



Quality is not Expensive,
it's Priceless!



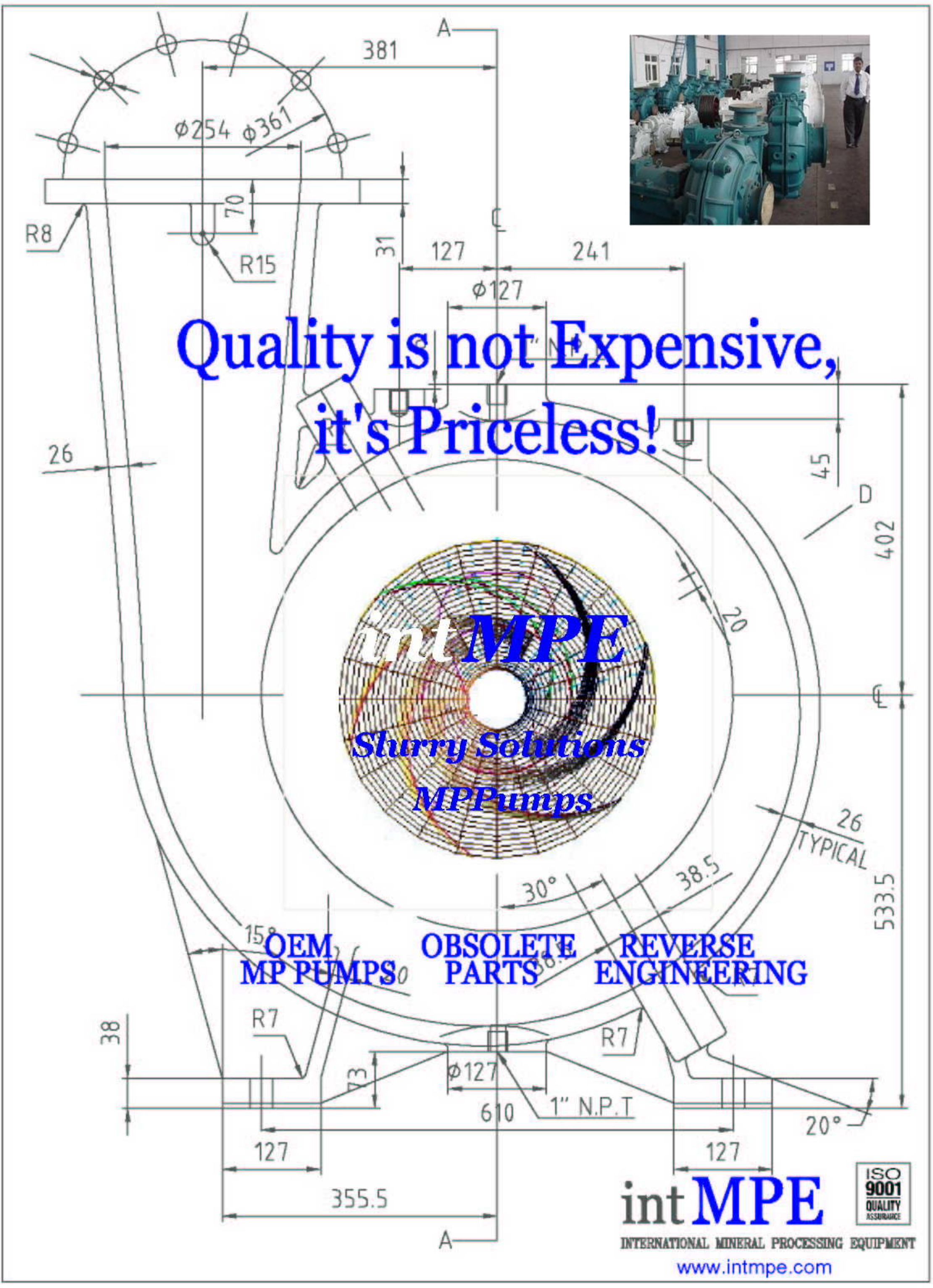
intMPE
Slurry Solutions
MPPumps

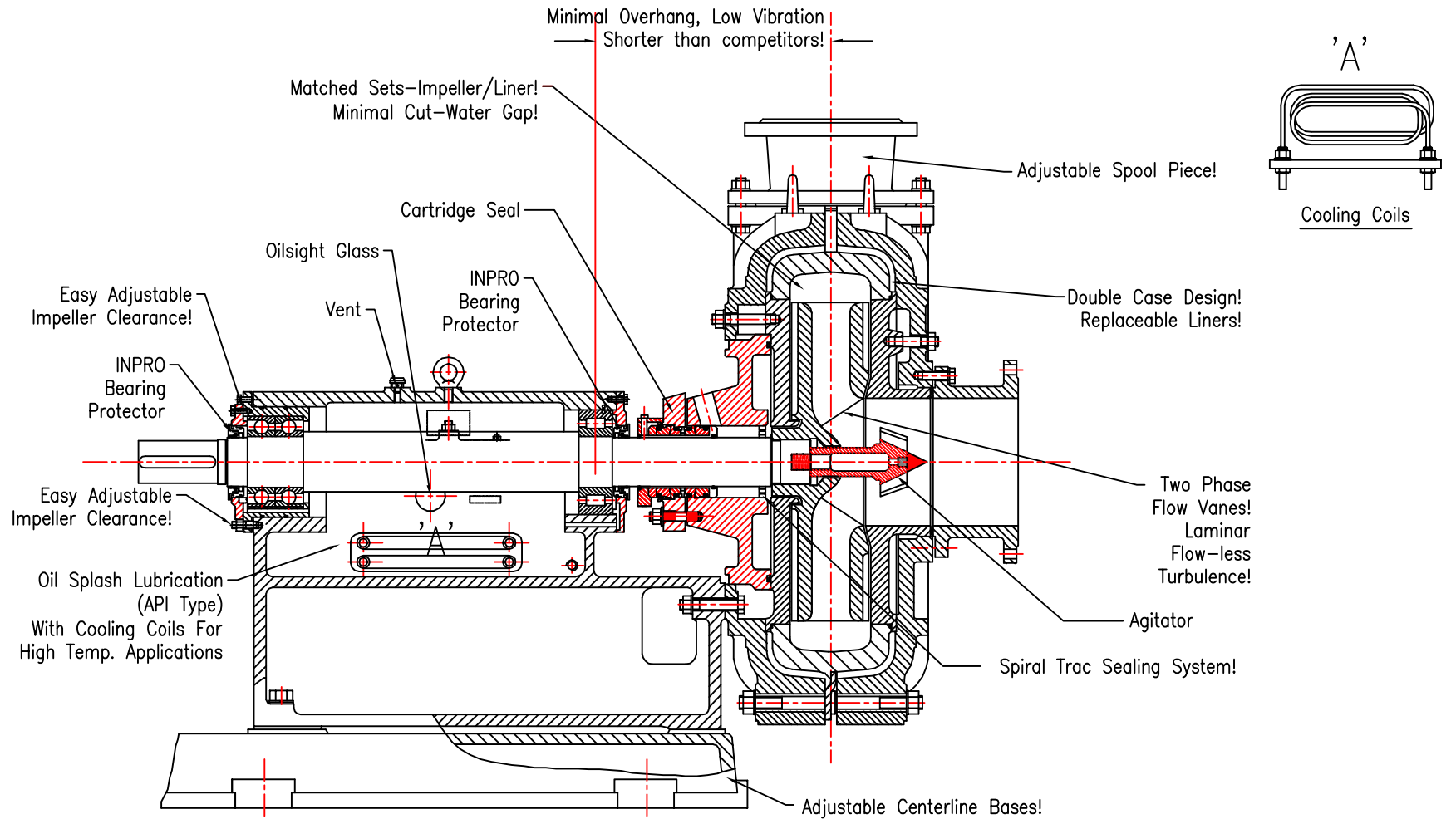
OEM MP PUMPS **OBSOLETE PARTS** **REVERSE ENGINEERING**

intMPE

INTERNATIONAL MINERAL PROCESSING EQUIPMENT

www.intmpe.com





80MPLHSPA42

intMPE Advanced Engineered Pumps

SERIES(MPP) MINERAL PROCESSING PUMP

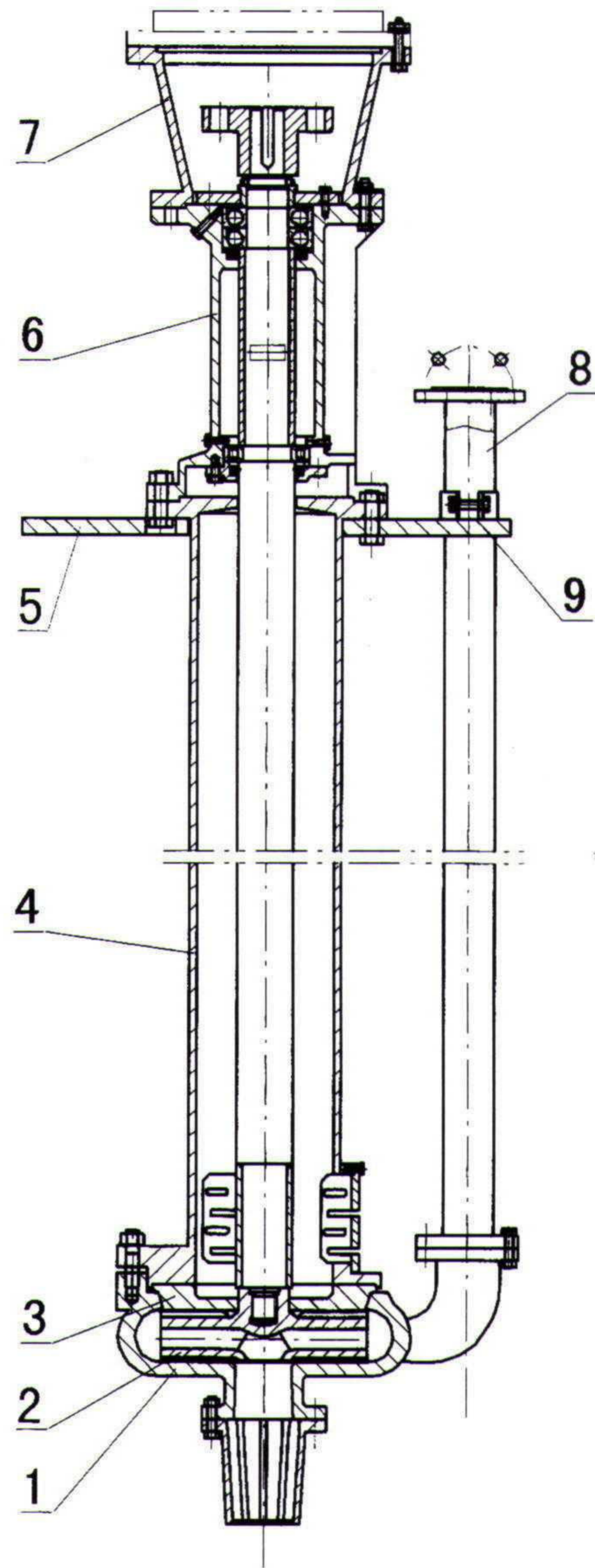
MATERIAL:	SVRL	intMPE International Mineral Processing Equipment	
CODE:			
DRAWN BY:	J. STROME	ITEM: CE412930 SLUDGE PUMPS ASSEMBLY	
CHECKED BY:	J. LIU	DRAWING NO.:	
DATE:	JULY 15/2011	SCALE:	1715-C1
			NOT TO SCALE



Typical

ITEM	QTY	DESCRIPTION	BASIC PART No
1	1	BEARING ASSEMBLY	*005
2	4	CLAMP WASHER	*011
3	4	CLAMP BOLT	*012
4	1	GLAND ASSEMBLY	*044
5	2	GLAND BOLT	*045
6	2	SHAFT O-RING	*109
7	1	SHAFT SLEEVE	*075
8	4	PACKING	*111
9	1	LANTERN RESTRICTOR	*118
10	1	SHAFT SPACER	*117
11	1	IMPELLER O-RING	*064
12	1	IMPELLER BOSS CAP	*359
13	4	FRAME PLATE LINER STUD	*026
14	1	FRAME PLATE	*032
15	1	STUFFING BOX	*078
16	1	FRAME PLATE LINER	*036
17	1	IMPELLER - 5 VCG	*147
18	4	COVER PLATE BOLT	*015
19	1	COVER PLATE LINER	*018
20	1	THROATBUSH	*083
21	1	COVER PLATE	*013
22	2	COTTER	*085
23	1	ADJUSTING SCREW	*001
24	1	BASE	*003
25	3	FRAME PLATE STUD	*039

intMPE MPPLH ELASTOMER PUMPS



STRUCTURAL LAYOUT

1. Volute Casing

2. Impeller

3. Drive Side Plate

4. Column

5. Base Plate - Left

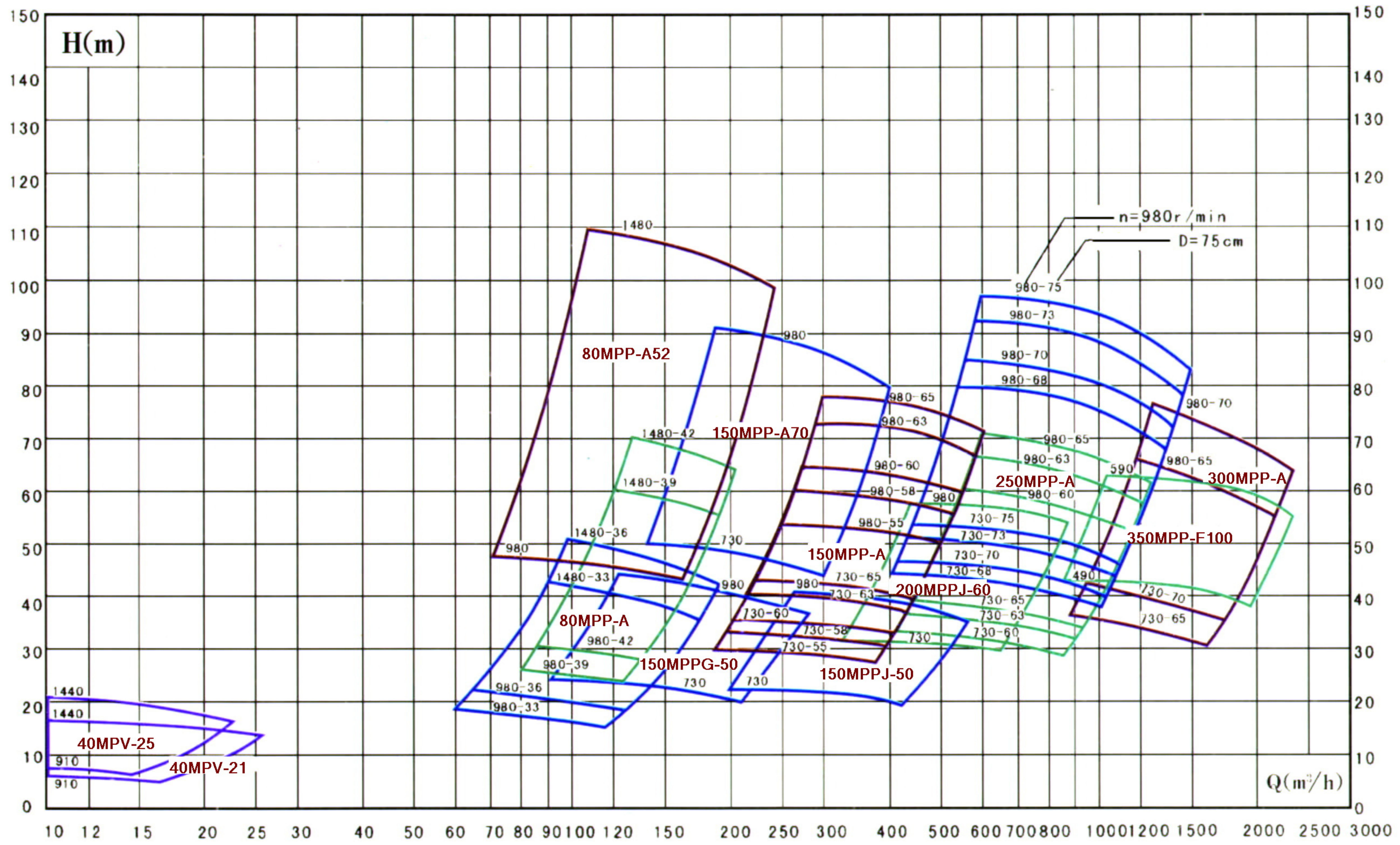
6. Pedestal

7. Motor Support

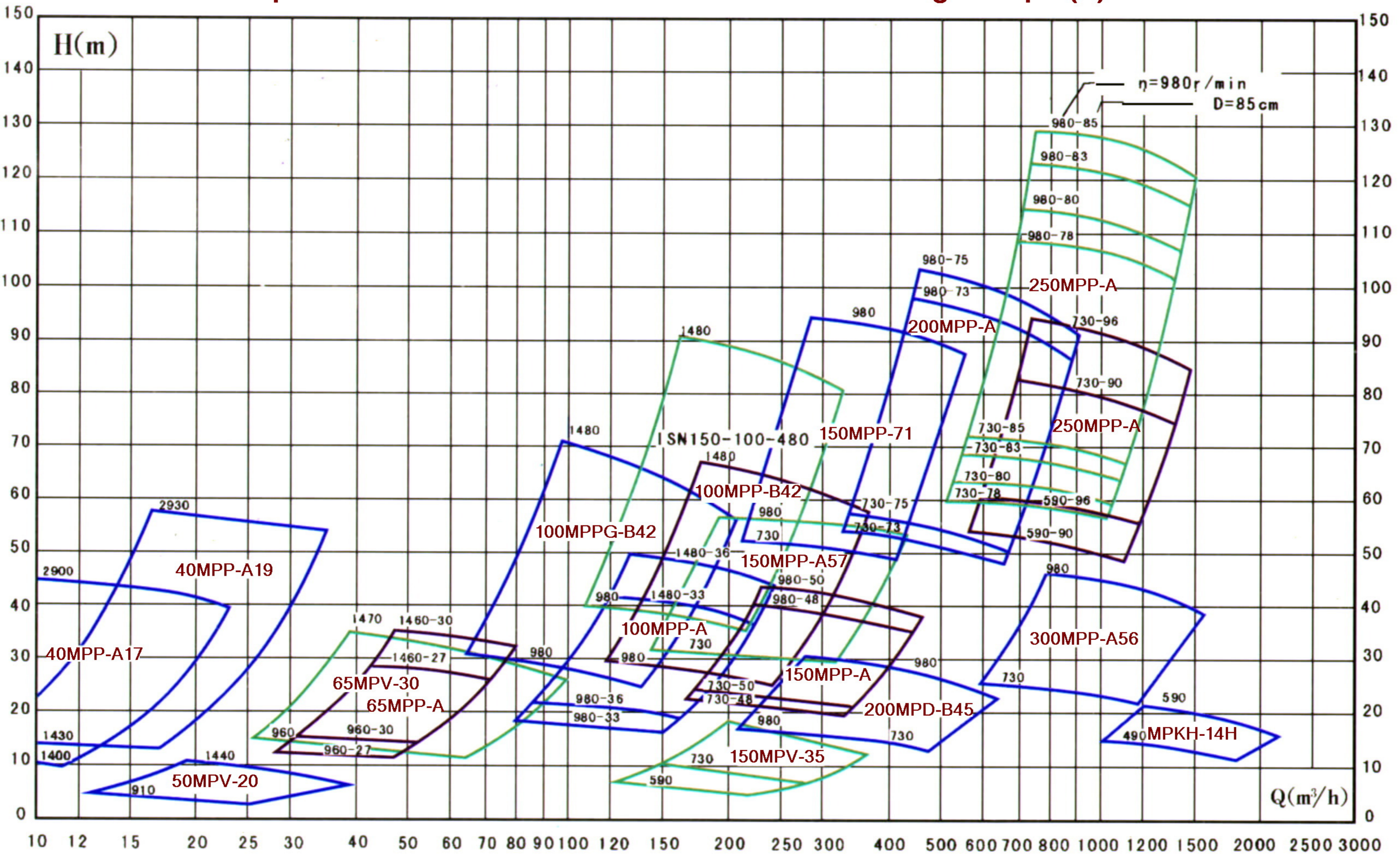
8. Discharge Pipe

9. Base Plate - Right

Graphical Performance of MPP Mineral Processing Pumps (1)



Graphical Performance of MPP Mineral Processing Pumps (3)



intMPE Pumps, a TRUE ADVANTAGE
TOTAL ENERGY SAVINGS OF 1000 HORSE POWER

	A	B	C	D	E	F	G	H	I	J	K
1	INTMPE MPP PUMPS	RPM	POWER (HP)	% EFFECIENCY	WARMAN AH & SP SERIES PUMPS	RPM	POWER (HP)	% EFFECIENCY	Pump Type	Capacity (USGPM)	Head (FT)
2	40ZMPL-A17	1075	2	33	40PV-SP	1100	2	10	Vertical	15	20
3	40ZMPL-A17	1345	10	29	40PV-SP	1800	10	25	Vertical	50	60
4	40MP-I-A17	1703	5	52	1.5/1 B-AH	1800	5	30	HORIZONTAL	30	50
5	400MP-I-A110	435	1500	75	16/14 ST-AH	450	1500	82	HORIZONTAL	12824	120
6	300MP-I-A56	724	350	81	14/12 ST-AH	360	350	75	HORIZONTAL	5000	70
7	300MP-I-A56	724	300	74	14/12 ST-AH	375	125	65	HORIZONTAL	3300	80
8	100MPL-A34	914	30	65	100 RV-SP	749	40	55	Vertical	600	40
9	100MP-I-A36	790	30	71.2	8/6 E-AH	507	125	53	HORIZONTAL	580	40
10	100MP-I-A36	820	40	72	8/6 E-AH	511	50	59	HORIZONTAL	730	40
11	500D-A70	500	400	86	8/6 E-AH	456	600	60	HORIZONTAL	15000	30
12	300MP-I-A56	590	150	70	10/8 ST-AH	446	150	70	HORIZONTAL	2400	50
13	80MP-I-A42	800	40	67	6/4 D-AH	831	40	65	HORIZONTAL	500	60
14	80MP-I-A36	825	20	68	6/4 D-AH	795	40	41	HORIZONTAL	300	50
15	65MP-I-A30	600	5	59	3/2 C-AH	1067	5	62	HORIZONTAL	100	30
16	150MP-I-A42	650	40	77	8/6 E-AH	503	60	50.6	HORIZONTAL	1300	30
17	65MP-I-A30	1093	25	63	6/4 D-AH	858	40	35	HORIZONTAL	250	60
18	65MP-I-A30	700	10	62	3/2 C-AH	1137	10	74	HORIZONTAL	200	30
19	80MP-I-A33	715	15	64	4/3 D-AH	990	20	66	HORIZONTAL	300	30
20	50MP-I-A33	1190	5	53	1.5/1 B-AH	1484	5	45	HORIZONTAL	50	30
21	50MP-I-A50	1370	250	42	4/3 E-HH	1337	300	37	HORIZONTAL	350	300
22	80MP-I-A36	1200	125	60	4/3 D-AH	2138	125	62	HORIZONTAL	500	150
23	80MP-I-A36	825	30	68	4/3 C-AH	1250	30	65	HORIZONTAL	350	50
24	65MPL-A30	840	10	53	65 QV-SP	873	15	51	Vertical	200	30
25	80MPL-A36	980	40	58	100 RV-SP	807	60	44	Vertical	400	50
26	300MP-I-A56	740	350	80	14/12 ST-AH	370	400	73	HORIZONTAL	4500	75
27	350XH-78	445	350	77	14/12 ST-AH	330	400	76	HORIZONTAL	7000	50
28	65MPL-A30	780	10	53	65 QV-SP	848	15	32	Vertical	200	25
29	150MP-I-A50	660	75	73	6/4 D-AH	976	100	56	HORIZONTAL	1000	60
30	80MPL-A36	1087	60	56	100 RV-SP	886	60	53	Vertical	600	60
31	150MPL-A35	750	40	67	150 SV-SP	523	75	39	Vertical	1150	25
33	65MP-I-A30	1000	10	63	3/2 C-AH	1407	10	72	HORIZONTAL	185	50
34	65MP-I-A30	980	7.5	62	3/2 C-AH	1387	10	69	HORIZONTAL	165	50
35	65MP-I-A30	980	7.5	62	3/2 C-AH	1387	10	69	HORIZONTAL	165	50
36	65MP-I-A30	980	7.5	62	3/2 C-AH	1387	10	69	HORIZONTAL	165	50
37	65MP-I-A30	980	7.5	62	3/2 C-AH	1387	10	69	HORIZONTAL	165	50
38	65MP-I-A30	1096	10	63	3/2 C-AH	1525	10	72	HORIZONTAL	200	60
39	65MPL-A30	840	10	53	65 QV-SP	873	15	51	HORIZONTAL	200	30
40	65MP-I-A30	980	7.5	62	8/6 E-AH	1387	10	69	HORIZONTAL	165	50
41	50MP-I-A33	1412	25	41	3/2 D-HH	2100	20	59	HORIZONTAL	165	120
42	50MP-I-A46	1260	75	33	3/2 D-HH	2708	40	57	HORIZONTAL	185	200
43	40MP-I-A17	2400	5	33.4	1.5/1B-AH	2580	7.5	22	HORIZONTAL	20	100
44	65MP-I-A30	1000	10	60	3/2 C-AH	1510	10	66	HORIZONTAL	165	60
45	40MPL-A25	1380	7.5	38	40 PV-SP	1800	10	31	HORIZONTAL	100	50
46	65MP-I-A30	1000	10	63	3/2 C-AH	1498	15	60	HORIZONTAL	200	60
47	40MPL-A25	1200	10	32	40 PV-SP	1697	15	26	Vertical	50	50
48	40MP-I-A17	1400	3	48	1.5/1 B-AH	1158	2	29	HORIZONTAL	20	20
49	40MP-I-A17	800	20	31	3/2 D-HH	1200	60	10	HORIZONTAL	50	200
50			Total 4055 HP Required				Total 5031.5 HP Required				

Monday, March 31, 2012

Re: Letter of Reference for intMPE, a Division of Canamera Enterprises Inc. of Edmonton, Alberta, Canada

To Whom It May Concern,

The product, support and responsiveness provided by intMPE over the past years has been exemplary.

Over the last few years the market conditions in the mining industry have changed dramatically offering opportunities not seen for over twenty five years. Based upon our experience, reputation and uncompromising integrity, we have been fortunate in participating in most of the project growth in the southwest USA market. Applications range from slurry to chemical process and flows and pressures from low to high. Utilizing intMPE's large bandwidth of quality pumping products positions us to be able to not only fully participate but to effectively quote as a single source supplier with better pricing, much better deliveries and with quality products.

An example of our success utilizing intMPE products was recently experienced at BHP Billiton Pinto Valley Operations in Arizona. The client needed to replace ten large horizontal split case centrifugal pumps for their plant water applications for their fifty million dollar restart project. They were quoted twenty eight weeks from Gould's and twenty eight days to ship from us for intMPE pumps that were of superior design and at a tremendous savings. We got the order and intMPE delivered as promised! BHP Billiton had their international freight forwarder take possession of said pumps in China and air freighted them to their Arizona project site all within one calendar month! The project started on time!

At this moment in time, we are quoting another mining project that I have been developing for over two years. This project will have approximately forty pumps carrying a value of over two and one half million dollars that will include but not be limited to Vertical Turbine, Horizontal Split Case, High Flow Self Priming Horizontal Centrifugal and ANSI pumps. Our entire pump proposal will be based on intMPE product. They can do it all with quality products at a competitive price with much better delivery!

After thirty plus years of representing major name brand recognizable manufacturers and living all of the common industry horror stories, it is an honor to represent intMPE, a company who recognizes what the market place needs and is delivering on their promise with quality products at a competitive price with realistic lead-times! I saved the best for last! IntMPE operates their business with the utmost and unwavering integrity that is based on principals long since forgotten by most organizations that I have represented over my career in this industry!

Respectfully,



Stuart Kass

VP Process Equipment Division

intMPE DESIGNS

Standard Operating Parameters :

A - Shaft Tolerances = $\pm .002''$ ($\pm .05\text{mm}$)

B - Bore Tolerances = $\pm .002''$ ($\pm .05\text{mm}$)

C - Cavity Width

D - Seal Into Bore Depth

E - Seal Width

F - Overall Diameter ($B + 1/4''$)

Total Eccentricity: .020" TIR (0.51mm)

Shaft Speed: Up to 5,000 fpm

Pressure: 0 psi

Temperature Range: -40° to 250° F (-40° to 121° C)
(Standard Materials)

Chamfer Width – CHa: .032" to .063" (0.81mm–1.6mm)

Bore Width – CHb: .032" to .063" (0.81mm–1.6mm)

Compatibility: Compatible with most bore and shaft materials

Material Availability

Graphite-reinforced PTFE

Mineral-reinforced PTFE

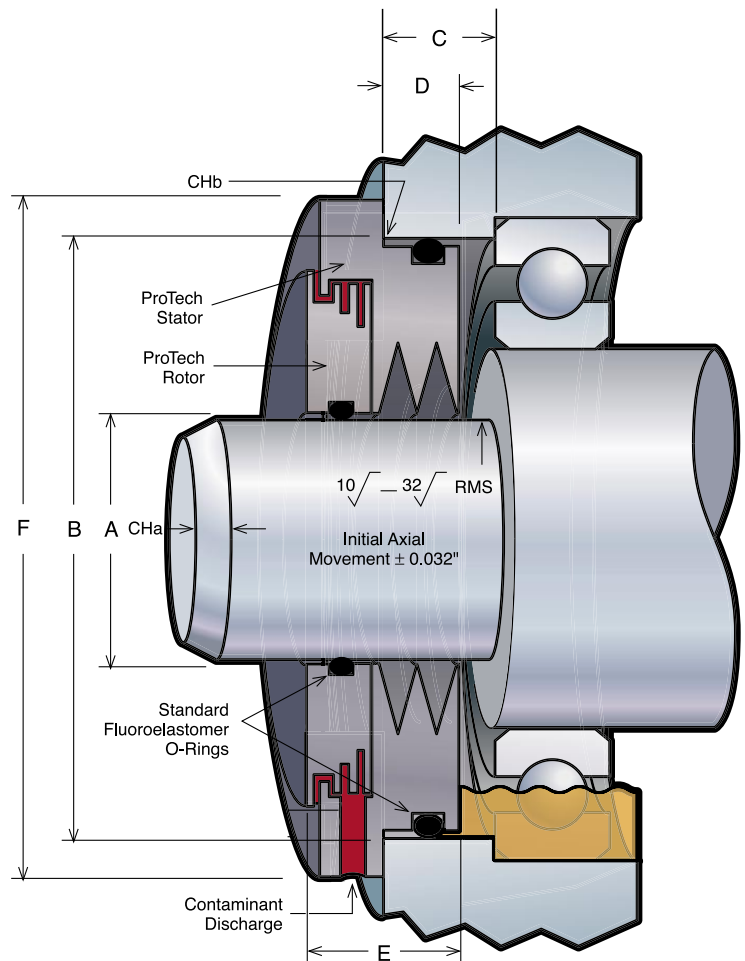
Stainless steel-reinforced PTFE

Bronze-reinforced PTFE

New high-temp and large-diameter reinforced PTFE

Flanged Design – LS

- Single expulsion port
- External flange
- Non-contact



intMPE BEARING PROTECTORS

INTERNATIONAL WHITE IRONS & INTERCHANGE INFORMATION

It is Company Policy to supply cast components conforming to British and International standards and/or customers specifications. Quality controls and systems ensure conformity with these and will, as a minimum requirement, be in accordance with BS.EN.ISO 9002:1994, and will also embrace additional customer specific requirements as and when identified.

BS EN 1561 : 1997 FLAKE GRAPHITE IRONS

Used for general engineering castings requiring moderate strength and no ductility.

BS EN 1563 : 1997 NODULAR IRONS

Used for general engineering castings requiring greater strength and toughness than flake graphite iron castings.

BS4844 : 1986 ABRASION RESISTANT IRONS

Used in applications where abrasion resistance or high hardness is required i.e slurry pumps, grinding balls and earth moving equipment.

BS3468 : 1986 NI-RESIST IRONS

Used in applications where corrosion and/or heat resistance is desirable e.g valve equipment for use in corrosive environments such as salt water or the chemical industry.

BS3100 : 1991 CARBON STEELS

Used for general engineering castings.

CUSTOMERS OWN SPECIFICATIONS

We will produce to additional customer specifications if required.

INTERNATIONAL STANDARDS

We can produce to any International standard as required. Full details can be provided on request.

NATIONAL STANDARD	FLAKE IRONS	NODULAR IRONS	AUSTENITIC IRONS	WHITE IRONS	COMPACTED GRAPHITE IRONS
UK	BSEN 1561 1997	BSEN 1563 1997	BS 3468 1986	BS 4844 1986	
FRANCE	NF A32-101	NF A32-201	NF A32-301	NF A32-401	
GERMANY	DIN 1691	DIN 1693	DIN 1694	DIN 1695	
ITALY	UNI 5007	UNI 4544			
JAPAN	JIS.G. 5501	JIS.G. 5502			
USA (Canada)	ASTM A48	ASTM A536	ASTM A436 ASTM A439	ASTM A532	ASTM A482
NORWAY	NS11 100	NS 11 301			
SWEDEN	SS 1401	SS 14 07 17		SIS 14 04 57	
		SS 14 07 27	SIS 14 05 23	SIS 14 04 66	
		SS 14 07 32	SIS 14 07 76	SIS 14 05 12	
		SS 14 07 37		SIS 14 05 13	
DENMARK	DS 11 301	DS 11 303			

The material specifications detailed above reflect our range of flexibility and diversity. They are not exhaustive and represent a cross section of our melting range. Should you require further information regarding material availability, our Technical Department will be pleased to assist.