

## Description

NOV choke & kill manifolds includes gate valves, choke valves, high pressure piping and blocks built in accordance with API standards. The choke and kill manifold complies with third party requirement and governing rules. The manifolds are delivered with a remote choke control panel and a local choke control panel including a dedicated HPU. It may be supplied with an automatic glycol injection.

- API 16C with monogram available
- API 6A monogram available
- API 53
- Pipe stress calculations
- Logging and line-up functionality
- Automatic pressure test available
- Automatic glycol injection available
- Custom design available

## Local Control Panel



- Dedicated HPU
- Choke position
- Choke speed control
- Pump stroke counter
- Standpipe pressure

## Choke Control Panel



- Data logging
- Choke/Valve control
- Auto line-Up functionality available
- Auto pressure test available

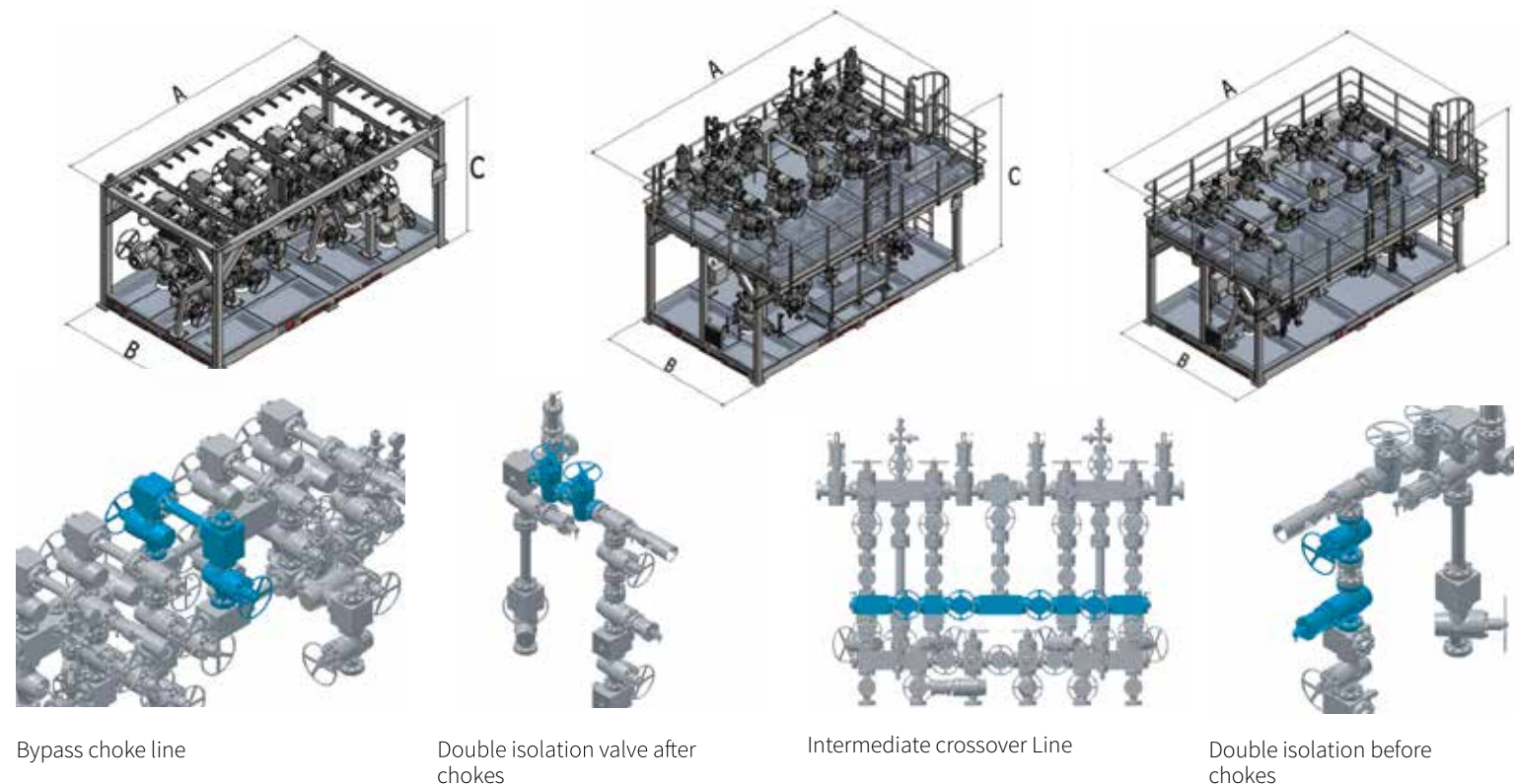
## Glycol Injection Unit



- Data logging
- Manual and automatic version
- Automatic glycol injection available

General Specification	
Design Code	API 6A, API 16C and API 53
Zone	Zone 2*
Bore Size	3.1/16" Upstream // 4.1/16" downstream
Working Pressure	15000 PSI Upstream // 10000 PSI downstream
Temperature Class	P-X(-29°C to 177°C)*
Material Class	EE-360*
PSL-Level	PSL-3*
PR-Level	PR-1*
Ring Groove Inlay Material	Inconel 625
Top Coat Colour	RAL 9002*
Skid Mounted	Yes
Service	Sour in Acc. with NACE MR-0175
Glycol Injection Connection	2 x Nozzles included*
Position Transmitter On The Chokes	4-20mA Position Transmitter
Visual Position Indication On The Chokes	Yes
Gaskets	Stainless Steel (SS316) gaskets
Nozzle Interface	API 6BX RTJ-154 Upstream and API 6BX RTJ-155 Downstream

\*Other alternatives available



Model Dimensions & Specifications	CKM-1000 series		CKM-2000 series			CKM-3000 series		
Dimensions [ A x B x C ] (mm)	6100 x 3200 x 3000	6100 x 3200 x 3000	7600 x 4600 x 4500	6800 x 4600 x 4500	5800 x 4600 x 4500	7600 x 4600 x 5300	6900 x 4600 x 5300	6400 x 4600 x 5300
Weight (kg)	Approx. 25000	Approx. 26000	Approx. 34000	Approx. 33000	Approx. 29000	Approx. 39000	Approx. 37000	Approx. 34000
Inlay In Gate Valve Seat Pockets	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Inlay In Gate Valve Bonnet Seal Area	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Inlay In Gate Valve Stem Seal Area	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Bypass Choke Kill Line	Included as Standard	Included as Standard	Included as Standard	Included as Standard	N/a	Included as Standard	Included as Standard	N/a
Interface For Primary And Secondary Kill/Choke Line	N/A	Included as Standard	Included as Standard	Included as Standard	Included as Standard	Optional	Optional	Optional
Double Isolation Valve After The Chokes	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Double Isolation Valve Before The Chokes	N/A	N/A	Included as Standard**	Included as Standard**	Included as Standard**	Included as Standard**	Included as Standard**	Included as Standard**
Double Isolation Valves on Downstream Outlet	N/A	N/A	N/A	N/A	N/A	Optional	Optional	Optional
Intermediate Line(second horizontal line) Upstream	N/A	N/A	N/A	N/A	N/A	Included as Standard	Included as Standard	Included as Standard
Gate Valve Type	Anson E-Type Gate Valve*	Anson E-Type Gate Valve*	Anson E-Type Gate Valve*	Anson E-Type Gate Valve*	Anson E-Type Gate Valve*	Anson E-Type Gate Valve*	Anson E-Type Gate Valve*	Anson E-Type Gate Valve*
Choke Type	Mission MPX 40d	Mission MPX 40d	Mission MPX 40d	Mission MPX 40d	Mission MPX 40d	Mission MPX 40d*	Mission MPX 40d*	Mission MPX 40d*
Manual Override on the Chokes	N/A	N/A	N/A	N/A	N/A	Optional	Optional	Optional
Hydraulic Actuated Gate Valves	N/A	N/A	8*	8*	8*	9*	9*	9*
Pos. Trans. On the Manual Hydraulic Actuated Gate Valves	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Pos. Trans. On The Hydraulic Actuated Gate Valves	N/A	N/A	Included as Standard	Included as Standard	Included as Standard	Included as Standard	Included as Standard	Included as Standard
Visual Pos. Ind On the Manual Gate Valves	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Visual Pos. Ind On the Manual Gate Valves	N/A	N/A	Included as Standard	Included as Standard	Included as Standard	Included as Standard	Included as Standard	Included as Standard
Temperature Transmitter Upstream	0*	0*	2	2	2	2	2	2
Temperature Transmitter Downstream	0*	0*	0*	0*	0*	2	2	2
Hydraulic Pressure Transmitter Upstream	2	2	2	2	2	2	2	2
Hydraulic Pressure Transmitter Downstream	0*	0*	0*	0*	0*	2	2	2
Electrical Pressure Transmitter Upstream	2	2	2	2	2	2	2	2
Electrical Pressure Transmitter Downstream	0*	0*	0*	0*	0*	2	2	2
Local Pressure Gauge Upstream	2	2	2	2	2	2	2	2
Local Pressure Gauge Downstream	0*	0*	0*	0*	0*	0*	0*	0*