

## Type summary

The refrigeration capacity refers to applications using ammonia.

Product number	DN	$k_{vs}$ [m³/h]	$k_{vs}$ reduced [m³/h]	$\Delta p_{max}$ [MPa]	$Q_0 E$ [kW]	$Q_0 H$ [kW]	$Q_0 D$ [kW]	$S_{NA}$ [VA]	$P_{med}$ [W]
<a href="#">MVS661.25-016N</a>	25	0,16	0,10	2,5	95	10	2	22	12
<a href="#">MVS661.25-0.4N</a>	25	0,40	0,25		245	26	5		
<a href="#">MVS661.25-1.0N</a>	25	1,0	0,63		610	64	12		
<a href="#">MVS661.25-2.5N</a>	25	2,5	1,6		1530	159	29		
<a href="#">MVS661.25-6.3N</a>	25	6,3	4,0		3850	402	74		

$k_{vs}$  = Nominal flow rate of refrigerant through the fully open valve ( $H_{100}$ ) at a differential pressure of 100 kPa (1 bar) to VDI 2173  
If required  $k_{vs}$ -value and refrigeration capacity  $Q_0$  can be reduced to 63 %, refer to « $k_{vs}$  reduction» on page 3

$\Delta p_{max}$  = Maximum permissible differential pressure across the control path A → AB of the valve, valid for the entire actuating range of the motorized valve

$Q_0 E$  = Refrigeration capacity in expansion applications

$Q_0 H$  = Refrigeration capacity in hot-gas bypass applications

$Q_0 D$  = Refrigeration capacity in suction throttle applications and  $\Delta p = 0.5$  bar

$S_{NA}$  = nominal apparent power for selecting the transformer

$P_{med}$  = typical power consumption

The pressure drop across evaporator and condenser is assumed to be 0.3 bar each, and 1.6 bar upstream of the evaporator (e.g. spider).

The capacities specified are based on superheating by 6 K and subcooling by 2 K.

## Accessories

Valve insert ASR..N

Product number	DN	$k_{vs}$ [m³/h]	$Q_0 E$ [kW]	$Q_0 H$ [kW]	$Q_0 D$ [kW]
<a href="#">ASR0.16N</a>	25	0,16	95	10	2
<a href="#">ASR0.4N</a>	25	0,40	245	26	5
<a href="#">ASR1.0N</a>	25	1,0	610	64	12
<a href="#">ASR2.5N</a>	25	2,5	1530	159	29
<a href="#">ASR6.3N</a>	25	6,3	3850	402	74

The refrigeration capacity for various refrigerants and operating conditions can be calculated for the 3 types of application using the tables starting from page 10.

For accurate valve sizing, the valve selection program "Refrigeration VASP" is recommended.

## Ordering

Valve body and magnetic actuator form one integral unit and cannot be separated.

Example:

Product number	Stock number	Designation	Quantity
<a href="#">MVS661.25-0.4N</a>	<a href="#">MVS661.25-0.4N</a>	Refrigerant valve	1

## Spare parts

Replacement electronics ASR61

Should the valve's electronics become faulty, the entire electronics housing is to be replaced by spare part ASR61, which is supplied complete with Mounting Instructions (74 319 0270 0).

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See table on page 16.

Valve insert ASR..N



If plant is resized, or should excessive wear impact the valve's performance, a new valve insert ASR...N will restore the valve's characteristics to its original specifications.

The valve insert is supplied complete with Mounting Instructions (74 319 0486 0).