

**DNV QUAD SY-DNVQ**



## DNV QUAD SY-DNVQ



### Specification:

- Designed & manufactured to DNV 2.7-1:2006 & EN 12079.
- 16 cylinder frame - Supplied hot dip galvanized.
- Supplied fully assembled & pressure tested.
- Cylinders supplied with neck rings. Cylinders @ 50 Litres.
- Cylinder neck painted to your choice of colour to represent gas service.
- Manifold supplied with BS341 no. 3 connections, EN13769 compliant
- Full certification pack supplied c/w pressure test certificate of conformity
- Frames supplied stenciled and fitted with DNV decal, DNV label and Tare / MGW / Payload sticker

## DNV QUAD SY-DNVQ



Cylinder	IL1.50.229.200
Manufacturing Standard	ISO 9809-1
Dimensions	229mm OD x 1480 mm Length x 50.0 ltrs
Material	34CrMo4
Manufacturing Process	Hot Spinning of Seamless Steel Tubes
Heat Treatment	Hardened Quenched and Tempered
Working Pressure	200 bar
Hydraulic Test Pressure	300 bar
Minimum Burst Pressure	480 bar
Volumetric Capacity (nominal)	50 Litres
Nominal Gas Capacity	10 cu.m (Approx)
Cylinder Outside Diameter (+_1%)	229mm
Cylinder Length (without valve (+_20MM))	1470mm (Approx)
Tare Weight (+_5%)	54 kg (Approx)
Gas Application	Oxygen
Neck Thread Specification	25E as per EN-629
Valve	Hand wheel Operated Valve with BS3 Outlet
External Finish	Powder coated as per Gas Color Code for Oxygen Black (RAL 9005) with white neck

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**DNV·GL**

**DESIGN VERIFICATION REPORT**

DVR-262.1-032435-  
J-3 Rev.: 0

**Particulars of Design**

Designer / Client	:	Synergy Bell (Division of Bell FluidTechnics Pvt. Ltd.)
Manufacturer	:	Synergy Bell (Division of Bell FluidTechnics Pvt. Ltd.)
DNV GL survey office	:	Mumbai
Client project reference	:	SYBL/19-20/053
DNV GL project number	:	A0739915

This is to verify that the design of:

**16 Cylinder Rack Frame**

has been reviewed and found to comply with:

- [1] DNV GL Standard DNVGL-ST-E271 "2.7-1 Offshore containers", August 2017.
- [2] ISO 10855:2018 Offshore containers and associated lifting sets – Design, manufacture, testing, inspection and marking.
- [3] IMO MSC / Circular 860.



## DNV QUAD SY-DNVQ



**16 cylinder Quad DNV 2.7-1**  
**Dimensions (L x W x H):** 1.1 x 1.0 x 1.9  
**Weight (filled with nitrogen at 300 bar):** 1,800 kg  
**Volume (filled with nitrogen at 300 bar):** 208 m<sup>3</sup>

**King valves per quad:** 2 x BS No. 3 (5/8 "BSP RH INT.)  
**Each cylinder is equipped with individual valve.**



**48 cylinder Quad DNV 2.7-1**  
**Dimensions (L x W x H):** 1.8 x 2.1 x 1.8  
**Weight (filled with nitrogen at 300 bar):** 5,090 kg  
**Volume (filled with nitrogen at 300 bar):** 623 m<sup>3</sup>

**King valves per quad:** 2 x BS No. 3 (5/8 "BSP RH INT.)  
**Each cylinder is equipped with individual valve.**



**64 cylinder Quad DNV 2.7-1**  
**Dimensions (L x W x H):** 1.8 x 2.1 x 2.3  
**Weight (filled with nitrogen at 300 bar):** 6,400 kg  
**Volume (filled with nitrogen at 300 bar):** 831 m<sup>3</sup>

**King valves per quad:** 2 x BS No. 3 (5/8 "BSP RH INT.)  
**Each cylinder is equipped with individual valve.**




**Cylinder Lift Frame DNV 2.7-1**  
**Dimensions (L x W x H):** 1.2 x 1.15 x 2.2  
**Weight:** 535 kg




## ORDERING INFORMATION

Sr.	Part Number	Description
1	SY-DNVQ-16	HIGH PRESSURE HOT DIP GALVANIZED DNV QUAD, 16 CYLINDER WITH ISOLATION VALVE AND GAS MANAGEMENT PANEL WITH REGULATOR
2	SY-DNVQ-32	HIGH PRESSURE HOT DIP GALVANIZED DNV QUAD, 32 CYLINDER WITH ISOLATION VALVE AND GAS MANAGEMENT PANEL WITH REGULATOR
3	SY-DNVQ-64	HIGH PRESSURE HOT DIP GALVANIZED DNV QUAD, 64 CYLINDER WITH ISOLATION VALVE AND GAS MANAGEMENT PANEL WITH REGULATOR

# Contact us

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