	11	18	20.47	12.6	154
150	152.4	267	279	457	520	320	70
8	8	11.5	12	20.5	22.83	12.6	287
200	203.2	292	305	521	580	320	130
10	10	13	13.5	22	24.41	13.78	483
250	254	330	343	559	620	350	219
12	12	14	14.5	25	26.77	14.96	840
300	304.8	356	368	635	680	380	381
14	14	16	16.5	27	29.92	17.71	1257
350	336.6	406	419	686	760	450	570

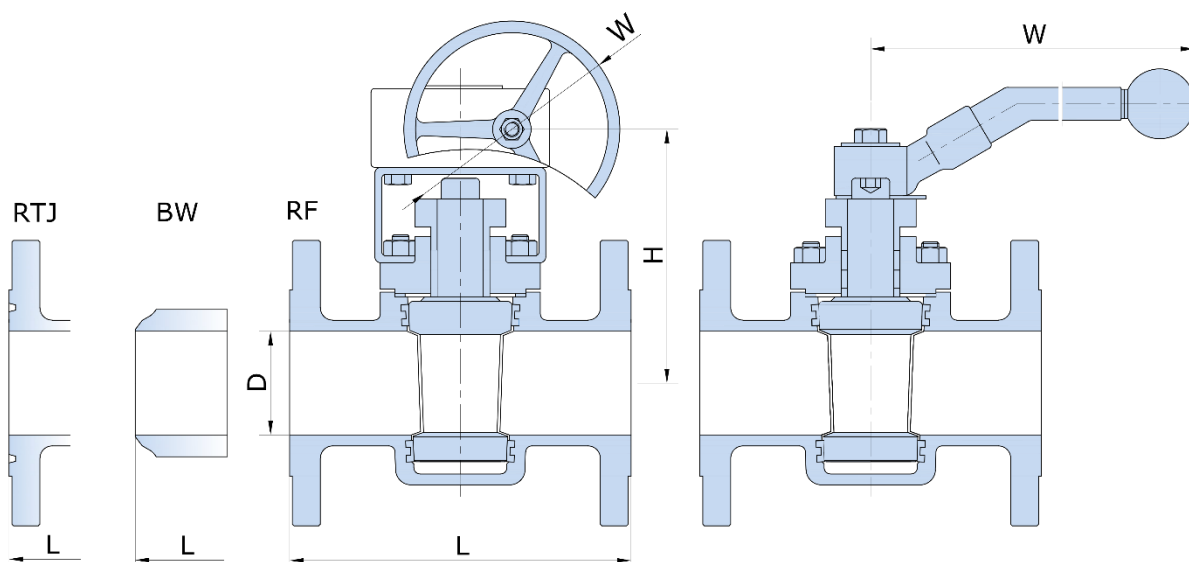
The dimension and weights are for reference only and subject to change without notice.

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2. For more dimensional information, please contact our sales representative.

PLUG VALVE

DIMENSIONS AND WEIGHTS (Sleeve Type)

ASME CLASS 300 (PN 50)



ASME CLASS 300 (PN 50)

Size in/mm	D	L			H	W	Weight
		RF	RTJ	BW			RF/RTJ (lb/kg)
1/2	0.5	5.51	5.94	6	4.33	6.89	21
15	12.7	140	151	152	110	175	9.5
3/4	0.75	6	6.5	7	4.53	6.89	23
20	19.1	152	165	178	115	175	10.5
1	1	6.5	7	8	4.53	6.89	26
25	25.4	165	178	203	115	175	12
1 1/4	1.25	7	7.52	8.5	5.31	8.66	31
32	31.8	178	191	216	135	220	14
1 1/2	1.5	7.48	8	9	5.51	11.02	35
40	38.1	190	203	229	140	280	16
2	2	8.5	9.13	10.51	5.91	12	44
50	50.8	216	232	267	150	305	20
2 1/2	2.5	9.5	10.12	12	6.5	13.78	53
65	63.5	241	257	305	165	350	24
3	3	11.1	11.73	13	7.09	15.94	64
80	76.2	282	298	330	180	405	29
4	4	12	12.64	14	14.96	11.81	117
100	101.6	305	321	356	380	300	53
5	5	15	15.63	15	18.11	11.81	165
125	127	381	397	381	460	300	75
6	6	15.87	16.5	18	20.47	12.6	187
150	152.4	403	419	457	520	320	85
8	8	16.5	17.12	20.51	22.83	12.6	408
200	203.2	419	438	521	580	320	185
10	10	18	18.6	22	24.41	13.78	507
250	254	457	473	559	620	350	230
12	12	19.76	20.39	25	26.77	14.96	860
300	304.8	502	518	635	680	380	390
14	14	30	30.63	30	29.92	17.71	1213
350	336.6	762	778	762	760	450	550

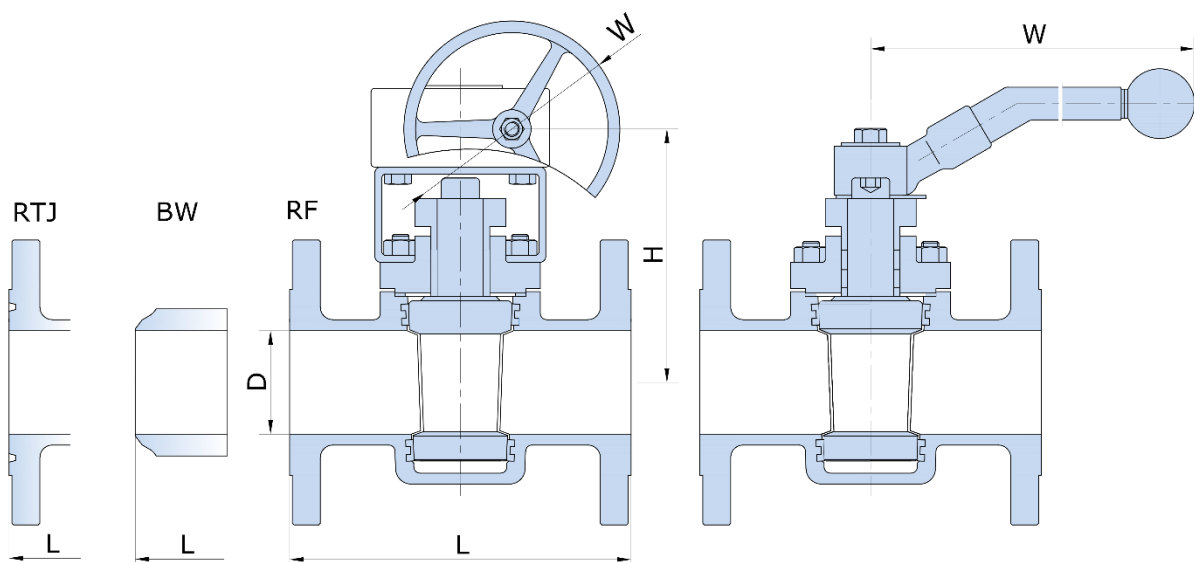
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PLUG VALVE

DIMENSIONS AND WEIGHTS (Sleeve Type)

ASME CLASS 600 (PN 100)



ASME CLASS 600 (PN 100)

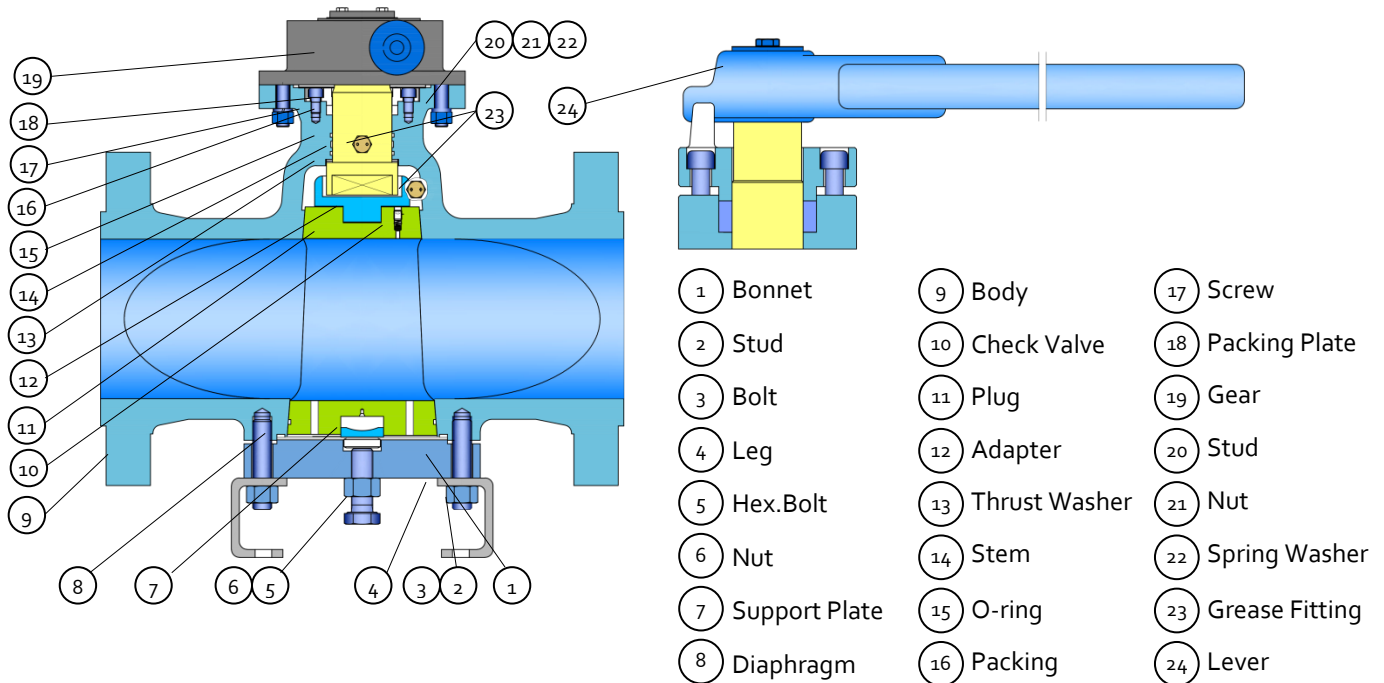
Size in/mm	D	L			H	W	Weight
		RF	RTJ	BW			RF/RTJ (lb/kg)
1/2	0.5	6.5	6.42	6.5	4.33	6.89	24
15	12.7	165	163	165	110	175	11
3/4	0.75	7.48	7.48	7.48	4.53	6.89	29
20	19.1	190	190	190	115	175	13
1	1	8.5	8.5	8.5	4.53	6.89	37
25	25.4	216	216	216	115	175	17
1 1/4	1.25	9	9	9	5.31	8.66	44
32	31.8	229	229	229	135	220	20
1 1/2	1.5	9.49	9.49	9.49	5.51	11.02	51
40	38.1	241	241	241	140	280	23
2	2	11.5	11.61	11.5	5.91	12	60
50	50.8	292	295	292	150	305	27
2 1/2	2.5	13	13.11	13	6.5	13.78	68
65	63.5	330	333	330	165	350	31
3	3	14	14.13	14	7.09	15.94	79
80	76.2	356	359	356	180	405	36
4	4	17	17.13	17	14.96	11.81	159
100	101.6	432	435	432	380	300	72
5	5	20	20.12	20	18.11	11.81	216
125	127	508	511	508	460	300	98
6	6	22	22.13	22	20.47	12.6	311
150	152.4	559	562	559	520	320	141
8	8	26	26.1	26	22.83	12.6	540
200	203.2	660	663	660	580	320	245
10	10	31	31.1	31	24.41	13.78	728
250	254	787	790	787	620	350	330
12	12	33	33.11	33	26.77	14.96	1135
300	304.8	838	841	838	680	380	515
14	14	35	35.12	35	29.92	17.71	1565
350	336.6	889	892	889	760	450	710

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PLUG VALVE

OVERVIEW (Pressure Balance Type)



STANDARDS

Design & manufacture	API 599, API 6D, ISO 14313,
Face-to-face	API 6D, ASME B16.10
End Dimension	ASME B16.5 (RF, RTJ), ASME B16.47 (RF, RTJ) MSS SP-44 (NPS 22 Only) ASME B1.20.1 (NPT) ASME B16.11 (SW) ASME B16.25 (BW)
Test & inspection	API 6D, API 598
Fire safe	API 6FA, API 607
Other	NACE MR 01-75, MR 0103

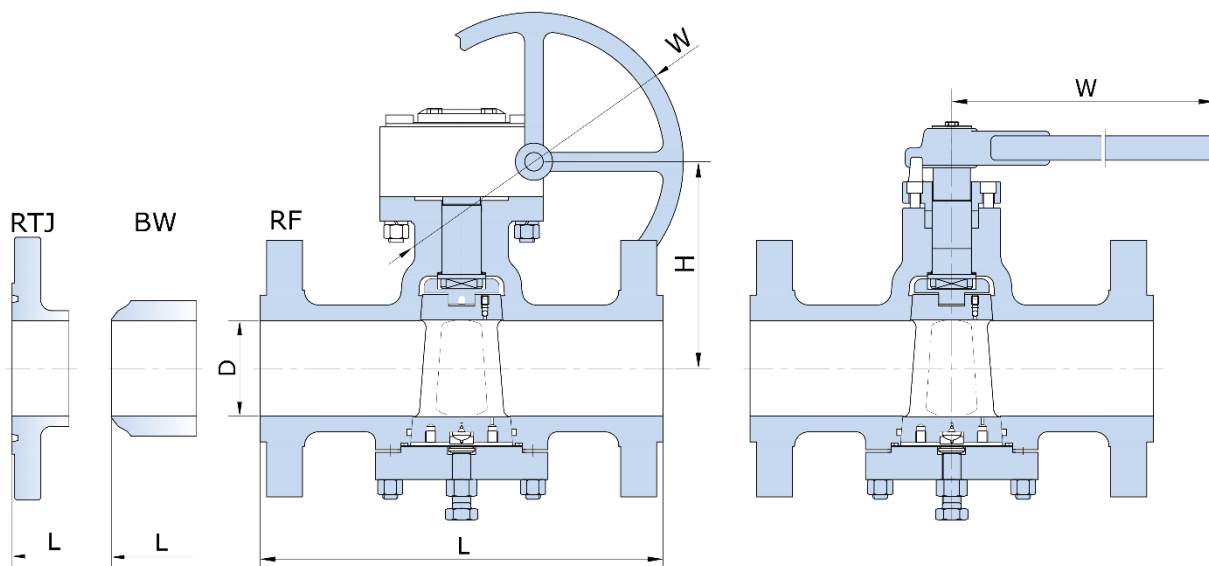
TYPICAL MATERIALS

Body/Bonnet	(Forging, for NPS ≤ 2) A105, A182 F304, F304L, F316, F316L, F51, F53, A350 LF2, LF3, LF5 (Casting) A216 WCB, A351 CF3, CF8, CF3M, CF8M, A995 4A, 5A, A352 LCB, LCC, LC2, Monel, Inconel, Hastelloy
Plug	CA15+Nitriding, CS+ENP, A182 F304, F304L, F316, F316L, F51, F53, CS+TCC, CS+Ni60
Stem	A182 F6a, F316, F51, A105+ENP, AISI 4140+ENP, 17-4PH
Packing	Graphite, PTFE, RPTFE
O-ring	Viton, NBR, HNBR, AFLAS

PLUG VALVE

DIMENSIONS AND WEIGHTS(Pressure Balance Type)

ASME CLASS 150 (PN 20)



ASME CLASS 150 (PN 20)

Size in/mm	D	L			H	W	Weight RF/RTJ (lb/kg)
		RF	RTJ	BW			
1/2	0.5	5.51	-	5.98	7.09	15.75	31
15	12.7	140	-	152	180	400	14
3/4	0.75	5.51	-	7	7.09	15.75	35
20	19.1	140	-	178	180	400	16
1	1	5.51	5.51	8	7.28	19.69	40
25	25.4	140	140	203	185	500	18
1 1/4	1.25	5.51	6.02	8.5	7.87	19.69	44
32	31.8	140	153	216	200	500	20
1 1/2	1.5	6.5	7	9	8.27	23.62	53
40	38.1	165	178	229	210	600	24
2	2	7	7.5	10.51	8.46	32.28	64
50	50.8	178	191	267	215	820	29
2 1/2	2.5	7.5	8	12	9.84	39.37	77
65	63.5	191	203	305	250	1000	35
3	3	8	8.5	13	10.63	39.37	104
80	76.2	203	216	330	270	1000	47
4	4	9	9.5	14	11.81	11.81	201
100	101.6	229	241	356	300	300	91
5	5	10	10.6	15	14.39	11.81	284
125	127	254	269	381	340	300	129
6	6	10.5	11	18	14.37	12.6	463
150	152.4	267	279	457	365	320	210
8	8	11.5	12	20.5	15.75	12.6	705
200	203.2	292	305	521	400	320	320
10	10	13	13.5	22	17.71	13.78	1455
250	254	330	343	559	450	350	660
12	12	14	14.5	25	20.08	14.96	2028
300	304.8	356	368	635	510	380	920
14	14	16	16.5	27	23.23	14.96	2756
350	336.6	406	419	686	590	380	1250

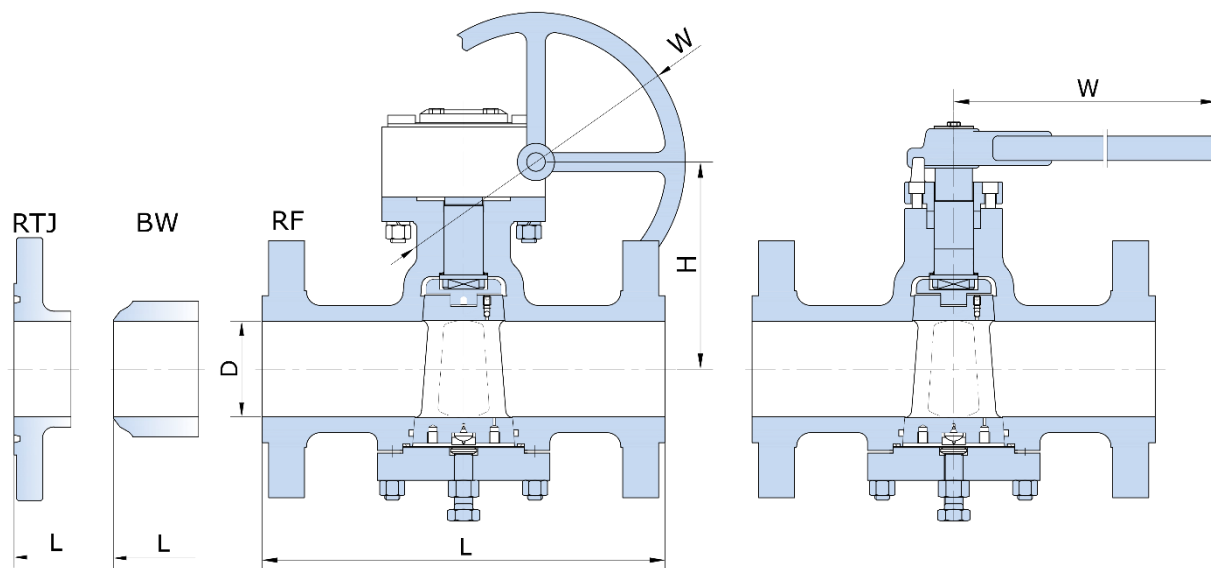
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2. For more dimensional information, please contact our sales representative.

PLUG VALVE

DIMENSIONS AND WEIGHTS(Pressure Balance Type)

ASME CLASS 300 (PN 50)



ASME CLASS 300 (PN 50)

Size in/mm	D	L			H	W	Weight RF/RTJ (lb/kg)
		RF	RTJ	BW			
1/2	0.5	5.51	5.94	6	7.09	15.75	26
15	12.7	140	151	152	180	400	12
3/4	0.75	6	6.5	7	7.09	15.75	31
20	19.1	152	165	178	180	400	14
1	1	6.5	7	8	7.28	19.69	35
25	25.4	165	178	203	185	500	16
1 1/4	1.25	7	7.52	8.5	7.87	19.69	42
32	31.8	178	191	216	200	500	19
1 1/2	1.5	7.48	8	9	8.27	23.62	46
40	38.1	190	203	229	210	600	21
2	2	8.5	9.13	10.51	8.46	32.28	53
50	50.8	216	232	267	215	820	24
2 1/2	2.5	9.5	10.12	12	9.84	39.37	68
65	63.5	241	257	305	250	1000	31
3	3	11.1	11.73	13	10.63	39.37	79
80	76.2	282	298	330	270	1000	36
4	4	12	12.64	14	11.81	11.81	134
100	101.6	305	321	356	300	300	61
5	5	15	15.63	15	14.39	11.81	190
125	127	381	397	381	340	300	86
6	6	15.87	16.5	18	14.37	12.6	287
150	152.4	403	419	457	365	320	130
8	8	16.5	17.12	20.51	15.75	12.6	419
200	203.2	419	438	521	400	320	190
10	10	18	18.6	22	17.71	13.78	562
250	254	457	473	559	450	350	255
12	12	19.76	20.39	25	20.08	14.96	838
300	304.8	502	518	635	510	380	380
14	14	30	30.63	30	23.23	14.96	1235
350	336.6	762	778	762	590	380	560

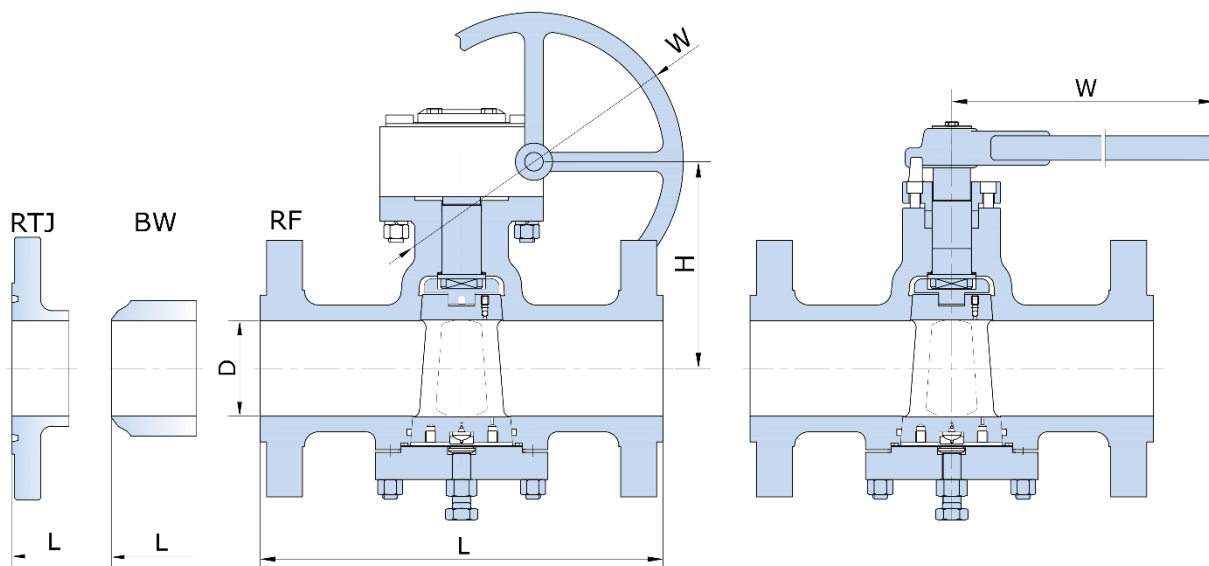
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PLUG VALVE

DIMENSIONS AND WEIGHTS (Pressure Balance Type)

ASME CLASS 600 (PN 100)



ASME CLASS 600 (PN 100)

Size in/mm	D	L			H	W	Weight RF/RTJ (lb/kg)
		RF	RTJ	BW			
1/2	0.5	6.5	6.42	6.5	7.09	15.75	31
15	12.7	165	163	165	180	400	14
3/4	0.75	7.48	7.48	7.48	7.09	15.75	35
20	19.1	190	190	190	180	400	16
1	1	8.5	8.5	8.5	7.28	19.69	40
25	25.4	216	216	216	185	500	18
1 1/4	1.25	9	9	9	7.87	19.69	44
32	31.8	229	229	229	200	500	20
1 1/2	1.5	9.49	9.49	9.49	8.27	23.62	53
40	38.1	241	241	241	210	600	24
2	2	11.5	11.61	11.5	8.46	32.28	64
50	50.8	292	295	292	215	820	29
2 1/2	2.5	13	13.11	13	9.84	39.37	77
65	63.5	330	333	330	250	1000	35
3	3	14	14.13	14	10.63	39.37	104
80	76.2	356	359	356	270	1000	47
4	4	17	17.13	17	11.81	11.81	201
100	101.6	432	435	432	300	300	91
5	5	20	20.12	20	14.39	11.81	284
125	127	508	511	508	340	300	129
6	6	22	22.13	22	14.37	12.6	463
150	152.4	559	562	559	365	320	210
8	8	26	26.1	26	15.75	12.6	705
200	203.2	660	663	660	400	320	320
10	10	31	31.1	31	17.71	13.78	1455
250	254	787	790	787	450	350	660
12	12	33	33.11	33	20.08	14.96	2028
300	304.8	838	841	838	510	380	920
14	14	35	35.12	35	23.23	14.96	2756
350	336.6	889	892	889	590	380	1250

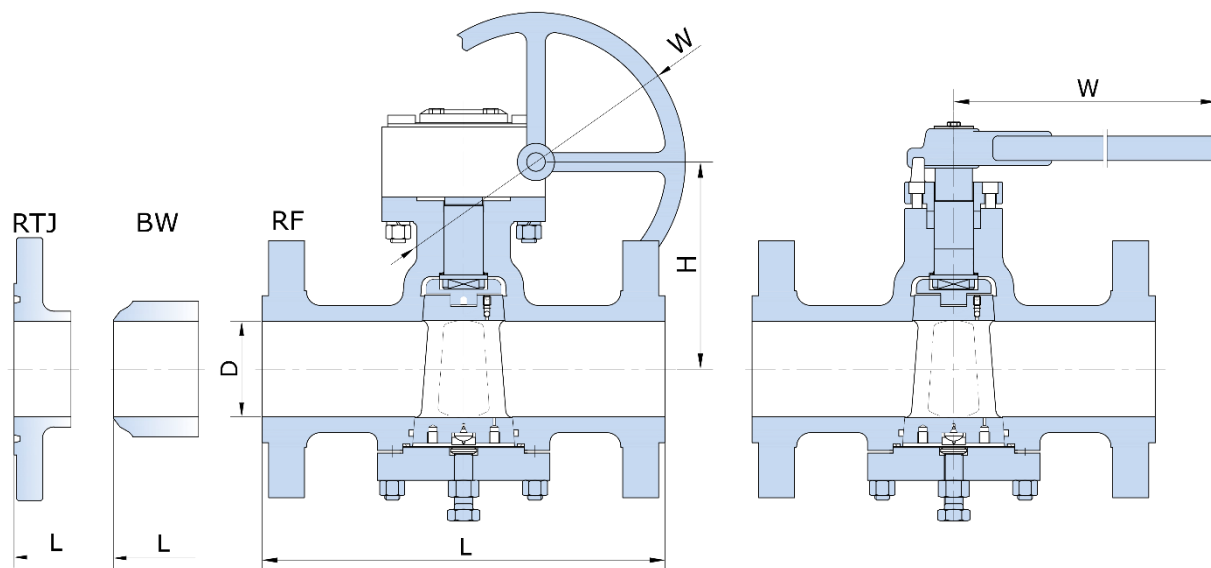
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PLUG VALVE

DIMENSIONS AND WEIGHTS(Pressure Balance Type)

ASME CLASS 900 (PN 150)



ASME CLASS 900 (PN 150)

Size in/mm	D	L			H	W	Weight RF/RTJ (lb/kg)
		RF	RTJ	BW			
1/2	0.5	8.5	8.5	9.02	7.09	15.75	37
15	12.7	216	216	229	180	400	17
3/4	0.69	9.02	9	9.02	7.09	15.75	42
20	17.5	229	229	229	180	400	19
1	0.87	10	10	10	7.28	19.69	46
25	22.1	254	25.4	254	185	500	21
1 1/4	1.19	10.98	11	10.98	7.87	19.69	53
32	28.4	279	279	279	200	500	24
1 1/2	1.37	12	12	12	8.27	23.62	66
40	34.8	305	305	305	210	600	30
2	1.87	14.49	14.61	14.49	8.46	32.28	82
50	47.5	368	371	368	215	820	37
2 1/2	2.25	16.5	16.61	16.5	9.84	39.37	97
65	57.2	419	422	419	250	1000	44
3	2.87	15	15.12	15	10.63	39.37	143
80	72.9	381	384	381	270	1000	65
4	3.87	18	18.11	18	11.81	11.81	243
100	98.3	457	460	457	300	300	110
5	4.75	22	22.12	22	14.39	11.81	353
125	120.7	559	562	559	340	300	160
6	5.75	24	24.13	24	14.37	12.6	562
150	146.1	610	613	610	365	320	255
8	7.5	29	29.13	29	15.75	12.6	838
200	190.5	737	740	737	400	320	380
10	9.37	33	33.11	33	17.71	13.78	1786
250	238	838	841	838	450	350	810
12	11.12	38	38.11	38	20.08	14.96	2315
300	282.4	965	968	965	510	380	1050
14	12.25	40.51	40.91	40.51	23.23	14.96	3219
350	311.2	1029	1039	1029	590	380	1460

The dimension and weights are for reference only and subject to change without notice.

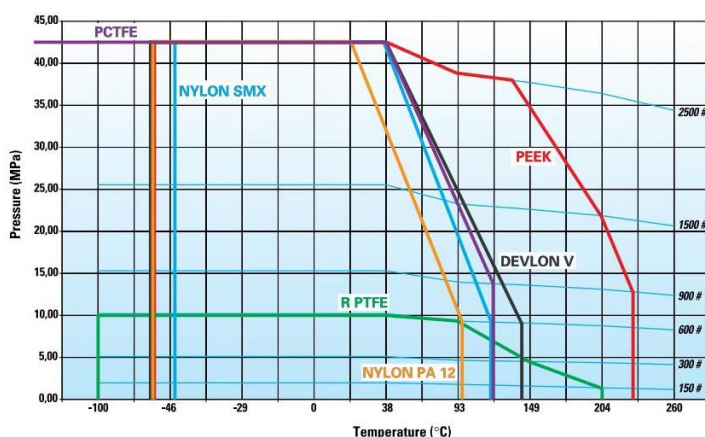
1. "W" is the O.D. of the handwheel for NPS 4 and above, and length of lever/wrench for NPS ≤ 4.
2. For more dimensional information, please contact our sales representative.

PLUG VALVE

SEAT AND SEAL MATERIAL

SELECTION GUIDE

Seat Material Pressure-Temperature Rating (Operating)



SEAT MATERIALS

Material Name	Description	Operating Temperature	Operating Pressure	Service Application
PTFE	Virgin PTFE is the most widely used sealing material with excellent characteristics suitable for most services. It has excellent chemical resistance throughout valve industries and low coefficient of friction.	-20°F – 400°F -29°C – 205°C	Class 150 PN 20	General chemicals, low pressure services.
RPTFE	RPTFE (Reinforced PTFE) is typically produced by adding 15% fiber glass to virgin PTFE. It has better pressure-temperature properties than virgin PTFE, better resistance to wear and deformation under load. NOT to be used in hydrofluoric acid	-20°F – 400°F -29°C – 205°C	Class 150 – 600 PN 20 – 100	For low and medium pressure services.
PCTFE	PCTFE is a homopolymer of chlorotrifluoroethylene, featuring high compressive strength and low deformation under load.	-320°F – 248°F -196°C – 120°C	Class 150 – 300 PN 20 – 50	For low temperature low pressure services.
Nylon	Nylon is a common seat material for Class 600 valves. It is highly resistance to many chemicals and abrasions, and can be used in air, oil and other gas media. It is NOT suitable for strong oxidization agents.	-20°F – 176°F -29°C – 80°C	Class 150 – 1500 PN 20 – 250	For high pressure, low temperature services.
Devlon®	Devlon® is a high molecular weight polyamide that is specifically tailored for high temperature/pressure applications in the offshore oil and gas sector. It is low moisture absorption.	-58°F – 300°F -50°C – 149°C	Class 150 – 1500 PN 20 – 250	For high pressure high temperature offshore services.
Nylon+MoS2	Molon (Nylon+MoS2) is a modified Nylon, the characteristics are similar to Devlon with it is cheaper than Devlon.	-20°F – 266°F -29°C – 130°C	Class 150 – 1500 PN 20 – 250	For high pressure, low temperature services.
PEEK	PEEK is a high performance engineered thermoplastic. It is excellent in water/chemical resistance and it is unaffected by continuous exposure to hot water/steam	-148°F – 428°F -100°C – 220°C	Class 150 – 2500 PN 20 – 420	For high pressure high temperature services.
PPL	PPL (Polyparaphenylene) is an excellent seat material with low coefficient of friction, highly resistant to pressure and temperature.	-50°F – 482°F -46°C – 250°C	Class 150 – 300 PN 20 – 50	For high temperature low pressure services.
Delrin®	Delrin® (Acetal Resin) possesses high tensile strength, creep resistance and toughness. It exhibits low moisture absorption. It is chemically resistant to hydrocarbons, solvents and neutral chemicals. DO NOT use it on oxygen service or steam.	-50°F – 194°F -46°C – 90°C	Class 150 – 600 PN 20 – 100	For extreme pressure services.
TFM	TFM (modified PTFE) is a chemically modified PTFE that offers enhanced properties while retaining all the proven advantages of a conventional PTFE.	-112°F – 248°F -80°C – 120°C	Class 150 PN 20	For services requiring high purity.
Metal	Metal (typically stellite) seats are used in severe conditions where flashing, hydraulic shock, abrasive media or trapped metal may exist in the line.	Varies	Varies	For severe services.

O-RING MATERIALS

Material Name	Description	Operating Temperature	Operating Pressure
NBR	Buna-N (NBR) is an all purpose polymer with good resistance to water, solvents, oil and hydraulic fluids.	-50°F – 176°F -46°C – 80°C	Class 150 – 600 PN 20 – 100
HNBR	HNBR (Hydrogenated NBR) has similar media stability to NBR but with significantly better heat and oxidation stability.	-67°F – 337°F -55°C – 170°C	Class 150 – 600 PN 20 – 100
Viton	Viton (fluorocarbon) is a fluorocarbon elastomer that is compatible with a broad range of chemicals. It performs well in mineral acids, salt solutions, chlorinated hydrocarbons and petroleum oils	-49°F – 320°F -22°C – 204°C	Class 150 – 600 PN 20 – 100
EPDM	EPDM has good abrasion and tear resistance with excellent chemical resistance to a variety of acids and alkalines. It is susceptible to attack by oil, strong acids and strong alkalines and should not be used in compressed air lines.	-50°F – 302°F -46°C – 150°C	Class 150 – 600 PN 20 – 100
FVMQ	Fluorosilicone is a silicone polymer chain with fluorinated side-chains for improved oil and fuel resistance. The mechanical and physical properties are very similar to those of silicone.	-50°F – 320°F -46°C – 177°C	Class 150 – 600 PN 20 – 100
AFLAS®	AFLAS® is highly resistant to a wide range of chemicals	-49°F – 428°F -29°C – 220°C	Class 150 – 600 PN 20 – 100



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of



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