Astava

Distribution

Manifolds

Company introduction

Since 1956, ASTAVA has been designing and manufacturing instrumentation valves for the Oil&Gas, (petro)chemical industries and nuclear power plants. Throughout its years of vast experience in the field of design, engineering and manufacturing at its fully owned factories, ASTAVA has been able to provide its customers with solutions and products that excel in their uniqueness and reliability. Thorough whilst progressive. ASTAVA has proven that these two concepts go well together in a superb collaboration between its various departments, working closely together in order to design new and improved products. By contacting the commercial staff at an early stage, ASTAVA is able to provide an optimal solution together with the customer. Our service goes beyond delivering instrumentation valves. It includes working together with our clients on a total solution for instrument hook-ups.

Markets

Astava products are delivered around the world either direct with HQ in The Netherlands or through on of our 16 sales offices. Our products are mainly applied in the below mentioned industries.

NUCLEAR OIL & GAS PROCESS

Quality

As guidance to the innovative processes within our company, people, procedures are mandatory. To support, monitor and develop Astava, our quality management systems consistently creates awareness to our personel and client to be able to design and manufactureproducts that meet customer demands and meet the relevant standards and regulations.

This quality is in line with the latest revision of the following standards and laws:

- ISO 9001
- PED 2014/68/EU
- REACH
- RoHS 2011/65/EU

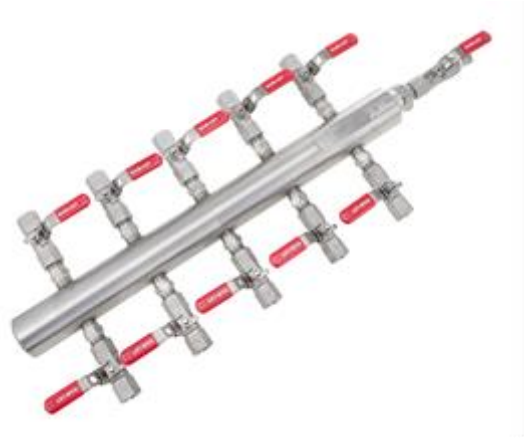
Product group: Astava Distribution Manifolds

This section of our product catalogue gives a complete overview of our range of Astava Distribution Manifolds (ADM).

The purpose of the ADM is to distribute air, nitrogen or any other gasses to the different air operated devices in a plant or facility. The ADM is applied in all kinds of industries, from oil, gas up to food processing.

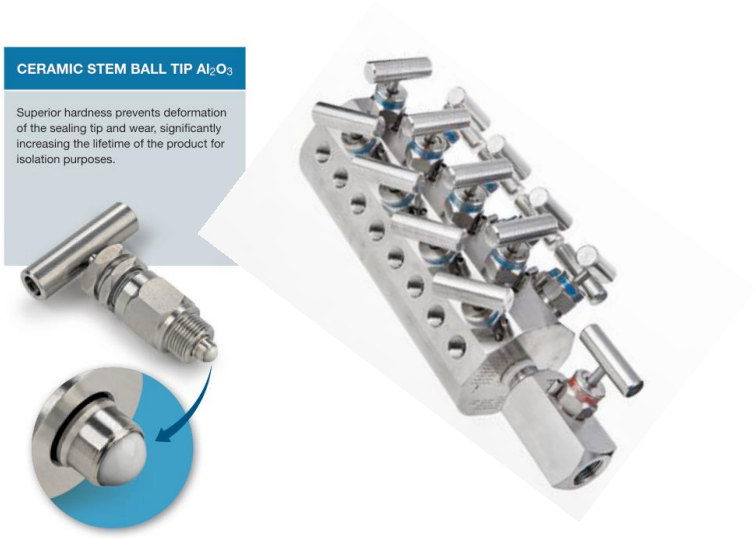
The ASTAVA solution for these applications is engineered to integrate the different parts as much as possible with the use of as less space as possible. All pressure retaining parts are manufactured out of AISI 316L material and can be used as well in on-shore as in off-shore conditions. Astava offers 2 variants on closing member being **ball valve** or **needle valve** type.

Ball valve
The ball valve range of ADM is designed ffrom a single piece body, large interal bore with assembled or welded light weight ball valve valves. The ball valves are positioned on both side of the ADM to keep length as economical as possible.



- Large bore solution
- Lightweight ball valve design
- One-piece integral body design
- Rating up to 6.000 psi

Needle valve
The needle type of closing is integrated in the body of the ADM. The operating devices are positioned in such a way that they are easy to operate without extending the length of the complete unit. All this results in major space saving compared to the conventional ADM by ball type.



- Ceramic needle tip
- NACE MR-01-75 compliant
- One-piece integral body design
- Integrated back seats on stem
- Rating up to 10.000 psi

Testing
All ADM products are 100% factory tested by MSS-SP 99 20165 version at 56 barg nitrogen (800 psig). Seats have a maximum allowable leak rate of 0.1 std cm3/min. The Hydrostatic and Helium leak tests are available upon request.

Pressure temperature rating needle solutions

End connection Size	FKM / Sillicon seals		PTFE Seals		Graphite Seals	
	Working pressure Bar (psi)	Temperature °C (°F)	Working pressure Bar (psi)	Temperature °C (°F)	Working pressure Bar (psi)	Temperature °C (°F)
½ and ¾	600 (9000)	38 (100)	413 (6000)	93 (200)	413 (6000)	93 (200)
	200 (3000)	200 (392)	275 (4000)	200 (400)	206 (3000)	454 (850)
1	206 (3000)	38 (100)	206 (3000)	93 (200)	137 (2000)	93 (200)
	137 (2000)	200 (392)	137 (2000)	200 (400)	103 (1500)	454 (8501)

Pressure temperature rating ball solutions
Ball valve type of solution P/T rating depends on the MAWP of the ball valves applied in combination with the defined pressure classes for the full model applied.

Cleaning
All ASTAVA instrument manifolds are cleaned in accordance with the ASTAVA cleaning procedure. Oxygen clean is available in accordance with ASTM G-93.

How to order
Build a distribution manifold ordering number by combining the designators in the sequence as defined below.

Digit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Model code	A	D	M	8	0	6	/	4	2	2	-	B	0	1	-	B	D	I			

Body Material
6 = alloy 625
7 = alloy 254Smo
8 = AISI 316 (L)

No of outlets
02 = 2 outlets
04 = 4 outlets
06 = 6 outlets
08 = 8 outlets
10 = 10 outlets
12 = 12 outlets
14 = 14 outlets
16 = 16 outlets
18 = 18 outlets
20 = 20 outlets

Inlet size
1 = 1/4"-18 NPT F
2 = 1/2"-14 NPT F
3 = 3/4"-14 NPT F
4 = 1"-11,5 NPT F
5 = G 1/4"BSPP
6 = G 1/2"BSPP
7 = G 3/4"BSPP
8 = G 1"BSPP

Outlet size
1 = 1/4"-18 NPT F
2 = 1/2"-14 NPT F
3 = 3/4"-14 NPT F
4 = 1"-11,5 NPT F
5 = G 1/4"BSPP
6 = G 1/2"BSPP
7 = G 3/4"BSPP
8 = G 1"BSPP

Vent size
1 = 1/4"-18 NPT F
2 = 1/2"-14 NPT F
5 = G 1/4"BSPP
6 = G 1/2"BSPP

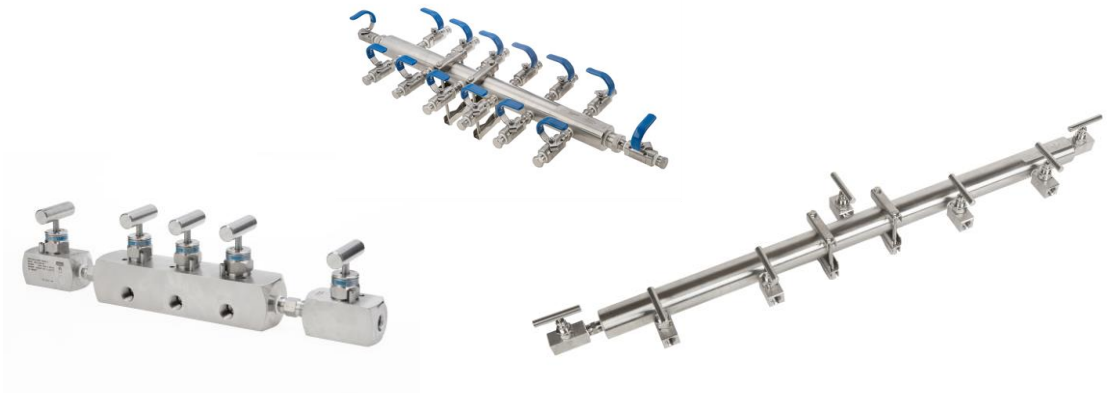
Options
0 = Options
A = Astava 103-06 isolate valve assembled in vent connection
B = Ball valve with PTFE stempacking in vent connection
D = 1" Flanged inlet connection (material equal to body)
H = Mounting bracket 906 for wall mounting AISI 316
I = Mounting bracket AISI 316 2" to 2" pipe
J = Mounting bracket AISI 316 2" to 1" pipe

Type of valves
000 = no valves
B01 = Ball valve with PTFE stempacking PN64
B02 = Ball valve with PTFE stempacking PN250
B03 = Ball valve with PTFE stempacking PN55, bent handle
N01 = Needle valve with PTFE packing
N05 = Needle valve with Grafoil packing
N06 = Needle valve with FKM packing
N01 = Needle valve with Sillicon packing

Warning!
The system designer and user have the sole responsibility for selecting products suitable for their special application requirements, ensuring their safe and trouble-free installation, operation, and maintenance.
Application details, material compatibility and product ratings should all be considered for each selected product.
Improper selection, installation or use of products can cause property damage or personal injury.

Dimensions
Dimensions of the offered solution are available form Astava technical support team on request. Submit you request to rfq@astava.com.

Custom built
Besides the common models mentioned in the How-To-Order matrix, Astava has a wide range of options available. Tailored to customer specification from material, welding protocol or dimension requirements. Flexibility and innovation is the key for Astava.
For inquiries please refer to info@astava.com.



Manufacturer
The products are supplied from Astava HQ and production facility based in Meppel, The Netherlands.As a result the products in this catalogue can be provided incldluing COO EU certificate upon request

Warranty
The products are delivered with 36 months of quarantee after delivery of 24 months after installation according to the general terms and conditions of the company.

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