



DIRECT ACTING RELIEF VALVES "VMD1.010"

TECHNICAL SPECIFICATIONS -

DESCRIPTION

 Pressure Relief Valves are normally closed pressure control elements designed to keep a constant pressure difference between inlet port '1' and outlet port '2' when oil flows through the valve. Direct acting valves are normally used to protect hydraulic actuators from shock pressures; the direct action allows a very fast opening and closing. Hysteresis is very low. Seat design is leak proof.

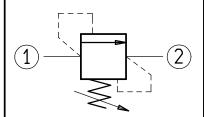
MATERIALS

All components are made in high quality steel.
 The main body is carbonitrided, the poppet is hardened and ground.

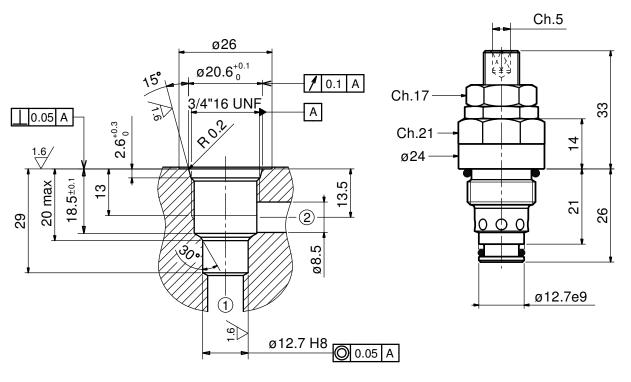
MAIN OPERATING FEATURES

- Outside surfaces are protected by phosphatisation
- Max working pressure 270 bar
- Max flow 10 l/min.
- Valves are set, after testing, at 50 (±10%) and 200 bar (+10%) with 5 l/min. flow
- Installation torque 30/35 Nm
- Weight 0.095 Kg

SYMBOL



CAVITY DETAILS



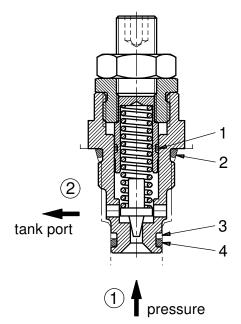




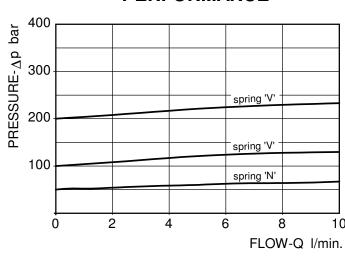
DIRECT ACTING RELIEF VALVES "VMD1.010"

1	O-Ring ø9x1 90 sh DIN 3770	ZOR004
2	O-Ring ø16.36x2.20 70 sh	ZOR080
3	Backup ring ø9.7x12.7x1.4	Z*03.15.01.043
4	O-Ring ø9.25x1.78 70 sh	ZOR025
Ref	Seals	TARP code

CROSS VIEW



PERFORMANCE



- ORDERING CODE -

Basic code VMD1,010.* *.000

Nominal size

Control option - **S=** socket screw

SPRING	Adjustment range min-max bar	Setting increase bar/screw turn
N	10-60	8.5
V	40-270	41.5





DIRECT ACTING RELIEF VALVES "VMD1.020"

TECHNICAL SPECIFICATIONS -

DESCRIPTION

Pressure Relief Valves are normally closed pressure control elements designed to keep a constant pressure difference between inlet port '1' and outlet port '2' when oil flows through the valve. Direct acting valves are normally used to protect hydraulic actuators from shock pressures; the direct action allows a very fast opening and closing. Hysteresis is very low.

Seat design is leak proof.

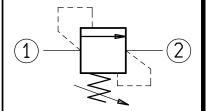
Quite operation.

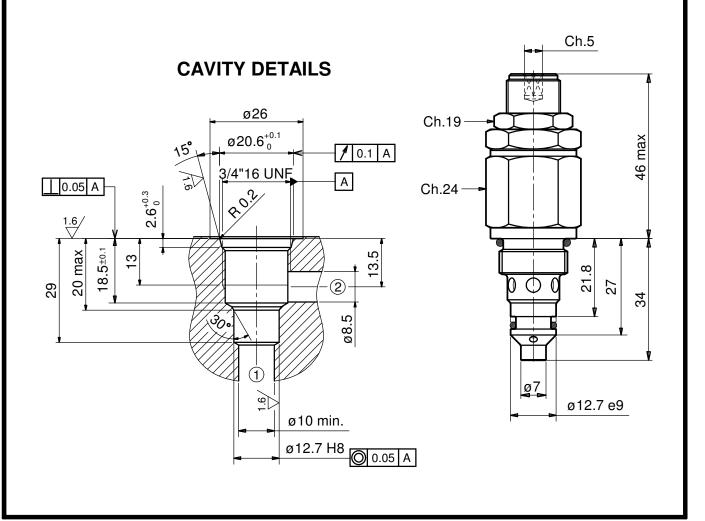
MATERIALS

 All components are made in high quality steel. The poppet is hardened and ground.

MAIN OPERATING FEATURES

- Outside surfaces are zinc coated
- Max working pressure 350 barMax flow 25 l/min.
- Valves are set, after testing, at 100 (-5/+10 bar), 180 (+/-10 bar) and 350 (+/-20 bar) with 5 l/min. flow
- Installation torque 40-45 Nm
- Weight 0.144 Kg.

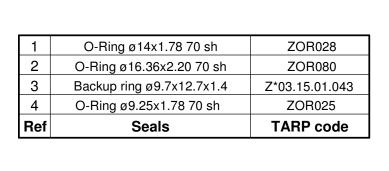


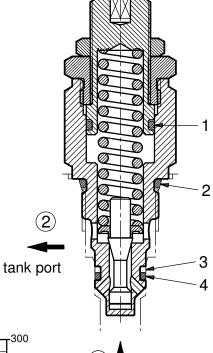






DIRECT ACTING RELIEF VALVES "VMD1.020"

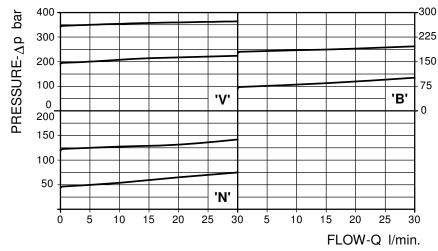




pressure

CROSS VIEW

PERFORMANCE



— ORDERING CODE –

Nominal size

Control option

S= socket screw

SPRING	Adjustment range min-max bar	Setting increase bar/screw turn	Spring code
N	25-120	16.5	Z*0F.M0.002
В	40-200	26.5	Z*0F.M0.001
V	200-350	51	Z*0F.M0.013





DIRECT ACTING RELIEF VALVES "VMD1.025"

TECHNICAL SPECIFICATIONS -

DESCRIPTION

Pressure Relief Valves are normally closed pressure control elements designed to keep a constant pressure difference between inlet port '1' and outlet port '2' when oil flows through the valve. Direct acting valves are normally used to protect hydraulic actuators from shock pressures; the direct action allows a very fast opening and closing. Hysteresis is very low.

Seat design is leak proof.

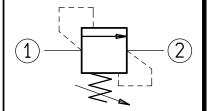
Quite operation.

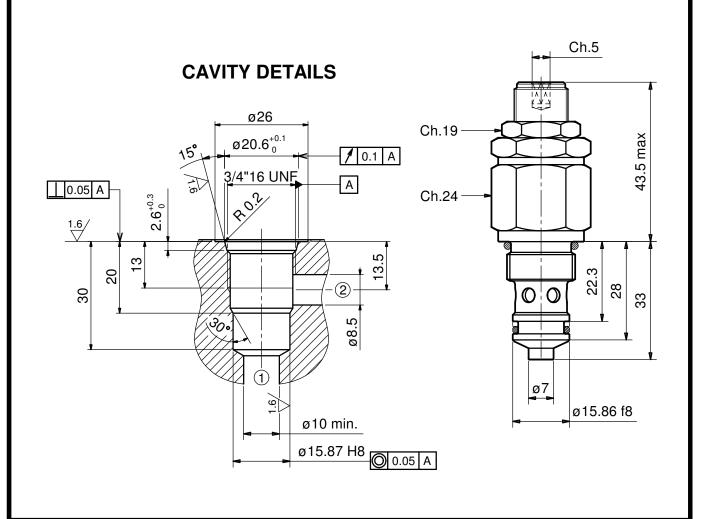
MATERIALS

 All components are made in high quality steel. The poppet is hardened and ground.

MAIN OPERATING FEATURES

- Outside surfaces are zinc coated
- Max working pressure 350 barMax flow 35 l/min.
- Valves are set, after testing, at 100 (-5/+10 bar), 180 (+/-10 bar) and 350 (+/-20 bar) with 5 l/min. flow
- Installation torque 40-45 Nm
- Weight 0.130 Kg.



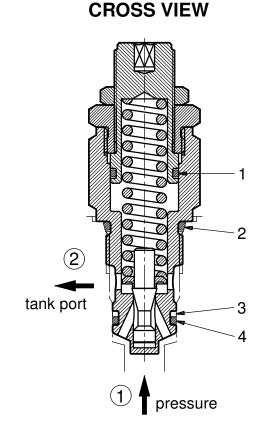




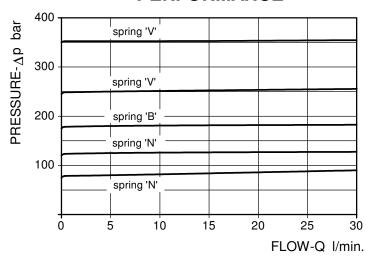


DIRECT ACTING RELIEF VALVES "VMD1.025"

1 O-Ring Ø14x1.78 70 sh ZOR028 2 O-Ring Ø16.36x2.20 70 sh ZOR080 3 Backup ring Ø12.8x15.86x1.4 Z*0F.A2.001 4 O-Ring Ø12.42x1.78 70 sh ZOR027 Ref Seals TARP code



PERFORMANCE



- ORDERING CODE -

Basic code **VMD1.025.*** *.000

Nominal size –

Control option -

S= socket screw

SPRING	Adjustment range min-max bar	Setting increase bar/screw turn	Spring code
N	25-120	16.5	Z*0F.M0.002
В	40-200	26.5	Z*0F.M0.001
٧	200-350	51	Z*0F.M0.013
•	200 000	01	2 01 .1010.01





DIRECT ACTING RELIEF VALVES "VMD1.040"

TECHNICAL SPECIFICATIONS -

DESCRIPTION

 Pressure Relief Valves are normally closed pressure control elements designed to keep a constant pressure difference between inlet port '1' and outlet port '2' when oil flows through the valve.

Direct acting valves are normally used to protect hydraulic actuators from shock pressures; the direct action allows a very fast opening and closing. Hysteresis is very low.

Seat design is leak proof.

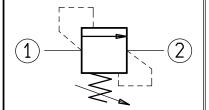
Quite operation.

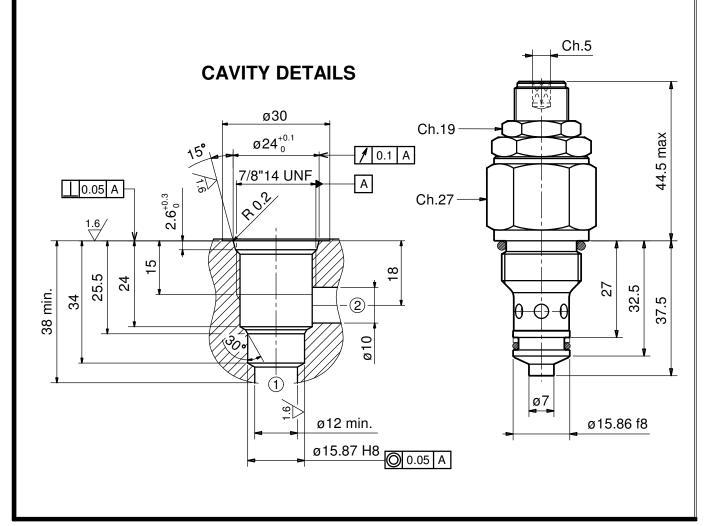
MATERIALS

 All components are made in high quality steel. The poppet is hardened and ground.

MAIN OPERATING FEATURES

- Outside surfaces are zinc coated
- Max working pressure 350 barMax flow 50 l/min.
- Valves are set, after testing, at 100 (-5/+10 bar), 180 (+/-10 bar) and 350 (+/-20 bar) with 5 l/min. flow
- Installation torque 55-65 Nm





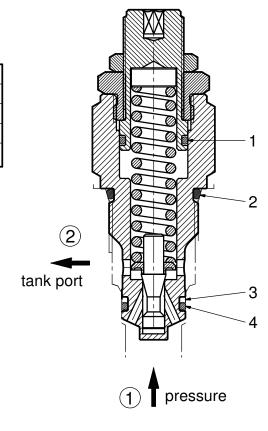




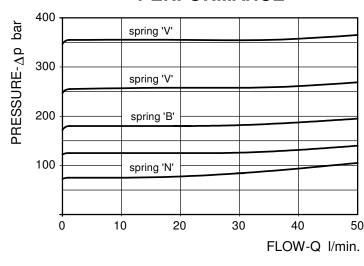
DIRECT ACTING RELIEF VALVES "VMD1.040"

CROSS VIEW

Ref	Seals	TARP code
4	O-Ring ø12.42x1.78 70 sh	ZOR027
3	Backup ring ø12.8x15.86x1.4	Z*0F.A2.001
2	O-Ring ø19.18x2.46 70 sh	ZOR084
1	O-Ring ø14x1.78 70 sh	ZOR028



PERFORMANCE



- ORDERING CODE -

Basic code **VMD1.040.* *.000**

Nominal size -

Control option -

S= socket screw

SPRING	Adjustment range min-max bar	Setting increase bar/screw turn	Spring code
N	25-120	16.5	Z*0F.M0.002
В	40-200	26.5	Z*0F.M0.001
٧	200-350	51	Z*0F.M0.013





DIRECT ACTING RELIEF VALVES "VMD1.070"

TECHNICAL SPECIFICATIONS -

DESCRIPTION

 Pressure Relief Valves are normally closed pressure control elements designed to keep a constant pressure difference between inlet port '1' and outlet port '2' when oil flows through the valve.

Direct acting valves are normally used to protect hydraulic actuators from shock pressures; the direct action allows a very fast opening and closing. Hysteresis is very low.

Seat design is leak proof.

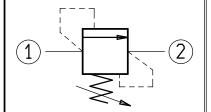
Quite operation.

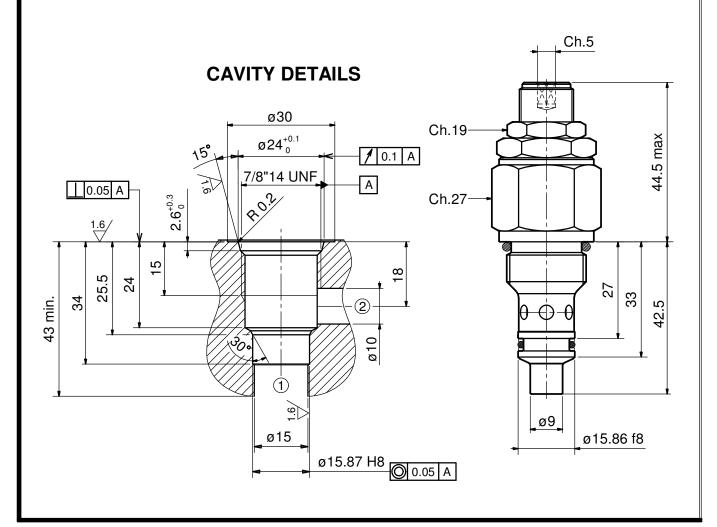
MATERIALS

 All components are made in high quality steel. The poppet is hardened and ground.

MAIN OPERATING FEATURES

- Outside surfaces are zinc coated
- Max working pressure 260 barMax flow 70 l/min.
- Valves are set, after testing, at 50 (+10 bar), 100 (-5/+10 bar) 200 (+/-10 bar) and 250 (+/-10 bar) with 5 l/min. flow
- Installation torque 55-65 Nm
- Weight 0.180 Kg.





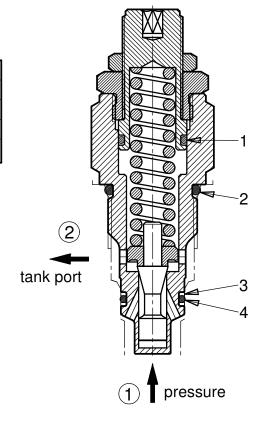




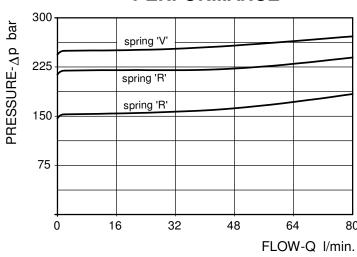
DIRECT ACTING RELIEF VALVES "VMD1.070"

CROSS VIEW

4 Pof	O-Ring ø12.42x1.78 70 sh Seals	ZOR027 TARP code
_	O.B.: 40.40.4.70.70.1	700007
3	Backup ring ø13x15.8x0.7	Z*03.15.01.148
2	O-Ring ø19.18x2.46 70 sh	ZOR084
1	O-Ring ø14x1.78 70 sh	ZOR028



PERFORMANCE



- ORDERING CODE -

Basic code **VMD1.070.* *.000**

Nominal size -

Control option -

S= socket screw

SPRING	Adjustment range min-max bar	Setting increase bar/screw turn	Spring code
N	10-60	10	Z*0F.M0.002
В	40-110	17	Z*0F.M0.001
R	110-220	31.5	Z*0F.M0.013
V	220-260	37	Z*0F.M0.057