

1. General data

This datasheet is created for collection of all relevant information for a complete technical offer for main compressor wear parts / modifications. Please select the product(s) requested and fill in the data on the chapters in the brackets. Information marked with * are mandatory. E-mail shanghai.jwu@outlook.com for more informaton.

Valves (1.) (2.)	<input type="checkbox"/>	Piston & Rider rings (1.) (3.)	<input type="checkbox"/>
Main packing complete (1.) (5.)	<input type="checkbox"/>	Main packing rings (1.) (4.)	<input type="checkbox"/>
Intermediate packing complete (1.) (7.)	<input type="checkbox"/>	Intermediate packing rings (1.) (6.)	<input type="checkbox"/>
Oil packing complete (1.) (9.)	<input type="checkbox"/>	Oil packing rings (1.) (8.)	<input type="checkbox"/>
Actuators (none) (1.) (2.) (10.)	<input type="checkbox"/>	Lubricators (none) (1.) (11.)	<input type="checkbox"/>

Compressor user		Compressor type	
Country		Serial no.	
Application		Customer Tag no.	

Available original compressor documents				
API Datasheet	<input type="checkbox"/> Manual	<input type="checkbox"/> P&ID	<input type="checkbox"/> Drawings	<input type="checkbox"/>

Compressor data				
Units	Dimensions	<input type="checkbox"/> mm	<input type="checkbox"/> inch es	
	Pressures	<input type="checkbox"/> bar a <input type="checkbox"/> bar g <input type="checkbox"/> MPa a	<input type="checkbox"/> psi a	<input type="checkbox"/> psi g
	Temperatures	<input type="checkbox"/> °C	<input type="checkbox"/> °F	

Cylinder design *	<input type="checkbox"/> lube	<input type="checkbox"/> non-lube
-------------------	-------------------------------	-----------------------------------

Stage (HE = Head End, CE = Crank End)	1	2	3	4	5	6
Compressor speed [rpm] *						
Stroke *						
Cylinders per stage *						
Cylinder bore Ø *						
Piston rod diameter Ø *						
"D"ouble or "S"ingle acting (if S: HE or CE) *						
Volumetric clearance HE / CE [%]	/	/	/	/	/	/

Operating data

Flow	<input type="checkbox"/> m3/h <input type="checkbox"/> Nm3/h <input type="checkbox"/> kg/h	Power consumption [kW]	
------	--	------------------------	--

Stage	1	2	3	4	5	6
Suction pressure *						
Suction temperature *						
Discharge pressure *						
Discharge temperature *						

	Rev.	Dat.	Sig.	Replacement for Revision / date	Page 1 of 11
WJQ / Prepared	A	13.09.2019			
YXP / Reviewed		13.09.2019			
ZLP / Approval		21.09.2019			

Gas analysis						
Gas composition * (in <input type="checkbox"/> Vol.% or <input type="checkbox"/> Wt.%)	%					
Stage	1	2	3	4	5	6
Total molecular weight [g/mol]						
Corrosives	<input type="checkbox"/> Yes			<input type="checkbox"/> No		
Sticky build-up	<input type="checkbox"/> Yes			<input type="checkbox"/> No		
Wet gas	<input type="checkbox"/> Yes			<input type="checkbox"/> No		
Liquids	<input type="checkbox"/> Yes			<input type="checkbox"/> No		
Solid debris	<input type="checkbox"/> Yes			<input type="checkbox"/> No		

General compressor sketch, comments

Filled out by	
Name	Date
Phone no. / E-mail	

	Rev.	Dat.	Sig.	Replacement for	Page 2 of 11
WJQ / Prepared	A	13.09.2019		Revision	
YXP / Reviewed		13.09.2019		/ date	
ZLP / Approval		21.09.2019			

2. Valves

General information	
Current valve type / brand	Current lifetime MTBO [h]

To complete the required data for valve quotation the dimensions of the original valves and the amount/type of valves per stage is required. For the valve dimension please send us the drawings of the currently installed valves or use the dimensional datasheet alternatively.

Valve dimensions*			
Option 1		Option 2	
Valve drawings available	<input type="checkbox"/>	No drawings available, proceed with (page 4)	<input type="checkbox"/>

Use below table to add the amount of valves per stage depending on the type of valve (CSV, SV, DV).

Amount of Valves per stage (CSV controlled suction valve; SV suction valve; DV discharge valve)*						
Stage	1	2	3	4	5	6
CSV						
SV						
DV						

	Rev.	Dat.	Sig.	Replacement for Revision / date	Page 3 of 11
WJQ / Prepared		13.09.2019			
YXP / Reviewed		13.09.2019			
ZLP/ Approval		21.09.2019			

Valve dimensions	
<input type="checkbox"/> Suction Valve with hanging guard	<input type="checkbox"/> Suction Valve with safety guard
<input type="checkbox"/> Discharge Valve with hanging guard	<input type="checkbox"/> Discharge Valve with safety guard

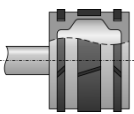
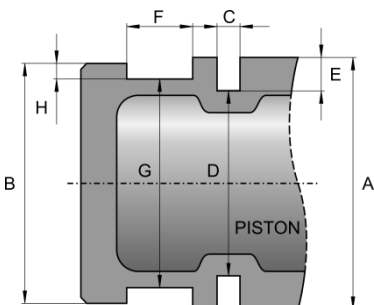
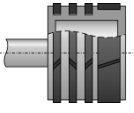
Existing valve design										
Stage	A	B	C	D	E	F	R	HA	HS	H
1 SV										
1 DV										
2 SV										
2 DV										
3 SV										
3 DV										
4 SV										
4 DV										
5 SV										
5 DV										
6 SV										
6 DV										

WJQ / Prepared	Rev. C	Dat. 13.09.2019	Sig.	Replacement for Revision / date	Page 4 of 11
YXP / Reviewed		13.09.2019			
ZLP / Approval		21.09.2019			

3. Piston and rider rings

General information		
Satisfied with current rings/lifetime	<input type="checkbox"/> yes <input type="checkbox"/> no	Current lifetime MTBO [h]
If not, what will be expected		Current ring material

Existing piston and rider ring design						
Stage	1	2	3	4	5	6
Standard "S" or Step piston "SP"						
"O"ne piece or "T"wo piece or "B"uilt up						
Cylinder inclination from horizontal [°]						
Liner material *						
Piston diameter A						
Slip over B						
Piston weight or length (without rod)						
Piston rod weight or length						
Tail rod weight						
Piston material (Cl, Al, ...)						
Cylinder heat dissipation (uncooled, cooling jacket)						
No. of piston rings *						
No. of rider rings *						
Piston ring groove axial * C						
Piston ring groove Ø * D						
Piston ring groove depth E						
Rider ring groove axial * F						
Rider ring groove Ø * G						
Rider ring groove depth H						
Current piston ring design						
Are the rider rings split? "Y"es or "N"o						

Placement of rider rings	Piston
stage 1 <input type="checkbox"/> stage 4 <input type="checkbox"/> stage 2 <input type="checkbox"/> stage 5 <input type="checkbox"/> stage 3 <input type="checkbox"/> stage 6 <input type="checkbox"/> 	
stage 1 <input type="checkbox"/> stage 4 <input type="checkbox"/> stage 2 <input type="checkbox"/> stage 5 <input type="checkbox"/> stage 3 <input type="checkbox"/> stage 6 <input type="checkbox"/> 	

WJQ / Prepared	Rev. A	Dat. 13.09.2019	Sig.	Replacement for Revision / date	Page 5 of 11
YXP / Reviewed		Dat. 13.09.2019			
ZLP / Approval		Dat. 21.09.2019			

4. Main packing rings

General information		
Satisfied with current rings/lifetime	<input type="checkbox"/> yes <input type="checkbox"/> no	Current lifetime MTBO [h]
If not, what will be expected		Current ring material

Existing packing ring design						
Stage	1	2	3	4	5	6
No. of pressure breakers						
No. of sealing elements						
No. of side loaded elements						
Rod coating / treatment *						
Rod material						

Cylinder side						
1. Cup depth A						
1. Cup ID (Ø B / C)	/	/	/	/	/	/
2. Cup depth A						
2. Cup ID (Ø B / C)	/	/	/	/	/	/
3. Cup depth A						
3. Cup ID (Ø B / C)	/	/	/	/	/	/
4. Cup depth A						
4. Cup ID (Ø B / C)	/	/	/	/	/	/
5. Cup depth A						
5. Cup ID (Ø B / C)	/	/	/	/	/	/
6. Cup depth A						
6. Cup ID (Ø B / C)	/	/	/	/	/	/
7. Cup depth A						
7. Cup ID (Ø B / C)	/	/	/	/	/	/
8. Cup depth A						
8. Cup ID (Ø B / C)	/	/	/	/	/	/
9. Cup depth A						
9. Cup ID (Ø B / C)	/	/	/	/	/	/
Crank side (Flange)						

Cooling *	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Vent *	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Buffer or purge gas *	<input type="checkbox"/> Yes <input type="checkbox"/> No	

WJQ / Prepared	Rev. C	Dat. 13.09.2019	Sig.	Replacement for Revision / date	Page 6 of 11
YXP / Reviewed		Dat. 13.09.2019			
ZLP / Approval		Dat. 21.09.2019			

5. Main packing complete

General information			
Satisfied with current rings/lifetime	<input type="checkbox"/> yes	<input type="checkbox"/> no	Current lifetime MTBO [h]
If not, what will be expected		Current ring material	

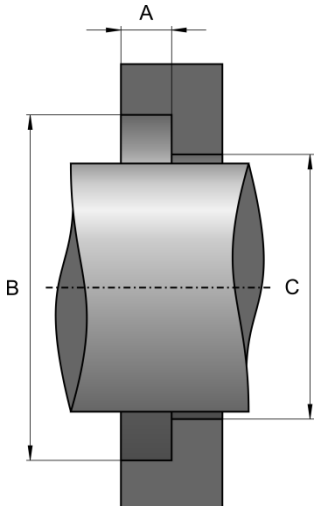
Existing main packing design							
Stage		1	2	3	4	5	6
No. of pressure breakers							
No. of sealing elements							
No. of side loaded elements							
Rod coating / treatment *							
Rod material							
Flange Ø *	A						
Stud hole PCD Ø *	B						
Bore Ø *	C						
Packing Ø *	D						
Packing recess Ø *	E						
Max. flange thickness *	F						
Max. Packing length *	G						
Distance	H						
Recess depth *	I						
Stud hole * Ø K / Quantity		/	/	/	/	/	/
L (Type / Dimension) *		/	/	/	/	/	/

Sketch	Cooling * <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, maximum allowable working pressure*
Hole pattern, position and dimensions of connections	Vent * <input type="checkbox"/> Yes <input type="checkbox"/> No Buffer or purge gas * <input type="checkbox"/> Yes <input type="checkbox"/> No

WJQ / Prepared	Rev. A	Dat. 13.09.2019	Sig.	Replacement for Revision / date	Page 7 of 11
YXP / Reviewed		Dat. 13.09.2019			
ZLP / Approval		Dat. 21.09.2019			

6. Intermediate packing rings

General information			
Satisfied with current rings/lifetime	<input type="checkbox"/> yes	<input type="checkbox"/> no	Current lifetime MTBO [h]
If not, what will be expected			Current ring material

Existing intermediate packing ring design			
No. of sealing elements		Vent *	<input type="checkbox"/> Yes <input type="checkbox"/> No
No. of side loaded elements			
Rod coating / treatment *			
Rod material			
Cylinder side			
1. Cup depth	A		
1. Cup ID	(Ø B / C) /		
2. Cup depth	A		
2. Cup ID	(Ø B / C) /		
3. Cup depth	A		
3. Cup ID	(Ø B / C) /		
Crank side			

	Rev.	Dat.	Sig.	Replacement for Revision / date	Page 8 of 11
WJQ / Prepared	A	13.09.2019			
YXP / Reviewed		13.09.2019			
ZLP / Approval		21.09.2019			

7. Intermediate packing complete

General information		
Satisfied with current rings/lifetime	<input type="checkbox"/> yes <input type="checkbox"/> no	Current lifetime MTBO [h]
If not, what will be expected		Current ring material

Existing intermediate packing design		
No. of sealing elements		Vent * <input type="checkbox"/> Yes <input type="checkbox"/> No
No. of side loaded elements		
Rod coating / treatment *		
Rod material		
Flange Ø *	A	
Stud hole PCD Ø *	B	
Bore Ø *	C	
Packing Ø *	D	
Max. flange thickness *	E	
Max. flange thickness *	F	
Stud hole * Ø G / Quantity	/	
H (Type / Dimension) *	/	

Sketch
Hole pattern, position and dimensions of connections

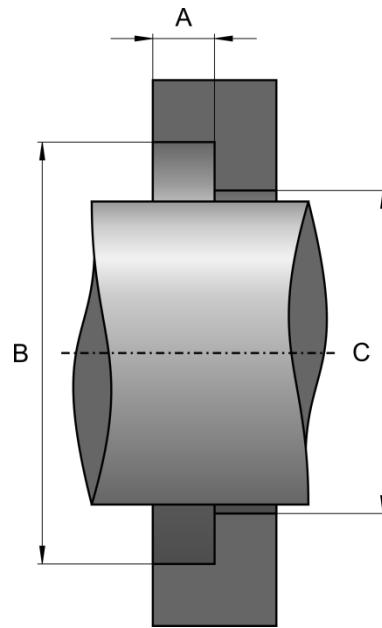
Blank area for sketching the hole pattern, position and dimensions of connections.

Rev.	Dat.	Sig.	Replacement for	Page 9 of 11
A	13.09.2019		Revision	
	13.09.2019		/ date	
	21.09.2019			
WJQ/ Prepared				
YXP / Reviewed				
ZLP/ Approval				

8. Oil packing rings

General information		
Satisfied with current rings/lifetime	<input type="checkbox"/> yes <input type="checkbox"/> no	Current lifetime MTBO [h]
If not, what will be expected		Current ring material

Existing oil packing ring design		
No. of sealing elements		
No. of side loaded elements		
Oil scrapers		
Rod coating / treatment *		
Rod material		
Cylinder side		Oil drain *
1. Cup depth A		<input type="checkbox"/> Yes <input type="checkbox"/> No
1. Cup ID (Ø B / C)	/	
2. Cup depth A		<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Cup ID (Ø B / C)	/	
3. Cup depth A		<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Cup ID (Ø B / C)	/	
4. Cup depth A		<input type="checkbox"/> Yes <input type="checkbox"/> No
4. Cup ID (Ø B / C)	/	
Crank side		



	Rev. A	Dat. 13.09.2019	Sig.	Replacement for Revision / date	Page 10 of 11
WJQ / Prepared		13.09.2019			
YXP / Reviewed		13.09.2019			
ZLP / Approval		21.09.2019			

9. Oil packing complete

General information		
Satisfied with current rings/lifetime	<input type="checkbox"/> yes <input type="checkbox"/> no	Current lifetime MTBO [h]
If not, what will be expected		Current ring material

Existing oil packing design		
No. of sealing elements		
No. of side loaded elements		
Oil scrapers		
Rod coating / treatment *		
Rod material		
Flange Ø *	A	
Stud hole PCD Ø *	B	
Bore Ø *	C	
Packing Ø *	D	
Max. flange thickness *	E	
Max. flange thickness *	F	
Stud hole * Ø G / Quantity	/	

Sketch	
Hole pattern, position and dimensions of connections, oil flow channel	

	Rev.	Dat.	Sig.	Replacement for Revision / date	Page 11 of 11
WJQ / Prepared	A	13.09.2019			
YXP / Reviewed		13.09.2019			
ZLP / Approval		21.09.2019			