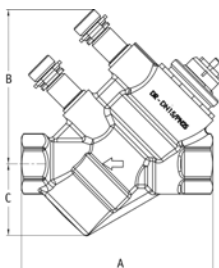


Dynamic PICV 902 (Pressure Independent Control Valve)



The BOSS™ Dynamic PICV 902 is a system balancing valve that combines a fixed orifice Venturi and a differential pressure control valve in one body. It is available with or without electrical actuation and has accurate flow measurement and direct flow measuring.

When an electrical actuator is installed the PICV incorporates two port valve functionality.

The actuators are available in 24VAC/DC On/Off, 230VAC On/Off and 24VDC Modulating Control.

Features & Benefits: Direct flow measuring, built in pressure regulator which corrects pressure fluctuations. Full valve authority gives good thermal comfort (when used with a modulating actuator). Can be installed in any position, as long as flow direction is respected. No up/downstream pipe lengths required.

Dynamic PICV 902 Dimensions

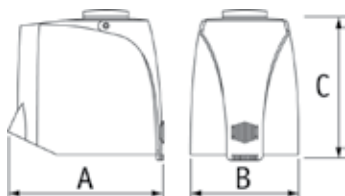
Size	Flow Description	Kvs	Flow Range l/s	A mm	B mm	C mm	Weight kg	Product Code
DN15	Low Flow	0.23	0.011 - 0.033	95	76	35	0.55	21910006
DN15	Standard Flow	0.78	0.025 - 0.125	95	76	35	0.55	21910017
DN15	High Flow	2.5	0.083 - 0.39	95	76	35	0.55	21910028
DN20	Standard Flow	1.9	0.089 - 0.245	120	76	35	0.876	21910039
DN20	High Flow	4.7	0.232 - 0.617	120	76	35	0.876	21910050
DN25	Standard Flow	4.98	0.240-0.65	127	81	56	1.3	21910061
DN25	High Flow	8.5	0.486-0.925	127	81	56	1.3	21910072
DN32	High Flow	8.3	0.530-1.222	127	81	56	1.77	21910083
DN40	Standard Flow	17.5*	0.7-2.08	189.5	115	85	3.65	21910094
DN50	High Flow	29.5*	1.06-3.47	195	115	85	4.15	21910102

* Refers to the Kvm instead of the Kvs valve as this can fluctuate.

Technical Specification

Material	DZR Brass CW602N
Maximum Temperature	120°C
Minimum Temperature	Minus 20°C
Maximum Pressure	25Bar
Operating Pressure	30 - 400kPa (0.3 - 4Bar)
Connections	Female Thread to ISO7/1 Parallel
Seals	EPDM
Membrane	Reinforced EPDM
Cartridge	PPS

Dynamic Thermotecnic Actuator



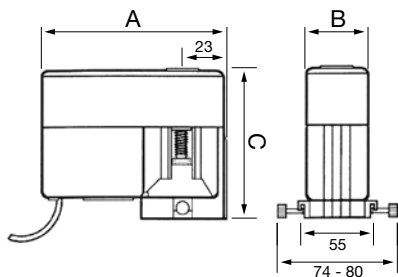
Actuator Type

Type	Description	A mm	B mm	C mm	Weight kg	Product Code
BOSS™ 902	24VAC/DC On/Off	58	44	47	0.14	21910135
AT01	230VAC On/Off	58	44	47	0.118	21910146
AE01	24VAC Modulating	60	44	64	0.138	21910157

Actuator Specification

	Product Code 21910135 BOSS™ 902	Product Code 21910146 AT01	Product Code 21910157 AE01
Operating Voltage	24 VAC/DC 0-60Hz	230VAC 50-60Hz	24VAC 50-60Hz
Operating Power	1.8W	1.8W	2W
Base Position	Normally Closed	Normally Closed	Normally Closed
Closing & Opening Time	3 mins (approx.)	3 mins (approx.)	—
Control Voltage	—	—	0-10VDC
Acting Force	100Nm +/-5%	100Nm +/-5%	100Nm +/-5%
Ambient Temperature	0 - +60°C	0 - +60°C	0 - +60°C
Protection Class	IP54	IP54	IP54
CE Conformity	EN60730	EN60730	EN60730
Cable	Grey (1 metre)	Grey (1 metre)	White (1 metre)

Dynamic Electromechanical Actuator



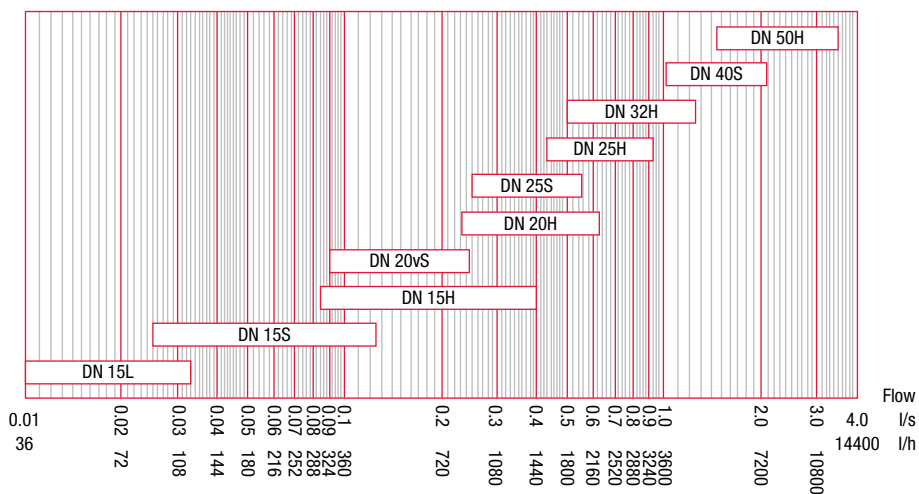
Actuator Type

Type	Description	A mm	B mm	C mm	Weight kg	Product Code
AVUE	24VAC Modulating	101	50	76	0.405	21910231
AVUX	24VAC On/Off	101	50	76	0.405	21910253
AVUM	230VAC/DC On/Off	101	50	76	0.405	21910242

Actuator Specification

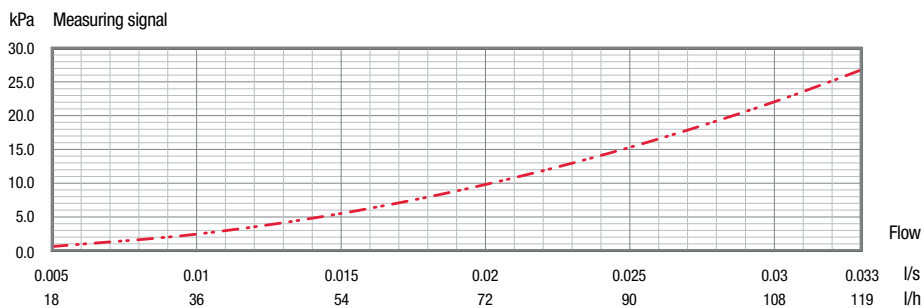
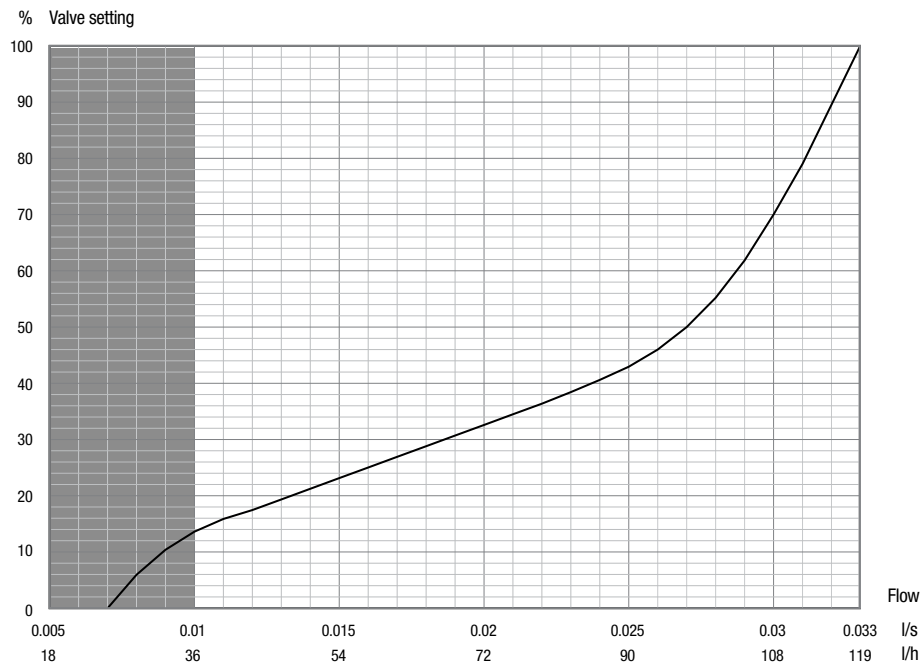
	Product Code 21910231 AVUE	Product Code 21910253 AVUX	Product Code 21910242 AVUM
Operating Voltage	24VAC	24VAC	230VAC
Operating Power	3.1 VA	2.3 VA	3.6 VA
Acting Force	220N	220N	220N
Ambient Temperature			
Operating	0-50°C	0-50°C	0-50°C
Storage	-40-70°C	-40-70°C	-40-70°C
Protection Class	IP40	IP40	IP40
CE Conformity	EN 60730-1	EN 60730-1	EN 60730-1
Cable	Colour-coded fly lead 1.5m long, 3 core Moulded plastic housing Cable colour: White	Colour-coded fly lead 1.5m long, 3 core Moulded plastic housing Cable colour: White	Colour-coded fly lead 1.5m long, 3 core Moulded plastic housing Cable colour: White

Product finder

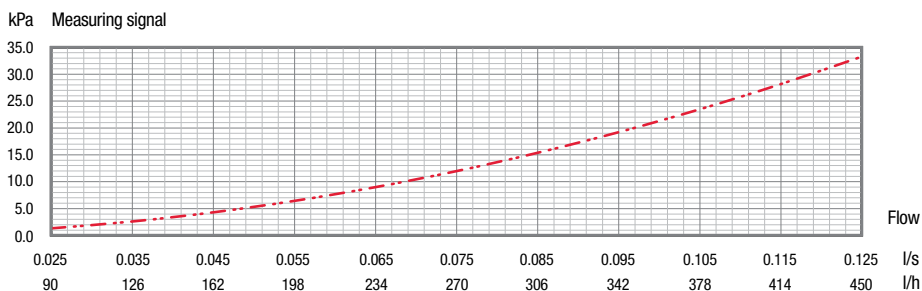
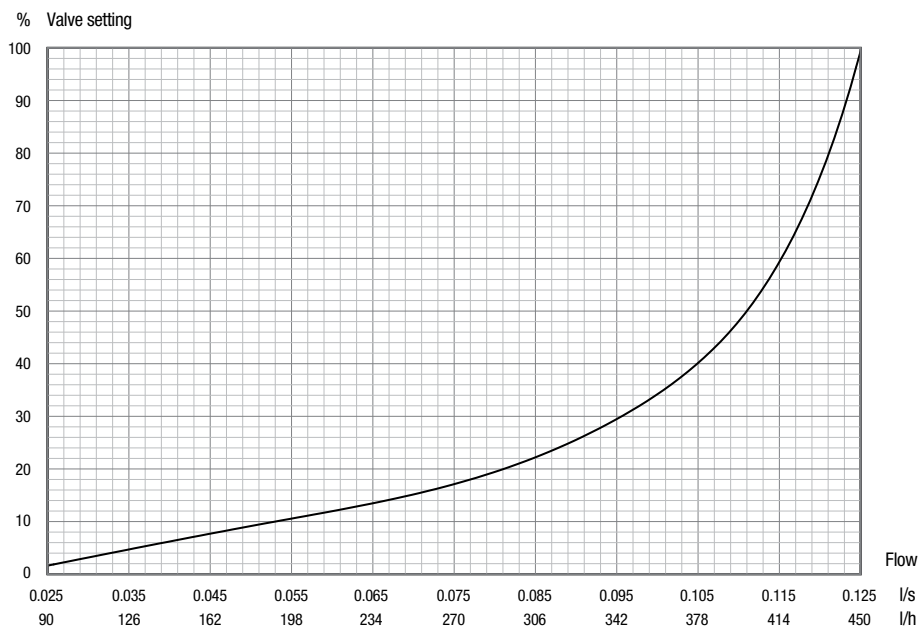


Dynamic

DN 15L female/female – Flow diagram

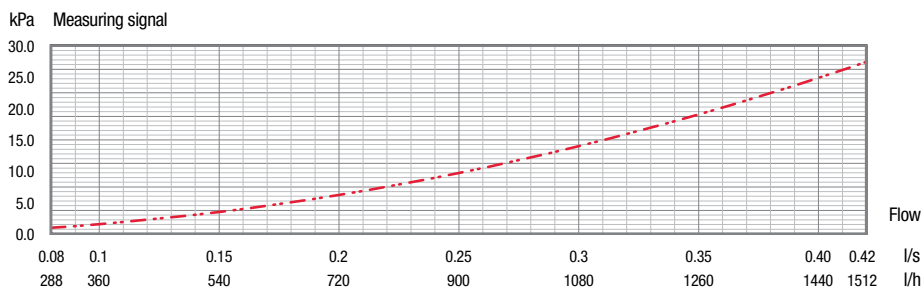
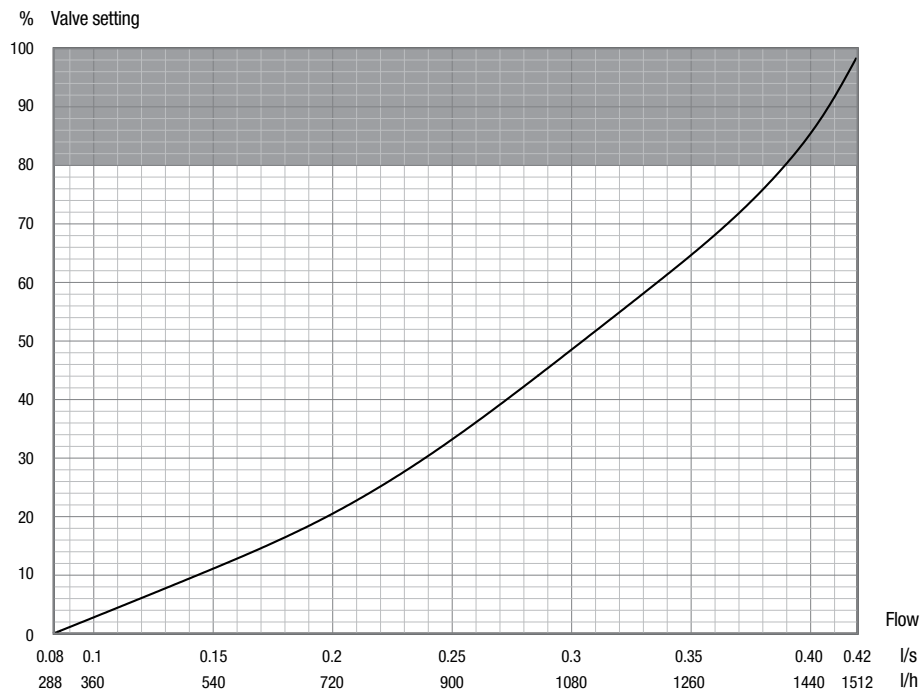


DN 15S female/female – Flow diagram

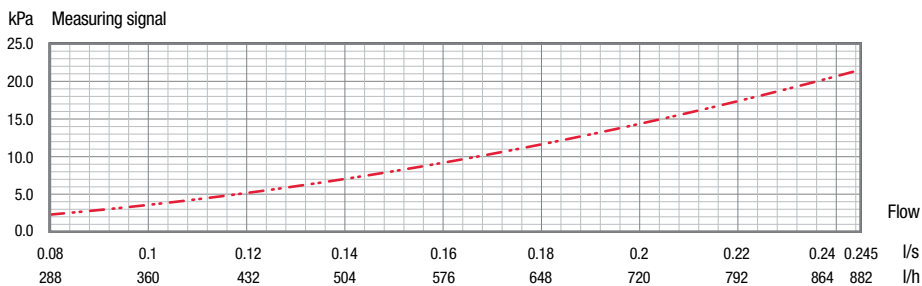
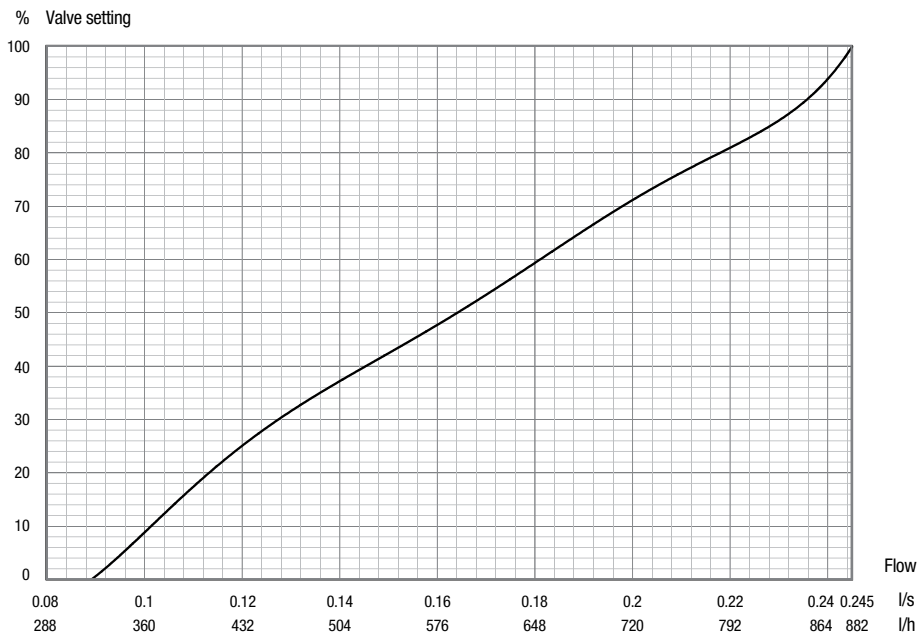


Dynamic

DN 15H female/female – Flow diagram

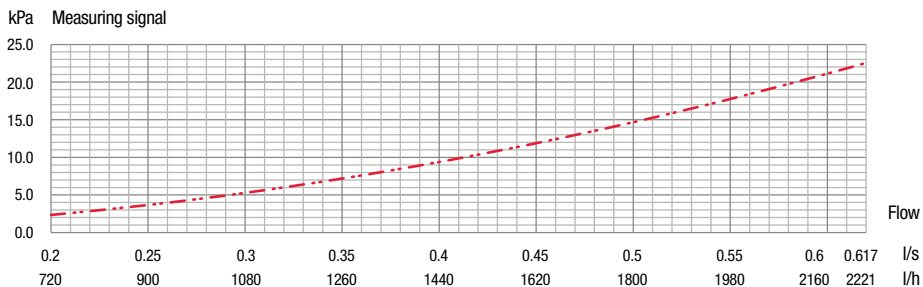
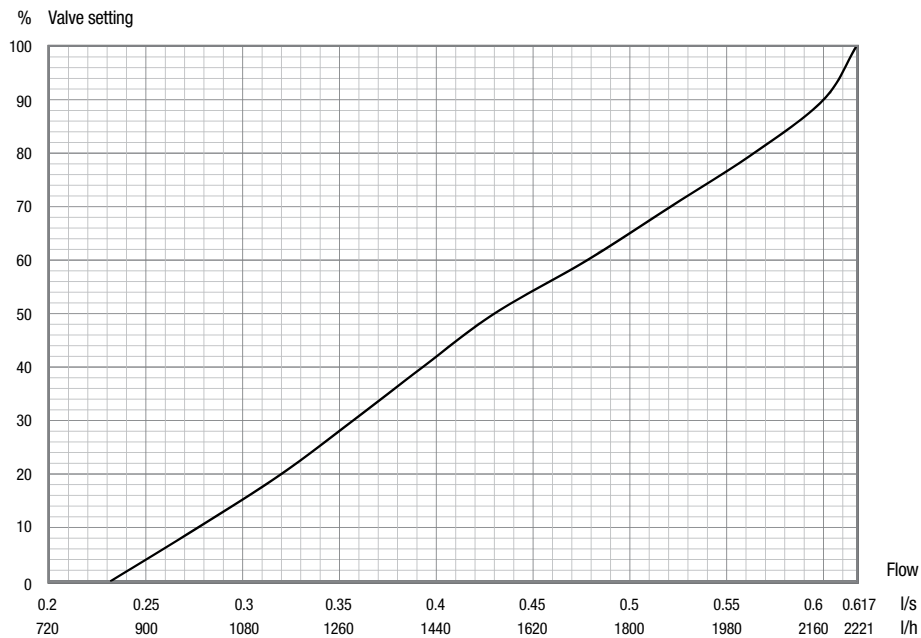


DN 20S female/female – Flow diagram

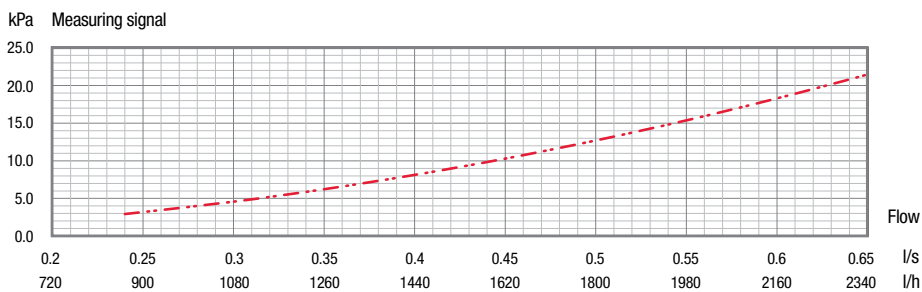
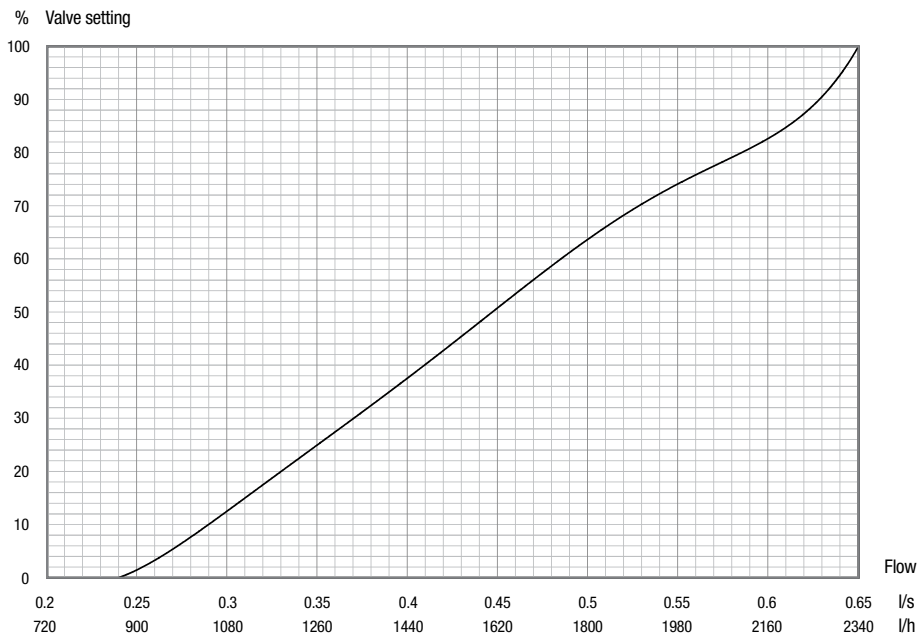


Dynamic

DN 20H female/female – Flow diagram

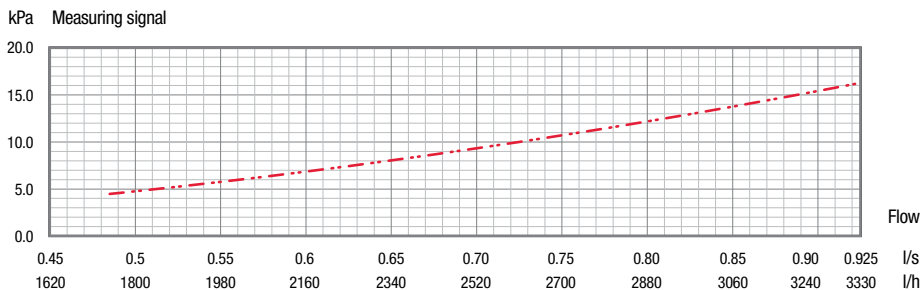
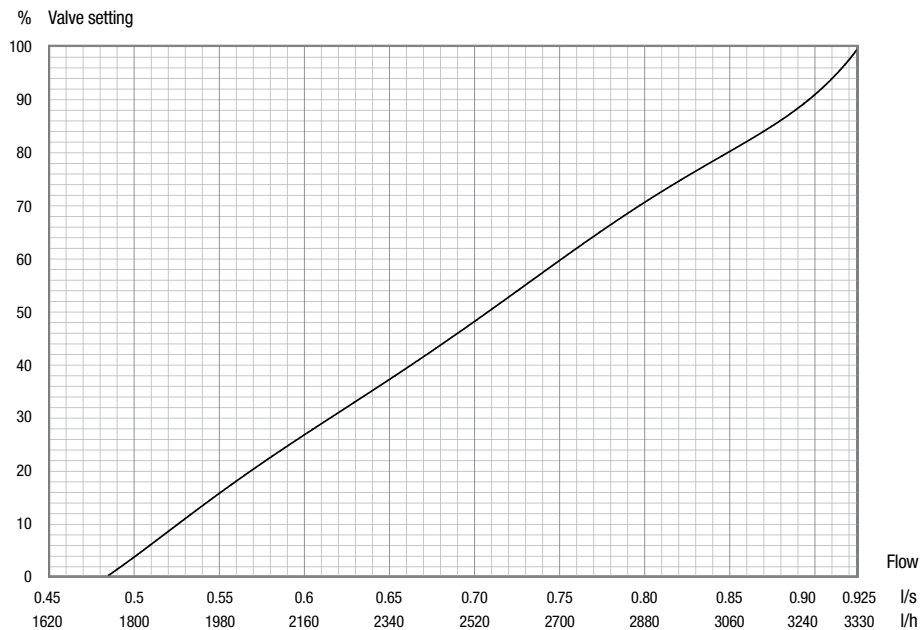


DN 25S female/female – Flow diagram

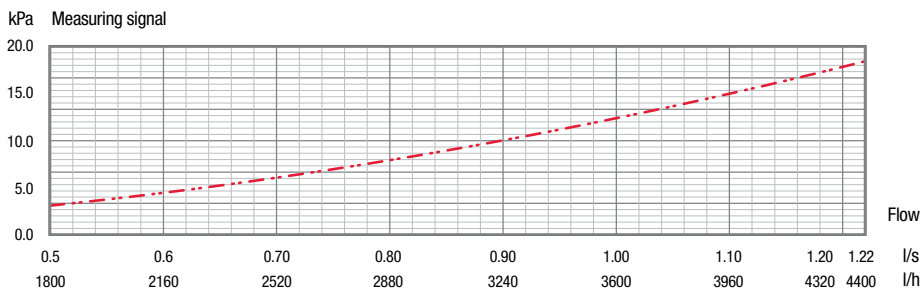
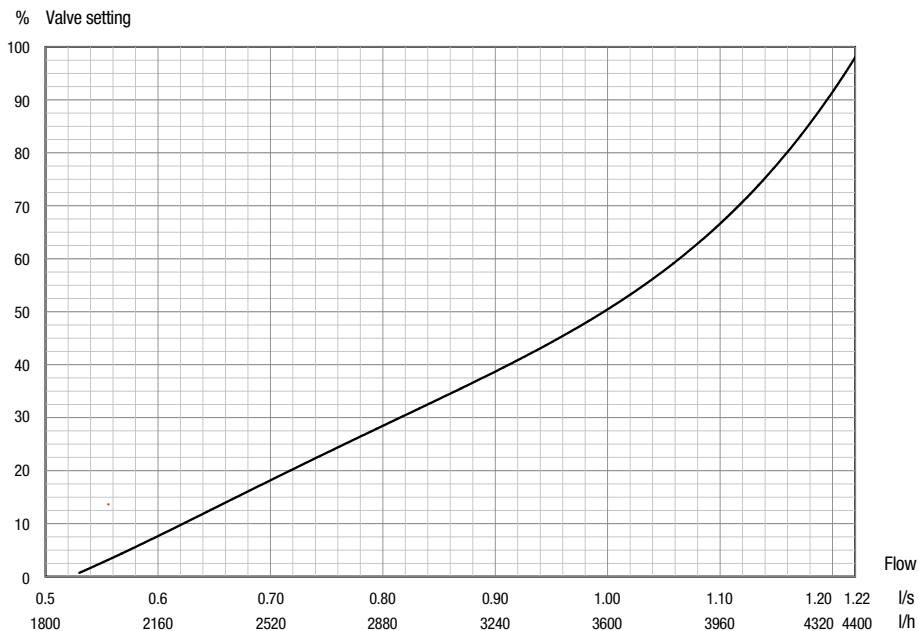


Dynamic

DN 25H female/female – Flow diagram

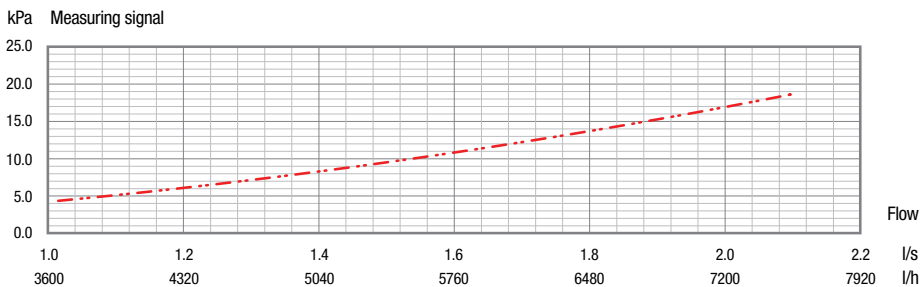
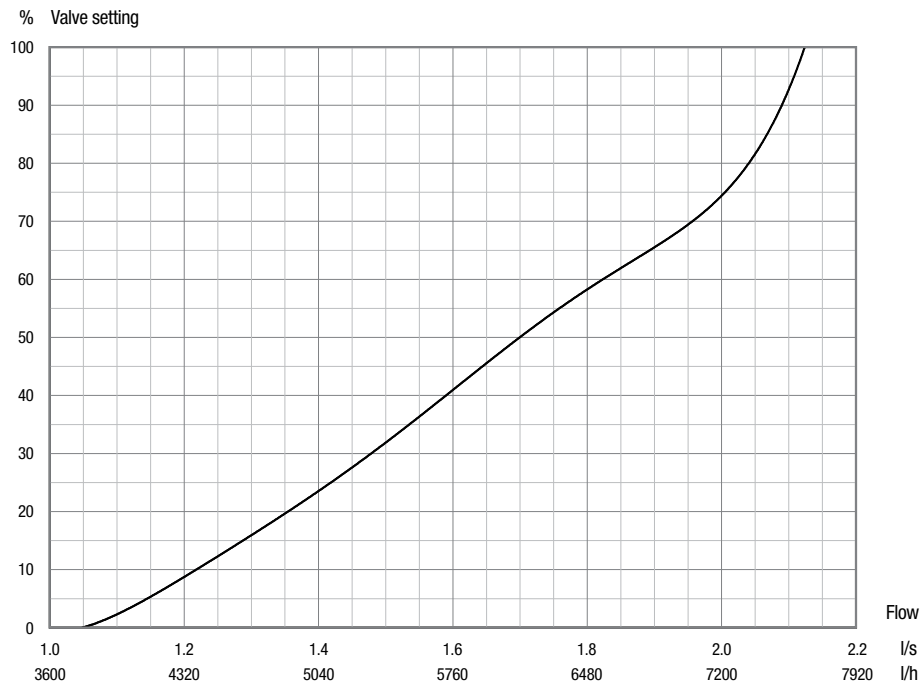


DN 32H female/female – Flow diagram



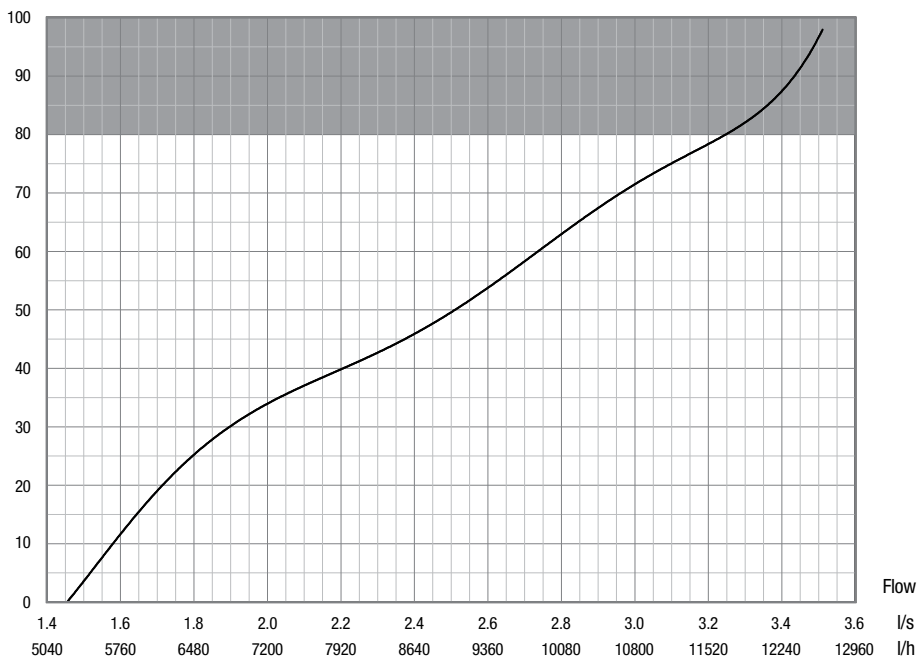
Dynamic

DN 40S female/female – Flow diagram



DN 50H female/female – Flow diagram

% Valve setting



kPa Measuring signal

