



OPERATING INSTRUCTIONS

QUICK CLOSING VALVES CABINET APPLICATION

&

MAINTENANCE

JUNE, 2021

WARNING

This manual is exclusive property DIKKAN, under copyright and any not authorized reproduction, in part or in total, shall be prosecuted.

Read and follow instructions carefully. Proper training and periodic review regarding the use of this equipment is essential to prevent possible serious injury and/or property damage. Shown products are according the current production. Dikkan reserves to modify product characteristics according technical evolution or customer special request. Verify if manual comply with used product.

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1. SAFETY TERMS

The signal terms DANGER, CAUTION and NOTICE are used in this operating manual in the event of notices related special dangers, or for unusual information, requiring a special marking.



Danger refers that there is a danger of life and considerable damage in the event of non-compliance.



Caution refers that there is a danger of injuries and damage in the event of non-compliance.



Notice refers that attention is drawn to technical correlations/connections.

2. TECHNICAL FEATURES

Standard:	Special design
Material:	Steel
Type:	Control Cabinet
Application:	Actuating quick closings valves
Operation:	Pneumatic Operated

Pressure & Temperature Ranges

Temperature max.	80 °C
Maximum input pressure of vessel	30 bar
Operating pressure	max 10 bar



Cabinet must not be used at higher “pressure & temperature” than defined “pressure & temperature”.

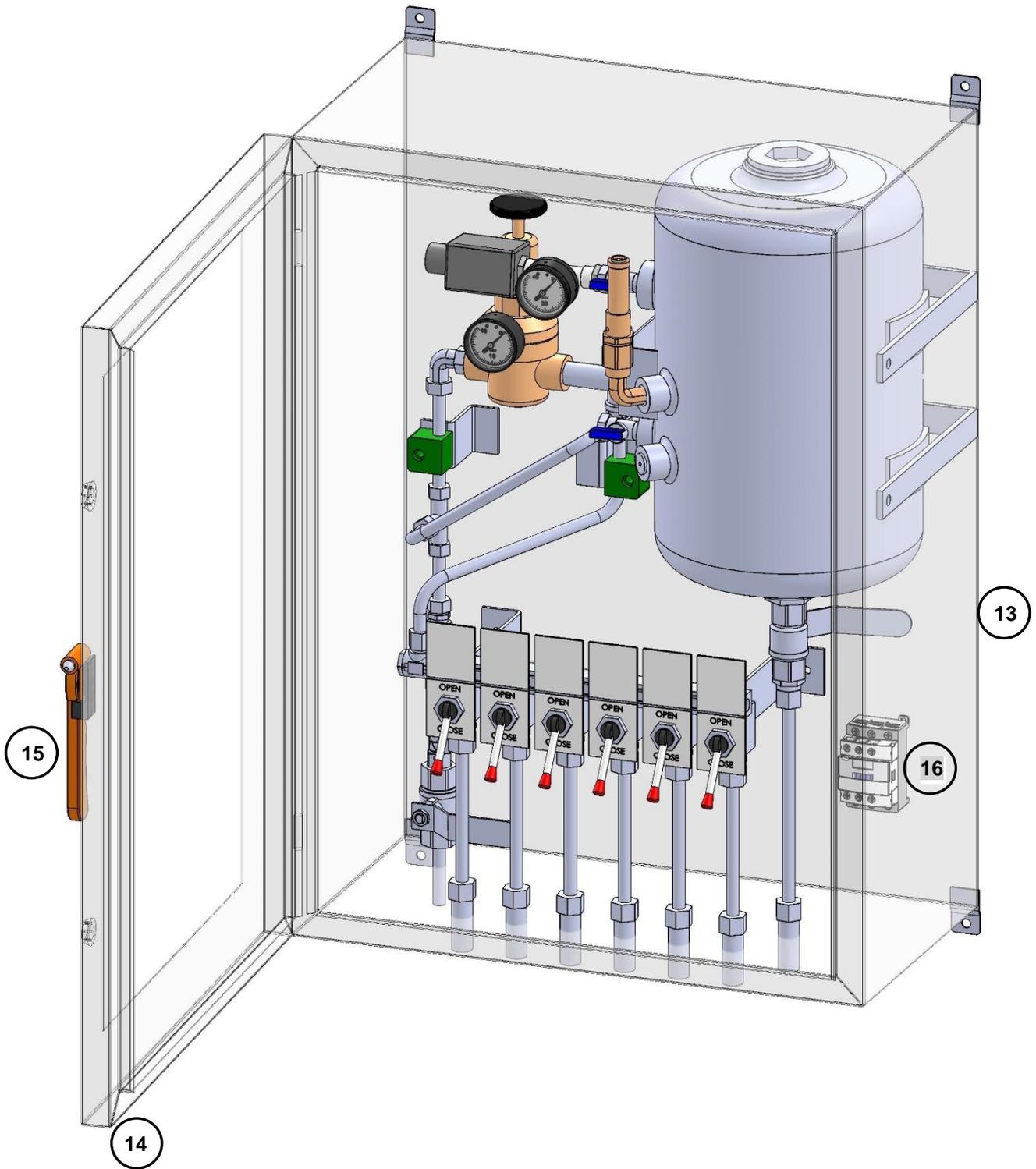
3. DESCRIPTION

The pneumatic control cabinet is designed for controlling quick closing valves.

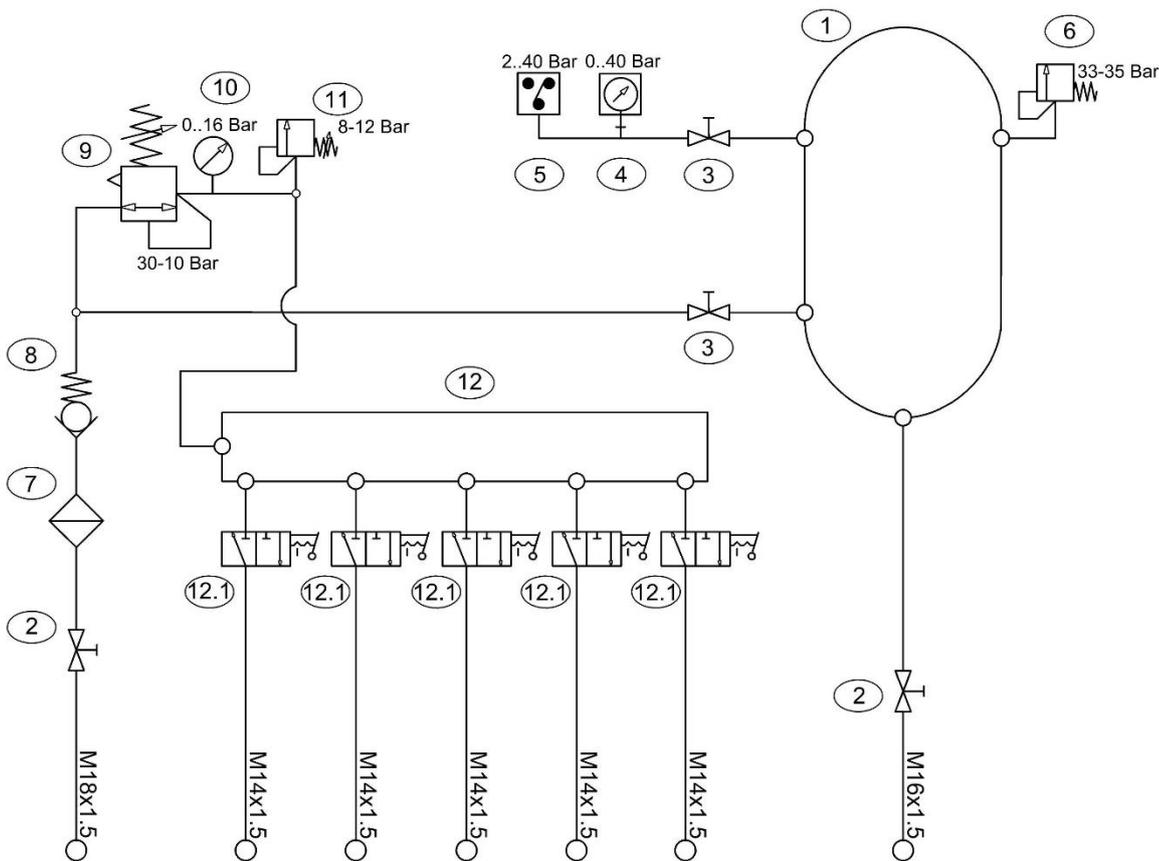
The control cabinet contains the necessary equipment for store, adjustment and directing the air signal to release cylinder on the valve.

The air signal from the control cabinet will retract the piston inside the release cylinder on the valve, allowing the disc of the valve to move down and close the valve.

4. PNEUMATIC CONTROL CABINET PART LIST



4.1 Symbolic Component Diagram



4.2 Components in Symbolic Diagram

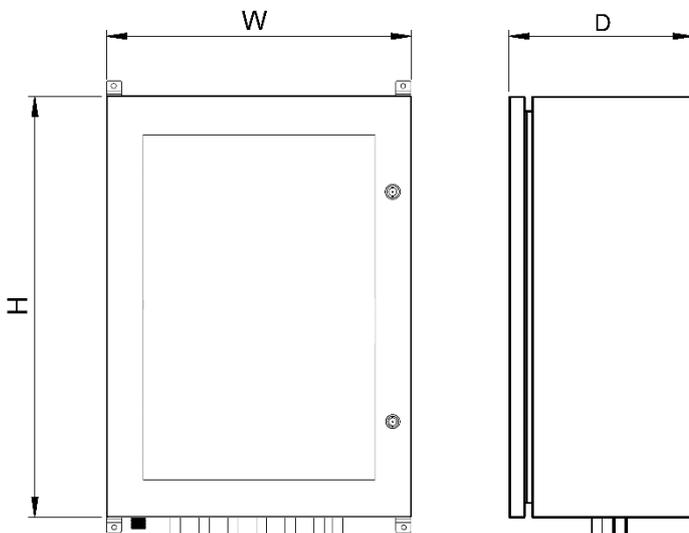
NO	PIPING+FITTINGS	-	STAINLESS STEEL	
16	CABLE CONNECTOR	CONNECTOR	PLASTIC	1
15	EMERGENCY HAMMER+HOLDER	-	STEEL+PLASTIC	1
14	FRAME COVER	-	STEEL (RAL 7016 ANTHRACITE GRAY)+GLASS	1
13	FRAME	-	STEEL (RAL 7016 ANTHRACITE GRAY)	1
12.1	DIRECTIONAL CONTROL VALVE	EK4/MVF	ALUMINIUM+RUBBER	
12	MANIFOLD	1 x G3/8", G1/4"	ALUMINIUM	1
11	PRESSURE RELIEF VALVE	G1/2", 8-12 Bar	BRASS	1
10	PRESSURE GAUGE	G1/2", 0-16 Bar, Ø63 (Rear Entry)	METAL+GLYCERIN	1
9	REGULATOR	G1/2", 40-25 Bar, (274.665), Set Pressure: 10 Bar	BRASS	1
8	CHECK VALVE	CVSSG38V, Min. PN40	STAINLESS STEEL	1
7	FILTER	G1/2", Min. PN40	STAINLESS STEEL	1
6	PRESSURE RELIEF VALVE	G3/8", Set Pressure: 33-35 Bar	BRASS	1
5	PRESSURE SWITCH	K53P, (>40 Bar)	ALUMINIUM	1
4	PRESSURE GAUGE	G3/8", 0-40 Bar, Ø63 (Rear Entry)	METAL+GLYCERIN	1
3	MINI BALL VALVE	G3/8", Min. PN40	STAINLESS STEEL	2
2	BALL VALVE	G1/2", Min. PN40	STAINLESS STEEL	2
1	AIR TANK	30 Bar	P355GH STEEL	1
NO	MATERIAL NAME	MATERIAL CODE	MATERIAL	QTY.

The symbolic diagram shows the 30 bar-10 liter / 6 control handles

All the information are only indicative data. DIKKAN has the rights to make changes without prior notice.

4.3 Options

Dikkan Ordering Code	Control Handles	Air Vessels	H	W	D
DPAKD1XXXXXXXXXX005L0000	1	1x5 litre	700	500	300
DPAKD2XXXXXXXXXX005L0000	2	1x5 litre	700	500	300
DPAKD3XXXXXXXXXX005L0000	3	1x5 litre	700	500	300
DPAKD4XXXXXXXXXX005L0000	4	1x5 litre	700	500	300
DPAKD5XXXXXXXXXX005L0000	5	1x5 litre	700	500	300
DPAKD6XXXXXXXXXX005L0000	6	1x5 litre	700	500	300
DPAKD7XXXXXXXXXX005L0000	7	1x5 litre	800	600	300
DPAKD8XXXXXXXXXX005L0000	8	1x5 litre	800	600	300
DPAKD9XXXXXXXXXX005L0000	9	1x5 litre	800	600	300
DPAKD10XXXXXXXXXX005L0000	10	1x5 litre	800	600	300
DPAKD1XXXXXXXXXX010L0000	1	1x10 litre	700	500	300
DPAKD2XXXXXXXXXX010L0000	2	1x10 litre	700	500	300
DPAKD3XXXXXXXXXX010L0000	3	1x10 litre	700	500	300
DPAKD4XXXXXXXXXX010L0000	4	1x10 litre	700	500	300
DPAKD5XXXXXXXXXX010L0000	5	1x10 litre	700	500	300
DPAKD6XXXXXXXXXX010L0000	6	1x10 litre	700	500	300
DPAKD7XXXXXXXXXX010L0000	7	1x10 litre	800	600	300
DPAKD8XXXXXXXXXX010L0000	8	1x10 litre	800	600	300
DPAKD9XXXXXXXXXX010L0000	9	1x10 litre	800	600	300
DPAKD10XXXXXXXXXX010L0000	10	1x10 litre	800	600	300

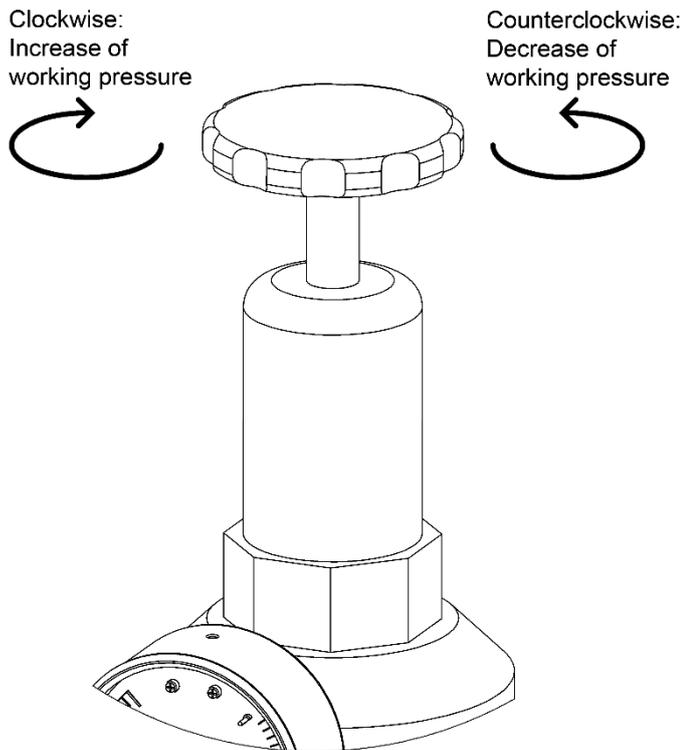


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6.2 Setting of Pressure Regulator

Pressure regulators regulate the system pressure in a compressed air system to the working pressure and keep this pressure, regardless of pressure fluctuations and air consumption, largely constant. Always approach the desired pressure from a lower pressure.

Turn adjustment handle clockwise to increase and counterclockwise to decrease the outlet working pressure setting.

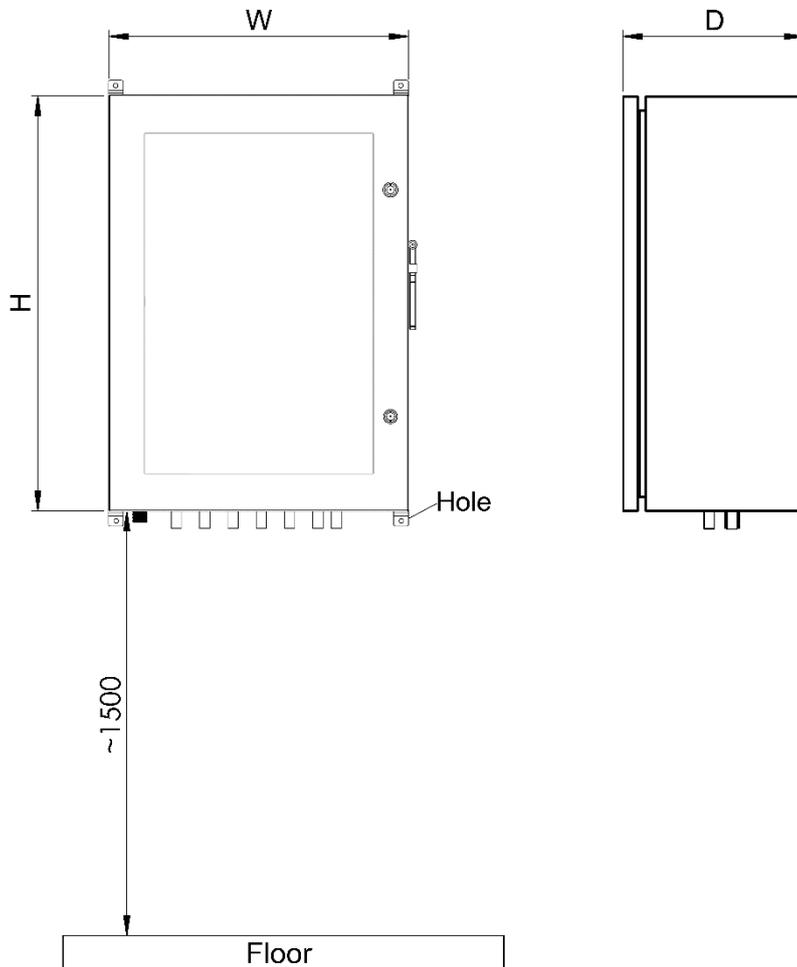


6.3 Installation / Location Position

The cabinet should be placed in an area that has good protection in case of fire and is easily accessible for urgent closing of the valves.

The cabinet is fixed to the wall by screws in the holes on the cabinet.

Ideal mounting position is 1.5 m over the floor.



7. MAINTENANCE

The system requires no special maintenance but check all connection of tightness and the function of the cabinet periodically.

When testing the system, be sure that the closing of valves will not have any problem for the function of the ship.

8. OPERATION

Normally the quick closing valves are in open position and the handles of the cabinet are in closed position. In case of fire pull up the handles of the cabinet for the quick closing valves in the endangered area.

9. RECYCLING

The product can be recycled. If suitable procedure has been respected, no environment pollution risk occurs. When the recycling of the product is made, the country's laws, rules and regulations must be observed.

10. PRESSURE EQUIPMENT DIRECTIVE (2014/68/EU) AND CE MARKING

Dikkan pneumatic control cabinet comply with the requirements of the European Pressure Equipment Directive 2014/68/EU. Valves are categorized in accordance with the maximum working pressure, size and ascending level of hazard, which is dependent on the fluid being transported. Fluids are classified as Group 1, dangerous fluids or Group 2, all other fluids including steam. Categories are SEP (sound engineering practice) and for ascending levels of hazard, I, II, III or IV. All valves designated as SEP do not bear the CE mark nor require a Declaration of Conformity. Dikkan valves with a CE marking have a declaration of conformity which includes information about the applied conformity assessment procedure. It has been confirmed that the quality assurance in design control, manufacture and the manufacturer's final acceptance of Dikkan pneumatic control cabinet by a notified body.

11. SAFETY REMARKS

- The operating instruction has to be observed in an obligatory way. In the event of mismatch, all warrants and liabilities are reserved.
- Sharp edges and burrs can cause injuries.
- The products must be mounted, started up or serviced by only fully trained and qualified personnel.
- Maintenance staff must be reminded about the dangers pertaining to disassembling and mounting of products as well as electric and machinery installations.
- Safety goggles and other appropriate protective gear should be used. Failure to do so could result in serious injury.
- Preserve valve specific maintenance manual in conjunction with this manual and allow them to be reachable by maintenance staff. Be sure that, maintenance staff reads any parts of those manuals before any use or maintenance operation.

12. WARRANTY

Warranty Period: 18 Months

The warranty does not cover maintenance work, installation of external parts. When unoriginal parts are used for replacement, warranties and liabilities become invalid.

13. NOTES

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Izmir Kemalpaşa Yolu

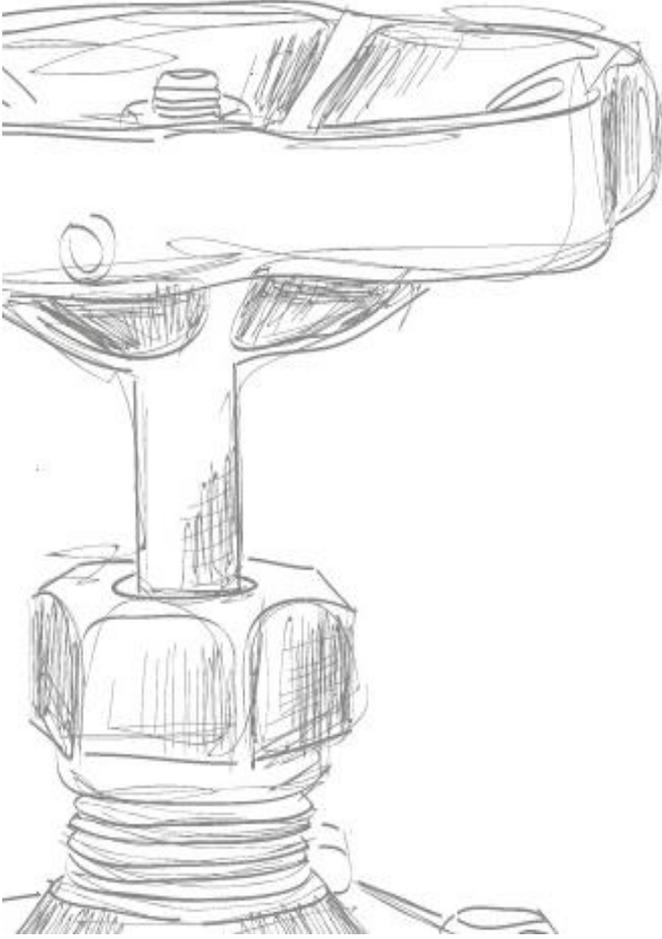
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