

SMART ONE - SMART TWO

Think smarter, choose SMART



SMART hoses are Vitillo's latest innovation for medium pressure applications. They **exceed EN 857 1SC/2SC** standards for pressure, flexibility, abrasion and ozone resistance, durability and ensure the best performance with an **unrivalled quality/price ratio**. The compact structure and high flexibility of SMART hoses make them perfect for applications in tight spaces, their low weight also allows to reduce the overall weight of the machinery and save energy. The **MSHA approved Smooth cover** also facilitates the assembly of protective sleeves and reduces friction and abrasion which are the main causes of hose breakage. Moreover the inner layer in NBR (nitrile compound) assures the best compatibility with the fluids and a better resistance to biodegradable oils.

1.000.000 impulse cycles tested*

SMART ONE - SMART TWO

Hose size	Outside diameter	Max working pressure	Min burst pressure	Min bend radius
				
D.N. Inch	Inch mm	PSI Bar	PSI Bar	Inch mm

Applications:

Compact construction equipment
Agricultural equipment
Mining sector
Aerial lift equipment
Handling equipment

Qualified Fluids:

Petroleum and water-glycol based fluids, lubricating oils and water

Operating temperature range:

-40°C/+125°C (-40°F to +257°F)

The combination of high temperature and high pressure reduces the hose service life.

Features:

 SMART ONE **+30%** - SMART TWO **+15%**

 **1/2 Bend** and **over 50%** more flexible

 Ozone resistance **x20 times**  Abrasion resistance **x3,5 times**

Tube:

Nitrile (NBR)

Reinforcement:

SMART ONE
1 high tensile steel braid

SMART TWO
2 high tensile steel braids

Cover:

Black **smooth** synthetic rubber
MSHA approved



 SMART ONE Exceed UNI EN 857 Type 1SC									
6	1/4"	0.49	12.4	3900	270	15660	1080	1.57	40
8	5/16"	0.53	13.5	3700	255	14800	1020	1.96	50
10	3/8"	0.62	15.8	3625	250	14500	1000	2.36	60
12	1/2"	0.76	19.3	3260	225	13000	900	2.75	70
16	5/8"	0.88	22.4	2320	160	9300	640	3.35	85
19	3/4"	1.02	26.0	2175	150	8700	600	3.93	100
25	1"	1.31	33.4	1595	110	6400	400	5.51	140

Hose size	Outside diameter	Max working pressure	Min burst pressure	Min bend radius
				
D.N. Inch	Inch mm	PSI Bar	PSI Bar	Inch mm

 SMART TWO Exceed UNI EN 857 Type 2SC									
6	1/4"	0.53	13.4	6200	430	25000	1720	1.77	45
8	5/16"	0.59	15.0	5800	400	23200	1600	2.17	55
10	3/8"	0.67	17.0	5100	350	20400	1400	2.56	65
12	1/2"	0.82	20.8	4500	310	18000	1240	3.15	80
16	5/8"	0.95	24.1	4100	280	16200	1120	3.54	90
19	3/4"	1.10	27.9	3900	270	15660	1080	4.72	120
25	1"	1.42	36.1	3045	210	12180	840	6.20	160

*Compared to SAE100 R1/SAE100 R2 and EN 857 1SC/2SC
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