Technical brochure
PIPELINES

AMPO
POYAM VALVES
Commitment made of steel

COMPANY PROFILE

AMPO is an international leader in highly engineered valves for the most severe applications and industries as well as in stainless steel and high alloy castings.

Through our AMPO SERVICE team we guarantee a prompt response to customer needs wherever they are throughout the world: technical support in start-up stages, equipment selection, predictive and preventive maintenance, training, etc.

Fully inhouse manufacturing

Worldwide references

Project based on people

Innovative spirit

700 people

More than 60 countries

Most important partners in the industry

Cutting edge technologies

Our commitment: the best service

Customer focus

Since 1964

VALVES

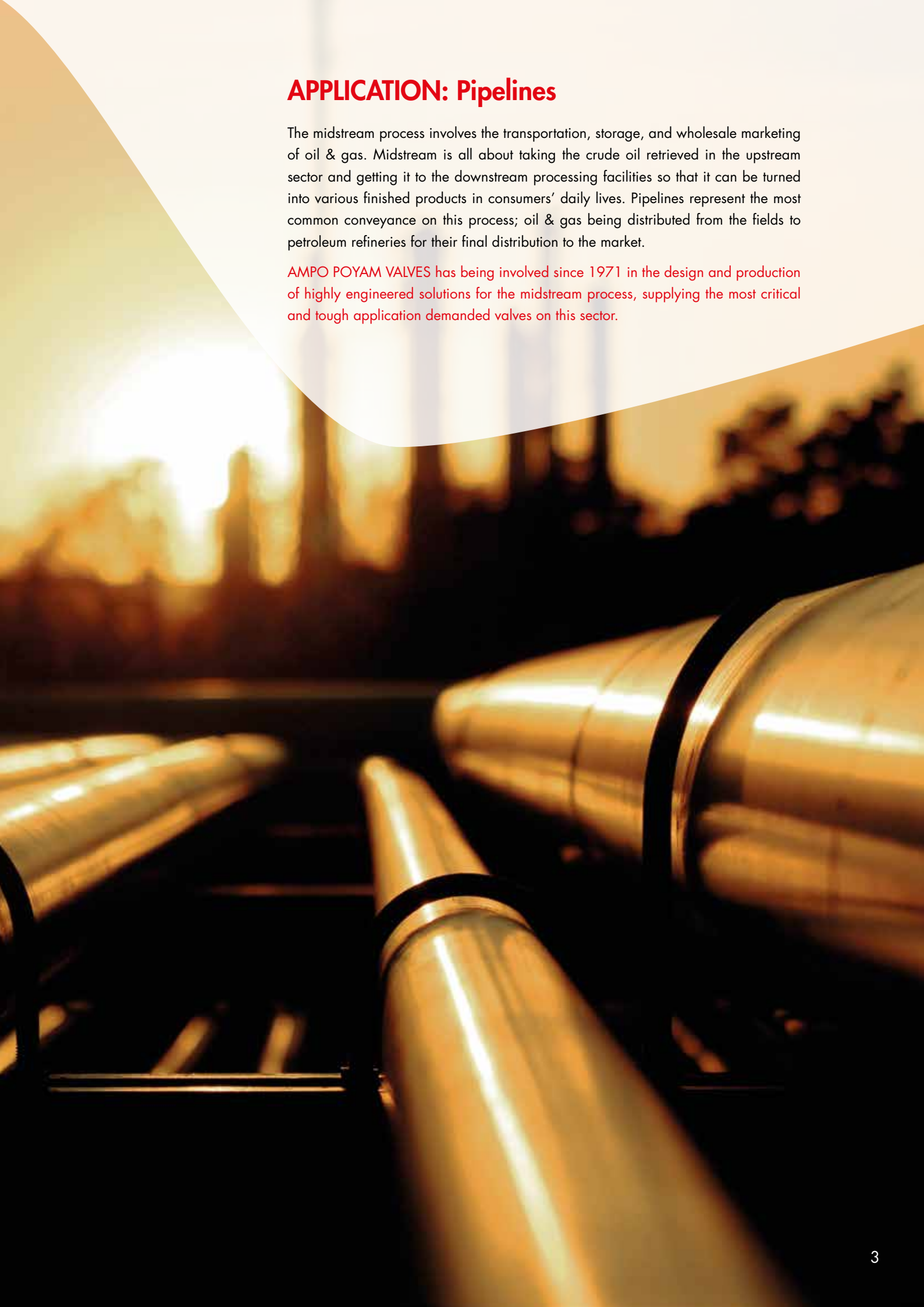
Currently we produce pipeline valves **up to 60"** and **up to 2500#** in a variety of standard and special materials such as Carbon & Low Alloy Steels, Austenitic Stainless Steels, Duplex & Superduplex Steels, High alloys & Nickel based Alloys, Martensitic & Heat Resistant Alloys, ...These valves can work at temperatures **from 450°C down to -46°C.**

The most demanded design constructions for midstream are Split Body Ball valves (we can supply casted Top Entry designs as well), with welded or flanged ends, bolted or welded bodies and manual or actuated operations. Moreover, forge or cast options can be selected upon each project and customer requirements. In AMPO POYAM VALVES we have a wide range of sealing components based on the fluid media (Metal-metal seats or soft seats can be selected) and we can also produce the entire range of weld overlays on any kind of base materials for abrasive and corrosive applications.

APPLICATION: Pipelines

The midstream process involves the transportation, storage, and wholesale marketing of oil & gas. Midstream is all about taking the crude oil retrieved in the upstream sector and getting it to the downstream processing facilities so that it can be turned into various finished products in consumers' daily lives. Pipelines represent the most common conveyance on this process; oil & gas being distributed from the fields to petroleum refineries for their final distribution to the market.

AMPO POYAM VALVES has being involved since 1971 in the design and production of highly engineered solutions for the midstream process, supplying the most critical and tough application demanded valves on this sector.



OUR VALVE RANGE FOR PIPELINES

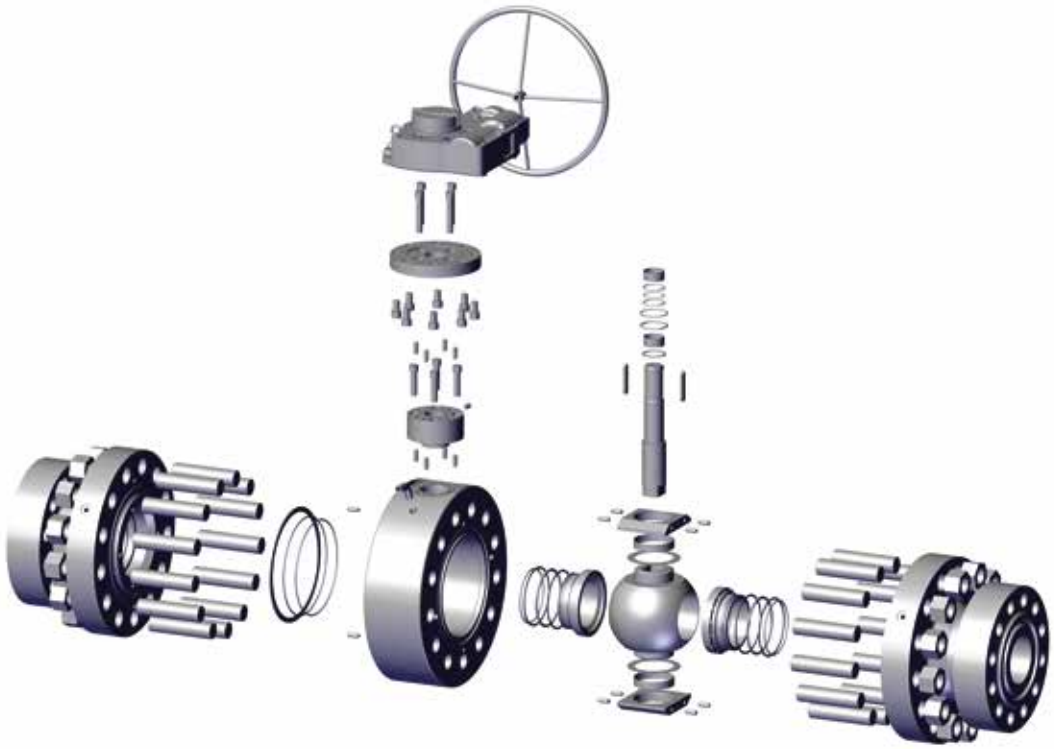
2 OR 3 FORGED PIECES TRUNNION DESIGN **(BOLTED)** BALL VALVE:

This is the standard design of AMPO trunnion mounted valves:

BALL VALVES **CHARACTERISTICS**

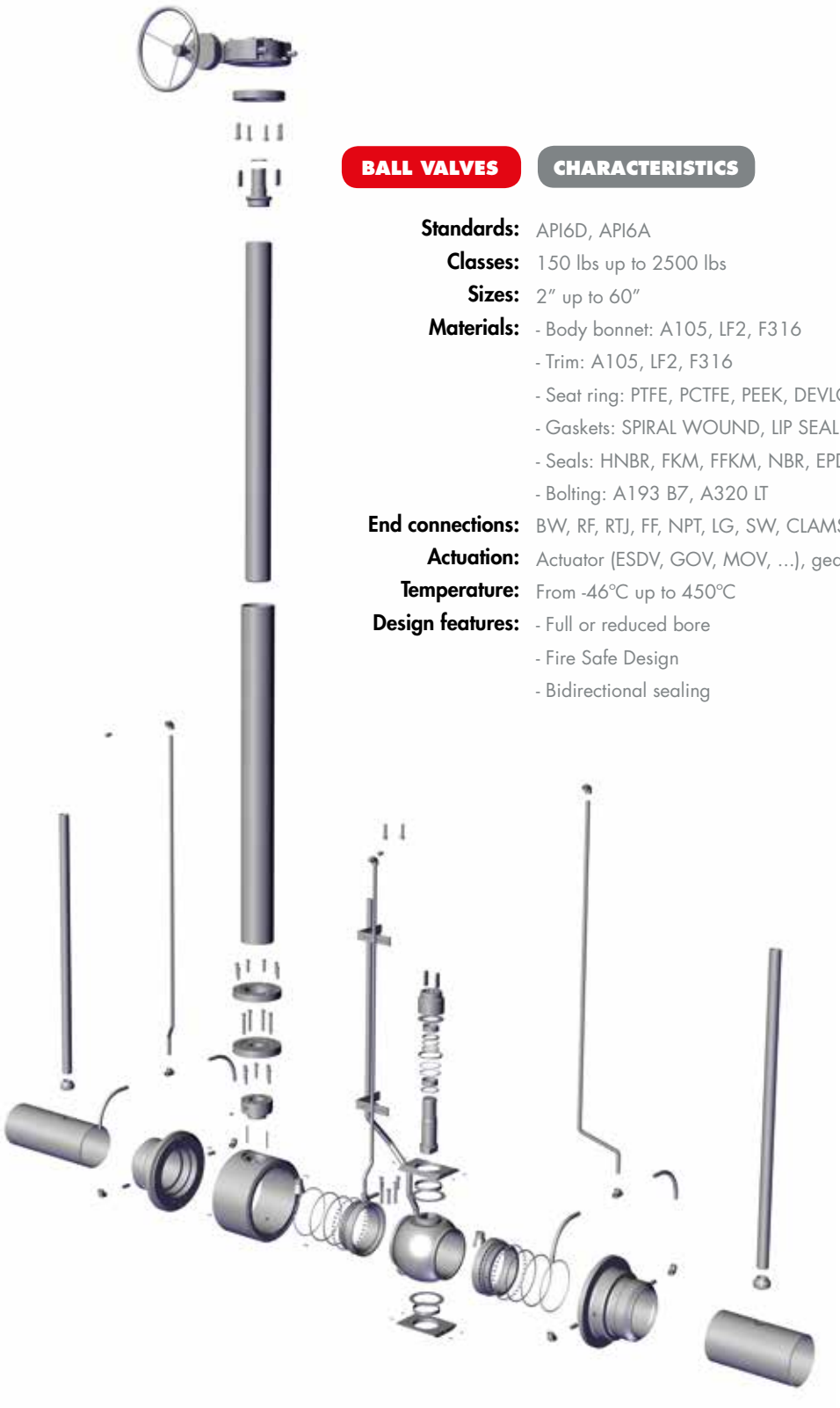
Standards: API6D, API6A
Classes: 150 lbs up to 2500 lbs
Sizes: 2" up to 60"
Materials: - Body bonnet: A105, LF2, F316
- Trim: A105, LF2, F316
- Seat ring: PTFE, PCTFE, PEEK, DEVLON, NYLON, VESPEL, METAL TC/CC COATING
- Gaskets: SPIRAL WOUND, LIP SEAL
- Seals: HNBR, FKM, FFKM, NBR, EPDM, FEPM, TURCON, GRAPHITE
- Bolting: A193 B7, A320 LT

End connections: BW, RF, RTJ, FF, NPT, LG, SW, CLAMS, NORSOK L-005
Actuation: Actuator (ESDV, GOV, MOV, ...), gearbox, lever
Temperature: From -46°C up to 450°C
Design features: - Full or reduced bore
- Fire Safe Design
- Bidirectional sealing



2 OR 3 FORGED PIECES TRUNNION DESIGN **(FULLY WELDED)** BALL VALVE:

Fully welded body ball valve design minimizes the potential leak paths, making these valves suitable for buried installations and gas transportation.



BALL VALVES **CHARACTERISTICS**

Standards: API6D, API6A

Classes: 150 lbs up to 2500 lbs

Sizes: 2" up to 60"

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- Seals: HNBR, FKM, FFKM, NBR, EPDM, FEPM, TURCON, GRAPHITE
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Temperature: From -46°C up to 450°C

Design features:
- Full or reduced bore
- Fire Safe Design
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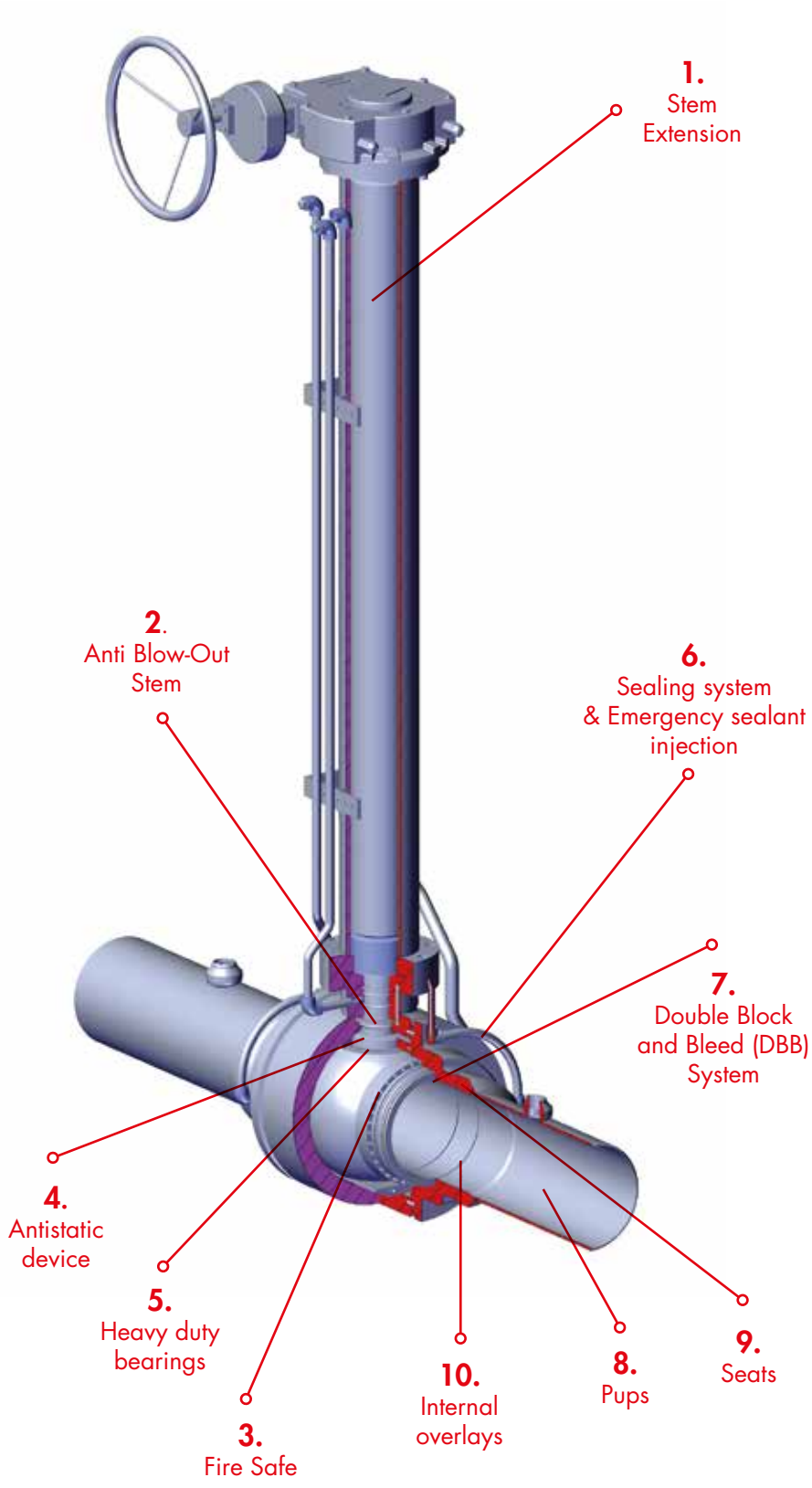
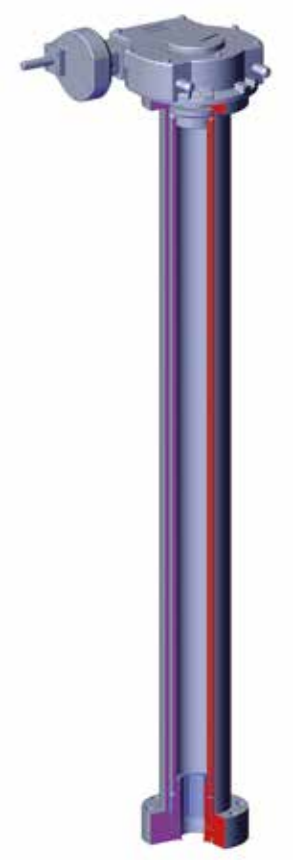
TECHNICAL FEATURES



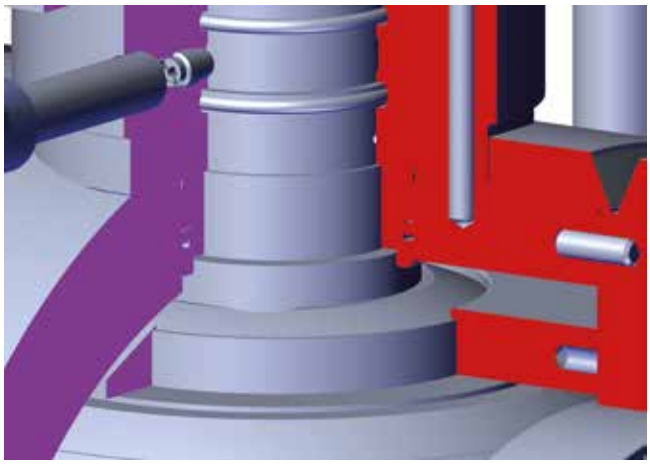
1. STEM EXTENSION:

For underground installations stem extensions can be provided as well as drain, vent and sealant injections, based on customer requirements.



2. ANTI BLOW-OUT STEM:

All our valves are designed with a shouldered stem to prevent the stem, under certain operating conditions could blow out. Furthermore, in the event of the gland being removed while the valve is under pressure, stem will never blow out of the body.

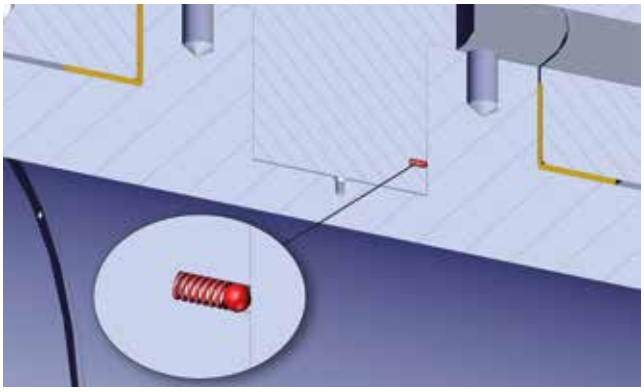


3. FIRE SAFE:

Fire safe design prevents leakage through elastomeric and polymeric seals, when damaged by fire or high temperature occurs. Certificates are available upon customer requests.

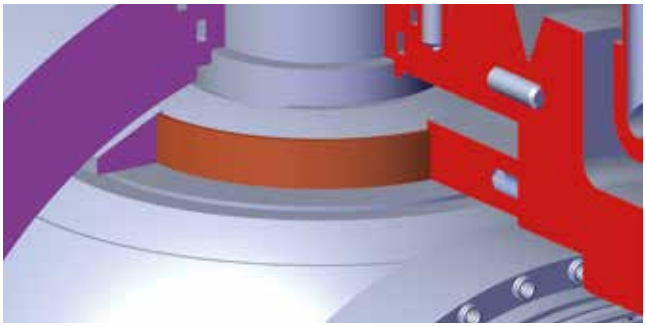
4. ANTISTATIC DEVICE:

The electrical continuity between all metallic components of body and trim is achieved by an anti-static spring loaded device.



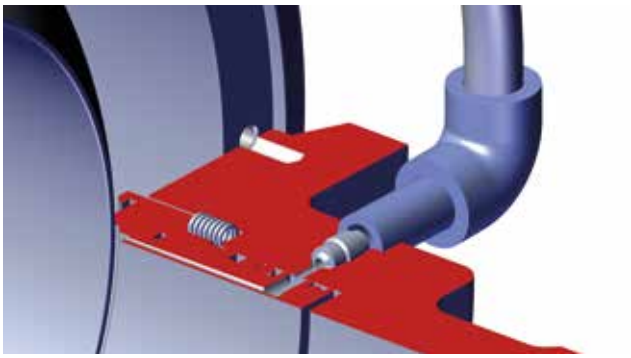
5. HEAVY DUTY BEARINGS:

Heavy duty PTFE coated bearings are supplied on our valves for guaranteeing low friction and avoiding periodic lubrications.



6. SEALING SYSTEM & EMERGENCY SEALANT INJECTION:

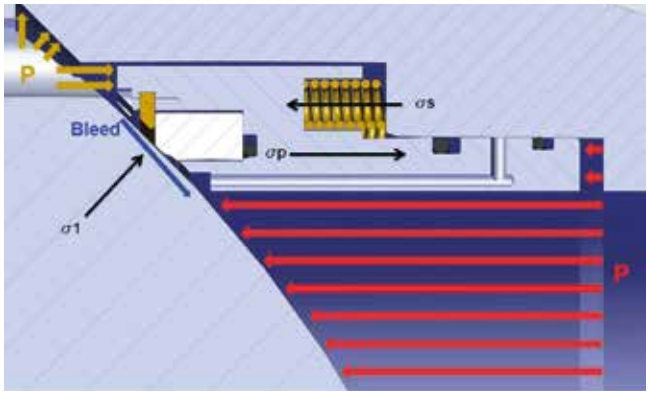
Seal materials are selected based on fluid media, pressure and temperature.



An emergency sealant injection system through the seat up to the ball and through the stem are available for restoring stem and/or seat tightness in case of damages of sealing components (O-ring or seat inserts) due to the presence of solid particles in the process fluid.

7. DOUBLE BLOCK AND BLEED (DBB) SYSTEM:

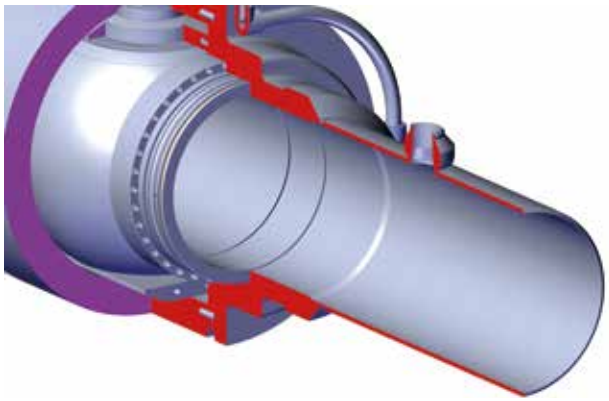
Our valves are equipped with independent floating spring loaded seats in continuous contact with the ball such to grant the required sealing in both directions. Different constructions are available based on each project requirements. Double block and bleed valves can be supplied where construction is based on two seating surfaces that, in the closed position, provides a seal against pressure from both ends of the valve, with a means of venting/bleeding the cavity between the seating surfaces (SPE/SPE with a venting/bleeding to upstream or downstream).



Double Isolation Bleed valves are also available where single valve with two seating surfaces is supplied, each of which, in the closed position, provides a seal against pressure from a single source, with a means of venting/bleeding the cavity between the seating surfaces. This feature can be provided in one direction or in both directions (SPE/DPE or DPE/DPE with an external bleeding system).

8. PUPS:

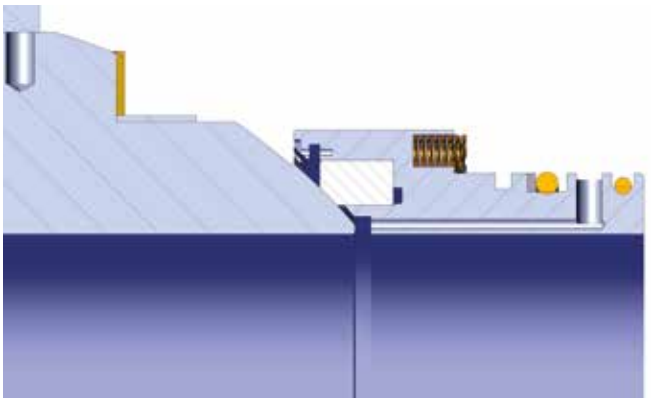
Transition pieces are available for butt weld end valves in order to avoid any possible damage of sealing components during the welding activities at site.



9. SEATS:

Soft seated valves:

Soft seated ball valves have a resilient insert firmly installed into a metallic seat for granting a perfect tightness and sealing under different service conditions other than dirty or abrasive services.



Metal seated valves:

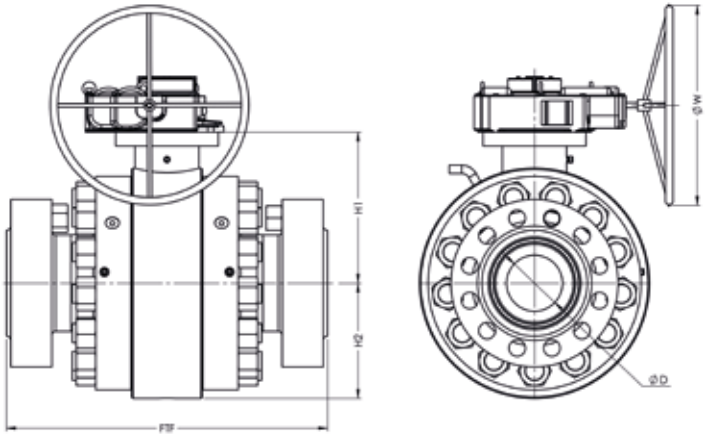
Metal to metal sealing between the ball and seat ring is also available for high temperature, dirty or abrasive environments where soft seats inserts cannot be installed. Depending on fluid media, different coatings can be applied such as Tungsten Carbide or Chromium Carbide through a welding process called HVOF (High Velocity Oxigen Fuel).

10. INTERNAL OVERLAYS:

Complete wetted part of the body-bonnet or seat pocket areas can be weld overlaid when corrosive and abrasive environments are used. Thanks to this option, wear effects can by minimized.

DIMENSIONAL TABLES

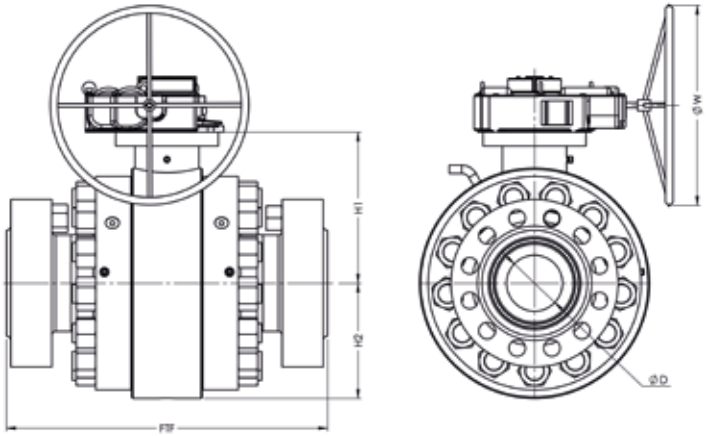
2 or 3 Forged pieces trunnion design **(bolted)** ball valve



	SIZE	PRESSURE	FTF-RF	Ø D	H 1	H 2	W	WEIGHT (KG)
2 pieces	2	150	178	50	133,1	83	lever	18,1
	3	150	203	76	179,1	116,2	SR10	40,33
	4	150	229	102	194,1	152	SR8	68
3 pieces	6	150	394	152	271.1	156	SR14	140
	8	150	457	200	306.1	191	R18	225
	10	150	533	254	350.1	233.5	R24	363
	12	150	610	305	491.7	274	R30	570
	14	150	686	337	465.7	300	R30	732
	16	150	762	388	508.7	341.5	R36	975
	18	150	864	438	572.7	381	R24	1317
	20	150	914	489	544.7	420.5	R30	1663
	22	150	991	540	653.7	463	R24	2199
	24	150	1067	591	759.7	499	R24	2694
	26	150	1143	635	799.7	538	R24	3677
	28	150	1245	686	746.7	583.5	R24	4488
	30	150	1295	737	792.7	628.5	R24	5254
	32	150	1372	781	875.7	665	R36	6372
	34	150	1473	832	966.7	711	R36	7687
	36	150	1524	876	1003.7	747	R36	8586
	38	150	1625	927	1043.7	785	R36	10273
	40	150	1775	978	1082.7	826	R36	11900
	42	150	1775	1022	1113.5	853.5	R36	12984
	44	150	1950	1072	1153	893	R36	14898
	46	150	2050	1112	1182.5	922.5	R36	16266
	48	150	2159	1168	1223	963	R36	18416
	52	150	2184	1250	1296.5	1030.5	R36	21026
	56	150	2489	1362	1438.5	1121.5	R36	28047
	60	150	2390	1460	1390	1184	R36	32126

	SIZE	PRESSURE	FTF-RF	Ø D	H 1	H 2	W	WEIGHT (KG)
2 pieces	2	300	216	50	170,5	91	SR8	29,2
	3	300	283	76	170,1	128	SR8	55,1
	4	300	305	102	216,1	161	SR8	99,2
3 pieces	6	300	403	152	274.1	159	R18	163
	8	300	502	200	313.1	198	R24	263
	10	300	568	254	364.7	245	R24	447
	12	300	648	305	447.7	286.5	R30	691
	14	300	762	337	439.7	316	R30	923
	16	300	838	388	480.7	355	R30	1213
	18	300	914	438	586.7	395.5	R24	1806
	20	300	991	489	561.7	439	R30	2283
	22	300	1092	540	672.7	483	R36	3017
	24	300	1143	591	710.7	520	R30	3618
	26	300	1245	635	750.7	560	R30	4561
	28	300	1346	686	770	606	R30	5748
	30	300	1397	737	808.5	644.5	R18	6707
	32	300	1524	781	886.7	677	R18	7945
	34	300	1626	832	981.7	727.5	R30	9626
	36	300	1727	876	1010.7	755.5	R30	10500
	38	300	1950	927	1040.7	784	R30	11799
	40	300	1956	978	1097.7	842.5	R30	13538
	42	300	2159	1022	1104.7	848.5	R30	14830
	44	300	2184	1072	1148.7	892	R30	17073
	46	300	2286	1112	1214.5	948.5	R30	18694
	48	300	2170	1168	1260	994	R30	21420
	52	300	2311.4	1250	1267.5	1061.5	R36	26844
	56	300	2550	1362	1338.5	1132.5	R36	33785
	60	300	2540	1460	1408	1202	R36	39568

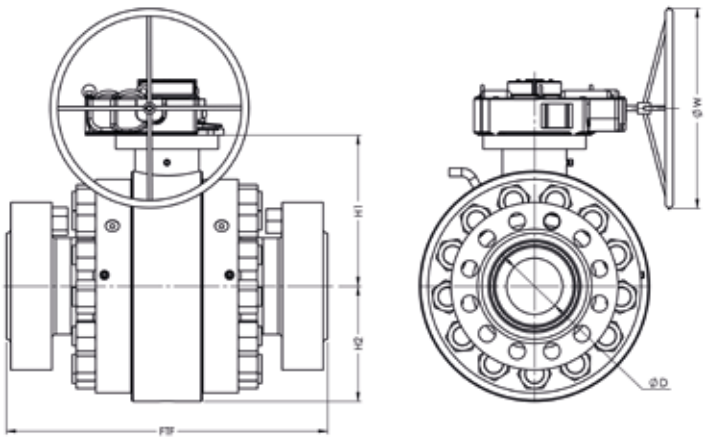
DIMENSIONAL TABLES



	SIZE	PRESSURE	FTF-RF	Ø D	H 1	H 2	W	WEIGHT (KG)
2 pieces	2	600	292	50	182	103	SR10	38,6
	3	600	356	76	192,1	141	SR8	76,9
	4	600	432	102	239,1	138	SR12	119,08
3 pieces	6	600	559	152	264.1	176.5	SR14	221
	8	600	660	200	329.1	215	R30	375
	10	600	787	254	385.7	266.5	R30	717
	12	600	838	305	470.7	310.5	R24	1073
	14	600	889	337	461.7	338.5	R24	1352
	16	600	991	388	509.7	385	R30	1896
	18	600	1092	438	614.7	425.5	R24	2513
	20	600	1194	489	601	479	R18	3305
	22	600	1295	540	711.7	524	R18	3978
	24	600	1397	591	828.7	569.5	R18	5071
	26	600	1448	635	875.7	616	R24	6126
	28	600	1549	686	825.5	661.5	R24	8395
	30	600	1651	737	867	703	R24	8924
	32	600	1778	781	959.7	751.5	R24	10905
	34	600	1930	832	1052.7	800.5	R36	12813
	36	600	2083	876	1097	831	R36	15623
	38	600	2250	927	1146.5	880.5	R36	16950
	40	600	2169	978	1179.5	913.5	R36	20635
	42	600	2489	1022	1223	957	R36	21842
	44	600	2540	1072	1247.5	981.5	R36	24650
	46	600	2642	1112	1300	1034	R36	27880
	48	600	2580	1168	1317	1051	R36	31000
	52	600	2820	1250	1381.5	1115.5	R36	37300
	56	600	2710	1362	1564	1247	R36	45807
	60	600	2740	1460	1649.5	1332.5	R36	53996

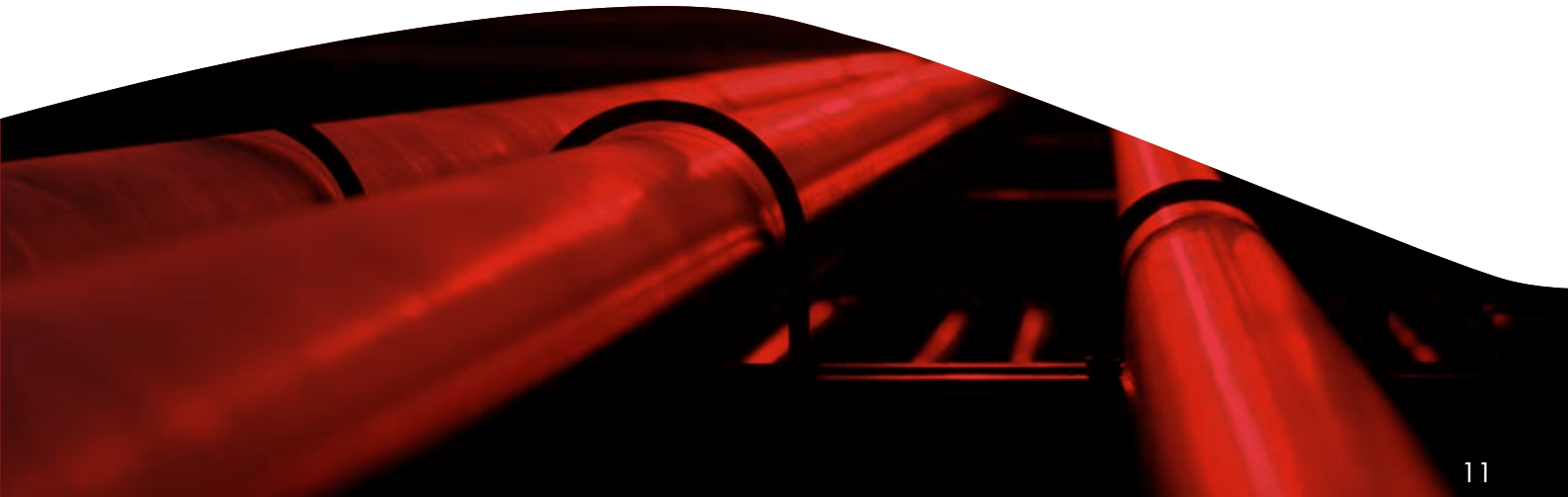
	SIZE	PRESSURE	FTF-RF	Ø D	H 1	H 2	W	WEIGHT (KG)
2 pieces	2	900	368	50	201,5	122	R18	67,3
	3	900	381	76	203,25	155	R30	116,8
	4	900	457	102	269	161	SR8	202,7
3 pieces	6	900	610	152	339	209.5	R24	404
	8	900	737	200	423.4	257	R30	712
	10	900	838	254	474.4	316.5	R18	1205
	12	900	965	305	520.4	364	R24	1781
	14	900	1029	324	569.4	381.5	R24	2080
	16	900	1130	375	628.4	438	R30	2700
	18	900	1219	425	677.4	488.5	R30	3685
	20	900	1321	473	727.4	538	R24	4794
	22	900	1473	524	797	591	R36	6430
	24	900	1549	572	814.5	631.5	R24	7876
	26	900	1670	619	868	685	R24	9545
	28	900	1695	667	936	730	R30	11309
	30	900	1790	714	997.5	791.5	R36	13883
	32	900	1880	762	1098.5	832.5	R36	16768
	34	900	2075	810	1150	884	R36	20055
	36	900	2140	857	1189	923	R36	22300
	38	900	2489	902	1243	977	R36	26000
	40	900	2590	953	1276.5	1000.5	R36	27810
	42	900	2660	1003	1303	1027	R36	31610
	44	900	2760	1049	1365	1089	R36	37312
	46	900	2875	1067	1414	1138	R36	40053
	48	900	2450	1149	1453.5	1177.5	R36	44358

2 or 3 Forged pieces trunnion design **(bolted)** ball valve

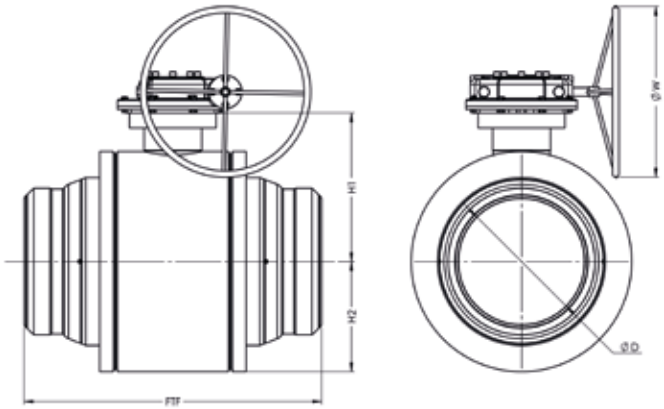


	SIZE	PRESSURE	FTF-RF	Ø D	H 1	H 2	W	WEIGHT (KG)
2 pieces	2	1500	368	50	228	136,9	SR8	89,1
	3	1500	470	76	258,25	196	R30	226,8
	4	1500	546	102	343,5	184,5	R30	308,8
3 pieces	6	1500	705	146	420.4	257.5	R30	762
	8	1500	832	194	475.4	319	R24	1192
	10	1500	991	241	511.4	388	R30	1992
	12	1500	1130	289	566.5	439.5	R24	3108
	14	1500	1257	317	649.5	474.5	R30	3964
	16	1500	1384	362	715.4	527.5	R24	5205
	18	1500	1537	413	769	596	R24	7265
	20	1500	1663.7	456	844	644	R30	9212
	22	1500	1750	500	875	692	R36	11001
	24	1500	1943	546	1012	742	R36	14764

	SIZE	PRESSURE	FTF-RF	Ø D	H 1	H 2	W	WEIGHT (KG)
2 pieces	2	2500	451	45	276	176	R30	162,5
	3	2500	578	64	290,5	220	R36	345
	4	2500	673	89	368,25	232	R30	623,1
	6	2500	914	133	489,5	291	R36	1400,2
	8	2500	1022	181	541	316	R36	1778
3 pieces	10	2500	1270	225	650.75	509.5	R18	3796
	12	2500	1422	267	733.5	537.5	R30	5400
	14	2500	1550	294	889	619	R36	9351
	16	2500	1675	335	957	687	R36	12445
	18	2500	1943	374	1066.5	769	R36	15078
	20	2500	2083	419	1114.5	821	R36	19785



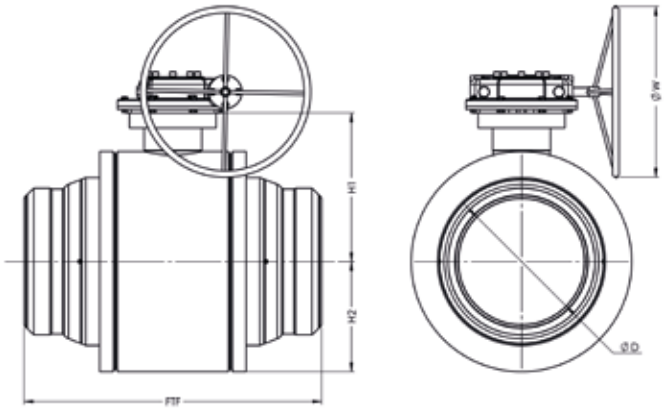
DIMENSIONAL TABLES



	SIZE	PRESSURE	FTF-RF	Ø D	H 1	H 2	W	WEIGHT (KG)
2 pieces	2	150	216	50	145,1	79	SR8	17,6
	3	150	282	76	174,1	107	SR12	35,5
	4	150	305	102	175,1	134	R18	51,8
3 pieces	6	150	457	152	269.1	152.5	SR14	116
	8	150	521	200	307.1	190.5	R18	195
	10	150	559	254	349.1	231	R24	304
	12	150	635	305	491.7	273.5	R30	522
	14	150	762	337	466.7	300	R30	680
	16	150	838	388	511.7	343	R36	944
	18	150	914	438	571.7	379.5	R24	1240
	20	150	991	489	541.7	416.5	R30	1560
	22	150	1092	540	654.7	463.5	R24	2140
	24	150	1143	591	761.7	499.5	R24	2600
	26	150	1245	635	793.7	531	R24	3130
	28	150	1346	686	745.7	581.5	R24	3967
	30	150	1397	737	789.7	624.5	R24	4669
	32	150	1524	781	878.7	667	R36	5875
	34	150	1626	832	964.7	707.5	R36	7010
	36	150	1727	876	997.7	740	R36	7973
	38	150	1625	927	1034.7	775.5	R36	8997
	40	150	1775	978	1072.7	815	R36	10377
	42	150	1775	1022	1102	842	R36	11200
	44	150	1950	1072	1137.5	877.5	R36	12600
	46	150	2050	1112	1168	908	R36	13839
	48	150	2159	1168	1209.5	949.5	R36	15680
	52	150	2184	1250	1276.5	1010.5	R36	18804
	56	150	2489	1362	1412.5	1095.5	R36	23892
	60	150	2390	1460	1387	1181	R36	29052

	SIZE	PRESSURE	FTF-RF	Ø D	H 1	H 2	W	WEIGHT (KG)
2 pieces	2	300	216	50	162,5	79	SR8	22,1
	3	300	282	76	173,1	112	SR12	36,3
	4	300	305	102	220,1	138	R18	67,1
3 pieces	6	300	457	152	270.1	153.5	R18	126
	8	300	521	200	309.1	192.5	R24	213
	10	300	559	254	355.7	235	R24	345
	12	300	635	305	437.7	276.5	R30	573
	14	300	762	337	426.7	303	R30	746
	16	300	838	388	471.7	346	R30	1047
	18	300	914	438	575.7	383.5	R24	1394
	20	300	991	489	544.7	420.5	R30	1750
	22	300	1092	540	657.7	467.5	R36	2395
	24	300	1143	591	694.7	503.5	R30	2906
	26	300	1245	635	727.7	536	R30	3475
	28	300	1346	686	750.5	586.5	R30	4493
	30	300	1397	737	794.7	630.5	R18	5340
	32	300	1524	781	883.7	673	R18	6738
	34	300	1626	832	969.7	714.5	R30	8052
	36	300	1727	876	1002.7	746	R30	9060
	38	300	1950	927	1028.7	770.5	R30	9781
	40	300	1956	978	1079.7	823	R30	11810
	42	300	2159	1022	1092.7	836	R30	12140
	44	300	2184	1072	1129.7	872.5	R30	13755
	46	300	2286	1112	1182	916	R30	15861
	48	300	2170	1168	1222.5	956.5	R30	18135
	52	300	2311.4	1250	1223.5	1017.5	R36	21561
	56	300	2550	1362	1291.5	1085.5	R36	25413
	60	300	2540	1460	1379	1173	R36	31845

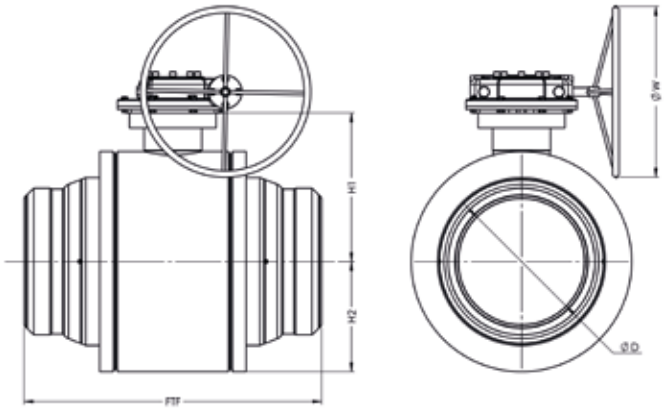
2 or 3 Forged pieces trunnion design **(fully welded)** ball valve



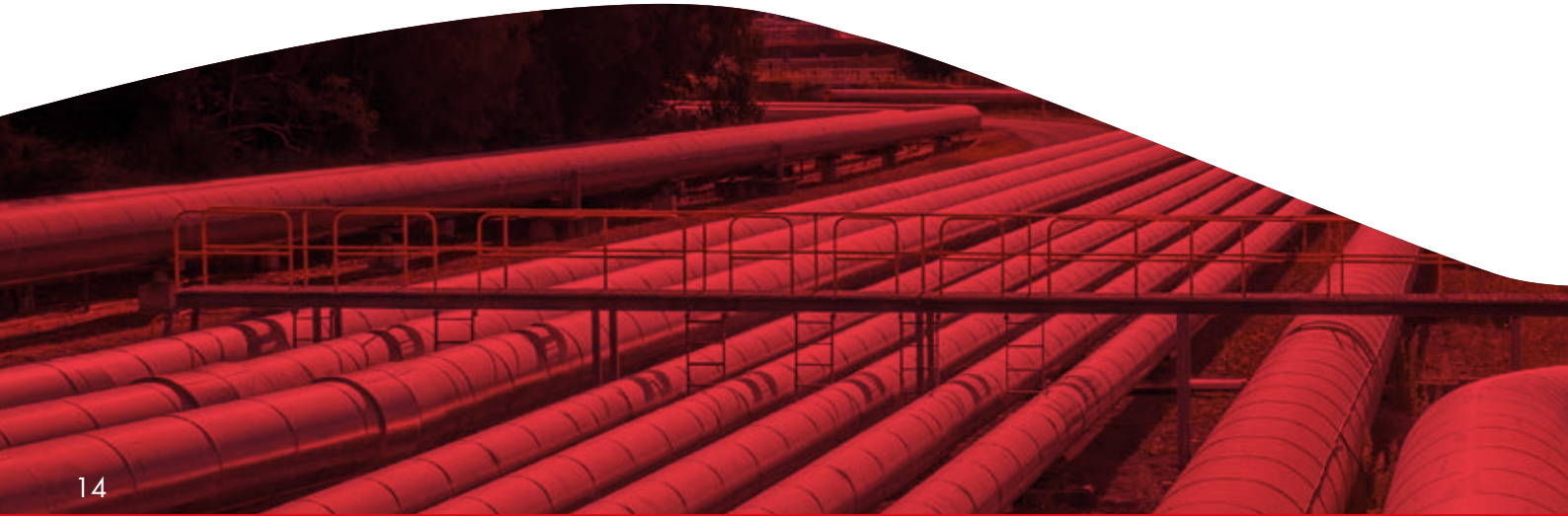
	SIZE	PRESSURE	FTF-RF	Ø D	H 1	H 2	W	WEIGHT (KG)
2 pieces	2	600	292	50	163,5	82	SR12	25,4
	3	600	356	76	170,1	115	R18	49,7
	4	600	432	102	232,1	130	R18	84
3 pieces	6	600	559	152	246.1	157.5	SR14	146
	8	600	660	200	311.1	196.5	R30	262
	10	600	787	254	359.7	239	R30	437
	12	600	838	305	441.7	281.5	R24	702
	14	600	889	337	431.7	309	R24	906
	16	600	991	388	476.7	352	R30	1285
	18	600	1092	438	579.7	390.5	R24	1724
	20	600	1194	489	551.5	429.5	R18	2262
	22	600	1295	540	664.7	476.5	R18	2955
	24	600	1397	591	772.7	514.5	R18	3696
	26	600	1448	635	805.7	547	R24	4377
	28	600	1549	686	762.5	598.5	R24	5576
	30	600	1651	737	805.5	641.5	R24	6566
	32	600	1778	781	893.7	686	R24	8361
	34	600	1930	832	980.7	728.5	R36	10000
	36	600	2083	876	1026	760	R36	11397
	38	600	2250	927	1061.5	795.5	R36	12599
	40	600	2169	978	1103	837	R36	14800
	42	600	2489	1022	1130	864	R36	16000
	44	600	2540	1072	1169.5	903.5	R36	18135
	46	600	2642	1112	1206	940	R36	20166
	48	600	2435	1168	1246.5	980.5	R36	22674
	52	600	2575	1250	1309.5	1043.5	R36	24671
	56	600	2710	1362	1447.5	1130.5	R36	33913
	60	600	2740	1460	1522	1205	R36	39802

	SIZE	PRESSURE	FTF-RF	Ø D	H 1	H 2	W	WEIGHT (KG)
2 pieces	2	900	368	50	183,5	101	SR12	40,8
	3	900	381	76	224	135	R18	91,2
	4	900	457	102	257	149	R18	159,4
3 pieces	6	900	610	152	314	184.5	R24	247
	8	900	737	200	391.4	224	R30	411
	10	900	838	254	437.4	278	R18	713
	12	900	965	305	479.4	323	R24	1111
	14	900	1029	324	527.4	339.5	R24	1343
	16	900	1130	375	573.4	383.5	R30	1851
	18	900	1219	425	612.4	424.5	R30	2409
	20	900	1321	473	656.4	468	R24	3331
	22	900	1473	524	720	514	R36	4183
	24	900	1549	572	737.5	554.5	R24	5119
	26	900	1670	619	782.5	599.5	R24	6312
	28	900	1695	667	845.5	639.5	R30	7531
	30	900	1790	714	901	695	R36	9472
	32	900	1880	762	1005	739	R36	13070
	34	900	2075	810	1045.5	779.5	R36	13589
	36	900	2140	857	1085.5	819.5	R36	15788
	38	900	2489	902	1123.5	857.5	R36	18080
	40	900	2590	953	1129.5	853.5	R36	18939
	42	900	2660	1003	1161.5	885.5	R36	21908
	44	900	2760	1049	1252	976	R36	25715
	46	900	2875	1067	1265.5	989.5	R36	27247
	48	900	2450	1149	1327.5	1051.5	R36	31674

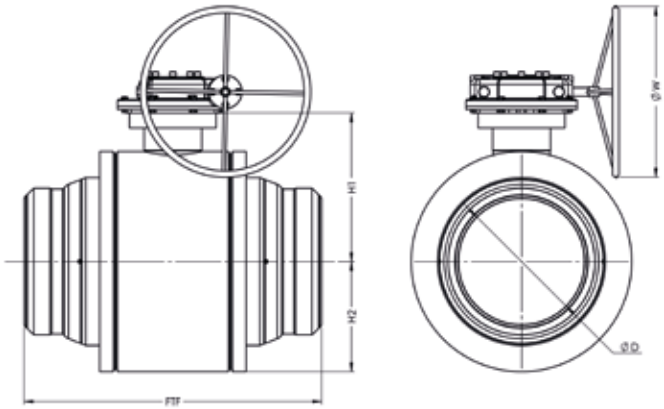
DIMENSIONAL TABLES



	SIZE	PRESSURE	FTF-RF	Ø D	H 1	H 2	W	WEIGHT (KG)
2 pieces	2	1500	368	50	214,5	122	R18	67,7
	3	1500	470	76	278,5	172	R30	176,9
	4	1500	546	102	331	199	R18	265
3 pieces	6	1500	705	146	380.4	217.5	R30	450
	8	1500	832	194	418.4	261.5	R24	716
	10	1500	991	241	440.4	317.5	R30	1189
	12	1500	1130	289	496.5	369.5	R24	1852
	14	1500	1257	317	572.5	397.5	R30	2364
	16	1500	1384	362	630.4	444	R24	3227
	18	1500	1537	413	673	500	R24	4421
	20	1500	1663.7	456	742.5	542.5	R30	5759
	22	1500	1650	500	772.5	589.5	R36	7126
	24	1500	1943	546	908.5	638.5	R36	8993



2 or 3 Forged pieces trunnion design **(fully welded)** ball valve



	SIZE	PRESSURE	FTF-RF	Ø D	H 1	H 2	W	WEIGHT (KG)
2 pieces	2	2500	451	45	257,5	155	R18	121,9
	3	2500	578	64	287,5	204	R30	290
	4	2500	673	89	387,5	205	R30	497
	6	2500	914	133	480,5	269,5	R36	1074
	8	2500	1022	181	539	316	R36	1496
3 pieces	10	2500	1270	225	563.75	422.5	R18	2859
	12	2500	1422	267	648.5	452.5	R30	3753
	14	2500	1550	294	794	524	R36	5754
	16	2500	1675	335	853	583	R36	7571
	18	2500	1943	374	936	638.5	R36	9860
	20	2500	1750	419	997	703.5	R36	12880

"Due to engineering activities, all the above dimensions and weights could be subjected to changes by AMPO POYAM VALVES without any notification. Therefore, please consult us for confirmation on the above data as well as for other dimensions and weights not reported in the tables".

AMPO SERVICE

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- Technical support
- Technical training
- Valve condition monitoring
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