



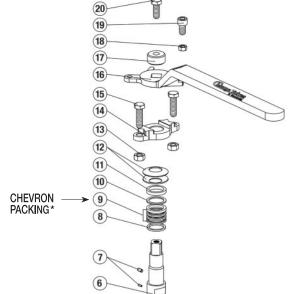
SERIES 82/FS82

FLANGED FULL PORT

BALL VALVE CLASS 150/300/600

150# / 300# / 600# ½" - 6"

316 STAINLESS STEEL - ASTM A351 **CARBON STEEL - AST A216 WCB ALLOY 20 - ASTM A351 CN7M LIVE LOADED STEM LOCKABLE HANDLE DIRECT MOUNT MOUNTING PAD** MC PAD: **ELEVATED PAD ALLOWS FOR ADJUSTMENT** OF GLAND PACKING FLANGE WHILE VALVE IS IN SERVICE WITHOUT REMOVING ACTUATOR **OR HANDLE, API 608 ELEVATED PAD ALLOWED TO ADJUST GLAND PACKAGING FLANGE WHILE VALVE IS IN SERVICE WITHOUT** REMOVING ACTUATOR OR HANDLE, **API 608**

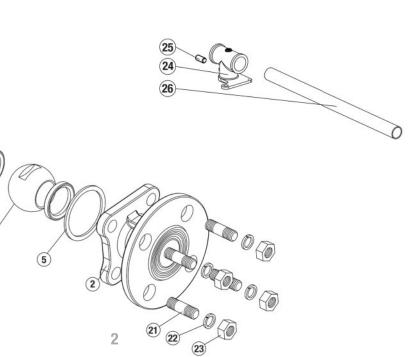


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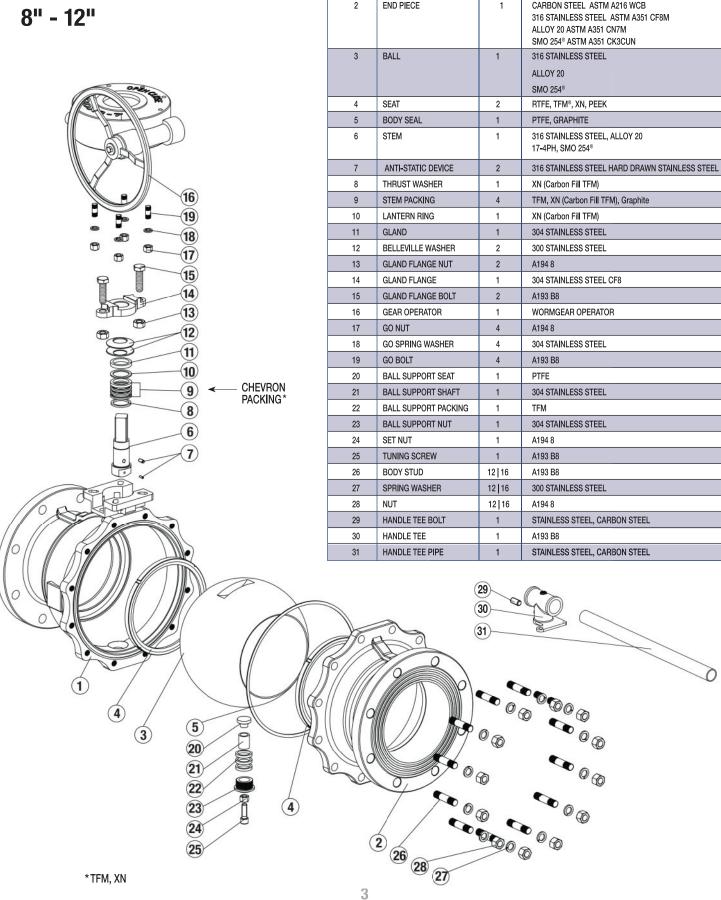
*TFM, XN

(3)

PART NO	PART NAME	QTY	MATERIAL
1	BODY	1	CARBON STEEL ASTM A216 WCB
			316 STAINLESS STEEL ASTM A351 CF8M
			ALLOY 20 ASTM CN7M
			SMO 254® ASTM A351 CK3CUN
2	END PIECE	1	CARBON STEEL ASTM A216 WCB
			316 STAINLESS ASTM A351 CF8M
			ALLOY 20 ASTM CN7M
			SMO 254® ASTM A351 CK3MCUN
3	BALL	1	316 STAINLESS STEEL
			ALLOY 20 ASTM CN7M
			SMO 254® ASTM A351 CK3MCUN
4	SEAT	2	RTFE, TFM®, XN, PEEK
5	BODY SEAL	1	PTFE, GRAPHITE
6	STEM	1	316 STAINLESS STEEL, ALLOY 20
			17-4PH.SMO 254
7	ANTI-STATIC DEVICE	2	316 STAINLESS STEEL HARD DRAWN STAINLESS STEEL
8	THRUST WASHER	1	XN (Carbon Fill TFM)
9	STEM PACKING	4	TFM, XN (Carbon Fill TFM), Graphite
10	LANTERN RING	1	XN (Carbon Fill TFM)
11	GLAND	1	304 STAINLESS STEEL
12	BELLEVILLE WASHER	2	304 STAINLESS STEEL
13	GLAND FLANGE NUT	2	A194 B8
14	GRAND FLANGE	1	304 STAINLESS STEEL CF8
15	GLAND FLANGE BOLT	2	A193 B8
16	HANDLE	1	304 STAINLESS STEEL CF8
			CARBON STEEL A216 WCB
17	STEM CAP	1	304 STAINLESS STEEL
18	STOPER NUT	1	A194 8
19	STOPER BOLT	1	A193 B8
20	STEM CAP BOLT	1	A193 B8
21	BODY STUD	4 6 8	A193 B8
22	SPRING WASHER	4 6 8	304 STAINLESS STEEL
23	BODY NUT	4 6 8	A194 B
24	HANDLE TEE	1	STAINLESS STEEL, CARBON STEEL
25	HANDLE TEE BOLT	1	A193 B8
26	HANDLE TEE PIPE	1	STAINLESS STEEL, CARBON STEEL



150# / 300# 8" - 12"



PART NO

PART NAME

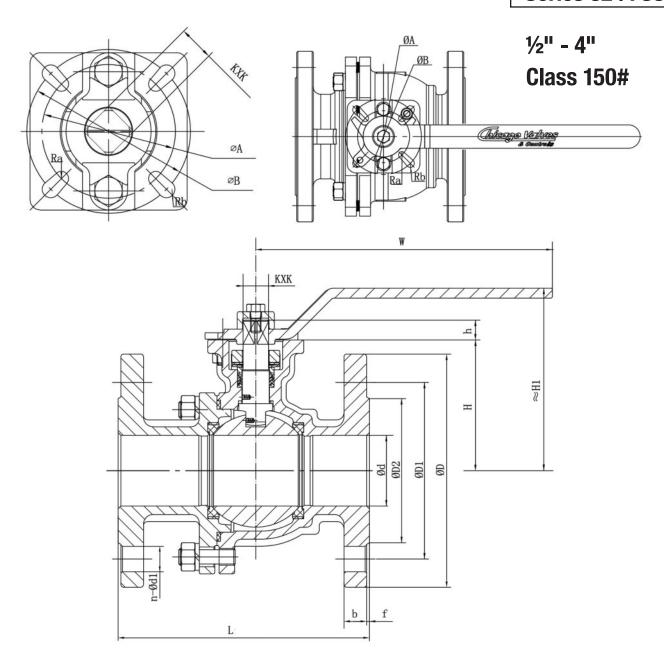
BODY

QTY

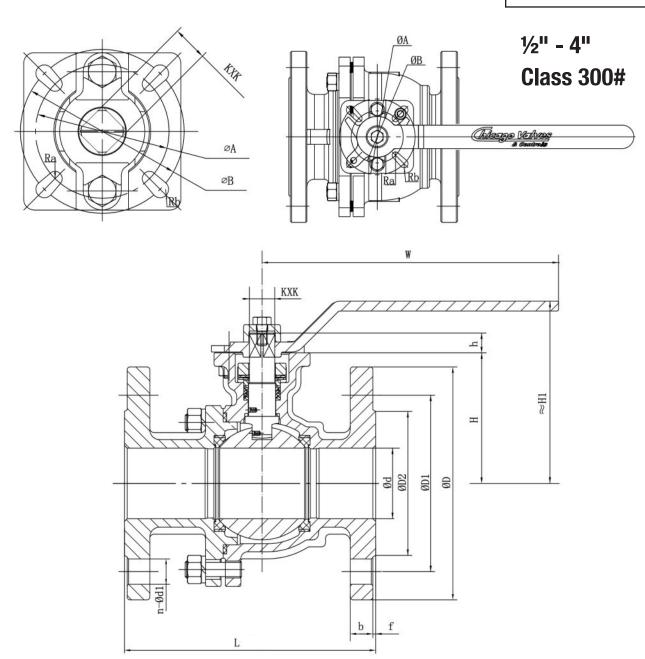
MATERIAL

CARBON STEEL ASTM A216 WCB 316 STAINLESS STEEL ASTM A351 CF8M ALLOY 20 ASTM A351 CN7M

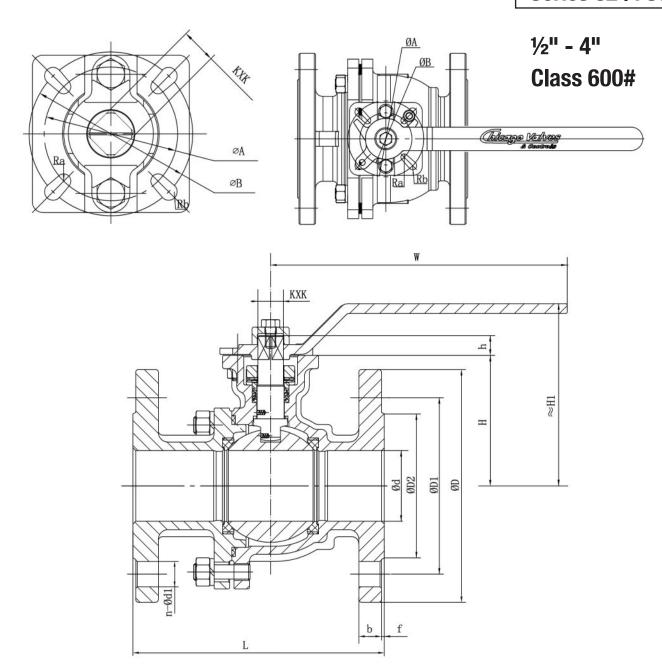
SMO 254® ASTM A351 CK3CUN



NOMINAL DIAMETER	L	d	D2	D1	D	b	f	n-0d1	Н	h	H1	W	Ra	Rb	кхк	A	В
1/2"	4.25	0.59	1.38	2.37	3.54	0.37	0.08	4-0.63	2.20	0.35	3.39	5.91	0.12	0.14	0.35X0.35	F03	F05
3/4"	4.62	0.79	1.69	2.75	3.94	0.39	0.08	4-0.63	2.38	0.35	3.56	5.91	0.12	0.14	0.35X0.35	F03	F05
1"	5.00	0.98	2.01	3.13	4.33	0.41	0.08	4-0.63	2.68	0.43	3.94	7.08	.012	0.14	0.43X0.43	F04	F05
11/2"	6.50	1.58	2.87	3.87	4.92	.50	0.08	4-0.63	3.37	0.55	4.78	8.27	0.14	0.17	0.55X0.55	F05	F07
2"	7.00	1.97	3.62	4.75	5.91	.56	0.08	4-0.75	3.64	0.55	5.06	8.27	0.14	0.17	0.55X0.55	F05	F07
21/2"	7.50	2.56	4.13	5.50	7.09	.063	0.08	4-0.75	4.43	0.67	6.00	10.24	0.17	0.22	0.67X0.67	F07	F10
3"	8.00	3.15	5.00	6.00	7.48	.069	0.08	4-0.75	4.92	0.67	6.73	12.99	0.17	0.22	0.67X0.67	F07	F10
4"	9.00	3.94	6.18	7.50	9.06	0.88	0.08	8-0.75	5.53	0.67	7.34	12.99	0.17	0.22	0.67X0.67	F07	F10

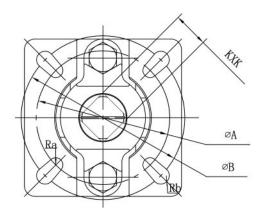


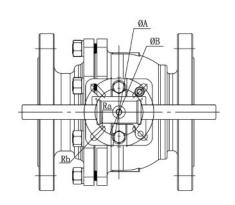
NOMINAL DIAMETER	L	d	D2	D1	D	b	f	n-0d1	Н	h	H1	W	Ra	Rb	КХК	A	В
1/2"	5.50	0.59	1.38	2.63	3.74	0.50	0.08	4-0.63	2.20	0.35	3.39	5.91	0.12	0.14	0.35X0.35	F03	F05
3/4"	6.00	0.79	1.69	3.25	4.53	0.56	0.08	4-0.75	2.38	0.35	3.56	5.91	0.12	0.14	0.35X0.35	F03	F05
1"	6.50	0.98	2.01	3.50	4.92	0.63	0.08	4-0.75	2.68	0.43	3.94	7.09	.012	0.14	0.43X0.43	F04	F05
11/2"	7.50	1.58	2.87	4.50	6.10	0.75	0.08	4-0.87	3.37	0.55	4.78	8.27	0.14	0.17	0.55X0.55	F04	F07
2"	8.50	1.97	3.62	5.00	6.50	0.81	0.08	8-0.75	3.64	0.55	5.06	8.27	0.14	0.17	0.55X0.55	F05	F07
21/2"	9.50	2.56	4.13	5.87	7.48	0.94	0.08	8-0.87	4.43	0.67	6.00	10.24	0.17	0.22	0.67X0.67	F05	F10
3"	11.12	3.15	5.00	6.63	8.27	1.06	0.08	8-0.87	4.92	0.67	6.73	12.99	0.17	0.22	0.67X0.67	F07	F10
4"	12.00	3.94	6.18	7.87	10.04	1.19	0.08	8-0.87	5.53	0.67	8.90	25.60	0.22	0.26	0.67X0.87	F10	F12

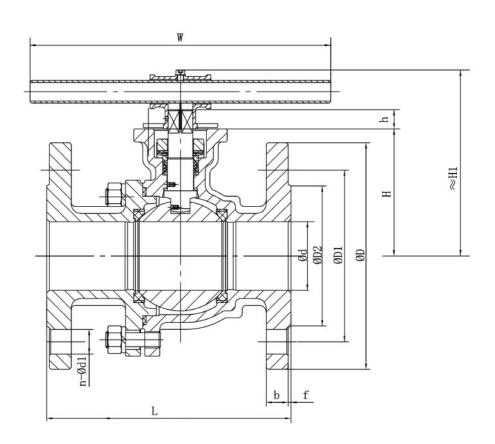


NOMINAL DIAMETER	L	d	D2	D1	D	b	f	n-0d1	Н	h	H1	W	Ra	Rb	кхк	A	В
1/2"	6.50	0.59	1.38	2.62	3.75	0.56	0.28	4-0.63	2.20	0.35	3.39	5.91	0.12	0.14	0.35X0.35	F03	F05
3/4"	7.50	0.79	1.69	3.25	4.62	0.62	0.28	4-0.75	2.38	0.35	3.56	5.91	0.12	0.14	0.35X0.35	F03	F05
1"	8.50	0.98	2.01	3.50	4.88	0.69	0.28	4-0.75	2.80	0.43	4.00	7.09	.012	0.14	0.43X0.43	F04	F05
11/2"	9.50	1.58	2.87	4.50	6.12	0.88	0.28	4-0.87	3.76	0.55	5.17	8.27	0.14	0.17	0.55X0.55	F05	F07
2"	11.50	1.97	3.62	5.00	6.50	1.00	0.28	8-0.75	4.02	0.55	5.44	8.27	0.14	0.17	0.55X0.55	F05	F07
21/2"	13.00	2.56	4.13	5.88	7.50	1.12	0.28	8-0.87	4.96	0.67	6.53	10.24	0.17	0.22	0.67X0.67	F07	F10
3"	14.00	3.15	5.00	6.63	8.25	1.25	0.28	8-0.87	5.55	0.67	7.36	12.99	0.17	0.22	0.67X0.67	F07	F10
4"	17.00	3.94	6.18	8.50	10.75	1.50	0.28	8-1.00	6.28	0.87	8.10	12.99	0.22	0.26	0.67X0.87	F10	F12

6" Class 150# / 300#

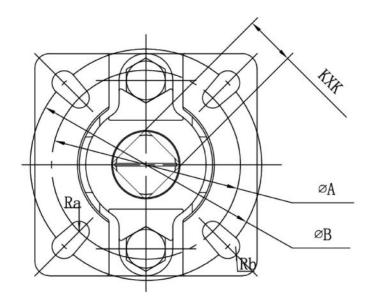


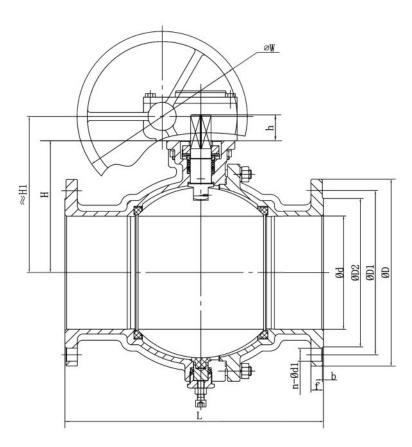




NOMIN DIAME		L	d	D2	D1	D	b	f	n-0d1	Н	h	H1	W	Ra	Rb	КХК	A	В
150	6"	15.50	5.91	8.50	9.50	11.04	094	0.08	8-0.87	7.56	1.18	10.91	31.50	0.22	0.26	1.06X1.06	F10	F12
300	6"	15.80	5.91	8.50	10.63	12.60	1.38	0.08	12-0.87	7.56	1.18	10.91	39.40	0.22	0.26	1.06X1.06	F10	F12

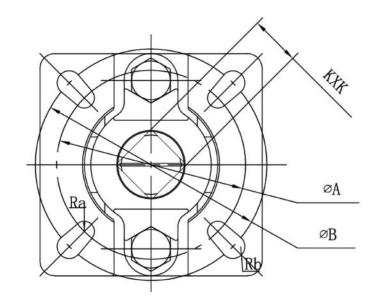
8" - 12" Class 150#

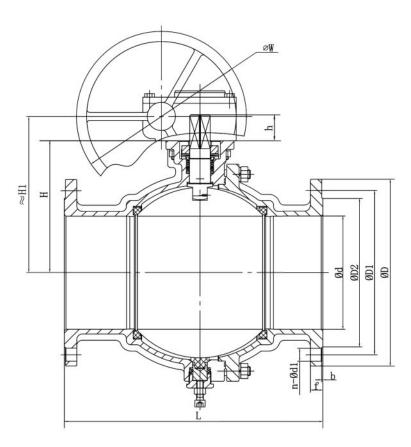




NOMINAL DIAMETER	, L	d	D2	D1	D	b	f	n-0d1	Н	h	H1	W	Ra	Rb	KXK	А	В
8"	18.00	7.87	10.63	11.75	13.58	1.06	0.08	8-0.87	9.21	1.38	11.02	11.81	0.22	0.26	1.42X1.42	F10	F12
10"	21.00	9.84	12.76	14.25	15.95	1.13	0.08	12-0.98	11.10	1.77	13.30	19.69	0.26	0.34	1.42X1.42	F12	F14
12"	24.00	11.81	15.00	17.00	18.98	1.19	0.08	12-0.98	12.85	1.77	15.04	19.69	0.26	0.34	1.42X1.42	F12	F14

8" - 12" Class 300#





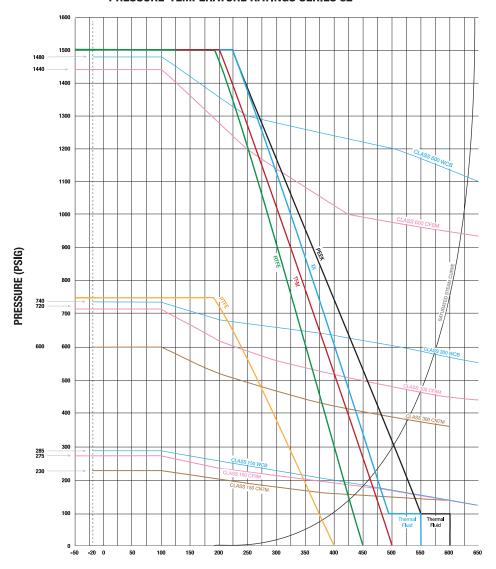
NOMINAL DIAMETER	, L	d	D2	D1	D	b	f	n-0d1	Н	h	H1	W	Ra	Rb	KXK	А	В
8"	18.00	7.87	10.63	11.75	13.58	1.06	0.08	8-0.87	9.21	1.38	11.02	11.81	0.22	0.26	1.06X1.06	F10	F12
10"	21.00	9.84	12.76	14.25	15.95	1.13	0.08	12-0.98	11.10	1.77	13.30	19.69	0.26	0.34	1.42X1.42	F12	F14
12"	24.00	11.81	15.00	17.00	18.98	1.19	0.08	12-0.98	12.85	1.77	15.04	19.69	0.26	0.34	1.42X1.42	F12	F14

APPLICABLE STANDARDS

APPLI	CABLE STANDARDS
BASIC DESIGN	ASME B16.34
FACE TO FACE DIMENSION	ASME B16.5
FLANGE DIMENSION	ASME B16.5
TEST	API 608
MOUNTED PADS DIMENSION	ISO 5211
FIRES TEST	API 607 6TH EDITION
NACE	MR-0175 (WITH 316 STAINLESS STEEL STEM)

SRE	CV (GPM)	WEIGHT(LBS) 150#	WEIGHT(LBS) 300#	WEIGHT(LBS) 600#
1/2"	26	5.50	5.75	6.00
3/4"	50	5.50	7.75	8.00
1"	94	7.50	11.00	13.00
11/2"	260	14.00	21.75	24.00
2"	480	20.00	26.50	36.00
2 ½"	750	32.00	42.00	55.00
3"	1300	42.00	60.00	80.00
4"	2300	65.00	90.00	137.00
6	4500	160.00	220.00	Х
8	10,000	267.00	365.00	Х
10	16,000	570.00	720.00	Х
12	23,000	745.00	915.00	Х

PRESSURE-TEMPERATURE RATINGS SERIES 82



Note:

The maximum pressure/temperature ratings of the valve assemblies are limited to lowest of the body or seat material fitted. The body ratings are based on ASME B16.34 rating for materials. The graphs are based on laboratory testing and our experience in field. The seat ratings depend on the material, design, application and function.

Chicago Valves & Controls® Seat Materials

M-TFM® PTFE

Dyneon TFME® PTFE is a second generation PTFE with improved chemical and heat resistant properties and stress recovery. Its temperature range is -100°F to 500°F(-73°C to 260°C) Color - white.

R-Reinforced Polytetrafluoroethylene (RTFE).

PTFE's mechanical properties are enhanced by adding 15% filler material to provide improved strength, stability and wear resistance. Its temperature range is from -320°F to 450°F (-196°C to 232°C). Color-off-white.

XN - is a free-flowing compound based on TFME® containing electrographitized carbon. It features: increased thermal dimensional stability and surface hardness, improved deformation under load, reduced friction and wear, and good chemical stability. It has a high limiting oxygen index (LOI), low coefficient of friction, very good mechanical properties and exceptional temperature resistance. It is used as a seat material in chemical processing and automotive industries. It is ideal to with steam and thermal fluid applications up to 550°F (228°C) and as low as -40°F (-40°C). Color -black.

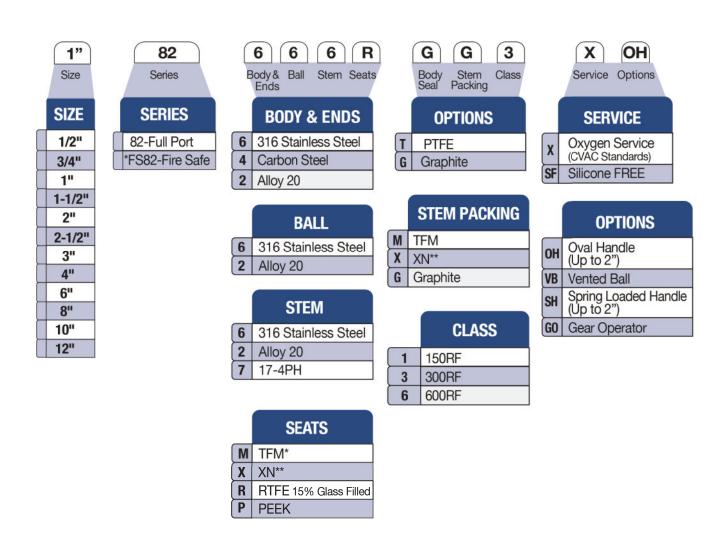
P-PEEK (Unfilled) Polyetheretherketone

PEEK Polymer offers a unique combination of chemical, mechanical and thermal properties. Excellent for water and steam application at elevated temperatures up to 600°F (315°C). Color - beige.

Other seat materials

Other seat materials are available according to the application, such as very high temperature or cryogenic conditions.

HOW TO ORDER



- * Fire Safe Must Use Graphite Body Seals & Stern Packing, TFM®, XN, RT, SEATS
- ** XN Carbon Filled TFM®



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