SINCE 1919

PEROLO

QUALITY BUILT TO LAST

3" (ND80) SAFETY RELIEF VALVE
HIGH FLOW FLANGED MEGA SUPERVENTIX
MG80

ISO

ROAD

SAFETY RELIEF VALVE

MAINTENANCE

VALVE INSTALLED ON THE TANK

1. Check the tank pressure is lower than the service pressure.☐
2. Go to the area where the valve is installed.
3. Check no leak exists between the poppet seal and the seat, this check can be done with leakage detection fluid.
If a leak exists, follow next points to dismantle the relief valve for further maintenance.

REMOVE THE VALVE FROM THE TANK

This operation is done to change the valve for further check☐

1. Before any operation, check there is no pressure in the tank.
2. Unscrew the screws that hold the MEGA-SUPERVENTIX to the tank pad, remove the valve and the disc.
3. Plug the hole in the flange with a blind cap to protect the tank from dust.

Further valve disassembly should be done in a workshop.

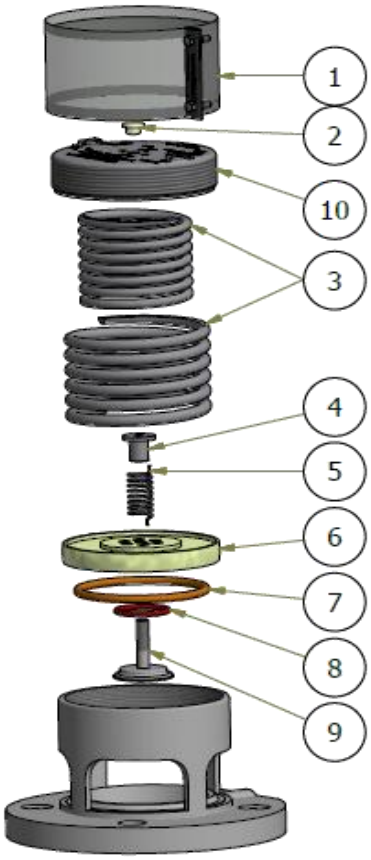
RELIEF VALVE DISASSEMBLY

We recommend this operation every two years.

CAUTION: the springs load is between 100 daN en 400 daN, when cap is removed the springs can violently be ejected.

We recommend to safely disassemble the cap and slowly relief the spring set load.

1. Remove carefully the cap (10) considering the above caution.
2. Remove springs set (3) and pressure plate (6).☐
3. Remove pressure and vacuum seals (7) & (8)
4. Install a set of new seals
5. Reassemble the valve.



SET PRESSURE RIGGING

The valve is installed on a test rig. The pressure is measured with a manometer precision class 0,5. The leakage is detected with leak test fluid at pressure seal interface.

1. Slowly increase the pressure. **When first bubbles appear at pressure plate seal, note the pressure.**
2. Adjust the cap (screw/unscrew) to get the set pressure.

If set pressure can not be achieved easily, we recommended to change the spring set (3) (see page 3 for item references).

3. When setting complete, seal the cap with a stainless steel wire spot welded between cap and body.

The relief valve is ready to operate on the tank.

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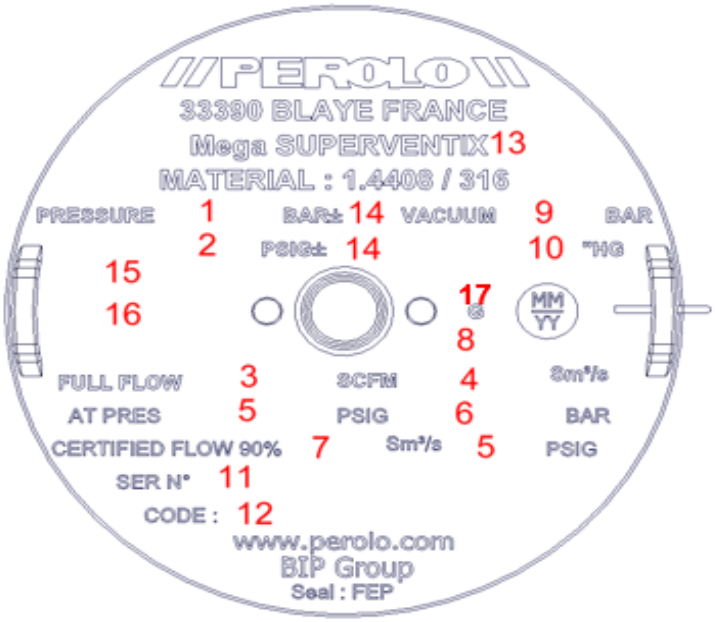
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BODY MARKING



1) Setting Pressure (Bar)
2) Setting Pressure (Psi)
3) Full Flow (SCFM)
4) Full Flow (Sm3/s)
5) Pressure for full flow (Psi)
6) Pressure for full flow (Bar)
7) Certified Flow 90% (Sm3/s)
8) Kd
9) Vacuum (Bar)
10) Vacuum ("Hg)
11) Serial number
12) P/N (MG80)
13) Nominal diameter
14) Pressure tolerance (Bar)
15) Flow section (mm^2)
16) Standard : ISO 4126-1§7.3
17) "G" indication f

SAFETY RELIEF VALVE

Due to our policy of continuous product improvement, specifications may change without notice - Maintenance sheet PWA 11 10 23 40 00 F
Perolo warranty is null and void in case of fitting non OEMparts
It is the customer's responsability to check the compatibility between valves material and transported product.
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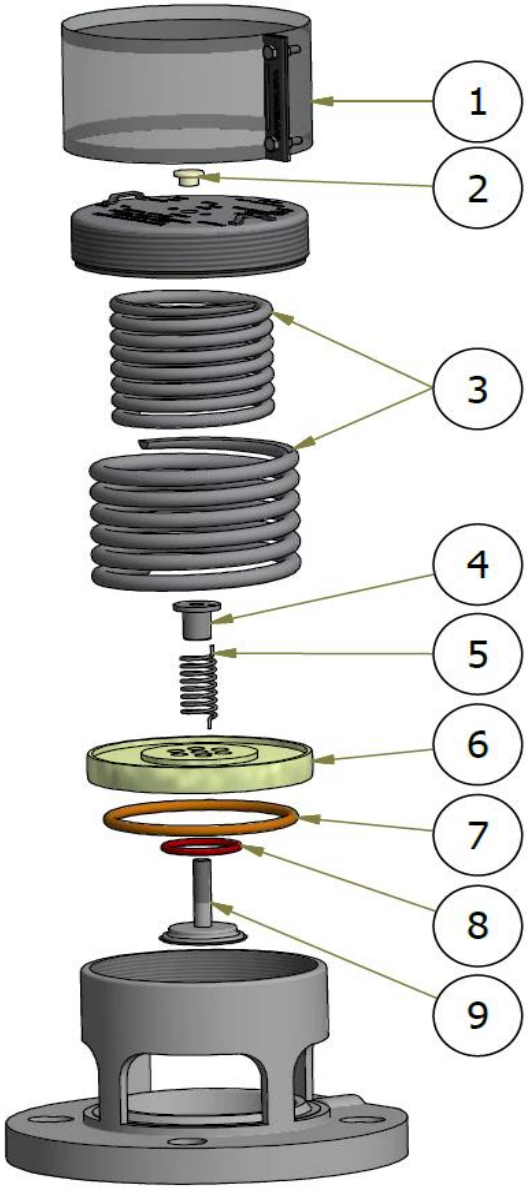
PEROLO™

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3" (ND80) SAFETY RELIEF VALVE

HIGH FLOW FLANGED MEGA SUPERVENTIX MG80

ITEM	QTY	DESIGNATION	PART N°
		Pressure & Vacuum O'ring:	
7	1	Pressure O'ring (FEP/Silicone)	11 10 17 98 00
7	10	Pressure O'ring (FEP/Silicone)	11 10 17 99 06
7, 8	1	Pres. & Vac. O'ring (FEP/Si)	11 10 17 97 00
8	10	Vacuum O'ring (FEP/Silicone)	11 10 17 99 00
		Spring sets:	
3	1	Spring set pressure 3.30 Bar	11 10 17 50 00
5	1	Spring set vacuum 0.21 bar	11 10 01 98 00
		Plates, Gauze & Cap:	
6	1	Pressure plate for pressure only	11 10 17 99 02
6	1	Pressure plate, pressure/vacuum	11 10 17 99 01
9	1	Vacuum poppet	11 10 01 99 02
4	1	Adjustement nut	11 10 02 99 06
1	1	Flame proof gauze kit	11 10 01 94 00
2	1	Plug (LDPE)	70 14 06 90 15



DESIGNATION	SPECIFICATIONS	PART N°
Weld-in flange	Ext Ø 190mm, int Ø 82mm thickness 26 mm drilling 4 x M16 x 145 PCD 316L stainless steel	1292030000
Recess flange	Ext Ø 217mm, int Ø 82,6mm min thick. 31 mm max th. 65 mm 4 x M16 x 145 PCD 316L stainless steel	1190630000
Screw kit	4 x M16-40 screws 4 x grower washers	1110099100
Bursting disc	pressure setting on request	DRS80P???T20
Setting gasket	CNAF/PTFE Ø176mm Ø82mm Round, flat, drilling 4 x 18 x 145 PCD	1292040000
Gauge (0-6 bar) bottom entry 1/4"BSP	Full stainless steel	7018060095
	Stainless steel case brass internals & connection	7021020022

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