

PUSH-ON universal self-clamping hoses

Self-clamping hoses (PUSH-ON) are designed to be fitted with special PUSH-ON endings without the use of bands or clamps. The end fittings are only pressed into the hose and, due to the special braid design, the compression force of the hose from the end fitting causes the hose to clamp even tighter on the end fitting as the pressure increases. PUSH-ON hoses are universally applicable: for water, air, coolants, hydraulic oil and are used primarily for automation and construction of low-pressure installations in industrial plants. The construction of such installations takes less time, as the hoses can be cut to length and connected to the ends directly at the installation site.



Note: PUSH-ON hoses can also be assembled using hose clamps or collets, provided that the clamping and tail of the end does not damage the rather thin hose wall, so never when using PUSH-ON ends with large and sharp notches.



INSTA-GRIP™300

PUSH-ON self-locking rubber hose

Inner layer: black synthetic rubber
Chemivic™ (NBR+ PVC)

Reinforcement: synthetic braid
Outer layer: blue synthetic rubber
(also available in red, green, grey, yellow and black)

Operating temperature: -40°C to +90°C

Classic, high-quality, self-locking rubber hose (PUSH-ON). For low-pressure hydraulic systems, pneumatic systems and as a universal industrial hose for air, water, oils, lubricants, light chemicals and cleaning fluids. Widely used in the automotive industry (no silicone used in hose manufacture). Outer layer resistant to weather, abrasion and oil. External flame resistance in accordance with MSHA standard 2G-14C/14. Non-conductive ($R > 1 \text{ M}\Omega/\text{inch}$ at 1000 V DC). Safety factor of 4:1. Hose is designed to be used with self-clamping PUSH-ON tips. When ordering a colour other than blue, change the BL index end to R (red), G (green), GY (grey), Y (yellow), BK (black).

index (blue)	inside diameter		external diameter [mm]	wall thickness [mm]	working pressure [bar]	Bursting pressure [bar]	bend radius [mm]	mass [kg/m]	standard length [m]
	[inch].	[mm].							
GY-INSTAGRIP300-06BL	1/4"	6,4	13,7	3,65	20	80	64	0,15	152,4
GY-INSTAGRIP300-08BK*	5/16"	7,9	15,7	3,9	20	80	76	0,18	152,4
GY-INSTAGRIP300-10BL	3/8"	9,5	17,5	4	20	80	90	0,21	152,4
GY-INSTAGRIP300-13BL	1/2"	12,7	20,6	3,95	20	80	127	0,25	152,4
GY-INSTAGRIP300-16BL	5/8"	15,9	23,6	3,85	20	80	152	0,30	152,4
GY-INSTAGRIP300-19BL	3/4"	19,1	27,2	4,05	20	80	190	0,39	152,4

* - black colour

FLEXAGRIP™ hose with similar characteristics and working pressures of 20 bar (size 1") and 28 bar (sizes 3/16" to 3/4") is also available on special request. Contact Tubes International.

index (blue)	inside diameter		external diameter [mm]	wall thickness [mm]	working pressure [bar]	Bursting pressure [bar]	bend radius [mm]	mass [kg/m]	standard length [m]
	[inch].	[mm].							
GY-FLEXAGRIP300-25BL	1"	25,4	34,0	4,3	20	80	203	0,51	152,4

INSTA-GRIP 300 1/4" (DN6) hose with brass PUSH-ON end with 1/4" BSP female thread (TI-YBW110-04-04-MO)

