

Non-Return Valves Type A

Application

For gases and liquids with continuous flow, e.g. for air, air-oil mixture and oil in screw compressors.

Function

Open, if the medium is flowing in the direction of the arrow on the valve housing. Automatic closing if the medium stops flowing, before the direction of flow is reversed.

Valve design

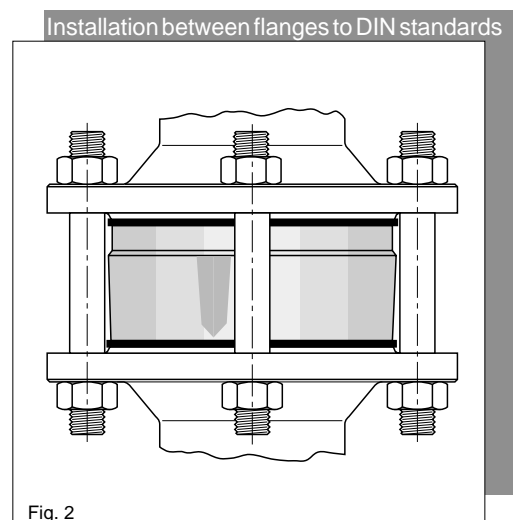
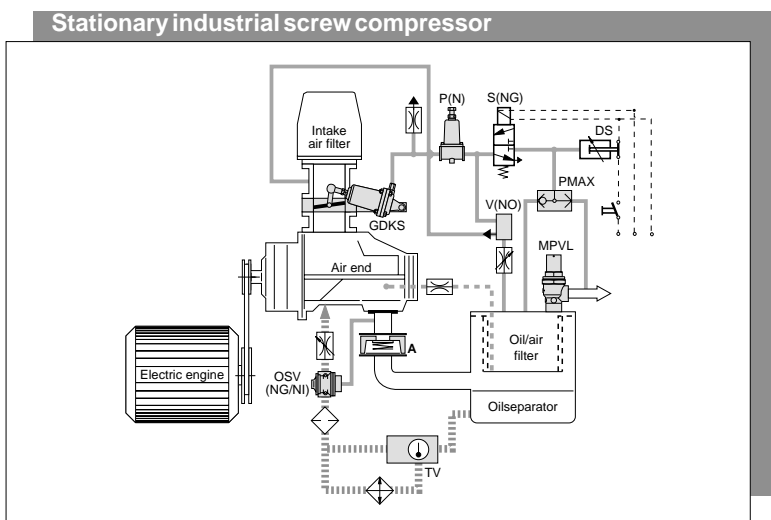
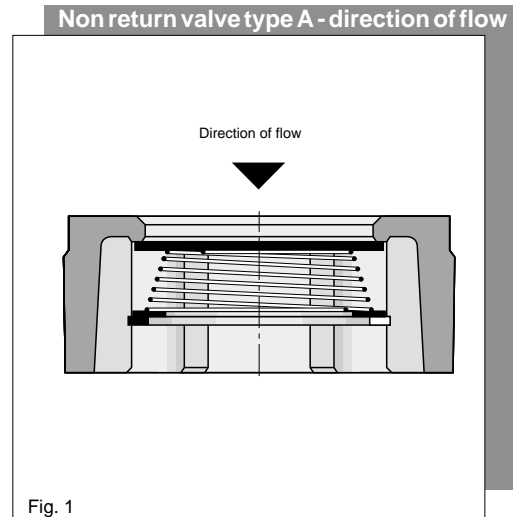
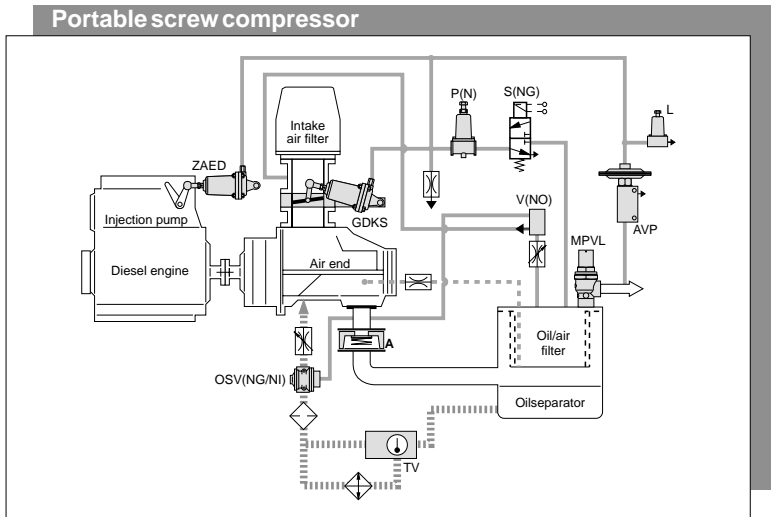
The valve consists of a housing with valve seat, a valve disc, a conical spring, a spring support ring and a retaining ring. The valve disc is guided by the valve housing. Type A non-return valves require little space. The valve opens fully at minimum flow, because the conical spring's force is carefully matched to the weight of the valve disc.

⚠ Attention! Never attempt to disassemble a cylinder whilst under pressure!



Installation:

At the discharge flange of a compressor. Between standard flanges (see fig. 2)



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Details

Type		32A	38A	50A	60A	72A	90A	108A	130A	145A
Nominal diameter DN	mm	25	32	40	50	65	80	100	125	150
Max. working pressure PS	bar (g)	16								
Weight	kg	0.27	0.32	0.66	0.92	1.5	2.4	3.7	5.6	7.9
K _v -value ¹⁾	m ³ /h	11	15	29	42	61	81	118	175	225
Valve lift	mm	7	8	10	12	15	16	20	24	28
Working temperature	°C	up to 200								
Medium		air, mineral oil, synthetic oil for compressors. gases and liquids on request								
Installation dimensions		see dimension table								
Installation attitude		preferably with valve inlet on top, arrow pointing downwards								
Materials		housing: zinc plated cast iron valve disc, spring, spring support ring: corrosion resistant steel retaining ring: zinc plated steel								

¹⁾measured to DIN IEC 534, valves refer to a specific density 1000 kg/m³(water)

Valve dimensioning:

Please specify:

flange standards or flange dimensions, valve installation position, pressure drop required. The pressure drop depends on the density, quantity, pressure and temperature of the media which flow through the valve. With mixtures of air/gases with liquids, the pressure drop also depends on the mixture ratios and the degree of mixing.

Ordering details:

Standard design:

Valve type or data for valve dimensioning
Material, installation dimensions inquired,
Special versions: data for valve dimensioning, surface protection



Dimension table (in mm)

Dimensions of standard valves, for installation between flanges to DIN 2501

Type	DD	D1	D2	H
32A	30	56	55	30
38A	34	62	61	30
50A	44	85	82	32
60A	55	95	92	40
72A	68	115	112	46
90A	83	142	138	50
108A	100	162	158	60
130A	125	192	188	70
145A	140	218	213	80

Dimensions

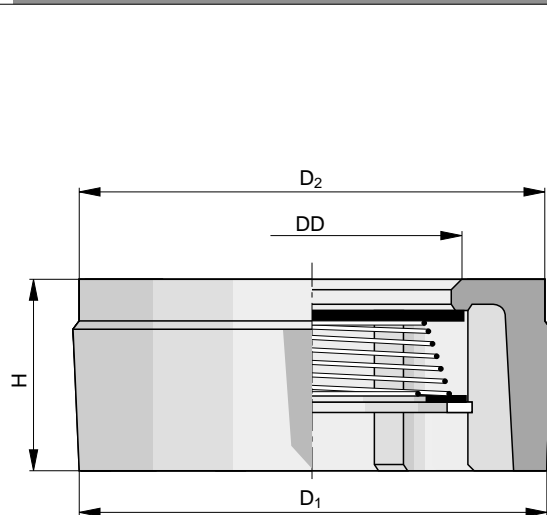


Fig. 3

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