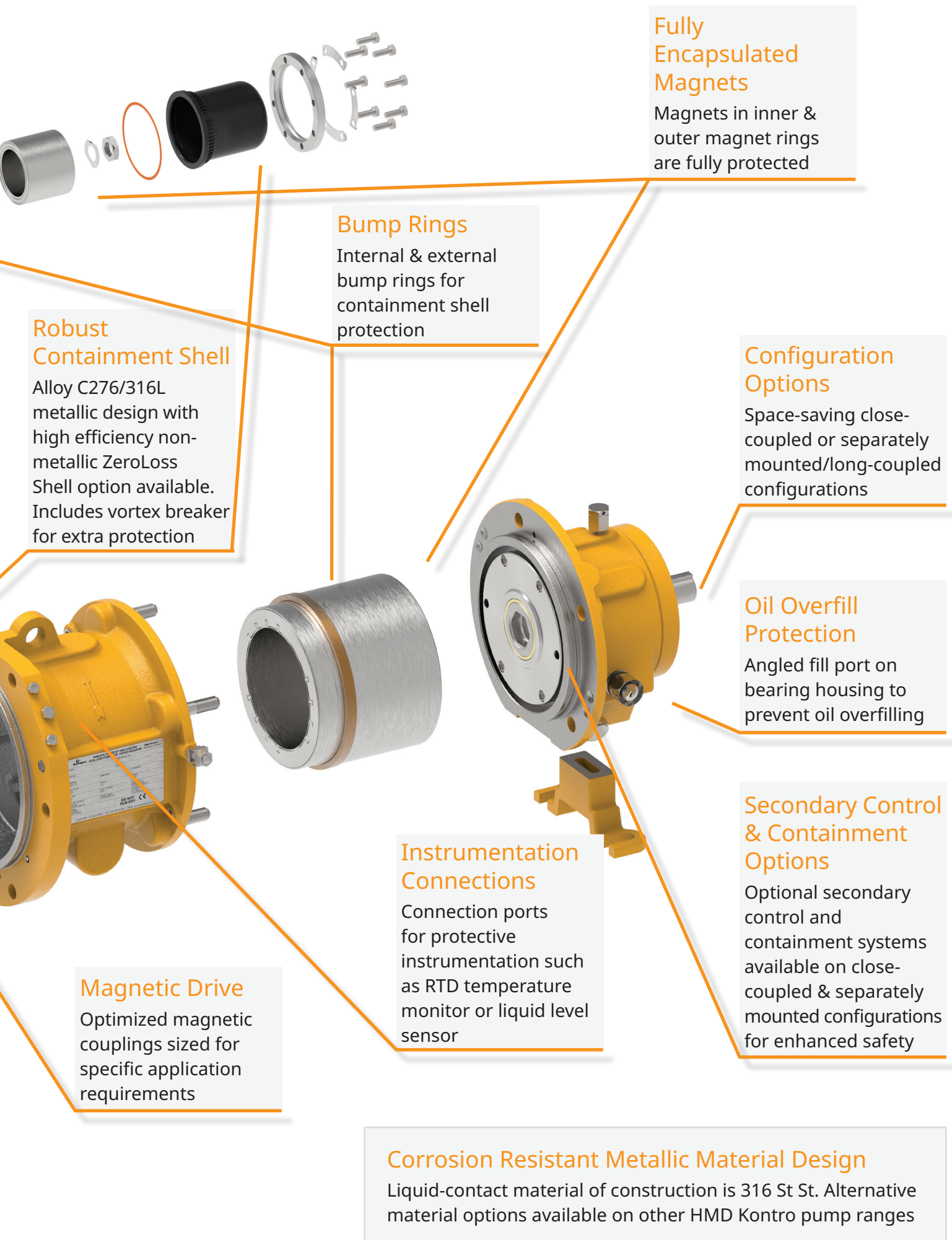




PART LIST

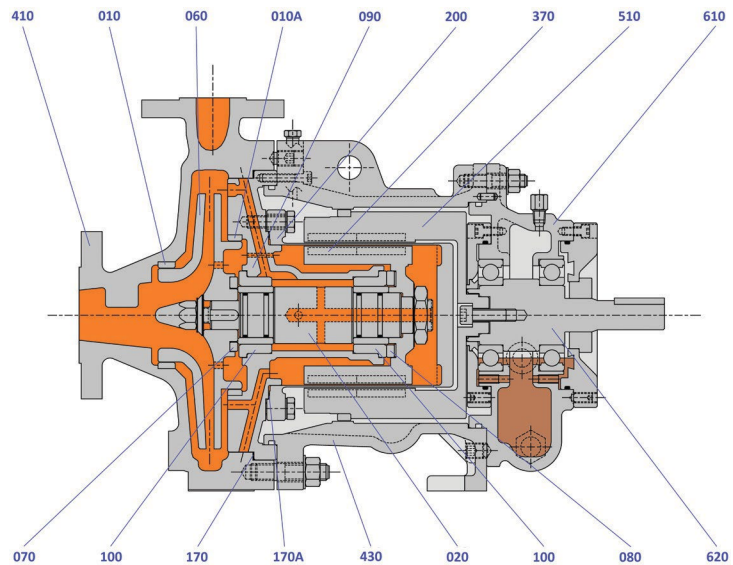
HMD Kontro Sealless Magnetic Drive Pumps





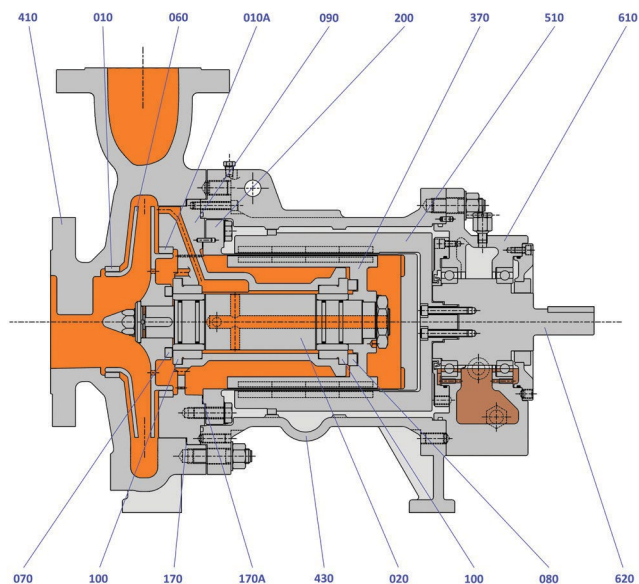
Construction of the CSA Frame 1 Pump Range

010	Neck Ring (Front)	316LStSt
010A	Neck Ring (Back)	316LStSt
020	Pump Shaft	316LStSt
060	Impeller	316LStSt
070	Front Thrust Washer	Silicon Carbide
080	Back Thrust Washer	Silicon Carbide
090	Bush Holder	316LStSt
100	Bush	Silicon Carbide
170	Casing Gasket	CSF
170A	Shell Gasket	CSF
200	Containment Shell	Alloy C / 316L
370	Inner Magnet Ring	316L St St Clad
410	Casing	316LStSt
430	Coupling Housing	SG Iron
510	Outer Magnet Ring	C. Steel (Sheathed)
610	Bearing Housing	SG Iron
620	Drive Shaft	Carbon Steel



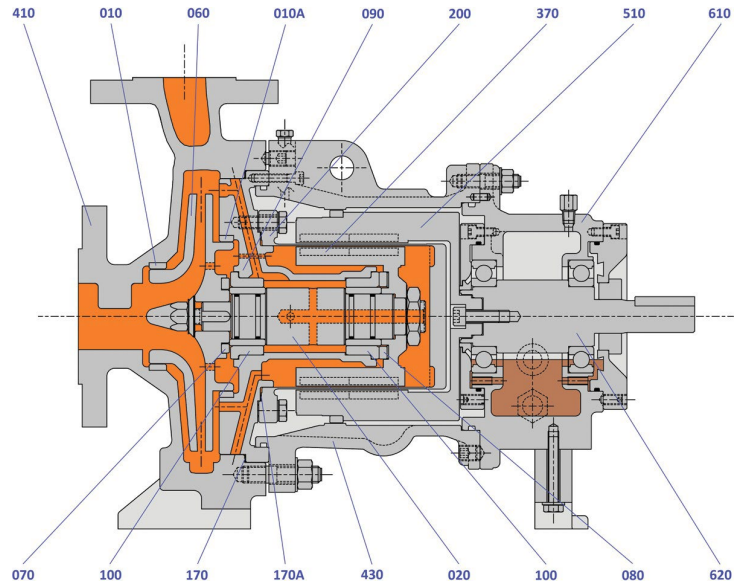
Construction of the CSA Frame 2 Pump Range

010	Neck Ring (Front)	316LStSt
010A	Neck Ring (Back)	316LStSt
020	Pump Shaft	316LStSt
060	Impeller	316LStSt
070	Front Thrust Washer	Silicon Carbide
080	Back Thrust Washer	Silicon Carbide
090	Bush Holder	316LStSt
100	Bush	Silicon Carbide
170	Casing Gasket	CSF
170A	Shell Gasket	CSF
200	Containment Shell	Alloy C / 316L
370	Inner Magnet Ring	316L St St Clad
410	Casing	316LStSt
430	Coupling Housing	SG Iron
510	Outer Magnet Ring	C. Steel (Sheathed)
610	Bearing Housing	SG Iron
620	Drive Shaft	Carbon Steel



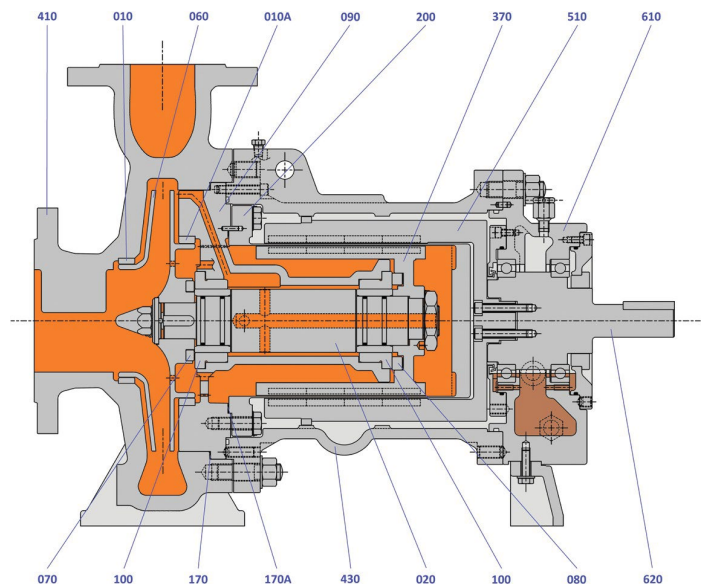
Construction of CSI Frame 1 Pump

010	Neck Ring (Front)	316LStSt
010A	Neck Ring (Back)	316LStSt
020	Pump Shaft	316LStSt
060	Impeller	316LStSt
070	Front Thrust Washer	Silicon Carbide
080	Back Thrust Washer	Silicon Carbide
090	Bush Holder	316LStSt
100	Bush	Silicon Carbide
170	Casing Gasket	CSF
170A	Shell Gasket	CSF
200	Containment Shell	Alloy C / 316L
370	Inner Magnet Ring	316L St St Clad
410	Casing	316LStSt
430	Coupling Housing	SG Iron
510	Outer Magnet Ring	C. Steel (Sheathed)
610	Bearing Housing	SG Iron
620	Drive Shaft	Carbon Steel

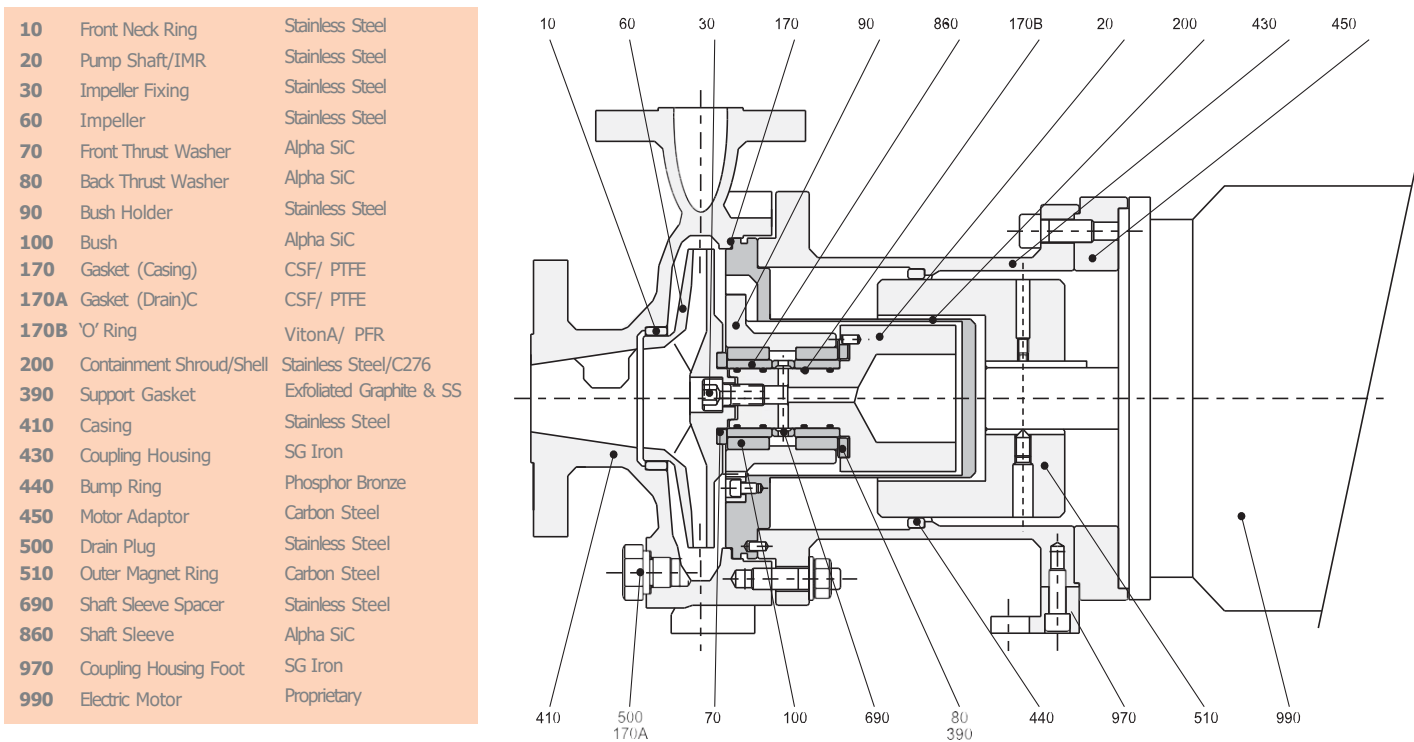


Construction of CSI Frame 2 Pump

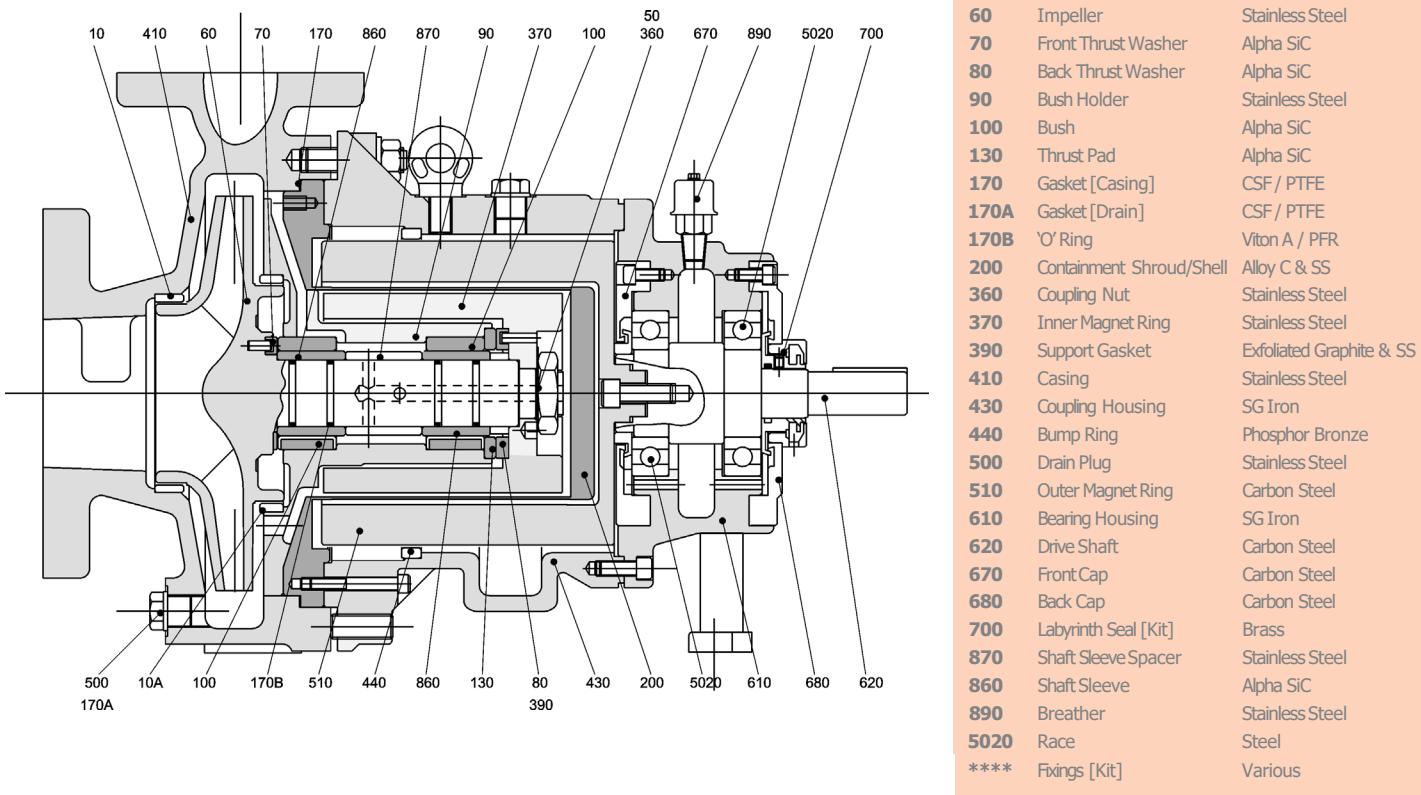
010	Neck Ring (Front)	316LStSt
010A	Neck Ring (Back)	316LStSt
020	Pump Shaft	316LStSt
060	Impeller	316LStSt
070	Front Thrust Washer	Silicon Carbide
080	Back Thrust Washer	Silicon Carbide
090	Bush Holder	316LStSt
100	Bush	Silicon Carbide
170	Casing Gasket	CSF
170A	Shell Gasket	CSF
200	Containment Shell	Alloy C / 316L
370	Inner Magnet Ring	316L St St Clad
410	Casing	316LStSt
430	Coupling Housing	SG Iron
510	Outer Magnet Ring	C. Steel (Sheathed)
610	Bearing Housing	SG Iron
620	Drive Shaft	Carbon Steel



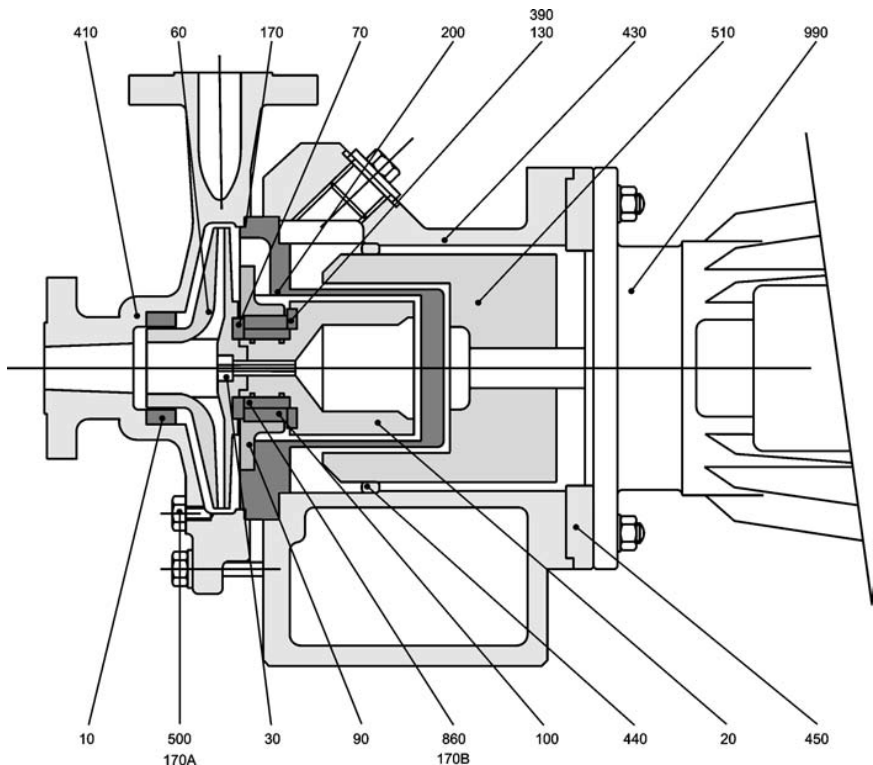
Construction of GSA/GSI frame 0



Construction of GSA/GSI frame I pumps

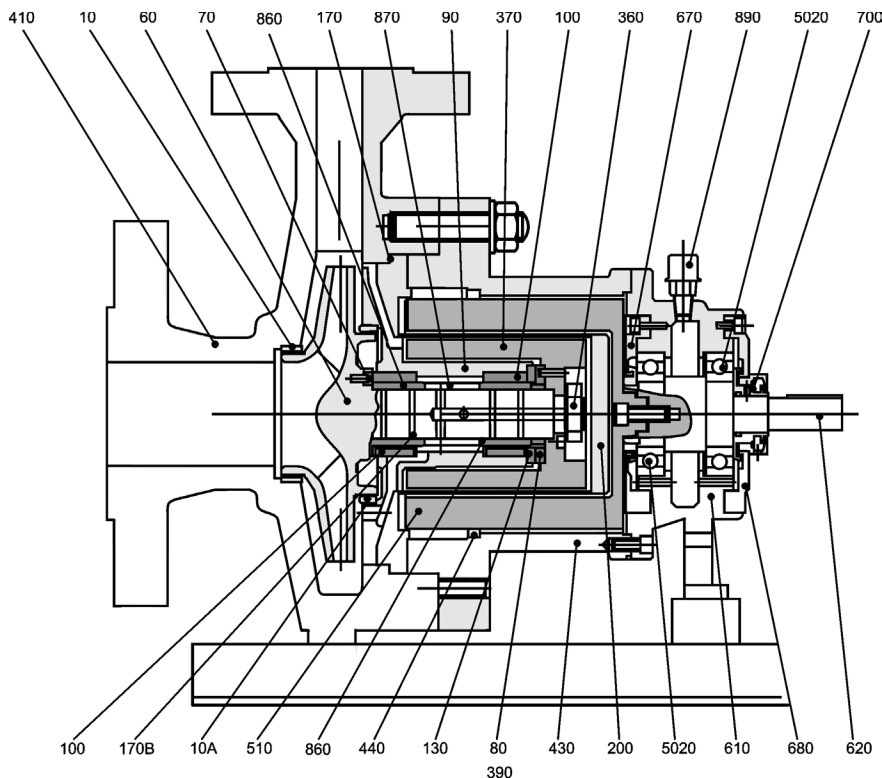


Construction of GT Pumps



10	Neck Ring [Front]	316 Stainless Steel
20	Shaft / Inner Magnet Ring	316 Stainless Steel
30	Impeller Fixing	316 Stainless Steel
60	Impeller	316 Stainless Steel
70	Front Thrust Washer	Alpha SiC
90	Bush Holder	316 Stainless Steel
100	Bush	Alpha SiC
130	Thrust Pad	Alpha SiC
170	Casing Gasket	CSF
170A	Drain Gasket [Optional]	CSF
170B	'O' Ring	Viton A
200	Containment Shroud/Shell	316L Stainless Steel
390	Support Gasket	Exfol. Graphite
410	Casing	316 Stainless Steel
430	Coupling Housing	SG Iron
440	Coupling Hsg. Bump Ring	Phos. Bronze
450	Motor Adaptor	Carbon Steel
500	Pump Drain [Optional]	316 Stainless Steel
510	Outer Magnet Ring	Carbon Steel
860	Bearing Sleeve	Alpha SiC
990	Bearing Sleeve	Alpha SiC
***	Electric Motor	Proprietary
	Fixings Kit	

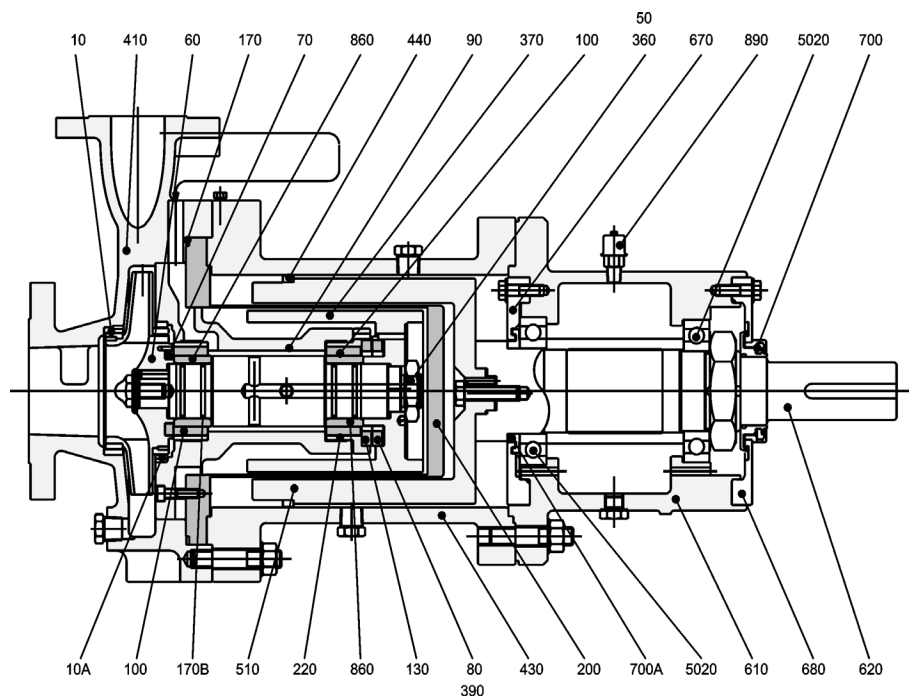
Construction of HPGS range



10	Neck Ring (Front)	Stainless Steel
10A	Neck Ring (Back)	Stainless Steel
50	Coupling Washer	Stainless Steel
60	Impeller	Stainless Steel
70	Front Thrust Washer	Alpha SiC
80	Back Thrust Washer	Alpha SiC
90	Bush Holder (150°C/300°F)	Stainless Steel
100	Bush	Alpha SiC
130	Thrust Pad	Alpha SiC
170	Casing Gasket	SS / Graphite
170B	'O' Ring	Viton A
200	Containment Shroud/Shell	SS / Alloy 625
360	Coupling Nut	Stainless Steel
370	Inner Magnet Ring	Stainless Steel
390	Support Gasket	Graphite & Nickel
410	Casing	Stainless Steel
430	Coupling Housing	SG Iron
440	Bump Ring	Phosphor Bronze
510	Outer Magnet Ring	Carbon Steel
610	Bearing Housing	SG Iron
620	Drive Shaft	Carbon Steel
670	Front Cap	Carbon Steel
680	Back Cap	Carbon Steel
700	Labyrinth Seal (Kit)	Brass
860	Shaft Sleeve	Alpha SiC8
890	Shaft Sleeve Spacer	Stainless Steel
5020	Breather	Stainless Steel
	Race	Steel

Seperate mounted model shown

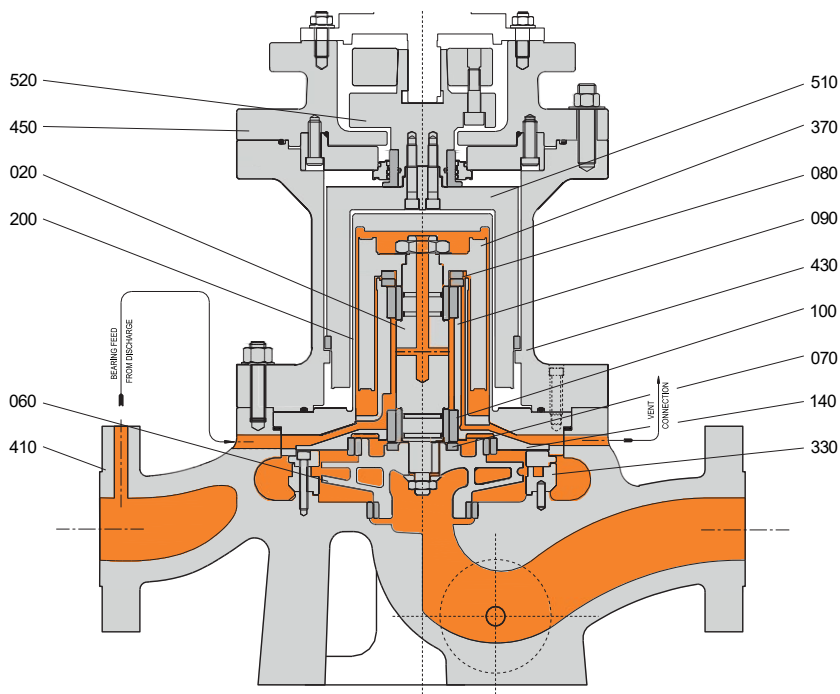
Construction of GSP frames I & II



10	Neck Ring [Front]	Stainless Steel
10A	Neck Ring [Back]	Stainless Steel
50	Coupling Washer	Stainless Steel
60	Impeller	Stainless Steel
70	Front Thrust Washer	Alpha SiC
80	Back Thrust Washer	Alpha SiC
90	Bush Holder	Stainless Steel
100	Bush	Alpha SiC
130	Thrust Pad	Alpha SiC
170	Casing Gasket	CSF
170B	O' Ring	Viton A
200	Containment Shroud	Alloy C & SS
220	Rear Bush Housing	Stainless Steel
360	Coupling Nut	Stainless Steel
370	Inner Magnet Ring	Exfoliated Graphite & SS
390	Support Gasket	Stainless Steel
410	Casing	Carbon Steel
430	Coupling Housing	Phosphor Bronze
440	Bump Ring	Carbon Steel
510	Outer Magnet Ring	Carbon Steel
610	Bearing Housing	Carbon Steel
620	Drive Shaft	Carbon Steel
670	Front Cap	Carbon Steel
680	Back Cap	Brass
700	Labyrinth Seal [Kit]	Proprietary
700A	Shaft Sleeve	Alpha SiC
860	Breather	Stainless Steel
890	Race	Steel
5020	Fixings [Kit]	Various

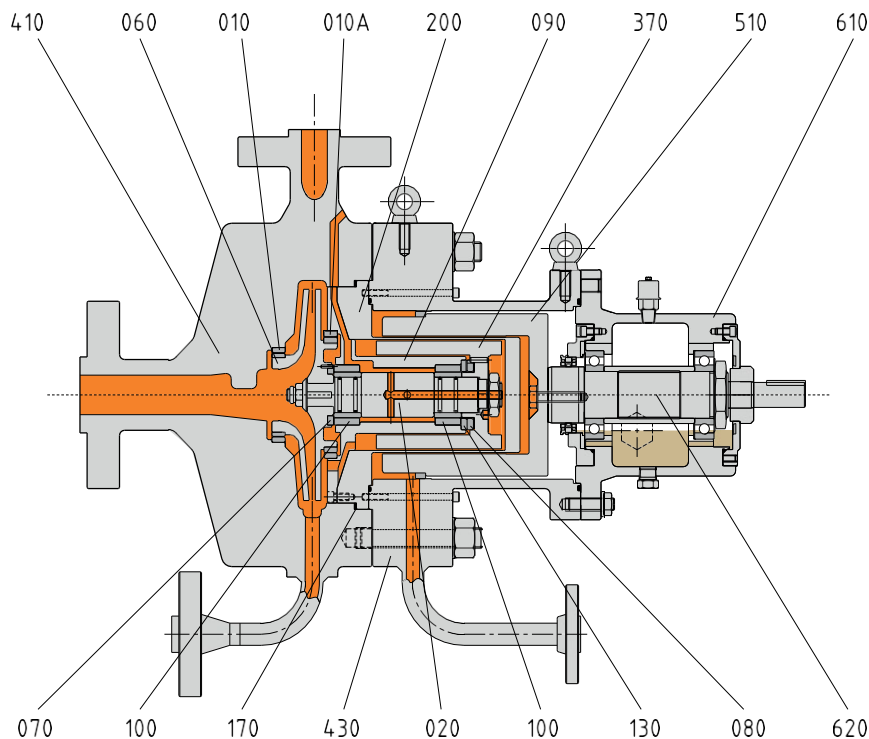
Construction of GSPV pump

Illustration shows a Frame 1 pump (20E 2x2x6)



020	Pump Shaft
060	Impeller
070	Thrust Washer (Front)
080	Thrust Washer (Back) / Alignment Pad
090	Bush Holder Assembly
100	Bush
140	Casing Plate
200	Containment Shell Assembly
330	Diffuser
370	Inner Magnet Ring
410	Casing Assembly
430	Coupling Housing Assembly
450	Motor Adaptor
510	Outer Magnet Ring
520	Drive Flange Adaptor

Construction of HPGSP pump



010	Neck Ring (Front)
010A	Neck Ring (Back)
020	Pump Shaft
060	Impeller
070	Thrust Washer (Front)
080	Thrust Washer (Back) / Alignment Pad
090	Bush Holder Assembly
100	Bush
130	Thrust Pad
170	Casing Gasket
200	Containment Shell Assembly
370	Inner Magnet Ring
410	Casing Assembly
430	Coupling Housing Assembly
510	Outer Magnet Ring
610	Bearing Housing
620	Drive Shaft

Flanges and Connections

Casing

Suction and discharge flanges are designed in accordance with the following relevant standards:

ANSI B16.5 Class 600	Machined with 7mm (1/4") high raised face having a continuous spiral groove
ANSI B16.5 Class 900	Machined with 7mm (1/4") high raised face having a continuous spiral groove
ANSI B16.5 Class 1500	Machined with 7mm (1/4") high raised face having a continuous spiral groove

Flange Loadings

Allowable flange loadings imposed by pipework are in accordance with Table 4 of API 685 2nd edition.

Drain Connections

The following drain options are available:

Frame 1 - 1/2" Pipe with Weld Neck Flange, gusseted in two planes.

Frame 2 - 3/4" Pipe with Weld Neck Flange, gusseted in two planes.

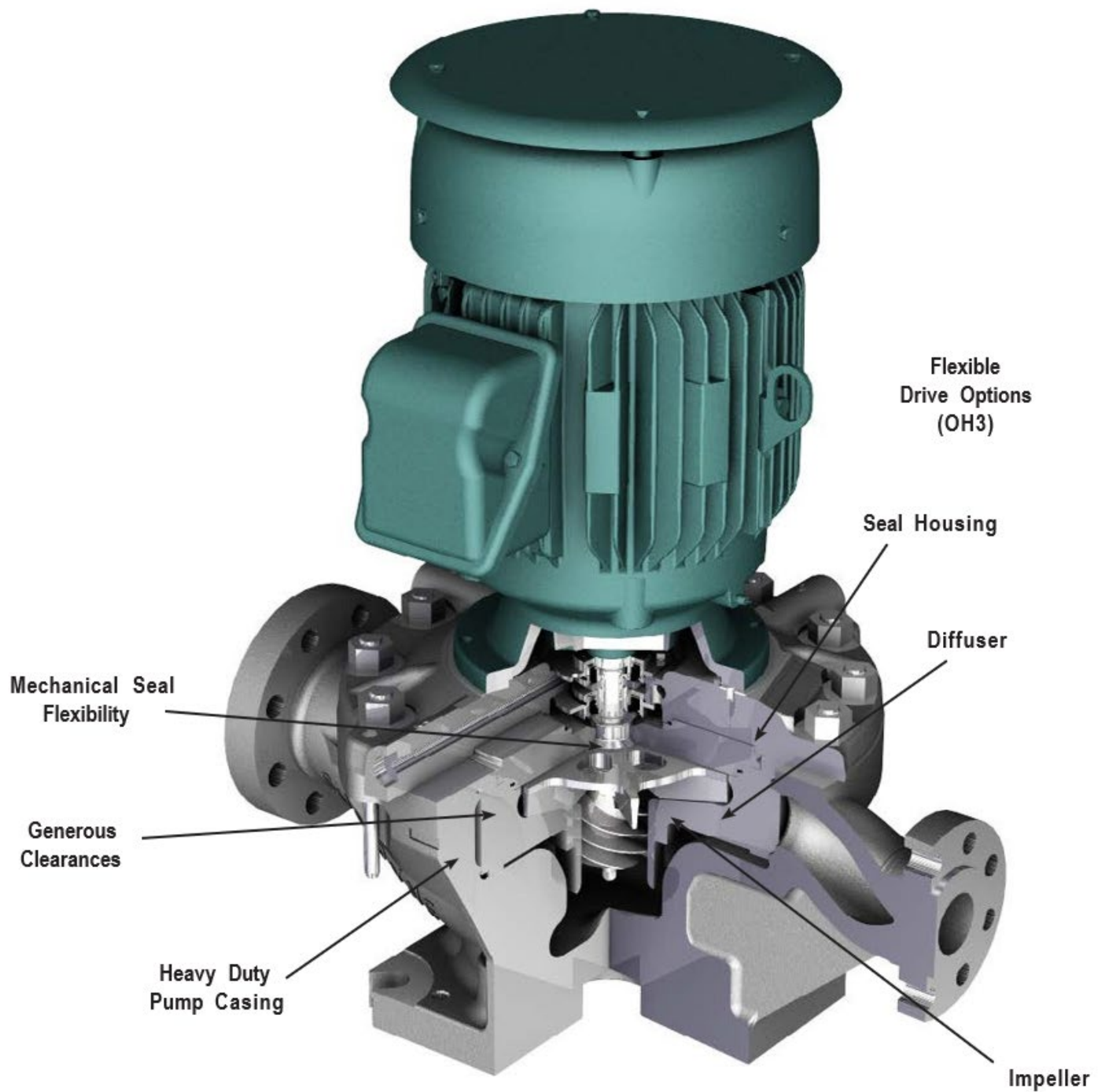
Vent Connections

Not required.

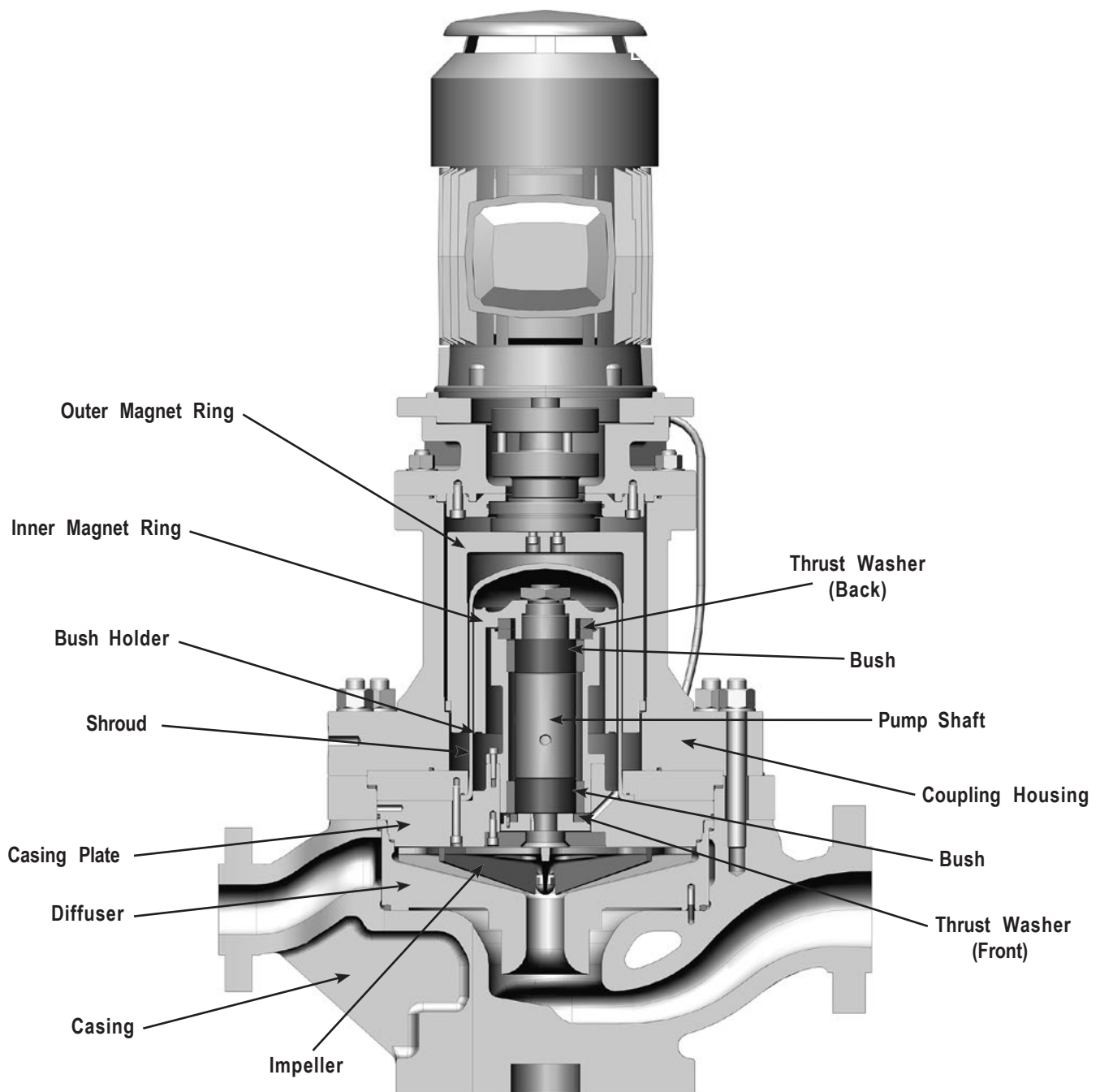
Gauge Connections

No provision for gauge connections has been made on this range of pumps.

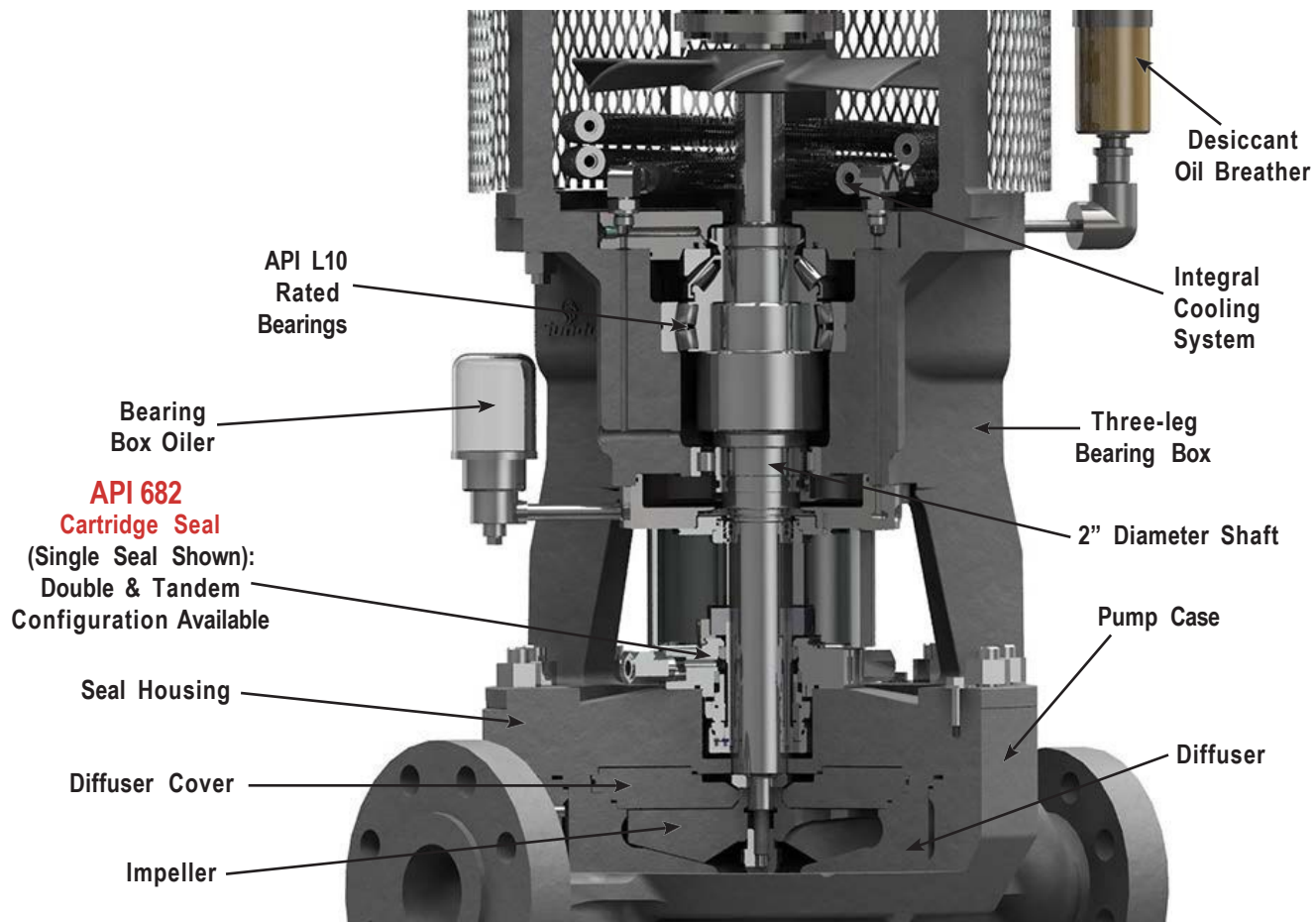
LMV-801



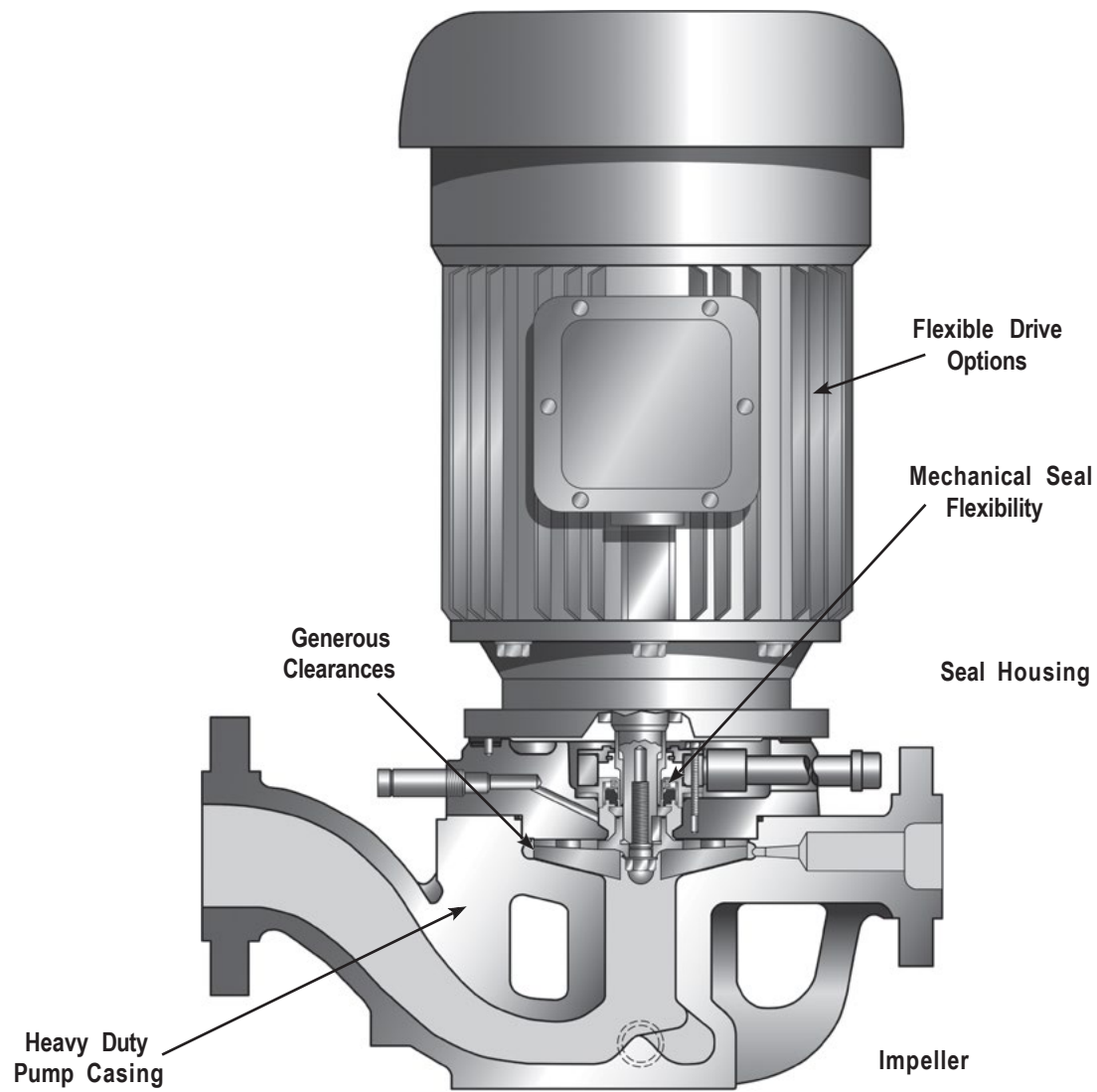
LMV-801S



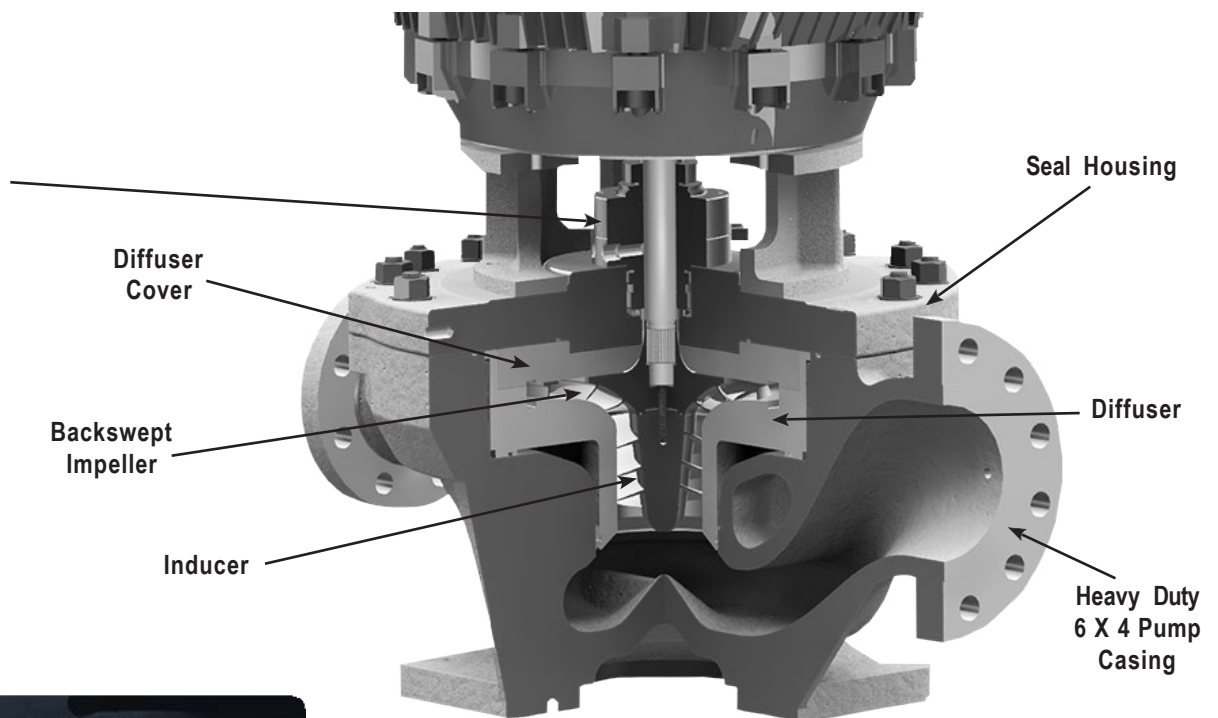
LMV-801CS



LMV-802



LMV-803Lr



:
Sundyne innovation delivers broad(er) inducer technology for low NPSHr associated with the gas plant and NGL services.

LMV-806

