



MODELLI RS-ECO

La funzione dell'applicazione dei separatori d'olio, installati a valle dei compressori a vite, è quella di separare l'olio lubrificante dal fluido frigorifero riducendo il quantitativo d'olio in circolazione nel circuito e migliorando così il rendimento dell'impianto. I refrigeranti sono tutti gli HCFC, HFC, HFO, FLUIDI NATURALI ed altri purché compatibili con i materiali di costruzione. I nostri separatori d'olio verticali hanno una capacità di separazione, per compressori a vite, adeguata per portate di refrigerante (di marche primarie) comprese tra 120 e 2250 m3/h.

Il separatore è costituito da due parti: la superiore opportunamente dimensionata per ottenere una elevata separazione dell'olio dal gas refrigerante e quella inferiore dove l'olio separato cola e si accumula per poi essere di nuovo inviato verso il compressore (tranne versione ECO). La nostra gamma si distingue per offrire soluzioni con e senza ricevitore e con separazione mono stadio (ciclonica) oppure bi stadio (ciclonica e filtrante).

Tutti i separatori d'olio sono sottoposti ad una prova pressione per il controllo della tenuta generale e specifica delle saldature.

MODELS RS-ECO

The purpose of the application of the oil separators, installed after the screw compressors, is the one to separate the lubricant oil from the refrigerant fluid reducing the quantity of oil in circulation in the plant thus improving the overall efficiency. The refrigerants are all the HCFC, HFC, HFO, NATURAL FLUIDS and others as long as compatible with the manufacturing materials. Our vertical oil separators have a separation capacity, for screw compressors, suitable for refrigerant flows (of primary brands) included between 120 and 2250 m3/h.

The separator consists of two sections: the higher one which is adequately designed to obtain a high degree of separation of the oil from the refrigerant gas and a lower one where the separated oil drops and accumulates to be later on sent back to the compressor (except ECO version). Our range offers solutions with and without receiver and with single stage (cyclonic) or double stage (cyclonic and filtering).

All the oil separators are submitted to a pressure test to check the general tightness and the quality of the weldings.

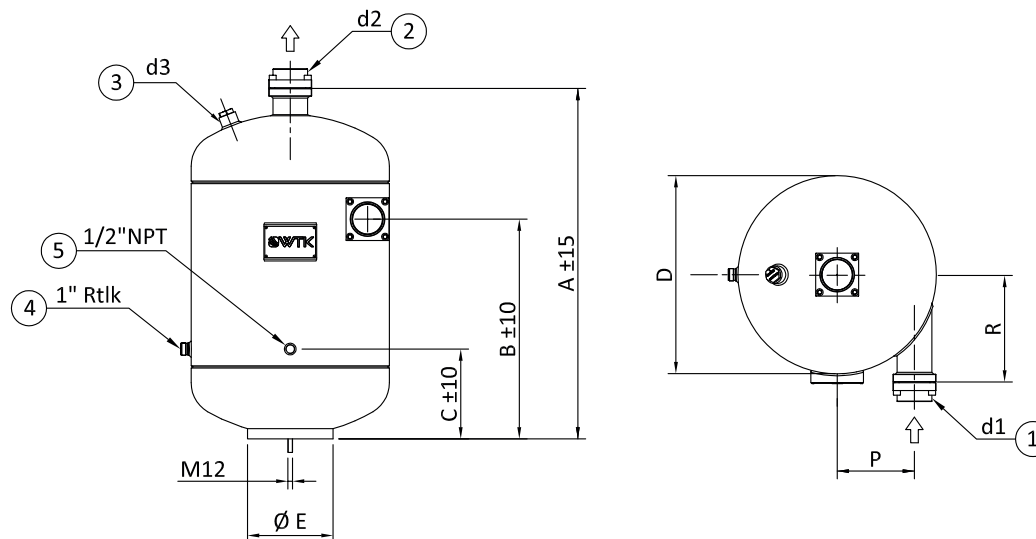
| MODELLO | COMPRESSOR SUCTION VOLUME | | OIL VOLUME | TOTAL VOLUME | A | B | C | D | E | P | R | CONNECTIONS | | | Cat. PED | | Peso (Vuoto) Weight (Empty) |
|--------------|---------------------------|-----------------------|------------|--------------|-----|-----|-----|------------|-----|-----|-----|----------------|----------------|------|----------|-------|-----------------------------|
| | Air Conditioning | Cooling and Low Temp. | | | | | | | | | | d1 | d2 | d3 | Gr. 1 | Gr. 2 | |
| ← | m3/h | m3/h | dm3 | dm3 | mm | mm | mm | mm | mm | mm | mm | mm | mm | Thrd | Gr. 1 | Gr. 2 | kg |
| RS182 | 220 | 300 | 3 | 30 | 575 | 365 | 155 | 324 | 114 | 120 | 218 | ODS 54 - OD 60 | ODS 54 - OD 60 | 1/2" | IV | III | 38 |
| RS402 | 490 | 660 | 7 | 75 | 770 | 560 | 170 | 406 | 168 | 150 | 230 | ODS 64 - OD 76 | ODS 64 - OD 76 | 1" | IV | III | 55 |
| RS902 | 940 | 1320 | 10 | 140 | 900 | 640 | 180 | 508 | 219 | 198 | 277 | ODS 80 - OD 89 | ODS 80 - OD 89 | 1" | IV | IV | 66 |

**CONNESSIONI
CONNECTIONS**

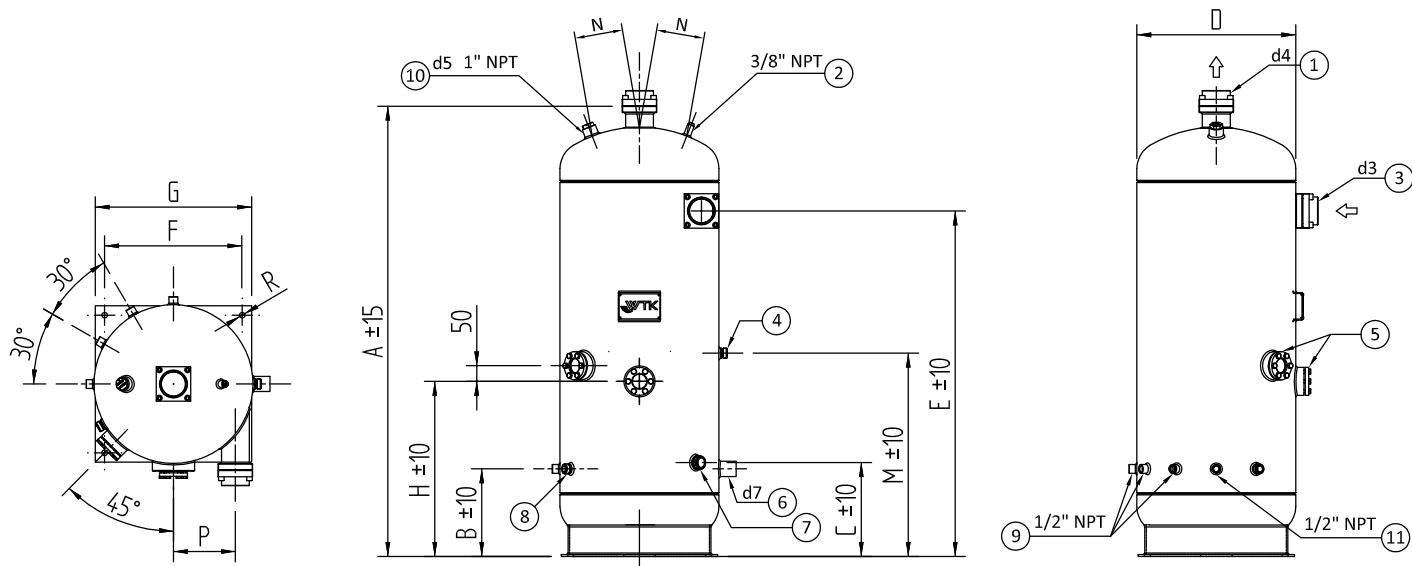
- 1 Refrigerant inlet
- 2 Refrigerant outlet
- 3 Safety valve connection
- 4 Oil outlet
- 5 Secondary oil outlet

LIMITI DI IMPIEGO - WORKING LIMITS

| RS | T - standard | T - low temp | Pr | Prp |
|---------------------------|--------------|--------------|----|------|
| | [°C] | [°C] | | |
| RS 182 / 402 / 902 | -10 / +120 | -45 / +120 | 36 | 51,5 |



| MODELLO MODEL | COMPRESSOR SUCTION VOLUME | | No. of HEATERS | OIL VOLUME | TOTAL VOLUME | A | B | C | D | E | F | G | H | M | N | P | R | CONNECTIONS | | | Cat. PED | | Peso (Vuoto) Weight (Empty) kg | |
|------------------|------------------------------|--------------------------|-------------------|---------------|-----------------|------|-----|-----|------------|------|-----|-----|-----|-----|-----|-----|----|-------------|--------|-----------|-------------|-------|--|----|
| | Air Conditioning | Cooling and Low Temp. | | | | | | | | | | | | | | | | d3 | d4 | d7 | Gr. 1 | Gr. 2 | | |
| | m3/h | m3/h | N° | dm3 | dm3 | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | Thrd | Gr. 1 | Gr. 2 | kg |
| RS180 | 220 | 300 | 1 | 19 | 50 | 830 | 200 | 240 | 324 | 550 | 280 | 330 | 330 | 420 | 100 | 120 | 13 | OD 54 | OD 54 | 1"1/4 Rtk | IV | III | 60 | |
| RS400 | 490 | 660 | 2 | 50 | 120 | 1170 | 220 | 260 | 406 | 865 | 320 | 380 | 460 | 550 | 100 | 145 | 13 | OD 76 | OD 76 | 1"3/4 Rtk | IV | IV | 130 | |
| RS900 | 940 | 1320 | 3 | 90 | 220 | 1480 | 280 | 300 | 508 | 1105 | 440 | 500 | 560 | 650 | 150 | 198 | 18 | OD 89 | OD 89 | ODS 42 | IV | IV | 195 | |
| RS1300 | 1320 | 1600 | 4 | 130 | 330 | 1485 | 300 | 320 | 610 | 1100 | 530 | 610 | 550 | 650 | 190 | 235 | 18 | OD 114 | OD 114 | ODS 54 | IV | IV | 230 | |
| RS2300 | 1650 | 2250 | 4 | 230 | 560 | 1770 | 380 | 360 | 711 | 1320 | 530 | 610 | 710 | 760 | 150 | 265 | 18 | OD 141 | OD 141 | ODS 76 | IV | IV | 385 | |

CONNESSIONI
CONNECTIONS

- 1 Refrigerant outlet
- 2 Service valve connection
- 3 Refrigerant Inlet
- 4 Oil charge valve connection
- 5 Oil level sight glass
- 6 Parallel compressors oil outlet
- 7 Oil control level connection
- 8 Oil outlet
- 9 Oil heaters connection
- 10 Safety valve connection
- 11 Thermostat sensor connection

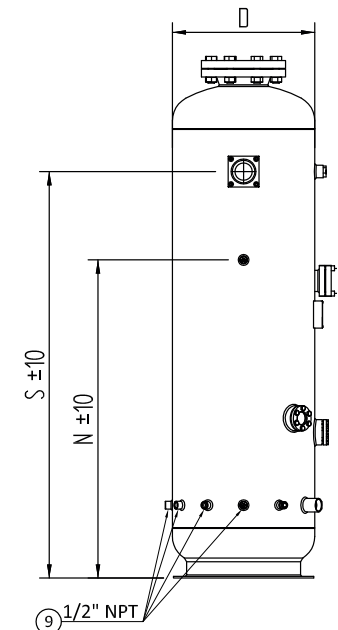
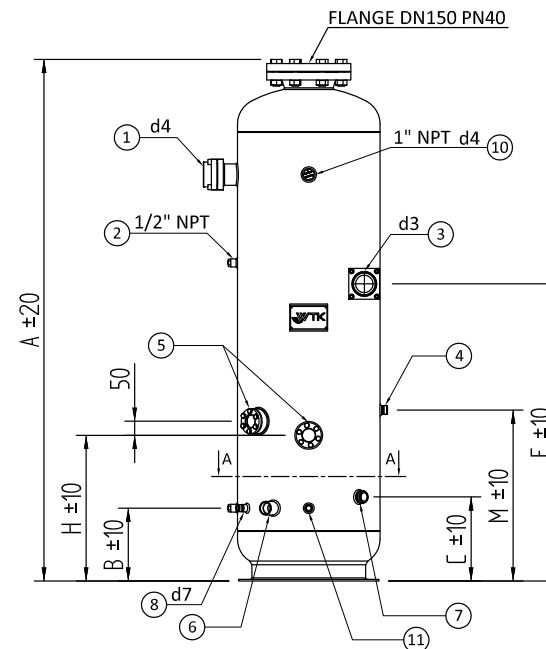
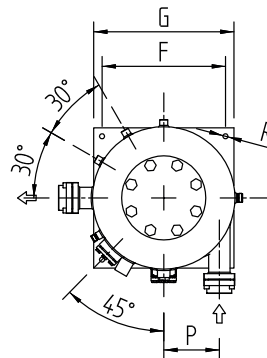
LIMITI DI IMPIEGO - WORKING LIMITS

| RS | T - standard | T - low temp | Pr | Prp |
|---------------------------|--------------|--------------|-------|-------|
| | [°C] | [°C] | [bar] | [bar] |
| RS 180 / 400 / 900 | -10 / +120 | -45 / +120 | 36 | 51,5 |
| RS 1300 / 2300 | -10 / +120 | -45 / +120 | 32 | 45,8 |

| MODELLO MODEL | COMPRESSOR SUCTION VOLUME | | | No. of HEATERS | No. Of FILTERS | OIL VOLUME | TOTAL VOLUME | A | B | C | D | E | F | G | H | M | N | P | R | S | CONNECTIONS | | | Cat. PED | | Peso (Vuoto) Weight (Empty) kg | | |
|------------------|---------------------------|---------|-----------------------------|-------------------|-------------------|---------------|-----------------|------|-----|-----|-----|------|-----|-----|-----|-----|------|-----|----|------|-------------|--------|-----------|-------------|-------|--|-------|----|
| | Air Conditioning | Cooling | Cooling and Low Temp. | | | | | | | | | | | | | | | | | | d3 | d4 | d7 | Gr. 1 | Gr. 2 | | | |
| | m3/h | m3/h | m3/h | N | | dm3 | dm3 | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | Thrd | Gr. 1 | Gr. 2 | kg |
| RS184 | 120 | 150 | 250 | 1 | 1 | 21 | 90 | 1336 | 200 | 240 | 324 | 680 | 280 | 330 | 330 | 420 | 725 | 120 | 13 | 1050 | OD 60 | OD 60 | 1"1/4 Rtk | IV | IV | 145 | | |
| RS404 | 220 | 300 | 500 | 2 | 2 | 50 | 170 | 1620 | 220 | 260 | 406 | 820 | 320 | 380 | 460 | 550 | 895 | 145 | 13 | 1310 | OD 76 | OD 76 | 1"3/4 Rtk | IV | IV | 185 | | |
| RS904 | 400 | 550 | 950 | 3 | 3 | 90 | 330 | 1980 | 280 | 300 | 508 | 1060 | 440 | 500 | 500 | 570 | 1135 | 198 | 18 | 1550 | OD 76 | OD 76 | ODS 42 | IV | IV | 345 | | |
| RS1304 | 960 | 1200 | 1350 | 4 | 4 | 130 | 480 | 2030 | 300 | 320 | 610 | 1220 | 530 | 610 | 550 | 650 | 1320 | 235 | 18 | 1610 | OD 114 | OD 114 | ODS 54 | IV | IV | 465 | | |
| RS2304 | 1300 | 1650 | 2250 | 4 | 6 | 220 | 740 | 2290 | 385 | 385 | 711 | 1365 | 530 | 610 | 695 | 715 | 1465 | 265 | 18 | 1805 | OD 141 | OD 141 | ODS 76 | IV | IV | 600 | | |

CONNESSIONI
CONNECTIONS

- 1 Refrigerant outlet
- 2 Service valve connection
- 3 Refrigerant Inlet
- 4 Oil charge valve connection
- 5 Oil level sight glass
- 6 Parallel compressors oil outlet
- 7 Oil control level connection
- 8 Oil outlet
- 9 Oil heaters connection
- 10 Safety valve connection
- 11 Thermostat sensor connection



LIMITI DI IMPIEGO - WORKING LIMITS

| RS | T - standard | T - low temp | Pr | Prp |
|--------------------|--------------|--------------|----|------|
| | [°C] | [°C] | | |
| RS 180 / 404 / 904 | -10 / +120 | -45 / +120 | 36 | 51,5 |
| RS 1304 / 2304 | -10 / +120 | -45 / +120 | 32 | 45,8 |

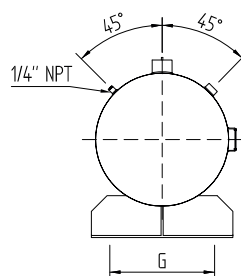
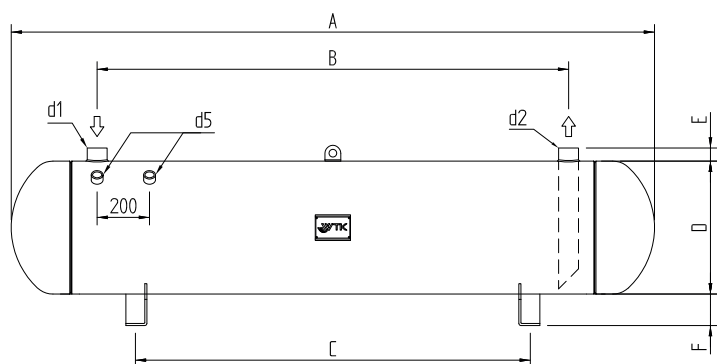
MODELLI HLR

I ricevitori di liquido serie HLR sono quelli costruiti in versione orizzontale.
La gamma standard comprende modelli con volumi da circa 30 litri a 7000 litri, ma sono possibili anche esecuzioni speciali con dimensioni differenti.
Le opzioni disponibili sono staffe saldate, spie di liquido, connessioni extra.

MODELS HLR

The liquid receivers series HLR are the ones manufactured in horizontal execution.
The standard range includes models with volumes from about 30 litres to 7000 litres, but special versions are also possible with different size.
The options available are welded feet, sight glasses, extra sockets.

| MODELLO MODEL | VOLUME | A | B | C | D | E | F | G | d1 | d2 | d5 | Cat. PED | | Peso (Vuoto) Weight (Empty) |
|------------------|--------|------|------|------|-----|----|-----|-----|---------------------|---------------------|----------|----------|-------|--------------------------------|
| | | | | | | | | | | | | Gr. 1 | Gr. 2 | |
| | dm3 | mm | mm | mm | mm | mm | mm | mm | mm | mm | Thrd | Gr. 1 | Gr. 2 | kg |
| HLR 30 | 31 | 920 | 550 | 560 | 219 | 70 | 80 | 260 | Rtlk 1.3/4" - ODS35 | Rtlk 1.3/4" - ODS35 | 1/2" NPT | III | III | 35 |
| HLR 40 | 40 | 1170 | 800 | 700 | | | | | | | | IV | III | 39 |
| HLR 50 | 49 | 1420 | 1050 | 900 | | | | | | | | IV | III | 50 |
| HLR 60 | 57 | 1670 | 1300 | 1000 | | | | | | | | IV | III | 56 |
| HLR 70 | 64 | 1200 | 800 | 700 | 273 | 50 | 100 | 300 | ODS42 | ODS42 | 1" NP | IV | III | 52 |
| HLR 80 | 77 | 1450 | 1050 | 900 | | | | | | | | IV | III | 68 |
| HLR 90 | 90 | 1700 | 1300 | 1000 | | | | | | | | IV | IV | 90 |
| HLR 110 | 109 | 1480 | 1050 | 900 | 324 | 50 | 100 | 300 | ODS54 | ODS54 | 1" NPT | IV | IV | 91 |
| HLR 130 | 128 | 1740 | 1300 | 1000 | | | | | | | | IV | IV | 108 |
| HLR 145 | 144 | 1280 | 800 | 700 | 406 | 50 | 120 | 400 | ODS54 | ODS54 | 1"NPT | IV | IV | 120 |
| HLR 175 | 173 | 1530 | 1050 | 900 | | | | | | | | IV | IV | 128 |
| HLR 200 | 203 | 1780 | 1300 | 1000 | | | | | | | | IV | IV | 146 |
| HLR 260 | 262 | 2280 | 1800 | 1200 | | | | | | | | IV | IV | 183 |
| HLR 320 | 318 | 1830 | 1300 | 1000 | | | | | | | | 508 | 50 | 120 |
| HLR 410 | 412 | 2330 | 1800 | 1200 | IV | IV | 326 | | | | | | | |
| HLR 500 | 506 | 2830 | 2300 | 1500 | IV | IV | 345 | | | | | | | |
| HLR 600 | 600 | 3330 | 2800 | 2000 | IV | IV | 420 | | | | | | | |
| HLR 630 | 628 | 2850 | 2300 | 1500 | 558 | 70 | 120 | 500 | OD114 | OD114 | 3X1" NPT | IV | IV | 416 |
| HLR 745 | 743 | 3350 | 2800 | 2000 | | | | | | | | IV | IV | 480 |
| HLR 880 | 870 | 3380 | 2800 | 2000 | 610 | 70 | 120 | 600 | OD141 | OD141 | 3X1" NPT | IV | IV | 503 |
| HLR 1000 | 999 | 3880 | 3300 | 2200 | | | | | | | | IV | IV | 605 |



LIMITI DI IMPIEGO - WORKING LIMITS

| HLR | T - standard | T - low temp | Pr | Prp |
|----------------|--------------|--------------|-------|-------|
| | [°C] | [°C] | [bar] | [bar] |
| HLR 30 / 60 | -10 / +120 | -45 / 120 | 40 | 57,2 |
| HLR 70 / 600 | | | 36 | 51,5 |
| HLR 630 / 1000 | | | 32 | 45,8 |

MODELLI VLR

I ricevitori di liquido serie VLR sono quelli costruiti in versione verticale.
La gamma standard comprende modelli con volumi da circa 30 litri a 450 litri, ma sono possibili anche esecuzioni speciali con dimensioni maggiori.
Le opzioni disponibili sono staffe saldate, spie di liquido, connessioni extra.

MODELS VLR

The liquid receivers series VLR are the ones manufactured in vertical execution.
The standard range includes models with volumes from about 30 litres to 450 litres, but special versions are also feasible with larger size.
The options available are welded feet, sight glasses, extra sockets.

| MODELLO MODEL | VOLUME | A | B | C | D | E | F | G | H | d1 | d2 | d5 | Cat. PED | | Peso (Vuoto) Weight (Empty) |
|------------------|--------|------|------|-----|-----|----|-----|-----|----|---------------------|---------------------|----------|----------|-------|--------------------------------|
| | | | | | | | | | | | | | Gr. 1 | Gr. 2 | |
| | dm3 | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | inch | Gr. 1 | Gr. 2 | kg |
| VLR 30 | 31 | 950 | 550 | | | | | | | | | | IV | III | 37 |
| VLR 40 | 40 | 1200 | 800 | | | | | | | | | | IV | III | 41 |
| VLR 50 | 49 | 1450 | 1050 | 215 | 219 | 70 | 270 | 210 | 13 | Rtlk 1.3/4" - ODS35 | Rtlk 1.3/4" - ODS35 | 1/2" NPT | IV | III | 52 |
| VLR 60 | 57 | 1700 | 1300 | | | | | | | | | | IV | III | 56 |
| VLR 70 | 64 | 1230 | 800 | | | | | | | | | | IV | III | 54 |
| VLR 80 | 77 | 1480 | 1050 | 230 | 273 | 50 | 270 | 210 | 13 | ODS42 | ODS42 | 1" NPT | IV | III | 70 |
| VLR 90 | 90 | 1730 | 1300 | | | | | | | | | | IV | IV | 92 |
| VLR 110 | 109 | 1520 | 1050 | | | | | | | | | | IV | IV | 94 |
| VLR 130 | 128 | 1770 | 1300 | 250 | 324 | 50 | 330 | 280 | 13 | ODS54 | ODS54 | 1" NPT | IV | IV | 111 |
| VLR 145 | 144 | 1330 | 800 | | | | | | | | | | IV | IV | 124 |
| VLR 175 | 173 | 1580 | 1050 | | | | | | | | | | IV | IV | 132 |
| VLR 200 | 209 | 1830 | 1300 | 290 | 406 | 50 | 380 | 320 | 13 | ODS54 | ODS54 | 1"NPT | IV | IV | 150 |
| VLR 260 | 262 | 2330 | 1800 | | | | | | | | | | IV | IV | 187 |
| VLR 320 | 318 | 1880 | 1300 | 315 | 508 | 50 | 500 | 440 | 18 | OD76 | OD76 | 2X1" NPT | IV | IV | 231 |
| VLR 410 | 412 | 2380 | 1800 | | | | | | | | | | IV | IV | 330 |

LIMITI DI IMPIEGO - WORKING LIMITS

| VLR | T - standard | T - low temp | Pr [bar] | Prp [bar] |
|--------------|--------------|--------------|-------------|--------------|
| | [°C] | [°C] | | |
| VLR 30 / 60 | -10 / +120 | -45 / 120 | 40 | 57,2 |
| VLR 70 / 410 | -10 / +120 | -45 / 120 | 36 | 51,5 |

