



**butterfly valves
with bonded liner
double flanged**

made in Abu Dhabi

 **advalco**

BA

Top Flange

The top flange accommodates all types of levers, gear operators, electric, hydraulic or pneumatic actuators. The dimensions are according to ISO 5211.

Body

The end flanges of the double flanged valve are cast integral with the body. Overall design in accordance to EN 558 and BS EN-593. An external coating provides corrosion protection.

Shaft

The one piece shaft ensures dependability and positive disc positioning. The top dimensions are according to ISO 5211. The shaft configuration ensures positive attachment, for levers and actuators. The shaft is completely isolated from the media. The square groove indicates the disc orientation.

Name plate

The name plate states brand name, valve type, year of manufacture, job number, size DN, body and liner material, max. operating pressure, min. and max. operating temperature, CE markings.

Bearings

Two radial bearings reduce the operating torque and isolate the shaft from the body. (The bearings are fixed by the vulcanisation process of the liner. For type BA the bearing is secured by thermal expansion after cooling to -196 °C.)

Precision straight pins

The precision straight pins ensure positive and vibration proof shaft to disc connection. From DN200 and up two or more pins are used.

Disc

The precision profile disc ensures minimum torque and longer seat life. The disc provides bi-directional bubble tight shut-off and good flow characteristics.

Bonded liner

The elastomer liner is bonded integrally to body and bearings. It extends along the valve faces so flange gaskets are not necessary nor allowed. The liner is highly stable and eliminates potential leak paths and corrosion between liner and body. The vulcanisation principle provides excellent dimensional tolerances resulting in low torque, smooth flow, no maintenance and long life.

Cover

The plug is sealed with a fiber ring and keeps out dust and dirt. From DN350 and up a plate is used. From DN450 and up a bronze bearing plate with O-ring sealing is used to center and support the shaft.

double flange butterfly valves

Description

Double Flange type heavy duty butterfly valve with centric disc and bonded liner, 100% bi-directional and bubble tight shut-off. On request available centric type BAL with face to face dimensions according to EN 558 table 1 series 14.

Industry application

Offshore / Shipbuilding
 Defense Industry
 Petrochemical / Oil and Gas
 Heavy Industry / Power and Desalination Plants
 Water Treatment
 Civil Engineering

References

Overall design generally in accordance to BS EN-593 face to face dimensions in accordance to EN558 table 1 Series 13 (except 2000mm).

Top flange and shaft end in accordance to ISO 5211.

Size range

DN50 - DN2000.

Specifications

Suitable as end of line valve

Working pressure from 0.1 bar absolute up to 16 bar, (to 17.6 bar)

Working pressure from up to 25 bar

Test pressure 27.5 bar

Mounting between flanges DIN PN 10, DIN PN16, ASME cl-150 and JIS 5,10,16K standards

Coating colour - RAL (to be announced)

▶ VALVE BODIES

Ductile Cast Iron EN 1563-GJS 400-15

Cast Carbon Steel a 216 WCB

Ni/Al-Bronze AB-2 or to ASTM B148 or Stainless Steel 316

▶ RUBBER LINERS NBR, EPDM VITON(FPM) VMQ Silicone rubber, CR(Chloroprene)

▶ DISC MATERIALS

Ni/Al-Bronze C95800 ASTM B148

Ductile Cast Iron Rilsan Coated, Ebonite Coated

Stainless Steel A743 (CF8M)

Monel ASTM A494 M35

Duplex and Super Duplex

▶ SHAFTS AND PINS MATERIALS

Stainless Steel EN 10088-3 1.4122

Stainless Steel(316L) (EN 10088-3 1.14404)

Monel K 500 BS 3076 NA18

Aluminium Bronze EN1265

Duplex and Super duplex

▶ COATINGS

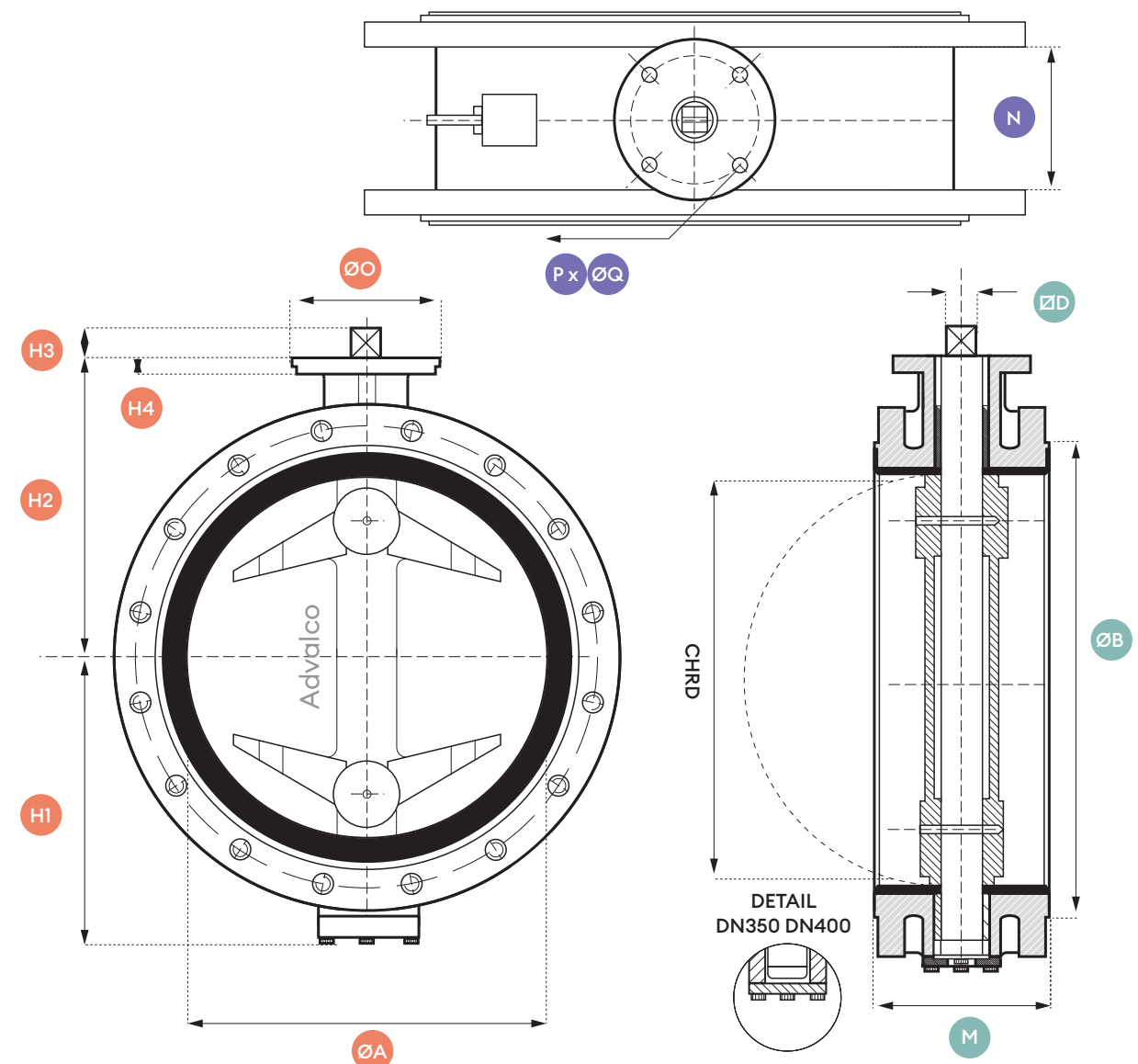
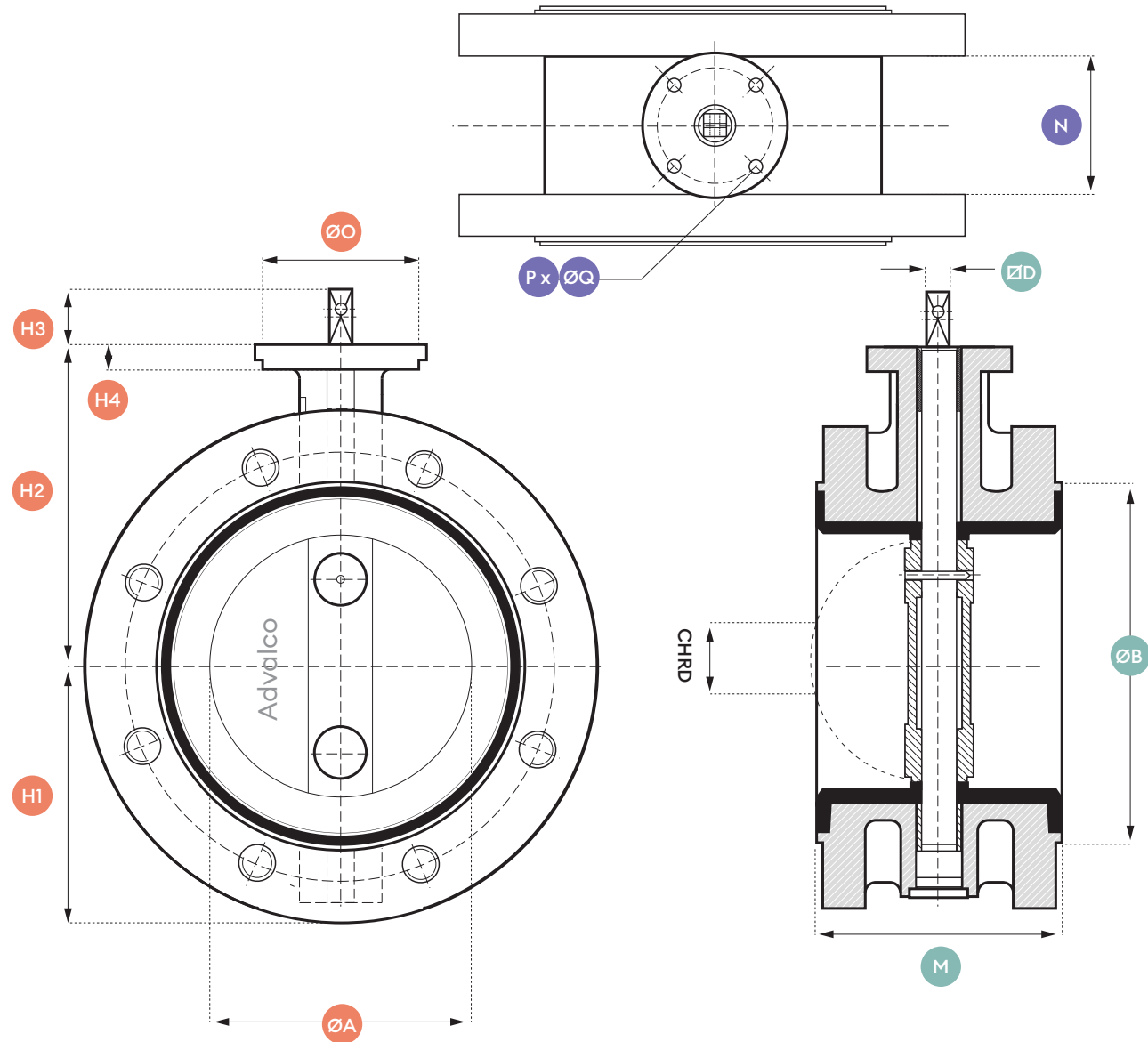
Standard shoppaint Alkyd Primer 60 Mu Ral

Coating No 2 1 layer high solid epoxy 80-100 Mu

Coating No 3 1 layer high solid epoxy 80-100 Mu, 1 layer high solid polyurethane 60 Mu

Coating No 3 1 layer high solid epoxy 80-100 Mu, 2 layers high solid high build polyurethane 140 Mu

Double Flanged, BA DIN PN10, PN16 ASME Class 150 A



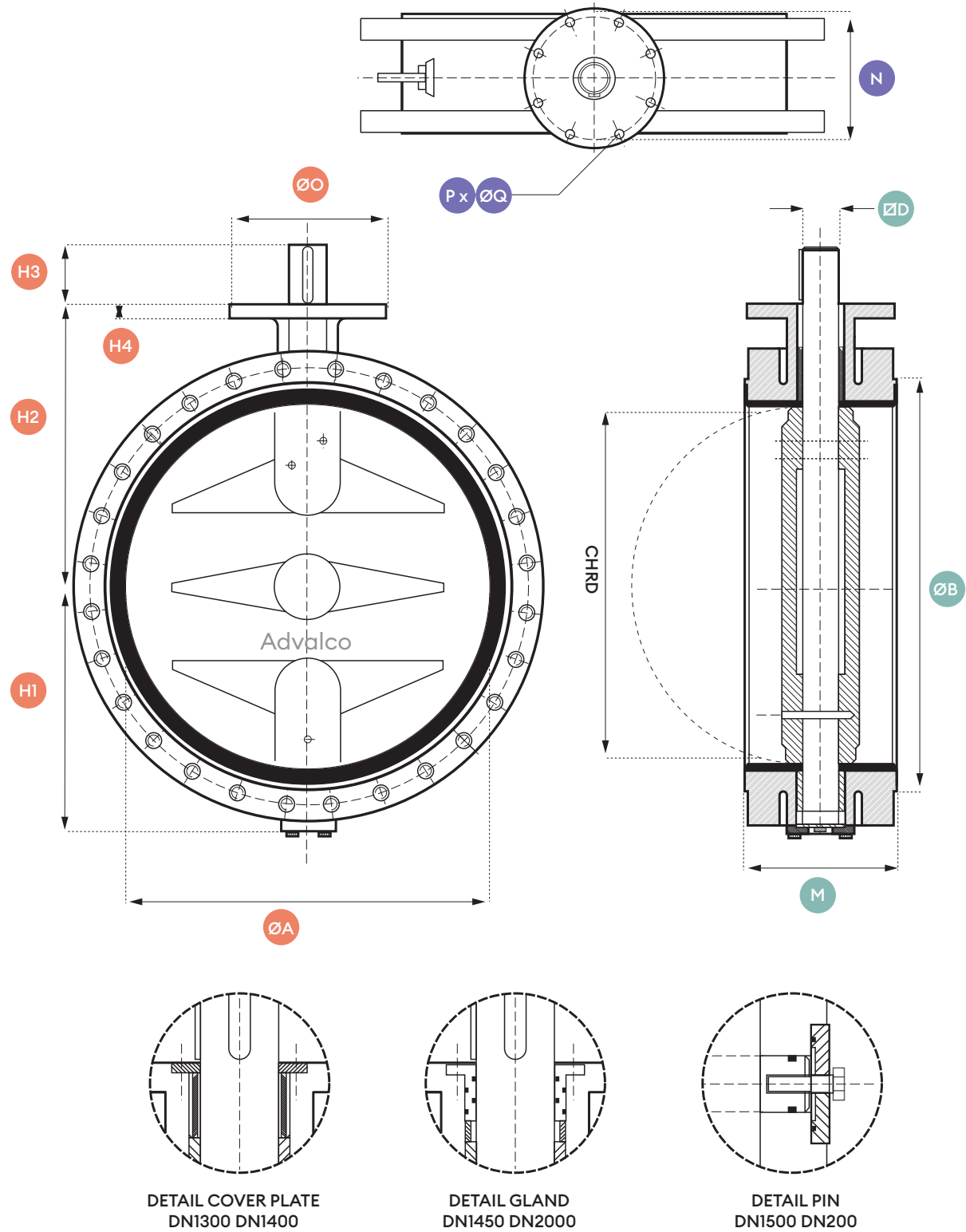
Size	Front view						Side view				Top view			Kg
	ØA	ØO	H1	H2	H3	H4	M	Chrd	ØB	ØD	P	ØQ	N	
50	50	90	67	118	25	12	108	-	102	11	4	9	70	7.5
65	65	90	74	126	25	12	112	-	122	11	A	9	70	9.0
80	80	90	82	133	25	14	114	-	130	11	4	9	70	11
100	100	90	100	147	25	14	127	-	158	11	4	9	70	14
125	125	90	112	160	28	14	140	-	191	11	4	9	70	19
150	150	90	134	180	28	14	140	53	215	14	4	9	70	22
200	200	90	159	204	28	14	152	130	268	17	4	9	70	34
250	250	125	195	245	30	15	165	188	324	22	4	11	102	49
300	300	125	220	270	30	15	177	242	374	22	4	11	102	69

All dimensions are in mm

Size	Front view						Side view				Top view			Kg
	ØA	ØO	H1	H2	H3	H4	M	Chrd	ØB	ØD	P	ØQ	N	
350	350	14	282	315	29	20	190	294	438	27	4	14	125	71
400	400	14	307	350	29	20	216	337	488	27	4	14	125	98
450	450	18	352	375	38	20	222	392	536	36	4	18	140	119
500	500	18	387	415	38	20	229	445	590	36	4	18	140	162
600	600	22	452	465	48	25	267	538	692	46	4	22	165	258

All dimensions are in mm

Double Flanged, BA DIN PN10, PN16 ASME Class 150 A



BA, DIN PN10, Double Flange Type

Size	Key No-size	Front view						Side view				Top view			Kg
		ØA	ØO	H1	H2	H3	H4	M	Chrd	ØB	ØD	P	ØQ	N	
550	1-16x10x100	532	210	395	470	110	25	229	480	635	55	4	22	165	250
650	1-18x11x100	640	210	455	500	110	30	267	582	740	60	4	22	165	340
700	1-20x12x100	690	300	485	555	110	25	292	625	805	70	8	18	254	450
750	1-20x12x100	735	300	540	590	110	30	292	675	855	70	8	18	254	580
800	1-22x14x110	790	300	550	620	120	30	318	723	910	80	8	18	254	690
900	2-25x14x110	890	300	650	660	120	30	330	816	1005	90	8	18	254	790
1000	2-25x14x110	985	300	680	740	120	30	410	896	1110	90	8	18	254	1040
1100	2-28x16x110	1085	350	767	800	120	40	410	1005	1220	105	8	22	298	1460
1200	2-28x16x140	1185	415	845	950	160	40	470	1088	1325	110	8	33	356	1640
1300	2-28x16x140	1285	415	870	950	160	50	470	1196	1430	110	8	33	356	1800
1400	2-32x18x140	1385	415	925	990	160	50	530	1280	1535	120	8	33	356	2475
1500	2-36x20x140	1477	475	1000	1050	160	50	600	1350	1645	135	8	39	406	2710
1600	2-36x20x140	1568	475	1085	1150	160	50	600	1449	1755	150	8	39	406	2840
1800	2-40x22x160	1770	475	1214	1265	180	55	670	1638	1965	165	8	39	406	3980
2000	2-45x25x180	1970	560	1437	1425	200	60	520	1900	2160	200	8	39	483	6500

BA, DIN PN16, Double Flange Type

550	1-20x12x100	532	210	410	480	110	25	229	480	665	70	4	22	165	250
650	1-20x12x100	640	210	455	500	110	30	267	582	740	70	4	22	165	340
700	1-22x14x110	690	300	505	550	120	30	292	625	795	80	8	18	254	450
750	1-25x14x110	735	300	535	575	120	30	292	675	855	90	8	18	254	600
800	1-28x16x110	779	300	582	610	120	30	318	711	900	100	8	18	254	750
900	2-32x18x140	890	300	650	660	160	30	330	827	1005	110	8	18	254	840
1000	2-32x18x140	985	350	680	740	160	30	410	896	1110	120	8	22	298	1080
1100	2-32x18x140	1085	350	767	800	160	40	410	1005	1220	125	8	22	298	1490
1200	2-32x18x140	1185	415	841	875	160	50	470	1088	1325	130	8	33	356	1680
1300	2-32x18x140	1285	415	870	950	160	50	470	1196	1430	130	8	33	356	1865
1400	2-36x20x140	1385	475	925	990	160	50	530	1280	1535	140	8	39	406	2510
1500	2-40x22x160	1477	475	1000	1050	180	50	600	1350	1640	155	8	39	406	2760
1600	2-45x25x160	1568	475	1085	1150	180	50	600	1449	1755	175	8	39	406	2890
1800	2-45x25x180	1770	475	1214	1265	200	55	670	1638	1965	195	8	39	406	4100
2000	2-56x32x180	1970	560	1437	1425	200	60	520	1900	2160	235	8	39	483	6650

BA, ASME B 16.47 class 150 series A, Double Flange Type

550	1-16x10x100	535	210	410	480	110	25	229	484	642	55*	4	22	165	250
650	1-18x11x100	640	210	455	500	110	30	267	582	740	60*	4	22	165	340
700	1-20x12x100	690	210	490	550	110	25	292	625	805	70*	4	22	165	450
750	1-20x12x100	730	300	530	590	110	30	292	669	857	70*	8	18	254	605
800	1-22x14x110	790	300	550	620	120	30	318	723	915	80*	8	18	254	750
900	2-25x14x110	880	300	625	675	120	30	330	816	1022	90*	8	18	254	880
1000	2-25x14x110	985	300	680	740	120	30	410	896	1110	90*	8	18	254	1080
1050	2-28x16x110	1035	300	727	800	120	30	410	950	1194	100*	8	18	254	1300
1100	2-28x16x140	1085	300	765	830	160	30	410	1005	1245	110*	8	18	254	1480
1200	2-28x16x140	1185	415	885	950	160	50	470	1088	1360	110*	8	33	356	1665
1300	2-32x18x140	1285	415	870	950	160	50	470	1196	1430	120*	8	33	356	1830
1400	2-36x20x140	1385	415	940	1050	160	50	530	1280	1575	135*	8	33	356	2850
1500	2-36x20x140	1477	475	1000	1080	160	50	600	1350	1676	150*	8	39	406	2975

* Shaft diameter for working pressure 10 bar



P.O. Box 3949, Abu Dhabi, United Arab Emirates
Phone +971 2 4493841, info@advalco.ae, www.advalco.ae

